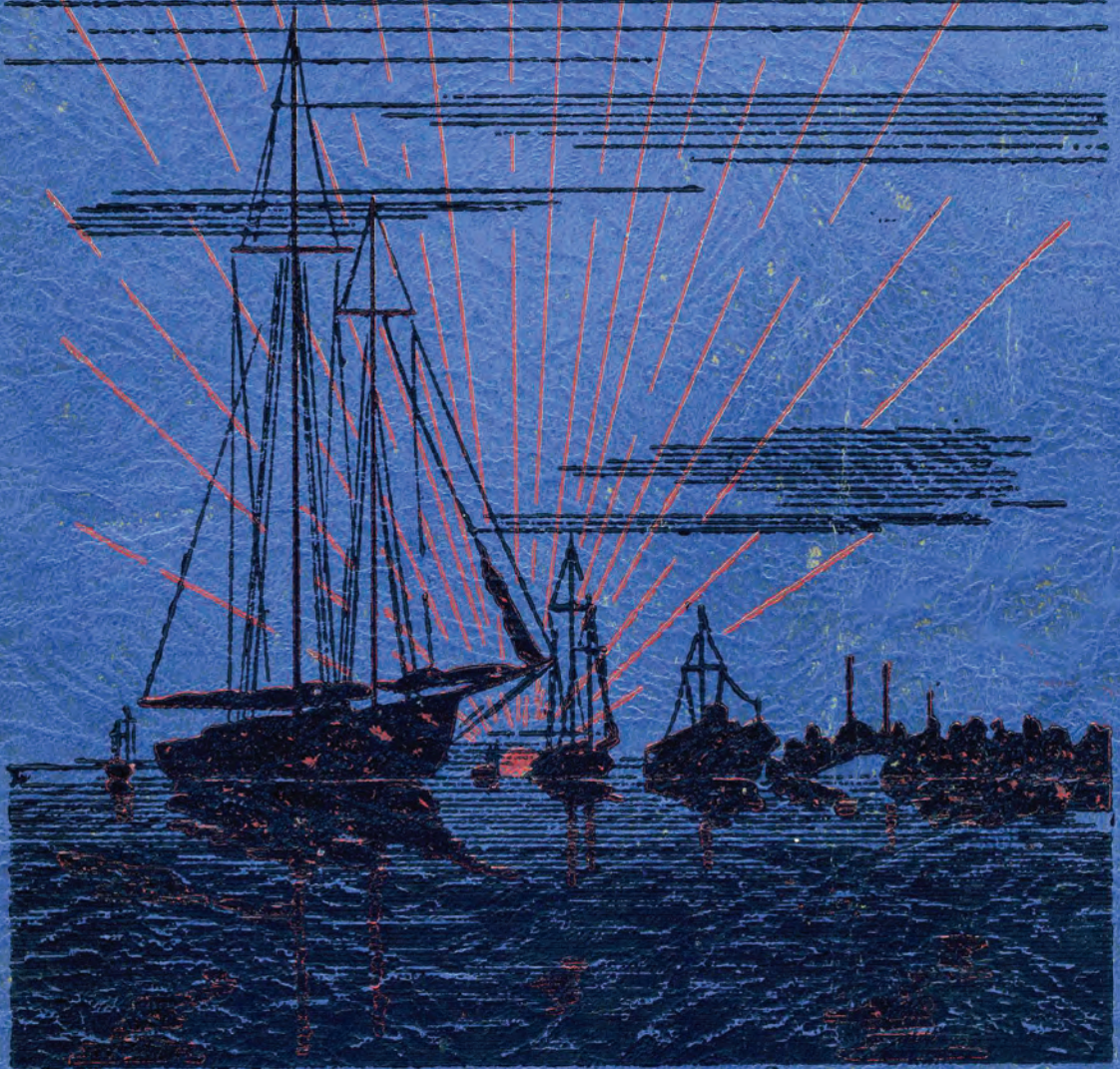


PERKO



**PERKINS MARINE LAMP
&
HARDWARE CORP.**

1943 PITKIN AVENUE

BROOKLYN, NEW YORK

1941 CATALOG No. 100



Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917)

1943 Pitkin Ave., Brooklyn, N. Y.

Manufacturers of

Running Lights, Searchlights, Binnacles, Steering Wheels, Stoves, Gear Pumps,
Air Whistles, Toilets, Lavatories, Yacht Blocks, Brass and
Galvanized Marine Hardware and Sheet Metal Specialties
of Every Description for All Types of Boats from
Canoes to Ocean Liners

Catalog No. 100 1941



Branch Offices

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1117 2ND AVE.
SEATTLE, WASH.

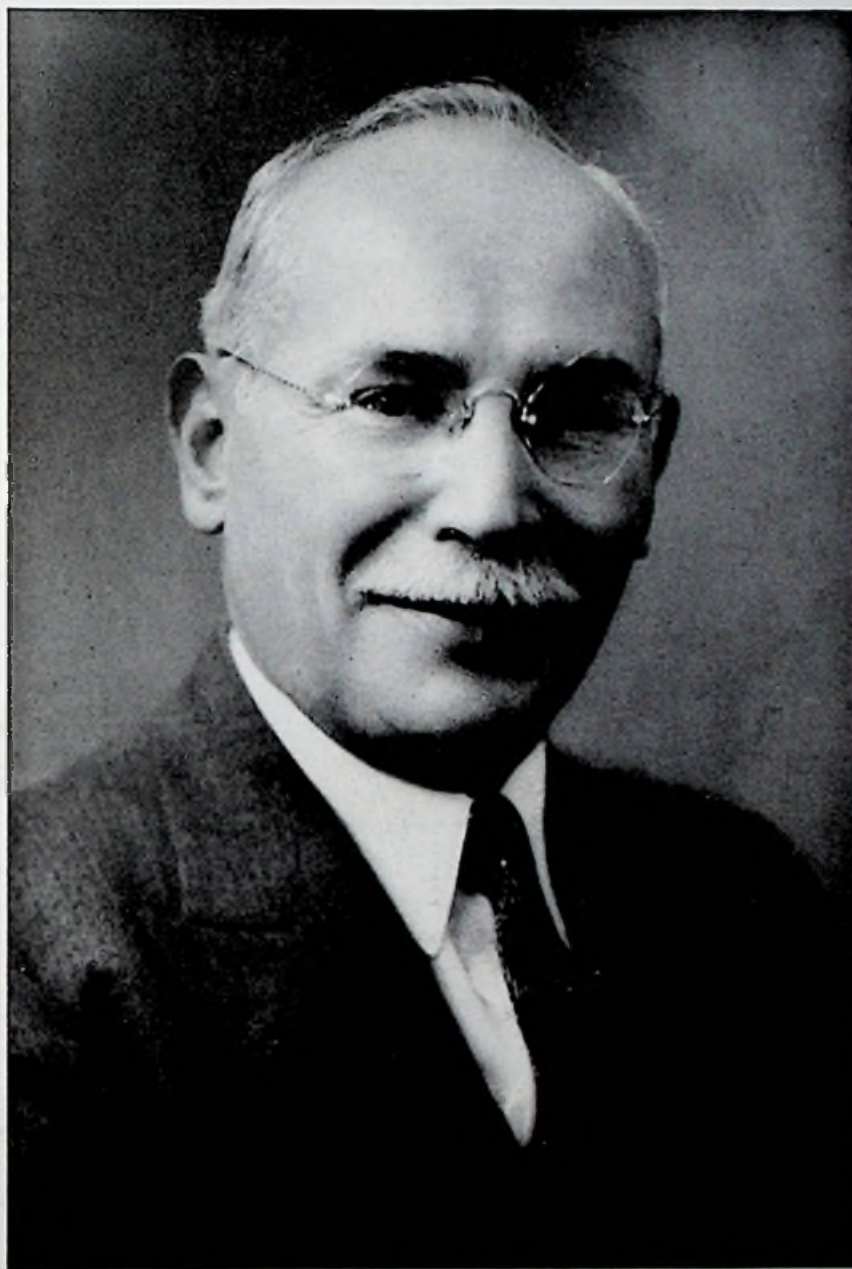
REPRESENTATIVES IN MANY FOREIGN COUNTRIES

FOREWORD AND GENERAL INFORMATION



This catalog presents our full line of marine equipment to date, and has been arranged for convenient reference by grouping the material according to its application in the marine field. We have added a number of new items to our fast growing line which are shown in this catalog. We have made tremendous strides in the marine equipment field, and are not exaggerating when we claim that we are the fastest growing manufacturing organization in that field. The "PERKO" trade mark is now known throughout the world in maritime circles, and this expansion would not have been possible if we had not adhered strictly to our most stringent rule of high quality and quick service, and we guarantee to continue that course.

- PRICES AND TERMS** Prices in this catalog are subject to change without notice and are all F. O. B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.
- GUARANTEE** Every item bearing our trade-mark is guaranteed free from defects at time of shipment. In case of defect, adjustments will gladly be made, provided the material is returned to our factory and repairs have not been attempted by other than our own workmen.
- RETURN GOODS** Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a 10% handling charge.
- WEIGHTS** The weights given in this catalog are not guaranteed, but have been carefully determined and should be sufficient for general purposes.
- RATING** Orders from firms unknown to us and having no satisfactory commercial rating must be accompanied by cash or satisfactory references. C. O. D. shipments will be made if a 25% deposit is sent with order.
- SHIPPING INSTRUCTIONS** Customers should send specific shipping instructions. But if this is not done, we will use our own judgment in selecting route.
- EXPORT ORDERS** We are thoroughly familiar with the proper methods of handling orders and shipments to all parts of the world, and guarantee to do so to your satisfaction.



Frederick Perkins - President

Mr. Perkins has been manufacturing marine lamps since 1908. He was President of the National Marine Lamp Co. from 1912 to 1916 and founded the Perkins Marine Lamp Corp. in 1917. Under his able guidance and keen judgment this company has grown to its present highly respected position in the marine field.

REGULATIONS OF MOTOR BOATS

DEPT. OF COMMERCE
BUREAU OF MARINE INSPECTION
AND NAVIGATION

DEPT. CIRCULAR NO. 286
APRIL 27, 1940

TO: Supervising, Traveling and Local Inspectors, Navigation Inspectors, Collectors and Deputy Collectors of customs, U. S. Coast Guard and others concerned.

SUBJECT: New Motorboat Law and amendments to Inland, Great Lakes, and Western Rivers, rules for preventing collisions.

The following act (Public No. 484, 76th Congress) was approved on April 25, 1940:

"Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the word "motorboat" where used in this Act shall include every vessel propelled by machinery and not more than sixty-five feet in length except tugboats and towboats propelled by steam. The length shall be measured from end to end over the deck, excluding sheer: Provided, That the engine, boiler, or other operating machinery shall be subject to inspection by the local inspectors of steam vessels, and to their approval of the design thereof, on all said motorboats, which are more than forty feet in length, and which are propelled by machinery driven by steam.

Sec. 2. Motorboats subject to the provisions of this Act shall be divided into four classes as follows:

Class A. Less than sixteen feet in length.

Class 1. Sixteen feet or over and less than twenty-six feet in length.

Class 2. Twenty-six feet or over and less than forty feet in length.

Class 3. Forty feet or over and not more than sixty-five feet in length.

Sec. 3. Every motorboat in all weathers from sunset to sunrise shall carry and exhibit the following lights when under way, and during such time no other lights which may be mistaken for those prescribed shall be exhibited:

(a) Every motorboat of classes A and 1 shall carry the following lights:

First. A bright white light aft to show all around the horizon.

Second. A combined lantern in the fore part of the vessel and lower than the white light aft, showing green to starboard and red to port, so fixed as to throw the light from right ahead to two points abaft the beam on their respective sides.

(b) Every motorboat of classes 2 and 3 shall carry the following lights:

First: A bright white light in the fore part of the vessel as near the stem as practicable, so constructed as to show an unbroken light over an arc of the horizon of twenty points of the compass, so fixed as to throw the light ten points on each side of the vessel; namely, from right ahead to two points abaft the beam on either side.

Second. A bright white light aft to show all around the horizon and higher than the white light forward.

Third. On the starboard side a green light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the starboard side. On the port side a red light so constructed as to show an unbroken light over an arc of the horizon of ten points of the compass, so fixed as to throw the light from right ahead to two points abaft the beam on the port side. The said side lights shall be fitted with inboard screens of sufficient height so set as to prevent these lights from being seen across the bow.

(c) Motorboats of classes 2 and 3, when propelled by sail and machinery, or by sail alone, shall carry the colored side lights, suitably screened, but not the white lights prescribed by this section; Provided, however, That motorboats of all classes, when so propelled, shall carry, ready at hand, a lantern or flashlight showing a white light which shall be exhibited in sufficient time to avert collision; Provided further, That motorboats of classes A and 1, when so propelled, shall not be required to carry the combined lantern prescribed by subsection (a) of this section.

(d) Every white light prescribed by this section shall be of such character as to be visible at a distance of at least two miles. Every colored light prescribed by this section shall be of such character as to be visible at a distance of at least one mile. The word "visible" in this Act, when applied to lights, shall mean visible on a dark night with clear atmosphere.

Sec. 4. Every motorboat of class 1, 2, or 3, shall be provided with an efficient whistle or other sound-producing mechanical appliance.

Sec. 5. Every motorboat of class 2 or 3 shall be provided with an efficient bell.

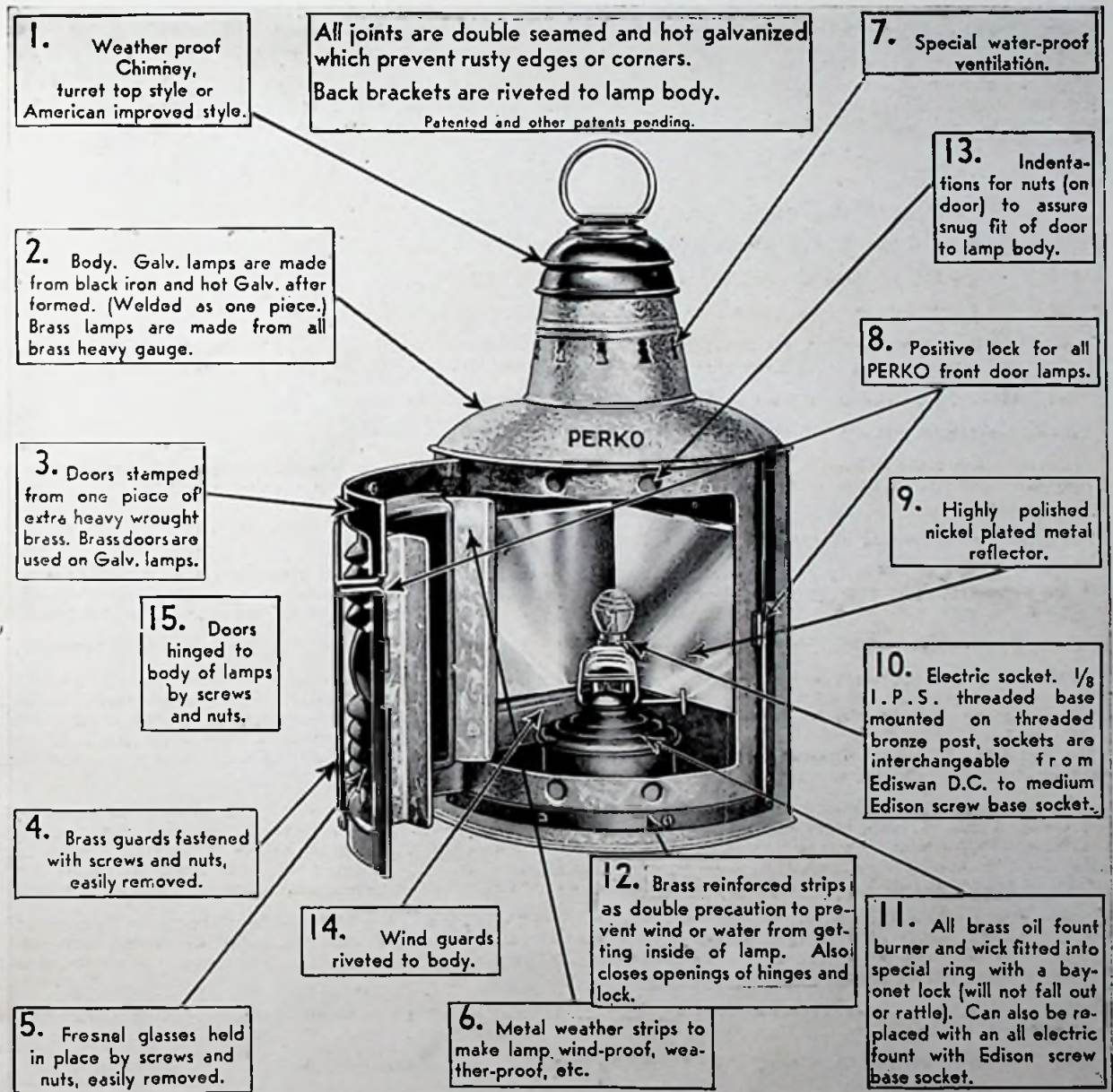
Sec. 11. Every such motorboat and every such vessel, except open boats, using as fuel any liquid of a volatile nature, shall be provided with such means as may be prescribed by regulations of the board of supervising inspectors with the approval of the Secretary of Commerce for properly and efficiently ventilating the bilges of the engine and fuel tank compartments so as to remove any explosive or inflammable gases; Provided, That this section shall apply only to such motorboats or vessels, the construction or decking over of which is commenced subsequent to the passage of this Act.

Sec. 12. Motorboats shall not be required to carry on board copies of the pilot rules.

Sec. 13. No person shall operate any motorboat or any vessel in a reckless or negligent manner so as to endanger the life, limb, or property of any person.



A Diagram That Shows a Few of the Many Reasons Why "Perko" De-Lite Lights Are the Most Practical and Desirable of All Marine Running Lights



"PERKO" DE-LITE LIGHTS ARE PATENTED AND OTHER PATENTS PENDING
NONE GENUINE WITHOUT THE "PERKO" TRADE MARK

"Perko" De-Lite Combination Lights

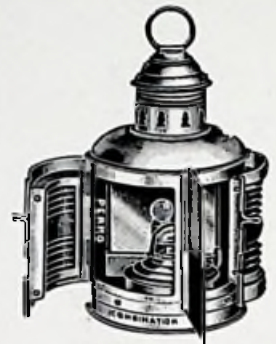
TURRET TOP
FOR CLASS ONE BOATS—16 FEET AND OVER AND LESS
THAN 26 FEET IN LENGTH
OIL AND ELECTRIC

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9 3/8 inches
Measurements of base, 5 inches x 5 1/2 inches
Size of lens, 3 7/8 inches x 3 3/8 inches
Weight, 3 pounds



(Closed)



(Opened)

Fig. 0-1

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$6.00	\$7.50	\$8.75

"Perko" De-Lite Combination Lights

FLAT TOP
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 6 1/2 inches
Measurements of base, 5 inches x 5 1/2 inches
Size of lens, 3 7/8 inches x 3 3/8 inches
Weight, 2 1/2 pounds



(Closed)



(Opened)

Fig. 0-10

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$6.00	\$7.50	\$8.75

Old Style Combination Lights

FOR CLASS 1 BOATS
WITH RED AND GREEN LENSES

Height less Ring, 9 inches.
Meas. of Base, 4 3/4 x 4 1/2 inches.
Size of Lenses, 3 7/8 x 3 3/8 inches.
Weight, 3 3/4 pounds.



Fig. 1

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$5.15	\$6.35
Oil and Electric	5.40	6.60

Old Style Combination Lights

FLAT TOP
FOR CLASS 1 BOATS
ELECTRIC ONLY—DOUBLE CONTACT SOCKET
WITH RED AND GREEN
LENSES

Height less Ring, 6 1/4 inches.
Meas. of Base, 4 3/4 x 4 1/2 inches.
Size of Lenses, 3 7/8 x 3 3/8 inches.
Weight, 2 pounds.

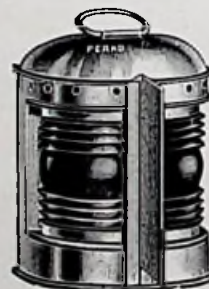


Fig. 3

Galvanized Each	Polished Brass Each
\$5.15	\$6.35

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH.

EXTRACT FROM NEW MOTORBOAT LAW IN EFFECT APRIL 25, 1940

(a) Every motorboat of class 1 shall carry the following lights:

First. A white light aft to show all around the horizon.

Second. A combined lantern in the fore part of the vessel and lower than the white light aft showing green to starboard and red to port, so fixed as to throw the light from right ahead to two points abaft the beam on their respective sides.

"Perko" De-Lite Stern and Anchor Lights

TURRET TOP—BOLTED GUARDS—FOR CLASSES 1, 2 AND 3 BOATS

All guards are made of heavy brass wire securely fastened to body by bolts, easily removed to replace broken lens.

JUNIOR

SENIOR



Fig. 0-2

Height
Less Ring
Inches
8 3/4

Diam.
Base
Inches
4 1/2



Fig. 735

Size of
Lens
Inches
3 7/8 x 3 7/8

Weight
Each
Pounds
2



Fig. 0-6

Height
Less Ring
Inches
11 3/4

Diam.
Base
Inches
5 3/8

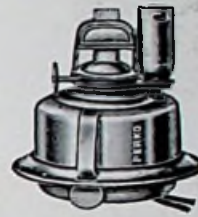


Fig. 736

Size of
Lens
Inches
4 1/4 x 4

Weight
Each
Pounds
3

CLEAR LENS

OIL OR ELECTRIC ONLY

Galv. Each \$3.85	Polished Brass Each \$5.25	Polished Copper Each \$9.25	Chromium Plated Each \$6.35
-------------------------	-------------------------------------	--------------------------------------	--------------------------------------

OIL AND ELECTRIC COMBINED

Galv. Each \$4.15	Polished Brass Each \$5.50	Polished Copper Each \$9.50	Chromium Plated Each \$6.60
-------------------------	-------------------------------------	--------------------------------------	--------------------------------------

With Red, Green, or Blue Lens add \$1.00 each.

CLEAR LENS

OIL OR ELECTRIC ONLY

Galv. Each \$4.95	Polished Brass Each \$7.15	Polished Copper Each \$10.75	Chromium Plated Each \$8.60
-------------------------	-------------------------------------	---------------------------------------	--------------------------------------

OIL AND ELECTRIC COMBINED

Galv. Each \$5.25	Polished Brass Each \$7.50	Polished Copper Each \$11.00	Chromium Plated Each \$8.80
-------------------------	-------------------------------------	---------------------------------------	--------------------------------------

With Red, Green, or Blue Lens add \$1.50 each.
With Hinged Bottom add \$.25 each.

"Perko" De-Lite Stern and Anchor Lights

FLAT TOP—BOLTED GUARDS—FOR CLASSES 1, 2 AND 3 BOATS
ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

JUNIOR

SENIOR



Fig. 11

Height
Less Ring
Inches
6

Diam.
Base
Inches
4 1/2

Size of
Lens
Inches
3 7/8 x 3 7/8

Weight
Each
Pounds
1 1/2

Galv. Each \$3.60	Polished Brass Each \$5.00	Polished Copper Each \$9.00	Chromium Plated Each \$6.00
-------------------------	-------------------------------------	--------------------------------------	--------------------------------------

With Red, Green, or Blue Lens add \$1.00 each.



Fig. 12

Height
Less Ring
Inches
9

Diam.
Base
Inches
5 3/8

Size of
Lens
Inches
4 1/4 x 4

Weight
Each
Pounds
2 1/2

Galv. Each \$4.70	Polished Brass Each \$7.00	Polished Copper Each \$10.50	Chromium Plated Each \$8.25
-------------------------	-------------------------------------	---------------------------------------	--------------------------------------

With Red, Green, or Blue Lens add \$1.50 each.
With Hinged Bottom add \$.25 each.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH



“Perko” De-Lite Side Lights
TURRET TOP

FOR CLASS 2 BOATS—26 FEET OR OVER AND LESS THAN 40 FEET IN LENGTH
OIL AND ELECTRIC

Furnished in pairs—one green light for Starboard and one red light for Port



(Closed)

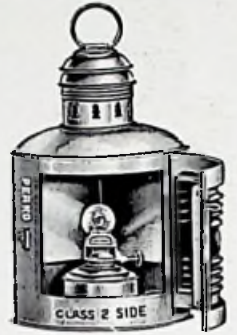
Height, less ring, 10½ inches
Measurements of base, 5¼ inches x 5¼ inches
Size of lens, 4¼ inches x 4¾ inches
Weight, per pair, 6¼ pounds

Fig. 0-4

Galvanized
Per Pair
\$9.40

Polished
Brass
Per Pair
\$12.00

Chromium
Plated
Per Pair
\$14.50



(Opened)

“Perko” De-Lite Bow Lights
TURRET TOP

CLASS 2—OIL AND ELECTRIC

Height, less ring, 10½ inches
Size of lens, 4⅞ inches x 6⅜ inches
Measurements of base, 5 inches x 5½ inches
Weight, each, 3 pounds

Fig. 0-5

With clear lens
With colored lens

Galvanized
Each
\$4.70
5.70

Polished
Brass
Each
\$6.00
7.00

Chromium
Plated
Each
\$7.25
8.25



(Closed)



(Opened)

“Perko” De-Lite Side Lights
FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

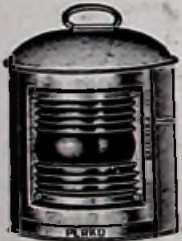
Height, less ring, 7¼ inches
Measurements of base, 5½ inches x 5½ inches
Size of lens, 4¼ inches x 4¾ inches
Weight, per pair, 5½ pounds

Fig. 0-40

Galvanized
Per Pair
\$9.40

Polished
Brass
Per Pair
\$12.00

Chromium
Plated
Per Pair
\$14.50



(Closed)



(Opened)

“Perko” De-Lite Bow Lights
FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7⅞ inches
Measurements of base, 5 inches x 5½ inches
Size of lens, 4⅞ inches x 6⅜ inches
Weight, each, 2¾ pounds

Fig. 0-50

With clear lens
With colored lens

Galvanized
Each
\$4.70
5.70

Polished
Brass
Each
\$6.00
7.00

Chromium
Plated
Each
\$7.25
8.25



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH

Every motorboat of class 2 shall carry the following lights:

- First. A bright white light in the fore part of the vessel as near the stem as practicable, so constructed as to throw the light ten points on each side of the vessel.
- Second. A white light aft to show all around the horizon and higher than the white light forward.
- Third. On the starboard side a green light and on the port side a red light, both to throw a light from right ahead to two points abaft the beam.

"Perko" De-Lite Side Lights

TURRET TOP

FOR CLASS 3 BOATS—40 FEET OR OVER AND NOT MORE THAN 65 FEET IN LENGTH

OIL AND ELECTRIC



(Closed)

Size of lens, $5\frac{1}{8}$ inches x $5\frac{1}{8}$ inches
 Height, less rings, $12\frac{1}{4}$ inches
 Measurements of base, $5\frac{1}{2}$ inches x $5\frac{1}{2}$ inches
 Weight, per pair, 8 pounds

Fig. 0-8

Galvanized Iron Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$11.60	\$16.20	\$19.00



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP

CLASS 3—OIL AND ELECTRIC

Size of lens, $5\frac{1}{8}$ inches x $7\frac{1}{8}$ inches
 Height, less ring, $12\frac{1}{4}$ inches
 Measurements of base, $5\frac{1}{2}$ inches x $6\frac{1}{2}$ inches
 Weight, each, 4 pounds

Fig. 0-9

	Galvanized Iron Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$5.80	\$8.10	\$ 9.50
With colored lens	6.80	9.10	10.50



(Closed)



(Opened)

"Perko" De-Lite Side Lights

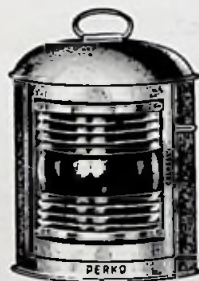
FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Size of lens, $5\frac{1}{8}$ inches x $5\frac{1}{8}$ inches
 Height, less ring, $8\frac{1}{2}$ inches
 Measurements of base, $5\frac{1}{2}$ inches x $5\frac{1}{2}$ inches
 Weight, per pair, 7 pounds

Fig. 0-80

Galvanized Iron Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$11.60	\$16.20	\$19.00



(Closed)



(Opened)

"Perko" De-Lite Bow Lights

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Size of lens, $5\frac{1}{8}$ inches x $7\frac{1}{8}$ inches
 Height, less ring, $8\frac{1}{2}$ inches
 Measurements of base, $5\frac{1}{2}$ inches x $6\frac{1}{2}$ inches
 Weight, each, 4 pounds

Fig. 0-90

	Galvanized Iron Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$5.80	\$8.10	\$ 9.50
With colored lens	6.80	9.10	10.50



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH

Every motorboat of class 3 shall carry the following lights:

First. A bright white light in the fore part of the vessel as near the stem as practicable, so constructed as to throw the light ten points on each side of the vessel.

Second. A white light aft to show all around the horizon and higher than the white light forward.

Third. On the starboard side a green light and on the port side a red light, both to throw a light from right ahead to two points abaft the beam.



Old Style Class 2 Side Lights

BOTTOM OPENING—SPRING FOUNT
FOR BOATS 26 TO 39 FEET LONG INCLUSIVE



Fig. 17

Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{8}$ inches

Extreme Height, $10\frac{1}{2}$ inches

Size of Base, $4\frac{3}{4} \times 5\frac{1}{2}$ inches

Weight, per pair, $5\frac{1}{2}$ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. Only	\$7.70	\$10.50
Oil and Electric	8.25	11.00

Old Style Class 2 Bow Lights

BOTTOM OPENING—SPRING FOUNT
FOR BOATS 26 TO 39 FEET LONG INCLUSIVE



Fig. 18

Size of Lens, $4\frac{1}{8} \times 6\frac{3}{8}$ inches
Extreme Height, $10\frac{1}{2}$ inches
Size of Base $4\frac{1}{2} \times 5$ inches
Weight, each, 3 lbs.

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$3.85	\$5.25
Oil and Electric	4.15	5.50

With Red, Green, or Blue Lens
Add \$1.00 Each

Old Style Class 3 Side Lights

BOTTOM OPENING—SPRING FOUNT
FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Fig. 19

Size of Lenses, $5\frac{3}{8} \times 5\frac{1}{4}$ inches

Extreme Height, $12\frac{1}{2}$ inches

Size of Base, $5 \times 6\frac{1}{4}$ inches

Weight, per pair, $7\frac{1}{2}$ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. Only	\$ 9.90	\$14.50
Oil and Electric	10.50	15.00

Old Style Class 3 Bow Lights

BOTTOM OPENING—SPRING FOUNT
FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Fig. 20

Size of Lens, $5\frac{3}{8} \times 7\frac{1}{8}$ inches
Extreme Height, $12\frac{1}{2}$ inches
Size of Base, $5\frac{1}{2} \times 6\frac{1}{4}$ inches
Weight, each, $3\frac{1}{2}$ lbs.

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$4.95	\$7.25
Oil and Electric	5.25	7.50

With Red, Green, or Blue Lens
Add \$1.50 Each

Old Style Flat Top Side Lights

CLASS 2 AND 3

BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

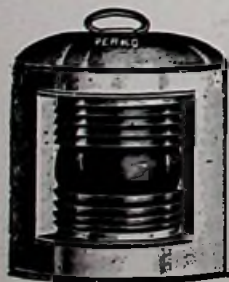


Fig. 4

CLASS 2

Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{8}$ in.
Extreme Height, $7\frac{1}{4}$ in.
Size of Base, $4\frac{3}{4} \times 5\frac{1}{2}$ in.
Weight, per pair, $5\frac{1}{2}$ lbs.

CLASS 3

Size of Lenses, $5\frac{3}{8} \times 5\frac{1}{4}$ in.
Extreme Height, $8\frac{1}{2}$ in.
Size of Base, $5 \times 6\frac{1}{4}$ in.
Weight, per pair, $7\frac{1}{2}$ lbs.

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
2	\$7.20	\$ 9.90	\$12.70
3	9.90	14.50	17.60

Old Style Flat Top Bow Lights

CLASS 2 AND 3

BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET



Fig. 5

CLASS 2

Size of Lens, $4\frac{1}{8} \times 6\frac{3}{8}$ inches
Extreme Height, $7\frac{1}{4}$ inches
Size of Base, $4\frac{1}{2} \times 5$ inches
Weight, each, 3 lbs.

CLASS 3

Size of Lens, $5\frac{3}{8} \times 7\frac{1}{8}$ inches
Extreme Height, $8\frac{1}{2}$ inches
Size of Base, $5\frac{1}{2} \times 6\frac{1}{4}$ inches
Weight, each, $3\frac{1}{4}$ lbs.

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$3.60	\$4.95	\$6.35
3	4.95	7.25	8.80

Class 2 with Red, Green, or Blue lens add \$1.00 each.
Class 3 with Red, Green, or Blue lens add \$1.50 each.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH
ALL LIGHTS ON THIS PAGE WITH HINGED BOTTOMS ADD \$.25 EACH

10 Day Anchor Lights

OIL BURNING—IMPROVED



Fig. 596



Fig. 596-A

Guaranteed to burn at least ten days when a good grade of kerosene oil is used. Fount is the swivel type with heavy handle on bottom for turning, folds flush with bottom. Heavy brass hinge hasp prevents fount from turning or falling from the light, solid brass founts are furnished with both the galvanized and brass lights.

Extreme Height Inches	Diameter Fount Inches	Size of Lens Inches	Weight Lbs.
14	7	4 1/4 x 4	4
CLEAR LENS			
		Galvanized Each	Polished Brass Each
Fig. 596, Lamp Complete		\$12.65	\$14.85
Fig. 596A, Fount Complete		7.70	7.70
Lamp Only Without Fount		7.70	8.80

With Red, Green, or Blue Lens add \$1.50 each.

For Burners and Chimneys only, see Figs. 245 and 272.

30 Day Anchor Light

ELECTRIC—DRY BATTERIES
POLISHED COPPER



Fig. 13

Uses four ordinary 1 1/2 volt dry cell batteries, enclosed in a water and air tight container sealed with a gasket and bolts.

A guaranteed 1,000 hour heavy duty bulb is furnished as regular equipment, including a watertight toggle switch.

Made of heavy gauge material and is guaranteed to stay lit for 25 to 30 consecutive days without attention.

No.	Extreme Height Inches	Diameter Base Inches	Size of Lens Inches	Weight Pounds
1	16 1/2	6 1/2	4 1/4 x 4	5 1/2
2	18	6 1/2	5 1/8 x 5 1/4	8 1/2
CLEAR LENS				
		Without Batteries Each	With Batteries Each	Bulbs Only Each
1		\$16.50	\$20.50	\$.50
2		28.60	32.60	.50

No. 1 with Red, Green, or Blue lens add \$1.50 each.
No. 2 with Red, Green, or Blue lens add \$2.50 each.

For galvanized anchor light see Fig. 470.

New Meal and Absent Light

CAST BRONZE—WATERTIGHT



Fig. 330

Answering the yachtsman's prayers for a small watertight meal and absent light with medium screw electric sockets for mounting on the average small vardarm.

One solid bronze casting with a curved mounting base and two fresnel ball globes, one blue, the other clear. Can also furnish with red or green globes if desired. 2 1/2 inch diameter globes are furnished unless 3 inch are specified.

For bulbs to fit, see Fig. 8.

Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Weight Pounds
\$6.50	\$7.75	8 3/4	3 1/4 x 1 3/4	2 1/4

30 Day Anchor Light

ELECTRIC—DRY BATTERY
GALVANIZED AND POLISHED COPPER

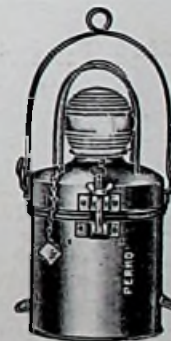


Fig. 35

Uses one Burgess Tri-six 4 1/2 volt battery and a heavy duty 1,000 hour bulb giving over 750 consecutive hours of light.

Top fastened to base by hinged bronze bolts and wing nuts, no screws to remove. Equipped with watertight toggle switch and fresnel ball globe.

Galv. Each	Pol. Copper Each	Bulb Only Each	Battery Only Each	Ex-treme Height Inches	Ex-treme Diam. Inches	Diam. Globe Inches	Wt. Lbs.
\$12.00	\$15.50	\$.50	\$1.65	11	5 3/4	3	3

Price does not include batteries. With Red, Green or Blue globe add \$.50 each.



Royal Combination Lights HEAVY GALVANIZED IRON AND BRASS ELECTRIC ONLY

FOR CLASSES A AND 1 BOATS

Made of heavy gauge material, flat back and double contact electric socket. Can be stored in very small space.



Fig. 89

Height Inches	Width Inches	Size Lens Inches	Weight Lbs. Each
3 3/4	4 1/4	3 3/8 x 3 3/8	1 1/4
Galvanized Each		Polished Brass Each	Chromium Plated Each
\$3.90		\$4.50	\$5.50

Battery Running Lights WITH FRONT DOORS GALVANIZED AND BRASS

These are self contained marine running lights using the regular easily obtained lantern battery such as Eveready No. 409 or Ray-O-Vac No. 941 or Burgess No. F-4-H.

The bulbs are heavy duty radio panel bulbs guaranteed for 300 to 1000 hour life and easily obtained in most radio supply stores.

With these lights aboard, all wiring or draining of storage battery is eliminated. None of the usual bother with oil lights, etc.

The construction and appearance is the same as standard flat top marine lights, with a waterproof hinged door on the front for quick changing of bulb or battery. No screws to remove, just open the door and make the change.

Furnished with brass nickel plated reflector, toggle switch with watertight cover and bulb, batteries extra.

Royal Side Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.



Fig. 91

Height Inches	Size Lens Inches	Weight per Pair Lbs.
Class 1 4	3 3/8 x 3 3/8	1 1/2
Class 2 5	4 1/4 x 4 7/8	2
Class 3 6	5 3/8 x 5 3/8	3
Class 1	Galv. Per Pair	Pol. Brass Per Pair
Class 2	\$5.00	\$7.20
Class 3	5.25	7.50
	6.60	8.80
		Chrom. Plated Per Pair
		\$ 9.40
		9.70
		11.00

Side Lights

FOR CLASS 2 AND 3 BOATS



Fig. 998

Royal Bow Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.



Fig. 92

Height Inches	Size Lens Inches	Weight Each Lbs.
Class 1 4	3 3/8 x 5 3/8	1
Class 2 5	4 3/8 x 6 3/8	1 1/2
Class 3 6	5 3/8 x 7 1/8	2
Class 1	Galv. Each	Pol. Brass Each
Class 2	\$2.50	\$3.60
Class 3	2.65	3.75
	3.30	4.40
		Chrom. Plated Each
		\$4.70
		4.85
		5.50

Class	Height Inches	Size Base Inches	Size Lens Inches	Weight Per Pair With Batteries Pounds
2	7 1/4	5 1/8 x 5 1/8	4 1/4 x 4 7/8	8
3	8 1/2	5 3/8 x 5 3/8	5 3/8 x 5 3/8	10
Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Bulbs Only Each
2	\$11.50	\$14.50	\$17.60	\$.50
3	13.80	18.20	21.50	.50
				Batteries Only Each
				\$.90
				.90

Bow Lights

FOR CLASS 2 AND 3 BOATS



Fig. 999

Royal Stern Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS



Fig. 90

Height Inches	Size Lens Inches	Weight Each Lbs.
Class 1 4 1/2	3 3/8 x 3 3/8	1 1/4
Class 2 or 3 5 1/2	4 1/4 x 4	2
Class 1	Galv. Each	Pol. Brass Each
Class 2 or 3	\$2.75	\$3.85
	3.85	5.00
		Chrom. Plated Each
		\$5.00
		6.00

Class	Height Inches	Size Base Inches	Size Lens Inches	Weight Each With Battery Pounds
2	7 1/4	5 x 5 1/2	4 5/16 x 6 3/8	4
3	8 1/2	5 1/2 x 6 1/8	5 3/16 x 7 1/8	5
Class	Galvanized Each	Polished Brass Each	Chromium Plated Each	Bulbs Only Each
2	\$5.75	\$7.25	\$8.80	\$.50
3	6.90	9.10	10.75	.50
				Batteries Only Each
				\$.90
				.90

NEW IMPROVED BATTERY LIGHTS

WITH IMPROVED TOGGLE SWITCH

To meet the demand for self-contained marine running lights to eliminate the necessity of operation of the regular storage battery, especially in the case of non-auxiliary sail boats where the carrying of a heavy storage battery is not desired or practical.

The interior of the light is arranged to receive two ordinary flashlight type dry cells, no wiring or fuss of any kind necessary.

A sliding door on the back permits easy access to the interior for battery or bulb replacement.

Combination Lights

WITH BACK BRACKET



Fig. 1010



Back view with Door removed

	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches	Width Inches	Size Lens Inches
	\$5.80	\$6.60	\$7.70	4 1/8	4 1/2	3 1/16 x 3 3/8

Combination Lights

WITH DECK BRACKET



Fig. 15

	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches
	\$6.50	\$7.25	\$8.25	5 1/2

Side Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1011



Back view with Door removed

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Height Inches	Size Lens Inches
1	\$10.00	\$11.50	\$13.75	4	3 1/16 x 3 3/8
2	10.50	12.00	14.25	5	4 1/4 x 4 3/8

Stern Lights



Fig. 76

Class	Polished Brass Each	Chromium Plated Each	Height Inches	Size Lens Inches	Weight Lbs.
1	\$5.50	\$7.00	6	3 1/16 x 3 1/16	2
2	7.25	8.75	6 3/4	4 1/4 x 4	2 3/4

Sail Boat Side Lights

SPECIAL SMALL SIZE
FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG

Made for the numerous Class 1 sail boats in use on which side lights of a small size to burn oil are desired.

Size of Lens Inches	Extreme Height Inches	Diam. of Base Inches	Weight Per Pair Pounds
3 1/16 x 3 3/8	9	4 1/4	4



Fig. 845

Bow Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1012



Back view with Door removed

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches	Size Lens Inches
1	\$5.00	\$5.75	\$6.90	4	3 1/16 x 5 3/8
2	5.25	6.00	7.15	5	4 1/16 x 6 3/8

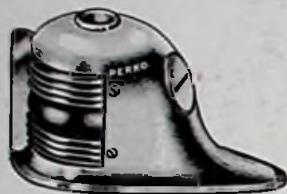
	Galvanized Per Pair	Pol. Brass Per Pair
Oil Only	\$6.60	\$9.40
Oil and Electric	7.70	10.50
Electric Only—Flat Top	5.50	8.25

All above prices do not include batteries—batteries used are the regular flashlight type, available at all hardware stores.

COMBINATION LIGHTS—ELECTRIC

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

New Streamline Pattern WITH REBULBING FEATURE HEAVY GAUGE STAMPED BRASS



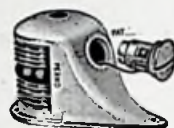
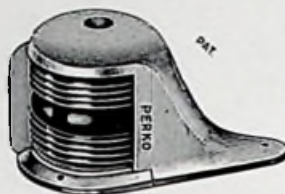
Rear view showing method of changing bulb

Fig. 1140

A new addition to our leading line of marine lights, high quality, low price. Furnished complete with red and green fresnel lenses and double contact socket.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
3 1/4	3 3/4 x 6 1/4	2 1/8 x 3	3/4	1
Polished Brass Each	Chromium Plated Each	Rebulbing Feature Only Each		
\$3.60	\$4.25	\$1.00		

Streamline Pattern WITH REBULBING FEATURE CAST BRONZE



Rear view showing method of changing bulb

Fig. 512

It is not necessary to remove lamp from deck to change the bulb. Our rebulbing feature, as illustrated, makes it easy, as a few turns of a coin or screw driver inserted in slot removes plug to which electric socket is attached. Socket is set in swivel holder, wires will not twist while unscrewing. Plug is flush with back of lamp when closed.

Complete with red and green fresnel lenses and double contact electric socket.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
3 1/2	3 3/8 x 5 1/4	2 1/8 x 3	3/4	1 1/4
Polished Bronze Each	Chromium Plated Each	Rebulbing Feature Only Each		
\$6.60	\$7.70	\$1.00		

Without Rebulbing Feature Fig. 536

6.00 7.20

Wrought Brass Type FOR PERMANENT MOUNTING



Fig. 485

Complete with red and green fresnel lenses and double contact electric socket.

Height Overall Inches	Diam. Body Inches	Diam. Base Inches	Size Lens Inches	Weight Lbs.
4 1/2	2 1/2	2 1/2	2 1/8 x 3	3/4
Polished Brass Each	Chromium Plated Each			
\$3.00	\$3.60			

FOR TEMPORARY MOUNTING WITH REMOVABLE BRACKET



Fig. 486

Quickly removed from deck without necessity of removing screws from deck. Complete with red and green fresnel lenses and double contact electric socket.

Height Inches	Diam. Inches	Lens Inches	Weight Lbs.
4	2 1/2	2 1/8 x 3	1
Polished Brass Each	Chromium Plated Each		
\$3.30	\$3.85		

Streamline Pattern WITH CLEAT AND REBULBING FEATURE CAST BRONZE



Rear view showing method of changing bulb

Fig. 535

Same as Fig. 512, except for cleat on back to which electric socket is attached. Can be used as a bitt, as rope cannot slip over top of lamp.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Length Cleat Inches	Wt. Lbs.
3 1/2	3 3/8 x 5 1/4	2 1/8 x 3	3/4	2 1/2	2
Polished Bronze Each	Chromium Plated Each	Rebulbing Feature Only Each			
\$6.60	\$7.70	\$1.25			

COMBINATION LIGHTS—ELECTRIC

Streamline Pattern

WITH REBULBING FEATURE
FOR RUNABOUTS 16 TO 25 FEET LONG
CAST BRONZE

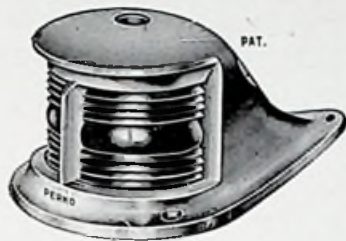


Fig. 598



Rear view showing method of changing bulb

Contains our famous rebulbing feature, as illustrated on Fig. 512. Complete with red and green lenses and double contact electric socket.

No.	Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
1	3 3/4	4 7/8 x 8	2 1/16 x 3	3/4	2 1/2
2	4 3/8	5 1/2 x 8 3/4	3 3/16 x 3 5/8	1	4 3/4

No.	Polished Bronze Each	Chromium Plated Each
1	\$ 7.70	\$ 8.80
2	11.00	12.50

Streamline Pattern

WITHOUT REBULBING FEATURE
FOR RUNABOUTS 16 TO 20 FEET LONG
CAST BRONZE



Fig. 606

Same style and size as Fig. 598, No. 1, except that bulb is changed by removing lamp from the deck.

Polished Bronze Each	Chromium Plated Each
\$7.20	\$8.25

New "Sport Kit" Lights

FLASHLIGHT BATTERY TYPE
ALL BRASS—NICKEL PLATED

New Streamline Pattern

WITH REBULBING FEATURE
HEAVY GAUGE STAMPED BRASS
FOR RUNABOUTS AND CRUISERS
UP TO 25 FEET LONG

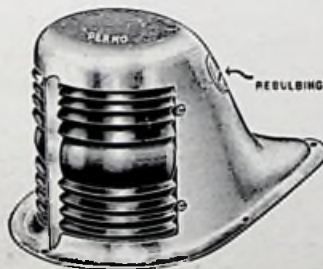


Fig. 1141

Contains our regular watertight rebulbing feature as illustrated with Fig. 598.

Furnished with red and green fresnel lenses and double contact electric socket. With or without flag pole socket in top.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
5 1/8	5 5/8 x 9 1/2	4 1/4 x 3 1/4	1	2

Polished Brass Each	Chromium Plated Each
\$6.25	\$7.25

With Flag Pole Socket add \$.50 each.



Fig. 1142



Fig. 1143

Designed for small craft such as rowboats, canoes, dinghys, etc., when an outboard motor is attached. Lights are required by law in such cases.

Two regular flashlight batteries are used in each light.

Clamps are cast bronze, and can be quickly detached or attached to vertical or horizontal mountings up to 1 3/8 inches thick.

The combination bow light head is full size and same as our Fig. 485.

The stern light has clear fresnel ball globe and two piece stem. Height can be reduced by removing one piece.

Height Overall Inches	Height Overall Inches	Diam. Stem Inches	Size Lens Inches	Size Globe Inches	Weight Each Pounds
Fig. 1142 13 3/4	Fig. 1143 20	1/8	Fig. 1142 2 1/8 x 3	Fig. 1143 1 3/8	1

Fig. 1142 Each	Fig. 1143 Each	Extra Bulbs Each
\$4.75	\$3.50	\$.15

Price includes one bulb in each light, no batteries.



Streamline Side Lights

FOR CLASSES 1, 2 AND 3 BOATS
CAST BRONZE



Fig. 563

With our popular rebulbing feature which makes it unnecessary to remove light from the boat to change bulb.

Furnished in pairs, with red and green fresnel lenses and double contact electric sockets.

No.	Class	Height Inches	Length Inches	Size Lens Inches	Weight Per Pair Lbs.
1	1	4 ¹ / ₁₆	6	3 ¹ / ₁₆ x 3 ³ / ₈	3
2	2	5 ¹ / ₈	7 ¹ / ₂	4 ¹ / ₄ x 4 ⁷ / ₈	5
2-A	2	4 ³ / ₄	10 ¹ / ₈	4 ¹ / ₄ x 4 ⁷ / ₈	5 ¹ / ₂
3	3	6	9 ¹ / ₄	5 ³ / ₁₆ x 5 ⁹ / ₁₆	7

No.	Class	Polished Bronze Per Pair	Chromium Plated Per Pair
1	1	\$12.00	\$14.50
2	2	14.50	16.50
2-A	2	14.90	17.00
3	3	20.00	22.50

Note: No. 2-A is a new pattern class 2 light of greater length than No. 2. No. 2 will be furnished unless otherwise specified.

New Streamline Side Lights

With Rebulbing Feature

HEAVY GAUGE STAMPED BRASS

CLASS 2—ELECTRIC



Fig. 1138

A new addition to our popular line of marine lights. Design is gracefully streamlined and quality is up to our usual high standard.

Contains our patented swivel type waterproof rebulbing feature, no screws to remove.

Furnished in pairs, with red and green fresnel lenses, and double contact electric sockets.

Extreme Height Inches	Extreme Length Inches	Size Lens Inches	Weight Per Pair Pounds
6 ³ / ₁₆	9 ⁵ / ₈	4 ¹ / ₄ x 4 ⁷ / ₈	3 ¹ / ₄

Polished Brass Per Pair	Chromium Plated Per Pair
\$10.25	\$12.50

Streamline Bow Lights

WITH REBULBING FEATURE
FOR CLASSES 1, 2 AND 3 BOATS
CAST BRONZE

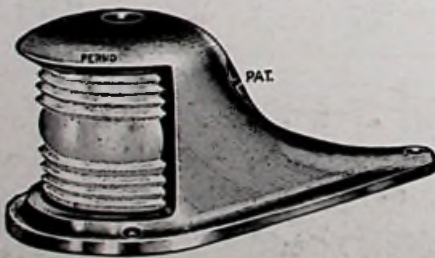


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Base Inches	Lens Inches	Weight Pounds	Flagpole Socket Inches
1	4 ³ / ₈	5 x 8 ¹ / ₂	3 ¹ / ₁₆ x 5 ³ / ₈	3 ¹ / ₂	⁷ / ₈
2	5	5 ³ / ₈ x 9 ¹ / ₈	4 ¹ / ₁₆ x 6 ³ / ₈	6	1
3	6 ³ / ₈	6 ⁵ / ₈ x 13	5 ¹ / ₁₆ x 7 ¹ / ₈	8 ³ / ₄	1

Class	Polished Bronze Each	Chromium Plated Each
1	\$11.00	\$13.50
2	13.25	16.00
3	19.00	22.00

New Streamline Bow Lights

WITH REBULBING FEATURE
HEAVY GAUGE STAMPED BRASS

CLASS 2—ELECTRIC

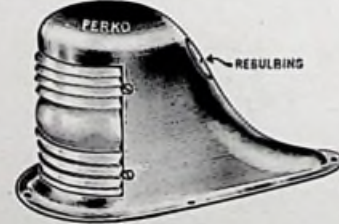


Fig. 1139

A very attractive running mate for Fig. 1138 above. Containing our swivel type waterproof rebulbing feature, no screws to remove.

Furnished with clear fresnel lens and double contact electric socket.

A flag pole socket in top if required.

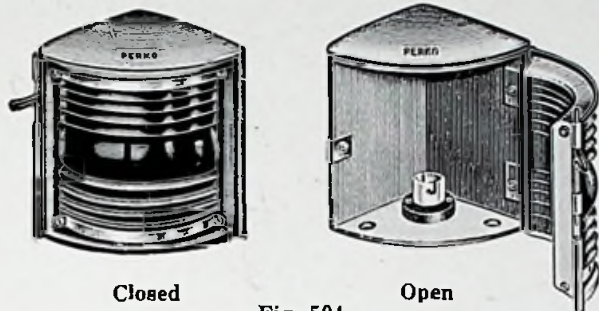
Height Inches	Base Inches	Lens Inches	Flagpole Socket Weight Inches Pounds
5 ¹ / ₈	5 ³ / ₈ x 9 ¹ / ₂	4 ³ / ₁₆ x 6 ³ / ₈	1 2

Polished Brass Each	Chromium Plated Each
\$6.00	\$7.25

With Flag Pole Socket add \$.50 each.

Furnished without Flag Pole Socket unless otherwise specified.

De-Lite Side Lights WITH FRONT DOORS FOR CLASSES 2 AND 3 BOATS CAST BRONZE



Closed

Fig. 504

Open

A quick change of bulb or lens is assured. Lenses are fastened in doors by brass straps and machine screws, doors have positive latch which cannot work loose due to vibration or wind.

Furnished in pairs, with red and green fresnel lenses and double contact or standard screw sockets.

Class	Height Inches	Angle Inches	Lens Inches	Weight Per Pair Lbs.
2	5 1/2	3 3/4 x 3 3/4	4 1/4 x 4 7/8	6 1/2
3	6	4 x 4	5 3/16 x 5 5/16	8
		Polished Bronze Per Pair		Chromium Plated Per Pair
2		\$12.00		\$14.50
3		15.50		18.25

With standard screw sockets—add \$.50 per pair

Double contact sockets furnished unless otherwise specified

With clear lens, Class 2 and 3, add \$1.00 per pair

De-Lite Bow Lights WITH FRONT DOORS FOR CLASSES 2 AND 3 BOATS CAST BRONZE



Fig. 505

Same construction as Fig. 504 above. Furnished with clear fresnel lens and double contact or standard screw socket.

Class	Height Inches	Width Inches	Lens Inches	Weight Lbs.
2	5 1/2	5 1/2	4 5/16 x 6 3/8	3 1/4
3	6 1/2	6	5 3/16 x 7 1/8	4 1/4
		Polished Bronze Each		Chromium Plated Each
2		\$6.00		\$7.25
3		7.75		9.25

With standard screw sockets—add \$.25 each

Double contact sockets furnished unless otherwise specified

With Red or Green Lens, Class 2 and 3, add \$.50 Each

New Spreader Light ALL BRASS—CHROMIUM PLATED



Fig. 1144

For illumination of sails when under-way at night. Also ideal as a flood light for illuminating decks, anchorages or docks.

Has waterproof searchlight type body with flood light reflector and brass channel type bracket for mounting on spreader.

Each	Diam. Inches	Length Inches	Bracket Inches	Weight Pounds
\$5.50	5 1/4	5	4 1/4 x 1	1 1/4

Price does not include bulb.

Combination Light and Bitt CAST BRONZE—ELECTRIC FOR CLASS 1 BOATS—18 TO 25 FEET LONG



Fig. 502

One piece casting with removable top for rebulbing. Flag pole socket in top, furnished with red and green fresnel lenses and double contact socket.

Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Lbs.
4 7/8	6 1/2	3 5/8 x 3 3/8	1 1/4	5 1/2
		Polished Bronze Each		Chromium Plated Each
		\$12.00		\$14.50

Bow Light and Bitt CAST BRONZE—ELECTRIC FOR CLASS 2 BOATS—26 TO 39 FEET LONG



Fig. 503

Same construction as Fig. 502 above. Equipped with clear fresnel lens and double contact socket.

Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Pounds
6 1/2	7 1/4	4 1/8 x 6 3/8	1 1/4	8
		Polished Bronze Each		Chromium Plated Each
		\$12.00		\$14.50



Improved Pole Light Assembly

2½ OR 3 INCH GLOBE
 COMPLETE WITH FLAG POLE SOCKET AND
 ELECTRIC CONNECTIONS IN POLE AND SOCKET
 HOLLOW MAHOGANY POLE
 FOUR COATS VARNISH—HAND RUBBED



Fig. 531

Insert pole in socket and electric connection is complete. No wires exposed, no springs to corrode. A real positive hook-up, unaffected by water or corrosion.

Pole may remain in socket at all times, no switch necessary. Female part of connector in base of pole has four holes, two for on position, two for off position. Male part of connector in flag pole socket has two prongs (no springs). To light, loosen thumb screw, lift pole, give half turn and reset. To disconnect, reverse operation.

Length Overall Inches	Polished Brass Each	Chromium Plated Each	Diam. Base of Pole Inches
20	\$ 6.50	\$ 7.50	1¼
24	6.50	7.50	1¼
30	6.75	7.75	1¼
36	7.00	8.00	1¼
42	7.50	8.50	1¼
48	8.00	9.00	1¼
60	9.00	10.00	1¼
72	10.75	11.75	1¼

New Pole Light Assembly

2½ OR 3 INCH GLOBE
 WITH STREAMLINE FLAG POLE SOCKET
 ELECTRIC CONNECTIONS IN POLE AND SOCKET
 HOLLOW MAHOGANY POLE
 FOUR COATS VARNISH—HAND RUBBED



Fig. 919

Insert pole in socket and electric connection is complete. No wires exposed, no springs to corrode. A real positive hook-up, unaffected by water or corrosion.

Pole may remain in socket at all times, no switch necessary.

A half turn of the pole will connect or disconnect.

Diameter base of pole 1¼ inches.

Length Overall Inches	Polished Brass Each	Chromium Plated Each
20	\$ 6.75	\$ 7.75
24	6.75	7.75
30	7.00	8.00
36	7.25	8.25
42	7.75	8.75
48	8.25	9.25
60	9.25	10.25
72	11.00	12.00

Above pole lights complete except socket—deduct \$1.00 each.

Colored globes (red, green or blue) desired on any of the above pole lights, add \$.50 to above prices.

2½ inch globe furnished unless otherwise specified.

New Junior Pole Light Assembly

1½ INCH FRESNEL BALL GLOBE
COMPLETE WITH SOCKET AND ELECTRIC
CONNECTIONS IN POLE AND SOCKET
MAHOGANY POLE—CAST BRONZE SOCKET



Fig. 1145

Wired through hollow center of pole. Globe will take a 6 C. P. bulb, double contact.
Base of pole is 1 inch.

This type is ideal for outboard motor boats and small runabouts.

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Weight Pounds
20	\$5.75	\$6.75	1
24	6.00	7.00	1 1/8
30	6.25	7.25	1 1/4

Complete except socket—deduct \$.75 each.

Junior Pole Light Assembly

ELECTRIC CONNECTIONS IN POLE AND SOCKET
HOLLOW BRASS POLE—CAST BRONZE SOCKET
1½ INCH FRESNEL BALL GLOBE



Fig. 846

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Diam. Pole Inches
20	\$5.00	\$6.00	3/4
24	5.25	6.25	3/4
30	5.50	6.50	3/4

Complete except socket, deduct \$.50 each.

New Junior Pole Light Assembly

WITH TRANSOM SOCKET
1½ INCH FRESNEL BALL GLOBE



Fig. 1146

Electric connections in pole and socket.

Hollow brass pole, cast bronze socket.

Diameter of pole ¾ inch.

Length Pole Inches	Polished Brass Each	Chromium Plated Each
20	\$5.25	\$6.25
24	5.50	6.50
30	5.75	6.75

Complete except socket, deduct \$.75 each.

Junior Flag Pole Lights

1½ INCH FRESNEL BALL GLOBE
HOLLOW BRASS POLE—CAST BRONZE SOCKET



Fig. 603

Wires concealed in pole and passing through socket under deck.

Length Overall Inches	Diam. Pole Inches	Weight Oz.
20	3/4	11
24	3/4	12
30	3/4	16

Length Inches	Polished Brass Each	Chromium Plated Each
20	\$3.60	\$4.60
24	3.85	4.85
30	4.25	5.25

Flag Pole Light

WITH 2½ INCH GLOBE—HOLLOW BRASS POLE
CAST BRONZE SOCKET



Fig. 538

Wires concealed in pole and passing through socket under deck.

Length Overall Inches	Diam. Pole Inches	Weight Lbs.
20	¾	1
24	¾	1 1/4
30	¾	1 1/2

Length Inches	Polished Brass Each	Chromium Plated Each
20	\$3.85	\$4.85
24	4.25	5.25
30	4.50	5.50



Flag Pole Lights

ELECTRIC ONLY—HOLLOW MAHOGANY POLE

This pole is turned from one solid piece of mahogany and drilled through center for electric wire. Natural finish, varnished, equipped with pole light. Fig. 491, 2½ or 3 inch globe, double contact electric socket. All wired ready for use. Threaded base of globe allows easy change of bulb. Brass ferrule on base of pole to prevent splitting or swelling.



Fig. 492

NOTE—Furnished with wire outlet in side of pole in stead of bottom if desired.

2½ inch globes furnished unless 3 inch is specified.

Length Overall Inches	Diameter Base Inches
20	1¼
24	1¼
30	1¼
36	1¼
42	1¼
48	1¼
60	1¼
72	1¼

Length Overall Inches	Polished Brass Each	Chromium Plated Each
20	\$3.85	\$4.60
24	3.85	4.60
30	4.00	4.75
36	4.25	5.00
42	4.75	5.50
48	5.25	6.00
60	6.50	7.25
72	8.00	9.00

Battery Pole Lights

BRASS BATTERY CASE—FRESNEL BALL GLOBE MAHOGANY FINISH POLE

Two ordinary flashlight battery cells installed in case on top of pole.

A wireless flag pole light which will furnish 14 hours of continuous light on one set of batteries, or enough for several weeks of ordinary use.

Furnished complete with bulb and switch, no batteries. Diameter base—1 inch.



Fig. 710

Length Overall Inches	Chromium Plated Each
24	\$4.50
30	4.75

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



35

Fig. 496

Length Overall Inches	Diam. Base Inches	Price Each
18	¾	\$.70
18	1¼	1.00
20	1¼	1.20
24	1¼	1.40
30	1¼	2.00
36	1¼	2.40
42	1¼	2.60
48	1¼	2.80

Can be furnished with 1 inch base if specified, add \$.25 each.

With brass or nickel plated ferrule—add \$.25 to above prices.

Junior Flag Pole Lights

ELECTRIC ONLY—MAHOGANY POLE FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

1½ INCH FRESNEL BALL GLOBE DOUBLE CONTACT ELECTRIC SOCKET



Fig. 602

Length Overall Inches	Diam. Base Inches	Weight Oz.	Polished Brass Each	Chromium Plated Each
20	¾	7		
24	¾	8		
30	¾	9		
20			\$3.25	\$4.00
24			3.50	4.25
30			3.75	4.50

For information on light fixture only, refer to Fig. 600.

Maple Flag Poles

POLISHED

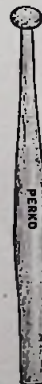


Fig. 713

Length Overall Inches	Diameter Base Inches	Each
18	¾	\$.50
18	1	.50
24	1	.55
30	1	.60
36	1¼	.65
42	1¼	.75
48	1¼	.85
54	1¼	1.00
60	1½	1.05
66	1½	1.50

Pole Lights

WROUGHT BRASS

All with screw type fresnel ball globes, double contact electric sockets and 5 feet of rubber covered waterproof cable. Opening in globes is 1½ inch which will admit a 50 C. P. bulb.



Fig. 482

WITH 2½ INCH GLOBE
FOR SOLID POLE
CABLE THROUGH SIDE

Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
5	¾	12
Polished Brass Each		Chromium Plated Each
\$2.65		\$3.30



Fig. 491

WITH 2½ INCH GLOBE
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
5	¾	12
Polished Brass Each		Chromium Plated Each
\$2.65		\$3.30



Fig. 508

WITH 3 INCH GLOBE
FOR SOLID POLE
CABLE THROUGH SIDE

Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
5¾	¾	1
Polished Brass Each		Chromium Plated Each
\$2.65		\$3.30



Fig. 483

WITH 3 INCH GLOBE
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
5¾	¾	1
Polished Brass Each		Chromium Plated Each
\$2.65		\$3.30

Pole Lights

CAST BRONZE

All furnished complete with fresnel ball globe, double contact socket and 5 feet of rubber covered waterproof cable. Screw type globes on Fig. 498 and 484, large opening to admit a 50 C. P. bulb.



Fig. 601

JUNIOR PATTERN
FOR SOLID POLE
CABLE THROUGH SIDE

Globe will admit a 3 or 6 C. P. bulb.

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
1½	4¼	¾	7
Polished Bronze Each		Chromium Plated Each	
\$2.50		\$3.00	



Fig. 600

JUNIOR PATTERN
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Globe will admit a 3 or 6 C. P. bulb.

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
1½	4¼	¾	7
Polished Bronze Each		Chromium Plated Each	
\$2.50		\$3.00	

Figs. 600 and 601 Pole Lights can be furnished with ¼ inch pipe thread in bottom—add \$.20 each.



Fig. 498

HEAVY PATTERN
FOR SOLID POLE
CABLE THROUGH SIDE

WITH 2½ OR 3 INCH GLOBE

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2½ or 3	5	¾	1
Polished Bronze Each		Chromium Plated Each	
\$4.25		\$5.00	



Fig. 484

HEAVY PATTERN
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

WITH 2½ OR 3 INCH GLOBE

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2½ or 3	5	¾	1
Polished Bronze Each		Chromium Plated Each	
\$4.25		\$5.00	



Stern Lights

BRASS

Made of heavy brass tubing with heavy brass base, 2½ or 3 inch fresnel ball globe, threaded base, double contact electric socket.



Fig. 422

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
7	2½	2½ or 3	12
Polished Brass Each		Chromium Plated Each	
\$3.30		\$4.40	

Can be had in any height from 4 inches up. For each additional inch above the standard height add 10c. 2½ inch globes furnished unless 3 inch are requested.

With red, green or blue globe, add \$.50 each

Stern Lights

CAST BRONZE

All cast bronze with 2½ or 3 inch fresnel ball globe, threaded base, double contact electric socket.



Fig. 506

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
5½	1½	2½ or 3	18
Polished Bronze Each		Chromium Plated Each	
\$4.75		\$5.75	

With red, green or blue globe, add \$.50.

2½ inch globes furnished unless 3 inch are requested.

Stern Lights

CAST BRONZE



Fig. 375

Equipped with 360 degree fresnel lens and double contact electric socket. Any height desired can be secured by placing required length of 1 inch brass pipe at joint marked A. These parts have standard 1 inch pipe thread.

Height Inches	Diam. Base Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.
7	3½	3½	3 7/8 x 3 7/8	2½
Polished Bronze Each			Chromium Plated Each	
\$7.75			\$8.75	

With red, green or blue lens, add \$1.00 each.

Furnished with standard screw socket at above prices if desired.

Mast Lights

CAST BRONZE



Fig. 521

Equipped with 360 degree clear fresnel lens and double contact electric socket. Extra long neck.

Height Inches	Diam. Body Inches	Size Lens Inches	Inside Diam. Neck Inches	Weight Lbs.
6¾	3½	3 7/8 x 3 7/8	1¼ or 1½	2
Polished Bronze Each			Chromium Plated Each	
\$7.25			\$8.25	

With red, green or blue lens, add \$1.00 each.

Furnished with standard screw sockets at above prices if desired.

Stern Lights

WITH THREADED BASE GLOBE

CAST BRONZE

Equipped with clear fresnel lens and standard screw electric sockets.



Fig. 112

Height Overall Inches	Diam. Base Inches	Size of Globe Inches
8¾	3½	5x3½
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
\$5.00	\$5.50	\$6.60

With red, green or blue globe, add \$1.00 Each

Furnished with double contact socket if specified at same prices.

New Stern Light

WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height desired.



Fig. 1119

Overall Height Inches	Diam. Base Inches	Diam. Neck Inches	Size Lens Inches
10	3½	¾	3 7/8 x 3 7/8
Polished Brass Each		Chromium Plated Each	
\$4.25		\$5.25	

For each additional inch above standard height add \$.10.

With red, green or blue lens, add \$1.00 each.

Yard Arm Light

CAST BRONZE

Threaded base fresnel ball globe, cast bronze body and base for mounting on yard arm or mast truck. Standard screw electric socket.



Fig. 565

Diam. Globe Inches	Height Overall Inches	Size Base Inches	Weight Lbs.
4 1/4	5 3/4	2 3/8 x 1 3/8	1 3/4

Polished Bronze Each \$5.00

Chromium Plated Each \$6.00

Furnished with 2 inch diameter round base if desired.

Furnished without base but having a 1/2 inch pipe thread for mounting on pipe—deduct \$.50 each from above prices—specify Fig. 564 when ordering.

Mast Truck and Yardarm Fixture

CAST BRONZE



Fig. 104

Threaded base, fresnel ball globe, cast bronze fittings, standard Edison socket (medium screw base). Water-tight stuffing gland on side for wiring, two lugs on bottom for fastening to truck or yardarm, rubber gasket between globe and support. Absolutely water-tight.

Height Overall Inches 5 3/8

Height Globe Inches 2 3/8

Width to Ends of Lugs Inches 4 1/4

Inside Diam. Globe Inches 2 1/4

Weight Lbs. 2

Plain Bronze Each \$5.00

Polished Bronze Each \$6.00

Chromium Plated Each \$7.25

With colored globe (red, green or blue), add \$1.00 each

Special Mast Light

MEDIUM SCREW SOCKET—PORCELAIN BASE
CAST BRONZE—THREADED GLOBE



Fig. 488



Fig. 489

Especially designed for use with tubular bulb, medium screw base.

Fig. 488 has 1/2 inch female pipe thread in base for mounting on pipe.

Fig. 489 has flat base not threaded but drilled for mounting on mast truck.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening In globe Inches
\$3.00	\$3.60	6	2 3/4	5 1/2 x 2 3/4	1 7/8

With Red, Green or Blue Globe add \$.50 Each
Special Porcelain Electric Sockets only50 Each

Mast Light

CAST BRONZE



Fig. 103

Base threaded for 1/2 inch pipe. Other dimensions and specifications same as Fig. 104 above.

Plain Bronze Each \$4.50

Polished Bronze Each \$5.50

Chromium Plated Each \$6.75

With colored globe, add \$1.00 each.

Mast Light

CAST BRONZE—THREADED GLOBE
DOUBLE CONTACT SOCKET



Fig. 362

Cast bronze base threaded for mounting on 1/2 inch pipe. Furnished with 2 1/2 or 3 inch diameter fresnel ball globe; globe is large enough to use with 50 candle power bulb.

Height Overall Inches 3 1/2

Diameter Base Inches 2 1/4

Size Globe Inches 2 1/2 or 3

Weight Pounds 1

Plain Bronze Each \$3.00

Polished Bronze Each \$3.50

Chromium Plated Each \$4.25

With Red, Green or Blue Globe, add \$.50 each.

Mast Lights

WITH THREADED BASE GLOBE

CAST BRONZE



Fig. 113

Equipped with clear fresnel lens and standard screw electric socket.

Height Overall Inches 9

For Diam. Mast Inches 2 1/8

Size of Globe Inches 5 x 3 1/2

Plain Bronze Each \$5.50

Polished Bronze Each \$6.50

Chromium Plated Each \$7.75

With red, green or blue globe, add \$1.00 Each
Furnished with double contact socket if specified at same price.

Mast Light

MEDIUM SCREW SOCKET
CAST BRONZE—THREADED GLOBE



Fig. 309

Has 1/2 inch female pipe thread in base. Globe will accommodate up to 75 watt bulb.

Height Overall Inches 6 1/2

Size Globe Inches 5 x 3 1/2

Opening In globe Inches 2 3/4

Plain Bronze Each \$4.75

Polished Bronze Each \$5.25

Chromium Plated Each \$6.50

With Red, Green or Blue Globe, add \$1.00 each.

ELECTRIC NAVIGATION LIGHTS

For Vessels Over 65 Feet Long

WATERPROOF—NEW REGULATIONS

WITH MOGUL 3 WIRE SOCKET AND DOUBLE FILAMENT BULB

These lights are constructed in accordance with proposed new specifications on construction of electric navigation lights.

All have cast bronze threaded caps with rubber gasket for replacing of bulbs, also packing glands for entrance of electric cable. All are equipped and furnished with mogul 3 wire socket and double filament bulb.

No. 1 and 2 sizes are constructed of 20 gauge material. No. 3 size of 16 gauge material.

Brackets and mounting lugs are arranged exactly the same as those on our oil lights to facilitate replacement when necessary.

Top opening in all lights below is 4 3/4 inches.

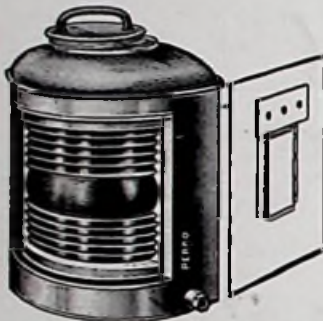


Fig. 1150

Side Lights

112 1/2 DEGREES—10 POINTS OF COMPASS

FURNISHED IN PAIRS, GREEN FOR STARBOARD AND RED FOR PORT WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

No.	Polished Brass Per Pair	Polished Copper Per Pair	Size of Lens Inches	Height Less Handle Inches	Size Base Inches	For Size Vessel Feet
1	\$74.00	\$82.50	6 3/4 x 9 3/4	11	7 1/4 x 7 1/4	65 to 149
2	85.00	93.50	7 1/2 x 12 1/2	13 1/2	9 1/2 x 9 1/2	150 to 349
3	On Application		8 1/2 x 12 1/2	15 1/4	10 3/4 x 10 3/4	350 and up

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.

FOR MORE DETAIL SEE BLUE PRINT NO. 1200.

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING



Fig. 1151

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Size Base Inches	Center to Center of Lugs Inches	For Size Vessel Feet
1	\$44.00	\$48.50	6 3/4 x 13 1/4	11	7 1/8 x 7 3/4	8 3/8	65 to 149
2	49.50	54.00	7 1/2 x 16 1/2	13 1/2	9 x 10	10 7/8	150 to 349
3	On Application		8 1/2 x 18 1/2	15 1/4	10 3/4 x 11 1/4	12 7/8	350 and up

With red, green or blue lens, add \$5.00 each.

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.

FOR MORE DETAIL SEE BLUE PRINT NO. 1201.

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS WITH FOUR CAST METAL LUGS FOR MOUNTING



Fig. 1152

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Size Base Inches	Center to Center of Lugs Inches	For Size Vessel Feet
1	\$44.00	\$48.50	6 3/4 x 8 3/4	11	7 x 7 1/2	8 3/8	65 to 149
2	49.50	54.00	7 1/2 x 10	13 1/2	9 x 10	10 7/8	150 to 349
3	On Application		8 1/2 x 11 3/8	15 1/4	10 1/8 x 10 3/8	11 7/8	350 and up

With red, green or blue lens, add \$5.00 each.

With 45 degree red lens for self propelled suction dredges, add \$7.50 each.

With 45 degree blue lens for convoy light, add \$10.00 each.

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.

FOR MORE DETAIL SEE BLUE PRINT NO. 1202.

NOTE. All lens sizes on page are 1st, Height and 2nd, circumference at bulls-eye.

OIL NAVIGATION LIGHTS

For Vessels Over 65 Feet Long

WITH SWIVEL FOUNT IN BOTTOM—NEW REGULATIONS

These lights are constructed in accordance with proposed new specifications on construction of oil navigation lights. All have cast bronze bail handles and are furnished complete with swivel oil fount, hinged burner, lip chimney and wick. No. 1 and 2 sizes are constructed of 20 gauge material, No. 3 size of 16 gauge material. Brackets and mounting lugs are arranged exactly the same as our electric lights to facilitate replacements when necessary.



Fig. 1155



Side Lights

112½ DEGREES—10 POINTS OF COMPASS

FURNISHED IN PAIRS, GREEN FOR STARBOARD AND

RED FOR PORT

WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

No.	Polished Brass Per Pair	Polished Copper Per Pair	Size Lens Inches	Height Less Handle Inches	Size Base Inches	For Size Vessel Feet
1	\$52.00	\$62.00	6¾ x 9¾	14¾	7¼ x 7¼	65 to 149
2	66.00	76.00	7½ x 12 11/16	18	9½ x 9½	150 to 349
3	On Application		8½ x 12 11/16	19¾	10¾ x 10¾	350 and up

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3. FOR MORE DETAIL SEE BLUE PRINT NO. 1204.

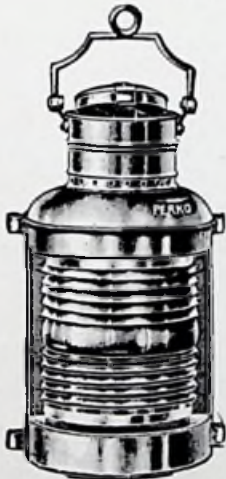


Fig. 1156



Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS

WITH FOUR CAST METAL LUGS FOR MOUNTING

No.	Polished Brass Each	Polished Copper Each	Size Lens Inches	Height Less Handle Inches	Size Base Inches	Center to Center of Lugs Inches	For Size Vessel Feet
1	\$30.50	\$36.00	6¾ x 13¼	14¾	7½ x 7¾	8¾	65 to 149
2	36.00	42.00	7½ x 16½	18	9 x 10	10¾	150 to 349
3	On Application		8½ x 18 11/16	19¾	10¾ x 11¼	12¾	350 and up

With red, green or blue lens, add \$5.00 each.

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3. FOR MORE DETAIL SEE BLUE PRINT NO. 1205.

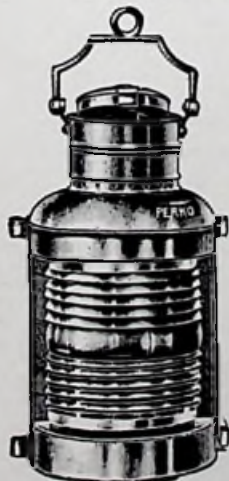


Fig. 1157



Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS

WITH FOUR CAST METAL LUGS FOR MOUNTING

No.	Polished Brass Each	Polished Copper Each	Size Lens Inches	Height Less Handle Inches	Size Base Inches	Center to Center of Lugs Inches	For Size Vessel Feet
1	\$30.50	\$36.00	6¾ x 8 3/16	14¾	7 x 7½	8¾	65 to 149
2	36.00	42.00	7½ x 10	18	9 x 10	10¾	150 to 349
3	On Application		8½ x 11¾	19¾	10½ x 10¾	11¾	350 and up

With red, green or blue lens, add \$5.00 each.

With 45 degree red lens for self propelled suction dredges, add \$7.50 each.

With 45 degree blue lens for convoy light, add \$10.00 each.

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3. FOR MORE DETAIL SEE BLUE PRINT NO. 1206.

NOTE. All lens sizes on page are 1st, Height and 2nd, Circumference at bullseye.



ELECTRIC NAVIGATION LIGHTS

For Vessels Over 65 Feet Long

WATERPROOF—NEW REGULATIONS
WITH MOGUL 3 WIRE SOCKET AND DOUBLE FILAMENT BULB



Fig. 1153

Anchor Lights

360 DEGREES—CLEAR LENS

WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Polished Brass Each	Polished Copper Each	Colored Lens Add Each	Size of Lens Inches	Height Less Handle Inches	Diam. Base Inches	For Size Vessel Feet
1	\$38.50	\$43.00	\$3.50	6 3/4 x 6	12 1/2	7 3/8	65 to 149
2	44.00	48.50	5.50	7 1/2 x 7 1/2	14 1/4	9 1/2	150 to 349
3	On Application			8 1/2 x 8 3/8	15 1/4	11	350 and up

Colored lenses are red, green or blue.

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.
FOR MORE DETAIL SEE BLUE PRINT NO. 1203.



Fig. 1154

Not Under Command Lights

360 DEGREES—RED LENS

WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Diam. Base Inches	For Size Vessel Feet	
1	\$42.00	\$46.50	6 3/4 x 6	12 1/2	7 3/8	65 to 149	
2	49.50	54.00	7 1/2 x 7 1/2	14 1/4	9 1/2	150 to 349	
3	On Application			7 1/2 x 7 1/2	14 5/8	9 1/2	350 and up

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.
FOR MORE DETAIL SEE BLUE PRINT NO. 1209.

Mast or Blinker Signaling Lights

WITH STANDARD EDISON SOCKETS
WATERTIGHT—CAST BRONZE—BLACK FINISH

With hinged top for quick replacement of bulb. Bottom is hexagon shape threaded for pipe. Colored lenses are red, green or blue.

- No. 1. For vessels up to 65 feet long.
- No. 2. For vessels 65 to 150 feet long.
- No. 3. For vessels 150 feet and up.



Fig. 403

No.	Clear Lens Each	Colored Lens Each	Height Inches	Width Inches	Size Lens Inches	Threaded for Pipe Inches
1	\$11.00	\$12.00	6 3/4	4 3/4	3 1/4 x 3 1/4	1/2
2	13.75	15.25	8	5 5/8	4 1/4 x 4	3/4
3	20.00	23.00	9 1/2	7 1/4	5 1/8 x 5 1/4	1
4	22.00	25.00	9 1/2	7 1/4	5 1/4 x 5 1/4	1

No. 4 has four bakelite standard Edison sockets for 25 watt tubular bulbs No. T-10.
See Blue Print No. 1212.

Combination Blinker and Loading Light

WITH BAKELITE STANDARD EDISON SOCKETS
CAST BRONZE—BLACK FINISH—WATERTIGHT

For passenger and cargo vessels, oil carriers, etc. Blinker light has 4 bakelite sockets for 25 watt tubular bulbs, permitting rapid signaling.

A hinged cover fastened by toggle bolt permits quick replacement of bulbs, sockets, wiring, etc. Loading Light is integral part of blinker light cover, has red fresnel screw type globe protected by removable wire guard.

Loading Light has one bakelite socket and will accommodate a 75 watt bulb.

Wiring for loading light ascends through center of blinker light and cannot interfere with ability of blinker bulbs.

No.	Each	Height Overall Inches	Size Blinker Lens Inches	Size Loading Lens Inches	Threaded for Pipe Inches	Weight Pounds
5	\$34.00	18	6 3/4 x 5 1/4	5 x 3 1/2	1	20

With 1 1/4 or 1 1/2 I.P.S. thread, add \$1.00 each.
With colored lens in blinker light, add \$3.50 each.
Can be furnished in aluminum—price on application.

FOR MORE DETAIL SEE BLUE PRINT NO. 1213.

NOTE. All lens sizes on page are 1st, Height and 2nd, Diameter outside of rim.



Fig. 1163

OIL NAVIGATION LIGHTS For Vessels Over 65 Feet Long WITH SWIVEL FOUNT IN BOTTOM—NEW REGULATIONS



Fig. 1158

Anchor Lights

360 DEGREES—CLEAR LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Diam. Base Inches	For Size Vessel Feet
1	\$27.50	\$32.00	6¾x6	14¾	7¾	65 to 149
2	36.50	42.00	7½x7½	18	9½	150 to 349
3	On Application		8½x8½	19¾	11	350 and up

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.
FOR MORE DETAIL SEE BLUE PRINT NO. 1207.

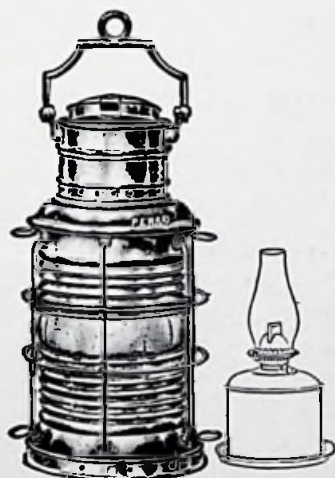


Fig. 1159

Not Under Command Lights

360 DEGREES—RED LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Diam. Base Inches	For Size Vessel Feet
1	\$31.00	\$35.50	6¾x6	14¾	7¾	65 to 149
2	42.00	47.50	7½x7½	18	9½	150 to 349
3	On Application		7½x7½	19⅞	9½	350 and up

Furnished with green or blue lenses at same prices.

NO. 3 SIZE IS USED ON U. S. MARITIME COMMISSION VESSELS C-1, 2, 3.
FOR MORE DETAIL SEE BLUE PRINT NO. 1208.

NOTE. All lens sizes on page are 1st, Height and 2nd, Diameter outside of rim.

Watertight Blinker Key

WITH CONDENSER

CAST BRONZE—BLACK FINISH—APPROVED

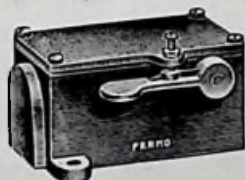


Fig. 9

A cast bronze watertight box fitted with special key, externally operated by cast bronze lever.

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$18.00	4⅞	3½	2¼	2½

Open Type Blinker Key

WITH CONDENSER

APPROVED

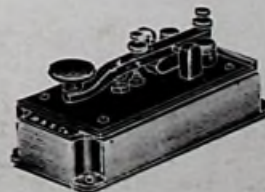


Fig. 10

Standard Morse key with condenser for reducing arcing, mounted on cast aluminum base.

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$15.00	6½	3⅞	2¾	1½

Change



LIGHTS FOR VESSELS OVER 65 FEET LONG TURRET TOP STYLE

Constructed of heavy gauge metal. Galvanized lights are made of black sheet steel and hot galvanized after fabrication. No. 11 side lights, No. 3 masthead lights and No. 6 stern lights are furnished with hinge burner Fig. 242, No. 2, lip chimney and wick. All other sizes with burner Fig. 246, No. 2 and wick. Brass and copper lights are polished. Brass swivel founts for these lights are shown on page 49.



Fig. 21

Side Lights

112½ DEGREES—10 POINTS OF COMPASS
FURNISHED IN PAIRS, GREEN FOR STARBOARD AND RED FOR PORT
WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

No.	Size of Lens		Height Less Ring Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches			
8	5½	5⅞	13	6½x6½	65 to 75
9	5⅝	8⅞	14	6½x6½	65 to 90
10	6¾	8¾	15	7½x7½	91 to 149
11	7½	11⅞	18¾	9½x9½	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Per Pair	Oil and 2 Light Electric Add Per Pair	Mogul 3 Wire Socket Add Per Pair
	Galvanized Per Pair	Polished Brass Per Pair	Polished Copper Per Pair			
8	\$26.50	\$37.50	\$49.00	\$3.50		\$7.00
9	29.00	40.00	51.00	3.50	On Application	7.00
10	31.00	42.00	53.00	3.50	On Application	7.00
11	42.00	55.00	66.00	4.50	\$6.00	7.00

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS
WITH FOUR CAST METAL LUGS FOR MOUNTING



Fig. 982

No.	Size of Lens		Height Less Ring Inches	Width Centers of Lugs Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
1	5½	11⅞	14	8⅝	7x7	65 to 90
2	6⅝	11⅞	15	8¾	7x7	91 to 149
3	7⅞	16⅞	18¾	10½	9x9½	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
1	\$21.00	\$25.50	\$31.50	\$1.75	On Application	\$3.50
2	22.00	26.50	32.50	1.75	On Application	3.50
3	28.00	33.00	40.00	2.25	\$3.00	3.50

WITH RED, GREEN OR BLUE LENS ADD \$5.00 EACH.

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS
WITH FOUR CAST METAL LUGS FOR MOUNTING



Fig. 985

No.	Size of Lens		Height Less Ring Inches	Width Centers of Lugs Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
4	5½	6⅞	14	8⅝	7x7	65 to 90
5	6½	6⅞	15	8¾	7x7	91 to 149
6	7⅝	9¼	18¾	10½	9x9½	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
4	\$21.00	\$25.50	\$31.50	\$1.75	On Application	\$3.50
5	22.00	26.50	32.50	1.75	On Application	3.50
6	28.00	33.00	40.00	2.25	\$3.00	3.50

WITH 45 DEGREE RED LENS FOR SELF PROPELLED SUCTION DREDGES
ADD \$7.50 EACH.

WITH 45 DEGREE BLUE LENS FOR CONVOY LIGHT, ADD \$10.00 EACH.

LIGHTS FOR VESSELS OVER 65 FEET LONG

TURRET TOP STYLE



Fig. 23

Anchor Lights

360 DEGREES—CLEAR LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Size of Lens			Height Less Ring Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches				
22	5 ¹ / ₁₆	5 ¹ / ₄		14 ¹ / ₂	7 ¹ / ₂	65 to 90
22 1/2	6 ³ / ₄	5 ¹ / ₄		16	7 ¹ / ₂	91 to 149
23	7 ¹ / ₁₆	7 ¹ / ₁₆		18 ³ / ₄	9 ¹ / ₂	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
22	\$15.50	\$23.00	\$28.00	\$1.75	On Application	\$3.50
22 1/2	18.00	25.50	30.00	1.75	On Application	3.50
23	22.00	32.00	38.00	2.25	\$3.00	3.50

WITH RED, GREEN OR BLUE LENSES						
22	\$18.50	\$26.00	\$31.00	\$1.75	On Application	\$3.50
22 1/2	21.50	29.00	33.50	1.75	On Application	3.50
23	27.50	37.50	43.50	2.25	\$3.00	3.50

For information on mogul 3 wire socket see Fig. 1082.

Not Under Command Lights

360 DEGREES—RED LENS

WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS



Fig. 129

No.	Size of Lens			Height Less Ring Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches				
22	5 ¹ / ₁₆	5 ¹ / ₄		14 ¹ / ₂	7 ¹ / ₂	65 to 90
22 1/2	6 ³ / ₄	5 ¹ / ₄		16	7 ¹ / ₂	91 to 149
23	7 ¹ / ₁₆	7 ¹ / ₁₆		18 ³ / ₄	9 ¹ / ₂	150 and up

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
22	\$18.50	\$26.00	\$31.00	\$1.75	On Application	\$3.50
22 1/2	21.50	29.00	33.50	1.75	On Application	3.50
23	27.50	37.50	43.50	2.25	\$3.00	3.50

Furnished with green or blue lenses at same prices.

New Regulation Mogul 3 Wire Sockets and Double Filament Bulbs

To meet proposed new regulations which specify the use of a 3 wire mogul socket and double filament bulb on all 3 wire systems where two light electric shall be used. The use of one bulb insures the proper focus of light at all times.

Base has watertight stuffing gland in bottom for wire.



Fig. 1082

Complete except bulb	Each	\$3.50
Complete with bulb	Each	8.25
Bulb Only, 50-50 watt	Each	4.80
Bulb Only, 100-100 watt	Each	5.00

LIGHTS FOR VESSELS OVER 65 FEET LONG

FLAT TOP STYLE—ELECTRIC ONLY—NON-WATERPROOF

All constructed of heavy materials. All are the bottom opening type and furnished complete with swivel type one light electric fount as regular equipment.

Side Lights

112½ DEGREES—10 POINTS OF COMPASS



With channel socket and bracket for mounting.

No.	Size of Lens Inches	Height Less Handle Inches
109	5 5/8 x 8 3/16	10 1/2
110	6 3/4 x 8 3/4	11
111	7 1/2 x 11 1/16	13 1/2

No.	Size Base Inches	For Size Vessel Feet
109	6 1/2 x 6 1/2	65 to 90
110	7 1/4 x 7 1/4	91 to 149
111	9 1/2 x 9 1/2	150 to 450

Fig. 30

No.	Galvanized Per Pair	Polished Brass Per Pair	Polished Copper Per Pair	Mogul 3 Wire Socket Add Per Pair
109	\$26.00	\$36.00	\$46.00	\$7.00
110	28.00	38.00	48.00	7.00
111	38.00	50.00	60.00	7.00

Anchor Lights

360 DEGREES—CLEAR LENS



With four lashing eyes and wire guards around lens.

No.	Size of Lens Inches	Height Less Handle Inches
122	5 1/16 x 5 1/4	11
122 1/2	6 3/4 x 5 1/4	12
123	7 1/16 x 7 1/16	14 1/2

No.	Diam. Inches	For Size Vessel Feet
122	7 1/2	65 to 90
122 1/2	7 1/2	91 to 149
123	9 1/2	150 to 450

Fig. 32

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Colored Lens Add Each	Mogul 3 Wire Socket Add Each
122	\$14.00	\$21.00	\$25.00	\$3.00	\$3.50
122 1/2	16.00	23.00	27.00	3.50	3.50
123	20.00	29.00	34.00	5.00	3.50

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS

With four cast metal lugs for mounting.



CLEAR LENS

No.	Size of Lens Inches	Width of Centers of Lugs Inches	Height Less Handle Inches
1	5 1/2 x 11 1/16	8 3/8	10 1/2
2	6 5/8 x 11 1/16	8 3/4	11
3	7 1/16 x 16 1/16	10 1/2	13 1/2

No.	Size Base Inches	For Size Vessel Feet
1	7x7	65 to 90
2	7x7	91 to 149
3	9x9 1/2	150 to 450

Fig. 983

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Mogul 3 Wire Socket Add Each
1	\$19.00	\$23.00	\$28.50	\$3.50
2	20.00	24.00	29.50	3.50
3	25.00	30.00	36.00	3.50

Not Under Command Lights

360 DEGREES—RED LENS

With four lashing eyes and wire guards around lens.



No.	Size of Lens Inches	Height Less Handle Inches
122	5 1/16 x 5 1/4	11
122 1/2	6 3/4 x 5 1/4	12
123	7 1/16 x 7 1/16	14 1/2

No.	Diam. Inches	For Size Vessel Feet
122	7 1/2	65 to 90
122 1/2	7 1/2	91 to 149
123	9 1/2	150 and up

Fig. 84

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Mogul 3 Wire Socket Add Each
122	\$17.00	\$24.00	\$28.00	\$3.50
122 1/2	19.50	26.50	30.50	3.50
123	25.00	34.00	39.00	3.50

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS

With four cast metal lugs for mounting.



CLEAR LENS

No.	Size of Lens Inches	Width of Centers of Lugs Inches	Height Less Handle Inches
4	5 1/2 x 6 1/16	8 3/8	10 1/2
5	6 1/2 x 6 1/16	8 3/4	11
6	7 3/8 x 9 1/4	10 1/2	13 1/2

No.	Size Base Inches	For Size Vessel Feet
4	7x7	65 to 90
5	7x7	91 to 149
6	9x9 1/2	150 to 450

Fig. 986

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Mogul 3 Wire Socket Add Each
4	\$19.00	\$23.00	\$28.50	\$3.50
5	20.00	24.00	29.50	3.50
6	25.00	30.00	36.00	3.50

Mogul 3 Wire Socket and Bulb

FOR ALL LIGHTS ON THIS PAGE



Fount base, swivel type with mogul 3 wire socket, double filament bulb, and watertight stuffing gland in bottom for wire.

	Each
Complete except bulb	\$3.50
Complete with bulb	8.25
Bulb only—50-50 watt	4.80
Bulb only—100-100 watt	5.00

Fig. 1082

Lights Nos. 3, 6, 111, 123 can be furnished with old style two light electric equipment as Fig. 289—add \$.50 to above prices for each light.

Figs. 983 and 986 with red, green or blue lenses, add \$5.00 each.

Globe—Distress or Signal Light

TURRET TOP
OIL OR ELECTRIC

Constructed of high grade, heavy materials. Colored globes are solid color—not painted. Heavy wire guards protect globe.



Fig. 44

WITH CLEAR GLOBE

Trade Size Inches	Galvanized Each	Polished Brass Each	Polished Copper Each	Diam. Globe Inches	Height Overall Inches	Net Weight Each Lbs.
6	\$ 7.75	\$11.00	\$13.50	6	11	4
8	9.00	13.25	15.50	8	14½	6
10	16.50	22.00	25.50	10	22	12

WITH RUBY, GREEN, BLUE OR FROSTED GLOBES

6	\$ 9.75	\$13.00	\$15.50
8	11.00	15.25	17.50
10	18.50	24.00	27.50

For combination Oil and Electric—6 and 8 inch sizes, add \$1.10.
For combination Oil and Electric—10 inch sizes, add \$1.75.

Navy or Life Boat Lantern

OIL ONLY

Heavily constructed, burns kerosene oil. Equipped with No. 1 brass burner, Fig. 246, and wick. Solid brass spring fount, Fig. 286. Clear globe, Fig. 262. Heavy guards and hinged bottom. This type of lantern approved for use on life boats.



Fig. 49

Height of Lantern Inches	Diam. of Base Inches	Size of Globe Inches	Net Weight Each Lbs.
11	5½	4 x 6½	3

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$4.50	\$7.75
With Ruby, Green or Blue Globe	6.00	9.25
With Electric Fount, Fig. 292, add	.50	.50

Superior Bulkhead Lantern

With Outside Sliding Glasses

Heavy gage metal. Guards riveted to frame and reinforced with solder. Glasses easily removed by sliding through top opening in frame. Large size brass oil fount, hinge burner, lip chimney and large nickel plated reflector.



Fig. 46

Size Body		Height Overall Inches	Galvanized Each	Brass Each
Front Inches	Side Inches			
9x13	7¾x13	16	\$14.00	\$19.00
Brass Fount Only			\$2.25 Each	

With Electric Founts in Place of Oil Founts Price Same as Oil.

Engineer's Hand Lantern

OIL ONLY

A handy, small size hand lantern. Globe is well guarded. Equipped with solid brass spring fount, No. 0 brass burner, Fig. 246, and clear globe, Fig. 263.



Fig. 50

Height of Lantern Inches	Diam. of Base Inches	Size of Globe Inches	Net Weight Each Lbs.
9½	4½	2½ x 4¼	1

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$3.25	\$5.50
With Ruby, Green or Blue Globe	4.60	6.80
Spring Founts Only—All Brass		.75

Battery Marker Light

COPPER CASE—WATERTIGHT

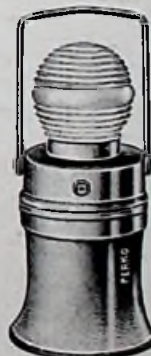


Fig. 295

Uses ordinary lantern battery such as Eveready No. 409 or equal. Bulb is Mazda No. 502.

Furnished with clear fresnel ball globe 3 inch diameter with threaded bottom, bail handle, turn switch and bulb.

Without Battery Each	With Battery Each	Height Overall Inches	Diameter at Base Inches
\$10.00	\$10.75	9	4¾

With red, green or blue globe, add \$.50 each.



OIL AND ELECTRIC NAVIGATION LIGHTS For Vessels Over 65 Feet Long

AMERICAN IMPROVED STYLE—WITH SWIVEL FOUNT

All constructed of 20 gauge material. Galvanized lights are made of black sheet steel and hot dipped galvanized after fabrication. Brass and copper lights are in natural finish, polished.

All have cast bronze bail handles and are furnished complete with swivel fount, hinged burner, lip chimney and wick.



Fig. 1170



Side Lights

112½ DEGREES—10 POINTS OF COMPASS

FURNISHED IN PAIRS, GREEN FOR STARBOARD AND

RED FOR PORT

WITH CHANNEL SHAPED SOCKET AND BRACKET FOR MOUNTING

No.	Size of Lens		Height Less Handle Inches	Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches			
162	5 5/8	8 1/8	13 3/4	6 1/2 x 6 3/4	65 to 90
163	6 3/4	9 3/4	14 3/4	7 1/4 x 7 1/4	65 to 149
164	7 1/2	12 1/8	18	9 1/2 x 9 1/2	150 and up

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Per Pair	Oil and 2 Light Electric Add Per Pair	Mogul 3 Wire Socket Add Per Pair
	Galvanized Per Pair	Polished Brass Per Pair	Polished Copper Per Pair			
162	\$40.00	\$50.00	\$60.00	\$3.50	On Application	\$7.00
163	42.00	52.00	62.00	3.50	On Application	7.00
164	50.00	66.00	76.00	4.50	\$6.00	7.00



Fig. 1171



Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS

WITH FOUR CAST METAL LUGS FOR MOUNTING

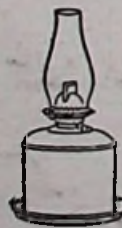
No.	Size of Lens		Height Less Handle Inches	Width Centers of Lugs Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
165	5 1/2	11 1/8	13 3/4	8 1/2	7 x 7 1/4	65 to 90
166	6 3/4	13 1/4	14 3/4	8 5/8	7 1/8 x 7 1/4	65 to 149
167	7 1/2	16 1/2	18	10 7/8	9 x 10	150 and up

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
165	\$25.50	\$29.50	\$35.00	\$1.75	On Application	\$3.50
166	26.50	30.50	36.00	1.75	On Application	3.50
167	32.00	36.00	42.00	2.25	\$3.00	3.50

With red, green or blue lens, add \$5.00 each.



Fig. 1172



Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS

WITH FOUR CAST METAL LUGS FOR MOUNTING

No.	Size of Lens		Height Less Handle Inches	Width Centers of Lugs Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
168	5 1/2	6 1/8	13 3/4	8 1/2	7 x 7 1/4	65 to 90
169	6 3/4	8 3/8	14 3/4	8 5/8	7 x 7 1/2	65 to 149
170	7 1/2	10	18	10 7/8	9 x 10	150 and up

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
168	\$25.50	\$29.50	\$35.00	\$1.75	On Application	\$3.50
169	26.50	30.50	36.00	1.75	On Application	3.50
170	32.00	36.00	42.00	2.25	\$3.00	3.50

With red, green or blue lens, add \$5.00 each.

With 45 degree red lens for self propelled suction dredges, add \$7.50 each.

With 45 degree blue lens for convoy light, add \$10.00 each.

LIGHTS FOR VESSELS OVER 65 FEET LONG AMERICAN IMPROVED STYLE—WITH SWIVEL FOUNT



Fig. 26



Fig. 29

Anchor Lights

360 DEGREES—CLEAR LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Size of Lens		Height Less Handle Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
84	5 ⁷ / ₁₆	5 ¹ / ₄	14	7 ³ / ₈	65 to 90
85	6 ³ / ₄	5 ¹ / ₄	15 ¹ / ₂	7 ³ / ₈	65 to 149
86	7 ¹ / ₁₆	7 ¹ / ₁₆	18	9 ¹ / ₂	150 and up

OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each		Polished Brass Each		Polished Copper Each
	Price		Price		
84	\$17.50		\$25.50		\$30.00
85	20.00		27.50		32.00
86	26.50		36.50		42.00

WITH RED, GREEN OR BLUE LENSES

84	\$21.00	\$29.00	\$33.00
85	23.50	31.00	35.50
86	32.00	42.00	47.50

No. 84 and 85—Oil and one light electric equipment, add \$1.75 each.
No. 86—Oil and one light electric equipment, add \$2.25 each; oil and two light electric equipment, add \$3.00 each.
For mogul 3 wire socket, add \$3.50 each.

Not Under Command Lights

360 DEGREES—RED LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Size of Lens		Height Less Handle Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
84	5 ⁷ / ₁₆	5 ¹ / ₄	14	7 ³ / ₈	65 to 90
85	6 ³ / ₄	5 ¹ / ₄	15 ¹ / ₂	7 ³ / ₈	65 to 149
86	7 ¹ / ₁₆	7 ¹ / ₁₆	18	9 ¹ / ₂	150 and up

OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each		Polished Brass Each		Polished Copper Each
	Price		Price		
84	\$21.00		\$29.00		\$33.00
85	23.50		31.00		35.50
86	32.00		42.00		47.50

No. 84 and 85—Oil and one light electric equipment, add \$1.75 each.
No. 86—Oil and one light electric equipment, add \$2.25 each; oil and two light electric equipment, add \$3.00 each.
For mogul 3 wire socket, add \$3.50 each.

Mounting Brackets

FOR LARGE MASTHEAD AND STERN LIGHTS
CAST BRONZE

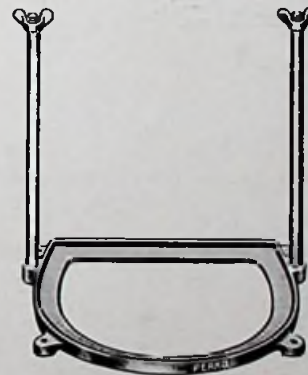


Fig. 1173

For mounting lights rigidly on mast platform.

The two brass rod up-rights are properly spaced for mounting lugs on lights and have cast bronze wing nuts to hold light down.

Base is arranged to be bolted to platform.

Mogul 3 Wire Socket and Bulb

FOR ALL LIGHTS WITH SWIVEL FOUNT

Fount base, swivel type with mogul 3 wire socket, double filament bulb, and watertight stuffing gland in bottom for wire.



Fig. 1082

	Each
Complete except bulb	\$3.50
Complete with bulb	8.25
Bulb only, 50-50 watt	4.80
Bulb only, 100-100 watt	5.00

No.	Each	Diam. Rod Inches	Drilled for Bolts Inches	Centers of Rods	
				Masthead Inches	Stern Inches
2	\$9.50	³ / ₈	³ / ₈	10 ⁷ / ₈	10 ⁷ / ₈
3	9.50	³ / ₈	³ / ₈	12 ⁷ / ₈	11 ⁷ / ₈

When ordering, state whether for Masthead or Stern Lights.

These are for lights on pages 24 and 25.

FOR MORE DETAIL SEE BLUE PRINTS NOS. 1210 AND 1211.

LIGHTS FOR VESSELS OVER 65 FEET LONG
AMERICAN IMPROVED STYLE—WITH BACK DOOR

Made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after they are formed. Brass and copper lights are in natural finish, highly polished. Furnished complete with hinged back door, sliding fount, burner, wick and chimney.

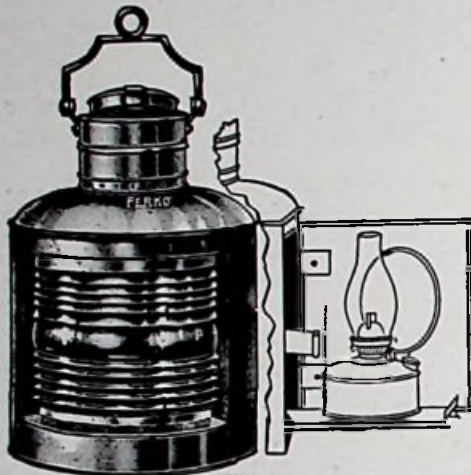


Fig. 24

Side Lights

112½ DEGREES—10 POINTS OF COMPASS
 FURNISHED IN PAIRS, GREEN FOR STARBOARD
 AND RED FOR PORT
 WITH CHANNEL SHAPED SOCKET AND BRACKET
 FOR MOUNTING

No.	Size of Lens		Height Less Handle Inches	Width Inches	For Size Vessel Feet
	Height Inches	Cir. Inches			
62	5 5/8	8 3/16	13 3/4	6 1/2 x 6 3/4	65 to 90
63	6 3/4	8 3/4	14 3/4	7 1/4 x 7 1/4	65 to 149
64	7 1/2	11 3/16	18	9 1/2 x 9 1/2	150 and up

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Per Pair	Polished Brass Per Pair	Polished Copper Per Pair
62	\$46.00	\$57.50	\$69.00
63	48.50	60.00	71.50
64	57.50	76.00	87.50

For oil and one light electric equipment, add \$5.50 per pair.
 For oil and two light electric equipment, add \$7.00 per pair.
 For mogul 3 wire socket, add \$12.00 per pair.

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS—CLEAR LENS
 WITH FOUR CAST METAL LUGS FOR MOUNTING

No.	Size of Lens		Height Less Handle Inches	Size Base Inches	Width Centers of Lugs Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
1	5 1/2	11 1/16	13 3/4	7 x 7 1/4	8 1/2	65 to 90
2	6 5/8	11 1/8	14 3/4	7 5/8 x 7 1/4	8 3/8	65 to 149
3	7 1/16	16 3/16	18	9 1/2 x 9 1/4	10 3/4	150 and up

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
1	\$29.50	\$34.00	\$40.00
2	31.00	35.00	41.50
3	37.00	41.50	48.50

With red, green or blue lens, add \$5.00 each.
 For oil and one light electric equipment, add \$2.75 each.
 For oil and two light electric equipment, add \$3.50 each.
 For mogul 3 wire socket, add \$6.00 each.

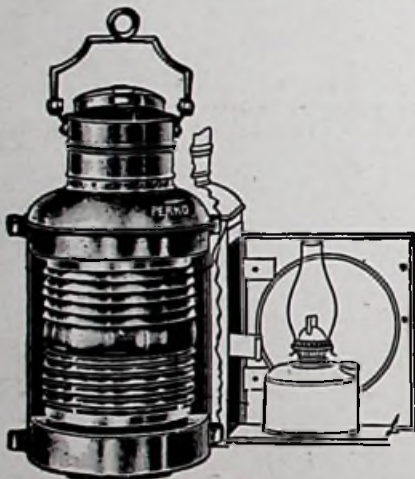


Fig. 981

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS—CLEAR LENS
 WITH FOUR CAST METAL LUGS FOR MOUNTING

No.	Size of Lens		Height Less Handle Inches	Size Base Inches	Width Centers of Lugs Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
4	5 1/2	6 13/16	13 3/4	7 x 7 1/4	8 1/2	65 to 90
5	6 1/2	6 1/16	14 3/4	7 5/8 x 7 1/4	8 3/8	65 to 149
6	7 3/8	9 1/4	18	9 1/2 x 9 1/4	10 3/4	150 and up

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
4	\$29.50	\$34.00	\$40.00
5	31.00	35.00	41.50
6	37.00	41.50	48.50

With 45 degree red lens for self propelled suction dredges, add \$7.50 each.

For oil and one light electric equipment, add \$2.75 each.
 For oil and two light electric equipment, add \$3.50 each.
 For mogul 3 wire socket, add \$6.00 each.

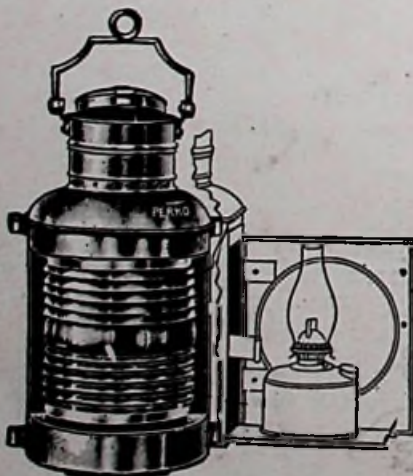


Fig. 984

LIGHTS FOR VESSELS OVER 65 FEET LONG

AMERICAN IMPROVED STYLE—WITH SWIVEL FOUNT

Anchor Lights

360 DEGREES—CLEAR LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Size of Lens		Height Less Handle Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
84	5 $\frac{1}{16}$	5 $\frac{1}{4}$	14	7 $\frac{3}{8}$	65 to 90
85	6 $\frac{3}{4}$	5 $\frac{1}{4}$	15 $\frac{1}{2}$	7 $\frac{3}{8}$	65 to 149
86	7 $\frac{1}{16}$	7 $\frac{1}{16}$	18	9 $\frac{1}{2}$	150 and up



Fig. 26

OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
85	20.00	27.50	32.00
86	26.50	36.50	42.00

WITH RED, GREEN OR BLUE LENSES

84	\$21.00	\$29.00	\$33.00
85	23.50	31.00	35.50
86	32.00	42.00	47.50

No. 84 and 85—Oil and one light electric equipment, add \$1.75 each.

No. 86—Oil and one light electric equipment, add \$2.25 each; oil and two light electric equipment, add \$3.00 each.

For mogul 3 wire socket, add \$3.50 each.

Not Under Command Lights

360 DEGREES—RED LENS
WITH FOUR LASHING EYES AND WIRE GUARDS AROUND LENS

No.	Size of Lens		Height Less Handle Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
84	5 $\frac{1}{16}$	5 $\frac{1}{4}$	14	7 $\frac{3}{8}$	65 to 90
85	6 $\frac{3}{4}$	5 $\frac{1}{4}$	15 $\frac{1}{2}$	7 $\frac{3}{8}$	65 to 149
86	7 $\frac{1}{16}$	7 $\frac{1}{16}$	18	9 $\frac{1}{2}$	150 and up



Fig. 29

OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
85	23.50	31.00	35.50
86	32.00	42.00	47.50

No. 84 and 85—Oil and one light electric equipment, add \$1.75 each.

No. 86—Oil and one light electric equipment, add \$2.25 each; oil and two light electric equipment, add \$3.00 each.

For mogul 3 wire socket, add \$3.50 each.

Mogul 3 Wire Socket and Bulb

FOR SIDE, MASTHEAD AND STERN LIGHTS

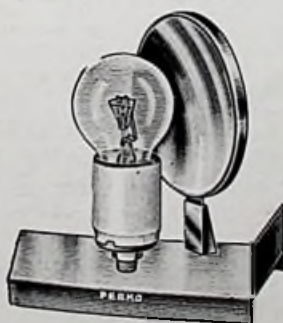


Fig. 1081

Sliding platform with mogul 3 wire socket, double filament bulb, reflector and watertight stuffing gland in bottom for wire.

	Each
Complete except bulb	\$ 6.00
Complete with bulb	11.00
Bulb only, 50-50 watt	4.80
Bulb only, 100-100 watt	5.00
Without reflector deduct	1.25

FOR ANCHOR AND NOT UNDER COMMAND LIGHTS

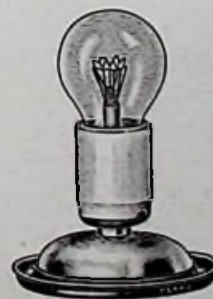


Fig. 1082

Fount base, swivel type with mogul 3 wire socket, double filament bulb, and watertight stuffing gland in bottom for wire.

	Each
Complete except bulb	\$3.50
Complete with bulb	8.25
Bulb only, 50-50 watt	4.80
Bulb only, 100-100 watt	5.00

SELF CONTAINED BATTERY LIGHTS FOR OIL CARRIERS

WATERPROOF BODY—INTERIOR SWITCH
 FOR TWO ORDINARY 1½ VOLT DRY CELLS SUCH AS EVEREADY NO. 16
 2 MILE VISIBILITY—175 HOURS CONTINUOUS BURNING

Side Lights

10 POINT, 112½ DEGREE FRESNEL LENSES
 GREEN FOR STARBOARD—RED FOR PORT



Fig. 1008

Galv. Per Pair	Polished Brass Per Pair	Extra Bulbs Each	Size Lens Inches	Height Less Handle Inches	Size Base Inches
\$30.00	\$40.00	\$.50	5½x5¾	11½	7¼x7¼

Masthead Light

20 POINT, 225 DEGREE FRESNEL LENS
 CLEAR



Fig. 1013

Galv. Each	Polished Brass Each	Extra Bulbs Each	Size Lens Inches	Height Less Handle Inches	Size Base Inches
\$22.00	\$27.00	\$.50	5½x11½	11	7x7

Above prices include bulb but not the batteries—with batteries add \$1.75 for each set.

The battery, bulb, switch, socket and reflector are mounted on a swivel type platform which is inserted in light through a bottom opening and locked in by a slight turn.

The bulb is a Mazda single contact bayonet base 2.7 volt, .15 amp. The batteries are readily obtainable in hardware and electrical supply stores.

Loading and Anchor Lights

360 DEGREE CLEAR OR RED LENS
 350 HOURS CONTINUOUS BURNING



Fig. 470

Uses four ordinary 1½ volt dry cells, enclosed in a water and air tight container which is fastened to upper unit by elbow type bolts and wing nuts.

Furnished complete with watertight switch and heavy duty bulb—batteries extra.

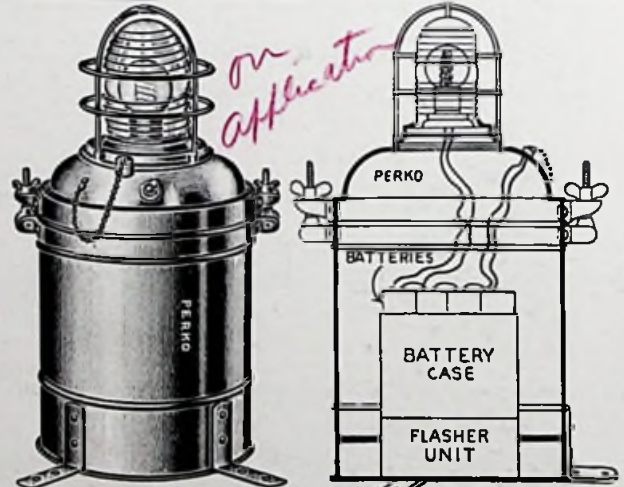
No.	Extreme Height Inches	Diameter Base Inches	Size of Lens Inches	Weight Pounds
1	16½	6½	4¼x4	5½
2	18	6½	5 1/8x5 1/4	8½

No.	Clear Lens		Red Lens	
	Galv. Each	Polished Copper Each	Galv. Each	Polished Copper Each
1	\$13.75	\$16.50	\$15.25	\$18.00
2	26.00	28.50	28.50	31.00

With batteries, add \$3.50 to above prices. Bulbs only, \$.50 each.

New Flasher Light

NEON TYPE BULB—4 REGULAR 1½ VOLT BATTERIES—4 MONTHS CONTINUOUS BURNING



Exterior Fig. 748 Interior

A new waterproof flasher light in which is installed a new type mechanical flasher unit, 4 ordinary 1½ volt dry cells and a neon type bulb with radio tube base. Will operate for 4 months on one set of batteries.

Set for 75 to 80 flashes per minute but can be furnished in various speeds up to 300 per minute on special order.

With screw type fresnel globe, wire globe guard and brackets for mounting.

Without Batteries Galv. Each	Without Batteries Copper Each	Extreme Height Inches	Diam. Bottom Inches	Length Brackets Inches	Weight Less Batt. Pounds
\$90.00	\$110.00	18	9	3	18

With Batteries add each \$3.50.

Without Globe Guard deduct each \$5.00.

Extra Bulbs each \$7.00.

With Red Globe add each \$1.00.



Fisherman's Side Light

GLOUCESTER TYPE



Fig. 346

A tubular lantern which slides in through open top of light is included in the equipment, furnished in pairs, for Port and Starboard sides.

Extreme Height Inches	Diam. Bottom Inches	Size of Lens Height Inches	Size of Lens Cir. Inches	Weight Per Pair Lbs.	Galv. Per Pair
16	10	6 3/4	9	23	\$36.00
For combination oil and electric equipment					39.00
Gloucester Bow Lights, Each					\$20.00
Gloucester Anchor Lights, Each					24.00

Steel Buoy Light

30 DAY LIGHT—BATTERY OPERATED
RIVETED BUOY—LEAD BALLASTED

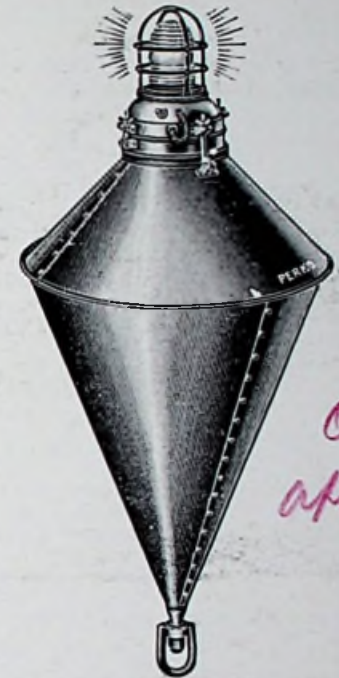


Fig. 988

On Application

The uses to which this buoy light can be put are numerous; as a marker light indicating moorings, channels, private anchorages, docks, sand bars, rocks, dredging operations, danger zones, etc. Also as a mooring buoy by use of a pick-up buoy connected to the swivel.

The body of the light is heavy gauge steel, set into the top of a heavy riveted steel buoy, and held fast by hinged bolts with wing nuts.

The top of the light containing the bulb, lens, socket, watertight toggle switch, etc., is easily removed for renewal of batteries and is fastened to the body by hinged bolts and wing nuts. Absolutely watertight.

Lens is screw type fresnel.

Four regular 1 1/2 volt dry cell batteries and a 1000 hour heavy duty bulb furnishes light for 30 consecutive days without attention.

Buoy contains lead ballast in lower end insuring upright position under all ordinary conditions.

Buoy will support 50 feet of 3/8 inch chain.

Bumper is 1 1/2 inch heavy rubber hose.

Without Lens Guard Each	With Lens Guard Each	Extreme Height Inches	Extreme Diam. Inches	Size Lens Inches	Weight Complete Pounds
\$75.00	\$80.00	58	24	5x3 1/2	100

With rubber bumper add \$5.00 each.

Extra bulbs, \$7.00 each.

With red lens add \$1.00 each.

Price does not include batteries. Furnished complete with special flasher mechanism, neon type bulb, battery, etc., giving four months of light without attention if desired. Add \$26.00 each.

Tri-Color Trawler Light

FOR STEAM TRAWLERS



Fig. 407 Oil Burning



Fig. 408 Electric Burning

Equipped with three fresnel lenses, red, white and green, of regulation size. Electric lamp is equipped with Edison base standard sockets (medium screw base), one or two light.

No.	Galv. Each	Polished Brass Each	Polished Copper Each	Extreme Height Fig. 407	Extreme Height Fig. 408	Height Lens Inches
1	\$33.00	\$44.00	\$49.50	15	11	6 3/4
2	37.50	48.50	54.00	17 1/2	13 1/4	7 3/8

Fresnel Lenses Only—Red, Green and Clear

No. 1 — \$6.00 Each No. 2 — \$8.50 Each



Fig. 59

Regulation Pier Lights

180 DEGREE RUBY FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made in accordance with specifications of the U. S. Department of Commerce regulations for lighting of bridges and piers, of heavy gauge sheet metal, 180 degree ruby fresnel lens, oil or electric equipment, brackets for mounting, made with back door and sliding fount, as shown on Fig. No. 24, page 26, or with swivel fount, Fig. No. 282, going through bottom. Medium screw sockets in electric equipment.

Extreme height, 21 inches
 Meas. of base, 9 inches x 10 inches
 Width of back, overall, 14 1/2 inches
 Net weight, each, 13 pounds

Size of lens, 7 3/4 x 12 1/2 inches

OIL OR ELECTRIC

	Galvanized Each	Brass Each	Copper Each
With back door	\$37.00	\$44.00	\$51.00
With swivel fount	31.00	38.50	44.00
With flat top, electric only	29.00	36.50	42.00

For combination Oil and Electric, add \$2.25 to above prices.
 With green or clear lens if desired at above prices.

Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made in accordance with regulations for lighting of bridges. Heavy gauge sheet metal with top ventilator, for oil or electric, or flat top for electric only. Swivel fount, Fig. No. 282, with No. 2 hinge burner and chimney in oil type, medium screw sockets in electric type. 360 degree fresnel lens.

Extreme height, 17 inches
 Diameter of base, 9 1/2 inches

Size of lens, 7 1/2 inches x 7 1/2 inches

Net weight, each, 18 pounds

With hinged top, for oil or electric
 With hinge top, combination oil and electric
 With flat top, for electric only as Fig. 32
 With Ruby, Blue or Clear Lens if desired at above prices.

	Galvanized Each	Brass Each	Copper Each
With hinged top, for oil or electric	\$32.00	\$42.00	\$47.00
With hinge top, combination oil and electric	30.50	39.50	44.50
With flat top, for electric only as Fig. 32	25.00	34.00	39.00



Fig. 80

Regulation Draw Bridge Light

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made of heavy sheet metal, in accordance with regulations. Square frame, in which a 360 degree clear fresnel lens is set. Glass panels in frame on all sides, two red and two green, set in opposite sides to each other. Large size swivel fount, for oil lighting, which goes through bottom of light. Medium screw sockets used as standard electrical equipment.

Height overall, 18 inches
 Size of square, 11 1/4 inches
 Net weight, each, 18 pounds

Size of lens, 7 1/2 inches x 7 1/2 inches
 Size of glass panels overall 9 1/2 inches x 10 1/2 inches
 Size of glass panels exposed 8 1/4 inches x 8 1/2 inches

	Galvanized Each	Brass Each	Copper Each	Fount Only Each
	\$44.00	\$66.00	\$88.00	\$4.50

Extra glass panels, red and green, price each, \$2.00.
 For combination Oil and Electric, add \$2.50 to above prices.

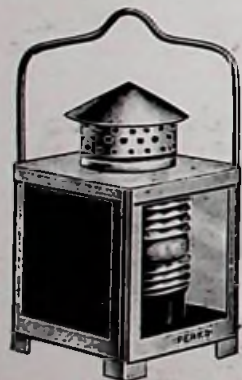


Fig. 63

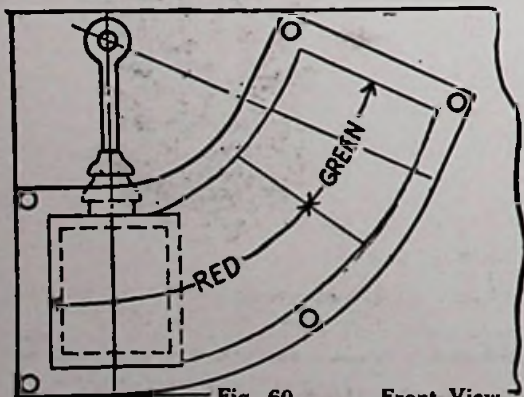


Fig. 60

Front View

Lift Bridge Lights

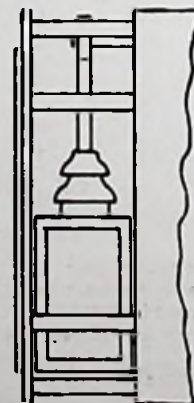
OIL OR ELECTRIC

COMPLETE AS ILLUSTRATED

Built to conform with Department of Commerce regulations on lift bridge lighting. Heavily made, well constructed.

Extreme height, 23 inches
 Extreme width, 30 inches

Oil or electric, galvanized
 Each \$165.00



Side View



CAST BRONZE BRIDGE AND PIER LIGHTS

Made in accordance with specification of U. S. Department of Commerce regulations for lighting of bridges and piers. Electric only with threaded cap for replacement of bulbs—waterproof. Medium screw sockets.

Pier Light

180 DEGREE RED LENS

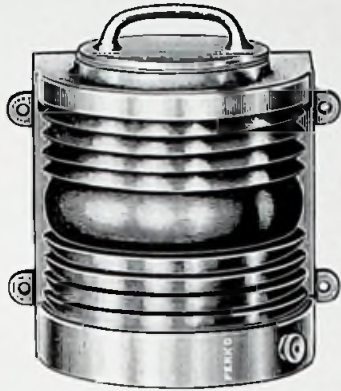


Fig. 1005

Height, less handle 9 3/8 in.
 Width, centers of holes 9 3/8 in.
 Height, centers of holes 5 1/2 in.
 Width base 8 1/4 in.
 Depth base 7 1/2 in.
 Opening in top 5 in.
 Height lens 7 3/8 in.
 Circum. lens at bull's eye 12 1/2 in.
 Weight 19 1/2 lbs.

Black nickel finish Each \$42.00
 Furnished with green lens when desired at same price.

Mid-Channel Light

360 DEGREE GREEN LENS



Fig. 1006

Height, less handle 9 1/2 in.
 Diameter body 8 in.
 Width, ends of guides 11 1/8 in.
 Size slot in guides 3/8 x 1 in.
 Opening in top 5 in.
 Height lens 7 1/8 in.
 Diameter lens 7 1/8 in.
 Weight 22 lbs.

Black nickel finish Each \$42.00

Draw Bridge Light

RED AND GREEN PANEL GLASSES
 360 DEGREE CLEAR LENS

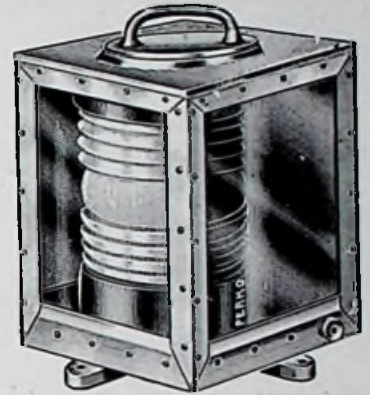


Fig. 1007

Height, less handle 11 1/2 in.
 Width of body 10 1/2 in.
 Depth of body 10 1/2 in.
 Width centers of holes 11 1/2 in.
 Height and width panels in clear 8 3/4 in.
 Opening in top 5 in.
 Height fresnel lens 7 1/8 in.
 Diameter fresnel lens 7 1/8 in.
 Weight 51 lbs.

Black nickel finish Each \$60.00
 Extra panel glasses 2.00

Pier Light

ON PEDESTAL
 180 DEGREE RED LENS



Fig. 125

Height overall 19 in.
 Diameter pedestal, pipe size 1 in.
 Diameter base 5 in.
 Other sizes, see Fig. 1005

Black nickel finish Each \$48.00

Obstruction Light

ON PEDESTAL
 360 DEGREE RED LENS



Fig. 126

Height overall 19 in.
 Diameter pedestal, pipe size 1 in.
 Diameter base 5 in.
 Other sizes, see Fig. 1006

Black nickel finish Each \$48.00

Lift Bridge Lights

180 DEGREE RED AND GREEN LENSES

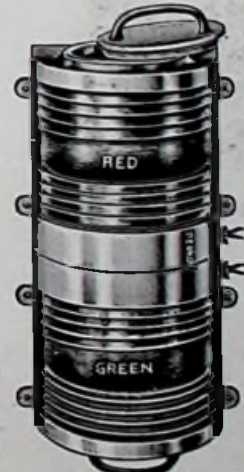


Fig. 127

Height overall 21 1/2 in.
 Other sizes, see Fig. 1005

Black nickel finish Each \$88.00

Shorter pedestals furnished if desired, price as above. Longer pedestals than standard, add \$.30 per inch.



Norwegian Regulation Running Lights

GUARANTEED TO PASS NORWEGIAN REGULATIONS ON RUNNING LIGHTS

Standard running lights of heavy construction for deep water vessels of Norwegian registry. Standard equipment consists of clear fresnel lens with colored glass shades on side lights, large oil fount, 14 ligne cosmos burner and chimney, back door on side, masthead and stern lights, hinged top on anchor lights.

TO BURN OIL OR ELECTRIC



Fig. 36



Fig. 37



Fig. 38



Fig. 39

Fig.		Size of Lens		Extreme Height of Frame Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. Inches						Galv.	Copper
36	Side Lights	7	12 1/4	21 1/2	14	9 1/2 x 12	37	Pair	\$65.00	\$115.00
37	Masthead Lights	7 1/2	21	21 1/2	14	11 x 11 1/4	27	Each	50.00	65.00
38	Stern Lights	7 1/2	10 1/4	21 1/2	14	10 1/4 x 9 1/4	17	Each	45.00	60.00
39	Anchor Lights	7 1/2	10 diam.	21 1/2	14	10 1/2 diam.	22	Each	45.00	60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

For combination oil and electric, add \$3.00 to above prices.
Extra colored shades with brass frame for side lights, price, each, \$3.50.

English Regulation Running Lights

GUARANTEED TO PASS INSPECTION OF THE BRITISH BOARD OF TRADE

Standard running lights of heavy construction for deep water vessels of British registry and according to specifications of the British Board of Trade. Standard equipment consists of high grade clear fresnel lens with colored glass shade in back of lens on side lights, English cone burner and chimney, as shown on page 46, heavy nickel plated reflector, T shaped bracket. Top of light opens on cast bronze hinge.

TO BURN OIL OR ELECTRIC



Fig. 40



Fig. 41



Fig. 48



Fig. 42

Fig.		Size of Lens		Extreme Height of Frame Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. Inches						Galv.	Copper
40	Side Lights	7	12 1/4	20 1/4	14 1/4	9 1/2 x 11 1/4	32	Pair	\$65.00	\$115.00
41	Masthead Lights	7 1/2	21	22	15 1/2	11 1/4 x 11 1/4	30	Each	50.00	65.00
48	Stern Lights	7 1/2	10 1/4	21 1/2	14	10 1/4 x 9 1/4	20	Each	45.00	60.00
42	Anchor Lights	7 1/2	10 diam.	20 1/2	14	10 1/2 diam.	24	Each	45.00	60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

For combination oil and electric, add \$5.00 to above prices.
Extra colored shades for side lights—Price, each, \$3.00.
Electric socket is standard Edison (medium screw base) or double contact English bayonet type.

DAY SIGNALS

All made of heavy, 8-ounce duck, double stitched, brass trimmings, folding ring on top and bottom, brass grommets, heavy galvanized rod through center, tinned wire ribs, all fold as illustrated.



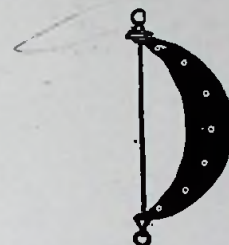
Fig. 169



Fig. 170



Fig. 171



Ball Folded



Fig. 172



Fig. 173



Frustrum Folded



Fig. 175



Fig. 176

Fig. No.		Diam. Inches	Height Inches	Weight Lbs.	Price Each
169	5 Black ball signal	24	24	2½	\$ 6.00
170	3 Red ball signal	24	24	2½	9.00
171	4 Black and white ball signal	24	24	2½	10.50
172	1 Black and white frustrum	24	48	5	30.00
173	2 Red frustrum	24	48	5	30.00
175	6 Clear towing light, galvanized	7½	17	9	15.50
176	7 Red towing light, galvanized	7½	17	9	19.00

RULES IN EFFECT ON DAY SIGNALS

The following signals we guarantee to cover law in confirmation with pilot rules of November 10, 1936. All of our Day Shapes are made of highest grade material and can be folded up when not in use and stowed away in a very small space.

RULE NO. 1—For vessels having submerged objects in tow, shall display in daytime one No. 1 shape and one No. 2 shape, and in the night, in addition to regulation lights, two Red No. 7 and two White No. 6 Towing Lights.

RULE NO. 2—For all style vessels fastened alongside of wrecks, or moored over a wreck, two of our No. 2 shapes are required during the day, and at night two of our No. 6 White and two of our No. 7 Red Towing Lights.

RULE NO. 3—Dredges in stationary positions require two of our No. 3 Red Balls during the day, and at night several of our No. 6 White Towing Lights and two of our No. 7 Red Towing Lights.

RULE NO. 4—For Self-Propelling Suction Dredges under way with their suction in the bottom, require during the day two of our No. 5 Black Balls, and during the night, in addition to regulation lights, two Red Mast Head Lights and two special Four Point Red Lights.

RULE NO. 5—For vessels which are moored or engaged in laying pipe on submarine construction during the day, one No. 4 Black and White Ball and one No. 3 Red Ball, and during the night three of our No. 7 Red Towing Lights.

RULE NO. 6—Vessels of more than 300 gross tons propelled by machinery when moored or anchored in a fairway or channel shall display one No. 5 shape.

OTHER USES AND REGULATIONS FOR DAY SIGNALS

ARTICLE 4-A INTERNATIONAL RULES—A vessel which from any accident is not under command shall carry by day two No. 5 shapes.

ARTICLE 4-B INTERNATIONAL RULES—A vessel employed in laying or in picking up telegraph cable shall carry by day two No. 3 Red shapes and one No. 1 shape all White in color.

ARTICLE 14 INTERNATIONAL RULES—A steam vessel proceeding under sail only but having her funnel up shall carry by day one No. 5 shape.

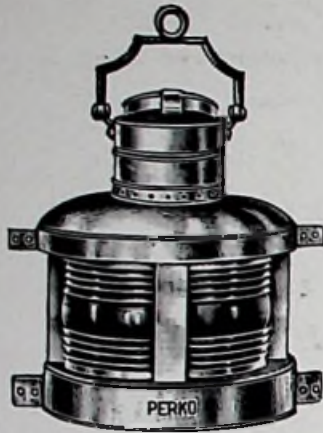


Fig. 62

Ferry Boat Side Lights

FOR DOUBLE END BOATS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made from heavy sheet metal, cast bronze handle. (Galvanized lamps are made from black steel and hot galvanized afterwards.) Brass and copper lamps formed from half hard or cold rolled. Two fresnel lenses (red and green), with inside partition dividing colors. Separate founts in each compartment, oil or electric. Has two back doors. Four lugs for fastening lamp. Made in two sizes.

Size of Lenses Inches	Extreme Height Inches	Size of Base Inches	Extreme Width Inches	Net Wgt. Each Lbs.	Extreme Height Flat Top Elec. Inches	Price Each	
						Galv.	Brass Copper
6 3/4 x 9	19	14 1/2 x 10	17 1/2	21	13	\$65.00	\$110.00 \$130.00
7 1/2 x 11 1/2	21 1/4	17 1/4 x 11 1/2	20 3/8	27	15 1/2	84.00	130.00 150.00

Can also be had with flat top—electric only, same price as above

For combination Oil and Electric, add \$3.00 to above prices.

Pilot House Lights—For Ferry Boats

ELECTRIC

Made of heavy gauge material with six glass panels 3/8 inches thick, installed in hexagon position. Glasses are insulated by rubber packing in frame.

One panel is a hinged door for easy access to interior. Furnished complete with two electric sockets, or according to specifications.



Fig. 61



Fig. 79

Fig. 61

No.	Polished Brass Each	Polished Copper Each	Height Overall Inches	Size of Glasses Inches	Diam. Base Inches	Weight Pounds
1	\$250.00	\$275.00	38	15x8 3/8	15	55
2	275.00	300.00	53 1/2	20x8 3/8	15	80

Fig. 79

3	80.00	24	10x3 3/8	8	10 1/2
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Anchor Staff or Pole Light

BRASS OR COPPER—ELECTRIC ONLY

With bail handle on top and bottom. medium screw base sockets, special fount held in place by pins and chain. Stuffing gland on bottom for wire outlet. Black nickel finish on brass or copper. Clear fresnel lens.



Fig. 16

Height Overall including Balls Inches	Size of Lens Inches	Height Overall less Balls Inches	Diam. Base Inches	Net Weight Each Lbs.	Price Each	
13 1/2	4 1/4 x 4 1/4	8 1/4	5 1/2	2 1/2	Brass \$12.00	Copper \$15.00

With colored lens (red, green or blue), add \$2.00 to above prices.

Western Trap Lantern

OIL BURNING
WITH 8 DAY CAPACITY OIL FOUNT

Also used as stake light, post light, or anchor light.

Galvanized body with cast bronze fittings, a clear 8 inch fresnel lens, galvanized fount and a special zenith burner with gear control for operating wick from bottom of fount.



Fig. 14

With Clear Lens Each	With Colored Lens Each	Extreme Height Inches	Diam. Bottom Inches	Size Lens Inches
\$46.00	\$51.00	22	10	7x8

Colored Lenses are Red, Green or Blue

Oil Fount complete with gears and burner \$20.00 each. Capacity of fount, 6 pints.

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 137

With gimbal arrangement, cast bronze wall plate and removable fount. No. 2 burner and chimney.

No.	Polished Each	Chrome Plated Each	Height Inches	Exten- sion Inches	Capacity Fount Pints	Wall Plate Inches
2	\$8.75	\$11.00	14	8½	1½	4 3/8 x 2

Maine Cabin Lamp

STIFF BRACKET—NON SWING
ALL BRASS



Fig. 136

With cast bronze bracket riveted to body, removable fount. No. 2 burner and chimney.

No.	Polished Each	Chrome Plated Each	Height Inches	Exten- sion Inches	Capacity Fount Pints	Wall Plate Inches
2	\$7.25	\$9.50	12	8	1½	3 x 1 7/8

Smoke Bell and Arm

SPUN BRASS BELL—CAST BRASS ARM



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounces
Midget	\$1.25	\$2.25	4	3½	3½
1	1.25	2.25	4	3¾	4
2	1.25	2.25	4	4	4
3	1.25	2.25	6¼	5¾	6½
4	1.25	2.25	6¼	6½	7

No. 3 size is for lamp Fig. 136.
No. 4 size is for lamp Fig. 137.

Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 141

The ideas in construction of this lamp were suggested by Sparkman & Stevens, famous yacht designers.

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Furnished with burner, wick and chimney. Diameter of wall plate 2¾ inches.

No.	Polished Brass Each	Chrome Plated Each	Height Inches	Exten- sion Inches	Capacity Fount Pints	Burner Number
Midget	\$6.00	\$8.50	9	5	½	1
1	6.25	8.75	12 1/8	5 1/2	1	1
2	7.00	9.50	12 1/2	6	1 1/4	2

Universal Wall Lamp

HEAVY TIN PLATE



Fig. 312

Constructed of heavy tin plate, black Japanned fount, polished tin reflector, handle for carrying. Furnished complete with No. 2 burner, Fig. No. 248, wick, and No. 2 sun chimney, Fig. No. 268. Hole in reflector for hanging on wall.

Each Complete	Height of Back Inches	Diam. of Fount Inches	Weight Each Lbs.
\$2.50	9	5	1½



New "Brightlite" Dome Lights

OPEN SIDES FOR BETTER ILLUMINATION
HOLOPHANE OR FROSTED GLOBE
BRASS—CHROMIUM PLATED



Shallow—Fig. 1147



Deep—Fig. 1148

These were designed to give better illumination at a lower price.

Globe is held in place by three bronze springs and is easily removed for cleaning or replacement of bulb.

Furnished complete with double contact socket. Toggle switch and holophane or frosted globe.

No.	Chromium Plated Each	Diam. Globe Inches	Depth Inches	Diam. Base Inches	Type Globe
1	\$3.30	4	Shallow 1 3/4	5 1/2	Holophane
2	3.30	4	Shallow 1 3/4	5 1/2	Frosted
3	3.30	4	Deep 3	5 1/2	Holophane
4	3.85	5	Shallow 2	6 1/2	Frosted
5	3.85	5	Deep 3	6 1/2	Holophane

"Brightlite" Cabin Fixture

WROUGHT BRASS—ELECTRIC
FOR BULKHEAD OR CEILING



Fig. 578

Constructed entirely of brass, with frosted glass panels. Front of fixture containing the glass panels is hinged at one end and held securely closed by neat eye hook.

Interior is immediately accessible for changing of bulbs. No screws to remove and lose. All furnished with toggle switch.

No. 1. Furnished with one double contact socket. Will accommodate up to 50 C. P. bulb.

No. 2. Furnished with two double contact sockets and 3 way switch. Will accommodate up to two 50 C. P. bulbs.

No.	Polished Brass Each	Chromium Plated Each	Length Inches	Width Inches	Depth Inches
1	\$3.50	\$4.25	5	3	1 3/4
2	4.50	5.50	5 1/2	3 1/8	2 3/8

Dome Lights

CAST BRONZE

With improved toggle switch and nickel plated reflector. Globe held in place by threaded collar and protected from breakage by two rubber gaskets.

Nos. 1, 3 and 5 fitted with double contact socket.
Nos. 2, 4 and 6 fitted with standard screw socket.

WITH DEEP HOLOPHANE GLOBE



Fig. 454

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.
1	5	3	4	2 1/4
2	8	4 1/4	6	4 1/2
No. 1		Polished Bronze Each		Chromium Plated Each
1		\$ 7.25		\$ 8.25
2		11.00		12.50

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.
3	5	1 1/4	4	2 1/4
4	8	2 1/4	6	4 1/4
No. 3		Polished Bronze Each		Chromium Plated Each
3		\$ 7.25		\$ 8.25
4		11.00		12.50

WITH SHALLOW FROSTED GLOBE



Fig. 460

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.
5	5	1 1/4	4	2
6	8	2 1/4	6	4
No. 5		Polished Bronze Each		Chromium Plated Each
5		\$ 7.25		\$ 8.25
6		11.00		12.50

Dome Lights No. 2 and 4 will accommodate a 50 watt A-19 bulb. No. 6 a 15 watt A-17 bulb.

Dome Lights

WITH HOLOPHANE GLOBES
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 294

Wrought Brass with Nickel Plated Reflector.

Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches
3	\$2.85	\$4.00	4 1/4	1 3/4
4	3.50	4.50	5 1/2	1 7/8
5	4.00	5.00	6 3/8	2 3/4
6	5.00	6.00	7 1/2	2 3/4

Dome Lights

WITH FROSTED GLOBES
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 296

Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches
3	\$2.85	\$4.00	4 1/4	1 3/4
4	3.50	4.50	5 1/2	1 7/8
5	4.00	5.00	6 3/8	2 3/4
6	5.00	6.00	7 1/2	2 3/4

Dome Lights

WITH OPAL GLOBES—TOGGLE SWITCH
DOUBLE CONTACT OR STANDARD SCREW SOCKET



Fig. 385

With Double Contact Socket

No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
7	\$3.50	\$4.75	6	4 1/4	2 1/4
8	4.75	5.75	7	5 1/2	2 3/4

With Standard Screw Socket

No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
9	5.00	6.00	7	5 1/2	2 3/4

Bulb with standard screw base for this light, see Fig. 8.

Dome Lights

WITH FROSTED GLOBES
TOGGLE SWITCH—STANDARD SCREW SOCKETS

Wrought brass without flange for installation in narrow places or with flange where desired.

Nickel plated reflectors wired ready for installing.

Will allow use of single 75 watt bulb or two 50 watt bulbs.

WITH FLANGE



Fig. 753

With Single Socket

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$10.00	\$11.50	9 3/8	8	3

With Two Sockets and 3 Way Switch

11.00	12.50	9 3/8	8	3
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WITHOUT FLANGE



Fig. 754

With Single Socket

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$8.50	\$ 9.75	7 1/2	8	3

With Two Sockets and 3 Way Switch

9.50	10.75	7 1/2	8	3
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Double Ceiling Fixture

CAST BRONZE—STANDARD SCREW SOCKETS
WITH TOGGLE SWITCH



Fig. 451

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Extension from Ceiling Inches
\$5.50	\$6.75	3 1/2 x 2	2 3/8

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS SPECIFY VOLTAGE AND CANDLEPOWER.

ELECTRIC CABIN FIXTURES

WITH STANDARD SCREW SOCKETS
FOR 6-12-32 OR 110 VOLTS

Round Base Pattern

WITH PUSH BUTTON SWITCH—SPUN BRASS



Fig. 308

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$1.90	\$2.50	2½	2½	3	6

Oval Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 516

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$3.00	\$3.75	2¾x2¾	2½	2¾	8

Square Base Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 450

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$2.75	\$3.35	2x2	2	2¾	12

Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projection less Lamp Inches
\$4.50	\$5.50	4½x2¾	2¾

Square Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 689

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Pounds
\$3.00	\$3.75	2x2	2½	2¾	¾

Junior Fixtures

WITH DOUBLE CONTACT SOCKET
TURN SWITCH—CAST BRONZE



Fig. 605

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches
\$2.75	\$3.25	1¾x1¾	2	2

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND CANDLEPOWER, FROSTED OR CLEAR.



Berth Light

OPAL GLOBE
WITH DOUBLE CONTACT OR STANDARD
SCREW SOCKET
TOGGLE SWITCH—CAST BRONZE



Fig. 416

Brush Bronze Finish Each	Chromium Plated Each	Globe Only Each	Length Inches	Width Inches	Diam. Globe Inches
\$8.50	\$11.50	\$1.25	6	4	2 3/4

Bulb with standard screw base for this light, see Fig. 8.

Watertight Hand Portables

CAST BRONZE OR CAST ALUMINUM
COMPOSITION STANDARD SCREW SOCKET



Fig. 1180

Furnished complete with screw type vaporproof globe, threaded guard, hardwood handle and packing gland at cable entrance.

No.	Bronze Each	Aluminum Each	Wattage	Overall Length Inches	Length Globe Inches
1	\$7.00	\$9.00	25	13 1/2	4
2	7.00	9.00	60	15 1/2	6

Enclosed Berth Lights

CAST BRONZE—NON WATERTIGHT
WITH STANDARD SCREW SOCKET



Fig. 1182

Has top and bottom inside bases for 1/2 inch terminal tubes.

Furnished complete with bakelite socket, and toggle switch.

Plain Each	Polished Each	Chromium Plated Each	Length Inches	Extreme Width Inches	Diam. Globe Inches
\$6.00	\$8.50	\$11.50	6 1/2	4 3/8	2 3/4

Portable Hand Lamp

WOOD HANDLE—NICKEL PLATED PARTS
DOUBLE CONTACT SOCKET



Fig. 1181

Furnished with 10 feet of rubber covered wire, double contact plug and 6 or 12 volt 15 C. P. bulb.

Each	Overall Length Inches	Length Handle Inches	Weight Ounces
\$2.00	8	4	7

6 volt furnished unless otherwise specified.

Dashboard Lamp

BRASS—NICKEL PLATED
WITH SWITCH

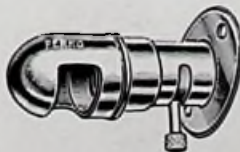


Fig. 184

A neat lamp for use on dashboards of runabouts, or any place where a small lamp of this type can be used. Edison double contact socket.

Each	Height Overall Inches	Size Base Inches	Weight Each Oz.
\$1.00	2 5/16	1 1/8 x 1 1/2	1 1/2

Portable Hand Lamp

NICKEL PLATED BRASS BODY—WOOD HANDLE

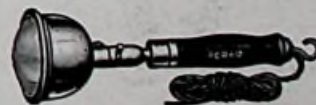


Fig. 389

Has 3 inch diameter magnifying lens and double contact socket—furnished complete with switch, 21 C. P. bulb 6 volt, 10 ft. wire and plug.

Length overall, 10 inches, Each\$3.25



"Perko" Brass Swivel Founts

FOR DE-LITE RUNNING LIGHTS
CLASSES 1, 2 AND 3

Oil Fount



Fig. 582

For class 1 combination, class 2 and 3 side and bow lights. Body is stamped in one solid piece, no seam for leaks to develop. Brass rivets on side to lock fount in lamp. No springs to break off.

Net weight, each, 4 ounces

Diameter of fount, 2 3/4 inches

Oil fount only, Fig. 582
Oil fount and burner, complete
Electric fount (medium screw base), Fig. 588

Each
\$.75
.90
1.10

Edison Electric Fount



Fig. 588

Brass Spring Founts

FOR OLD STYLE RUNNING LIGHTS
CLASSES 1, 2 AND 3

Oil and Electric Fount



Fig. 733

Oil Fount



Fig. 286

Oil and Electric Fount



Fig. 736

Ediswan Fount Double Contact



Fig. 291

Edison Fount Medium Screw Base



Fig. 292

Fig. 733 for Fig. 1 Combination Lights, the balance illustrated are for Classes 2 and 3 Side and Bow Lights. Fig. 06 Anchor Lights, 8 inch Globe Lights and Navy Lanterns.

	Each	Diameter Overall Inches	Diam. Opening in Light Inches	Net Weight Per Dozen Lbs.
Fig 286—Oil founts	\$.75	3 3/4	3 3/16	1 1/2
Fig. 291—Ediswan founts	1.10	3 3/4	3 3/16	2
Fig. 292—Edison founts	1.10	3 3/4	3 3/16	2
Fig. 290—Candelabra founts	1.10	3 3/4	3 3/16	2
Fig. 736—Oil and Electric founts	1.65	3 3/4	3 3/16	4 1/2
Fig. 733—Oil and Electric founts	1.65	3 1/2	3 5/8	3 3/4
Fig. 733—For Oil only	.75	3 1/2	3 5/8	3

Brass Swivel Founts

FOR CLASS 1 STERN LIGHT AND 6 INCH GLOBE LIGHTS

Oil and Electric Fount



Fig. 735

Oil Fount



Fig. 287

Ediswan Fount Double Contact



Fig. 293

Edison Fount Medium Screw Base



Fig. 274

	Each	Diameter Overall Inches	Diam. Opening in Light Inches	Net Weight Per Dozen Lbs.
Fig. 287—Oil fount	\$.75	4 1/2	4	4
Fig. 293—Ediswan fount	1.10	4 1/2	4	4
Fig. 274—Edison fount	1.10	4 1/2	4	4
Fig. 735—Oil and Electric fount	1.65	4 1/2	4	4 1/2



FOUNTS FOR LIGHTS For Vessels Over 65 Feet Long

All made of heavy gauge brass or copper. Swivel founts have brass bar passing through sides and across bottom to hold fount in lamp and act as handle for turning. All oil founts are for No. 2 burners.

Swivel Type

Oil Fount



Fig. 282

One Light Electric
Standard Edison Socket

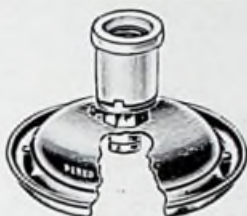


Fig. 288

Two Light Electric
Standard Edison Sockets



Fig. 289

3 Wire Electric
Mogul Socket



Fig. 1082

No.	Fig. 282		Fig. 288		Fig. 289		Fig. 1082		Diam. Base Inches	Diam. Opening in Light Inches
	Brass Each	Copper Each	Brass Each	Copper Each	Brass Each	Copper Each	Brass Each	Copper Each		
2	\$1.10	\$1.75	\$1.75	\$2.25			\$3.25	\$3.75	4 3/4	3 3/4
3	1.75	2.25	2.25	2.75	\$3.00	\$3.50	3.50	4.00	5 3/4	4 3/4

Above founts are for the following lights.

SIDE LIGHTS			MASTHEAD LIGHTS			STERN LIGHTS			ANCHOR LIGHTS			N.U.C. LIGHTS	
Fount No.	Fig.	Size	Fig.	Size	Fig.	Size	Fig.	Size	Fig.	Size	Fig.	Size	
2	21	8-9-10	982	1-2	985	4-5	23	22-22 1/2	29	84-85			
3	21	11	982	3	985	6	23	23	29	86			
2	30	109-110	983	1-2	986	4-5	26	84-85	84	122-122 1/2			
3	30	111	983	3	986	6	26	86	84	123			
2	1155	1-2	1156	1-2	1157	1-2	32	122-122 1/2	129	22-22 1/2			
3	1155	3	1156	3	1157	3	32	123	129	23			
2	1170	162-163	1171	165-166	1172	168-169	1158	1-2	1159	1-2			
3	1170	164	1171	167	1172	170	1158	3	1159	3			

SLIDING FOUNTS

FOR BACK DOOR LIGHTS ON PAGE 34

Oil Fount

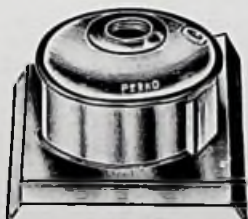


Fig. 284

One Light Electric
Standard Edison Socket



Fig. 281

Two Light Electric
Standard Edison Sockets



Fig. 285

3 Wire Electric
Mogul Socket



Fig. 1081

No.	Fig. 284		Fig. 281		Fig. 285		Fig. 1081		Width of Base on Top Inches	Length of Base on Top For Side Lights Inches	Length of Base on Top For Masthead and Stern Lights Inches
	Brass Each	Copper Each	Brass Each	Copper Each	Brass Each	Copper Each	Brass Each	Copper Each			
1	\$2.75	\$3.50	\$2.75	\$3.50	\$3.50	\$4.25	\$5.00	\$5.75	4 1/4	5 1/4 x 4 3/4	4 3/4
2	2.75	3.50	2.75	3.50	3.50	4.25	5.00	5.75	4 3/8	6 x 5 1/4	5 1/4
3	2.75	3.50	2.75	3.50	3.50	4.25	5.00	5.75	5 3/4	8 1/2 x 7 1/4	7 1/4

Fount No. 1 is for No. 62 side lights, No. 1 masthead lights and No. 4 stern lights.
 Fount No. 2 is for No. 63 side lights, No. 2 masthead lights and No. 5 stern lights.
 Fount No. 3 is for No. 64 side lights, No. 3 masthead lights and No. 6 stern lights.
 Fount No. 3 is also used in Fig. 59 Pier Lights.

Marcy Hinge Burners

ALL BRASS—HEAVY PATTERN



Fig. 242

Standard equipment on all cabin lamps, American improved running lights, bulk-head lamps, etc.

No.	Per Dozen	Diam. Thread Inch	Wick Inch
1	\$8.75	7/8	5/8
2	8.75	1 1/4	7/8

Marcy Lip or Dual Chimneys



Fig. 267

No.	Per Dozen	Height Inches	Diam. Bottom Inches
1	\$5.50	4 1/2	1 3/8
1	5.50	5	1 3/8
1	5.50	6	1 3/8
2	6.60	5	2 1/8
2	6.60	5 1/2	2 1/8
2	6.60	6	2 1/8

Specify height of chimney when ordering.

Brass Burners



Fig. 246

No.	Per Dozen	Diam. Thread Inch	Wick Inch
0	\$1.90	7/8	1/2
1	2.10	7/8	5/8
2	3.20	1 1/4	7/8

No. 0 used in Class 1 lights.
No. 1 used in Class 2 and 3 lights.
No. 2 used in larger lights.

Eagle Chimney and Burner



Fig. 268

Used on Wall Lamp
Fig. 312



Fig. 248

No.	Chimneys Per Dozen	Burners Per Dozen	Chimney Size Inches	Burner Thread Inches
2	\$6.60	\$5.00	2 1/8 x 7 1/2	1 1/4

Wicks



Fig. 302

	Per Dozen
Flat Wicks, No. 0, 1/2 inch wide	\$.30
Flat Wicks, No. 1, 5/8 inch wide	.35
Flat Wicks, No. 2, 7/8 inch wide	.45

Long Time Burner and Chimney

HEAVY BRASS

Used on 10 Day Anchor Lights, Fig. 596



Fig. 245



Fig. 272

Burners Per Dozen	Chimneys Per Dozen	Wicks Per Dozen	Height Chimney Inches	Diameter Chimney Inches
\$13.20	\$6.60	\$1.50	1 3/4	1 1/2

Engineer's Lantern Globes

Standard equipment in our engineer's lantern, Fig. No. 50.

Diameter of top	2 5/8 in.
Diameter of bottom	2 3/8 in.
Height overall	4 1/4 in.
Net weight, per dozen	6 lbs.

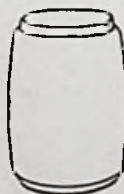


Fig. 263

Clear Per Doz.	Ruby Per Doz.	Green Per Doz.	Blue Per Doz.
\$3.50	\$9.00	\$9.00	\$9.00

Colored globes are solid colors, not painted.

Globe Light Globes

Used in Globe Lights Fig. 44.

Colored globes are red, green and blue, solid colors not painted. Frosted globes can also be furnished.



Fig. 264

Size	Clear Each	Frosted or Colored Each	Diameter—		Height Overall Inches
			Top	Bottom	
6	\$1.65	\$3.65	3 1/8	3 1/8	6 3/16
8	2.75	4.75	4	4	7 1/2
10	4.50	6.50	5 3/8	5 3/8	10 1/8

Navy Lantern Globes

This globe is standard equipment in Navy lantern, Fig. No. 49.

Diameter of top	2 1/2 inches
Diameter of bottom	4 inches
Height overall	6 1/2 inches
Net weight, per dozen	9 pounds

Clear Per Doz.	Ruby Per Doz.	Green Per Doz.	Blue Per Doz.
\$5.50	\$18.00	\$18.00	\$18.00

Colored globes are solid colors, not painted.



Fig. 262

33 1/3 - 20



Mirror Reflectors

PARABOLIC

High grade parabolic mirrors designed for long distance projection of concentrated beam of light.

Standard equipment in "PERKO" Searchlights, Figs. 480, 297, 529.



Fig. 427

	Each
8 inch diameter	\$20.00
10 inch diameter	22.00
12 inch diameter	27.50
14 inch diameter	37.50

Metal Reflectors

Made of heavy gauge brass, heavily plated and designed for projecting a powerful beam of light. Standard equipment in our "BEAM" Searchlights, also Fig. 548.



Fig. 428

	Each
4 3/4 inch diameter	\$2.20
6 1/8 inch diameter	4.20
7 7/8 inch diameter	4.70
10 inch diameter	8.25

Convex Front Lens

FOR SEARCHLIGHTS

Standard equipment in our "BEAM" Searchlights and Streamline Searchlight, Fig. 548.



Fig. 429

	Each
4 7/8 inch diameter	\$.90
6 inch diameter	1.10
7 3/4 inch diameter	1.10
10 inch diameter	3.00

Reflectors for Sliding Founts

BRASS-NICKEL PLATED

Used on sliding founts for back door side light Fig. 24.

Reflectors for masthead and stern lights Figs. 981 and 984 have bracket on back of same for mounting on inside of door.



Fig. 22

Each	Diameter Inches	Width Bracket Inches	Length Bracket Inches
\$2.50	6	3/4	3

Color Shield

**FOR COMBINATION LIGHTS
DIVIDES RED AND GREEN LENSES**

Used on class 1 combination lights, Fig. No. 01, 010, etc.

Made of heavy gauge brass or galvanized iron.



Fig. 130

Galvanized Each	Polished Brass Each
\$.55	\$.80

T Brackets

FOR LARGE SIZE RUNNING LIGHTS

Made of cast iron, hot galvanized. Standard equipment on large size running lights. Height overall, 7 1/4 inches, width overall, 5 1/2 inches, width bracket, 2 1/2 inches.

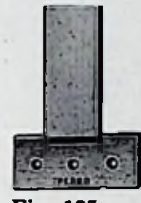


Fig. 135

Galvanized Cast Iron, Each \$1.10

Brackets

**FOR MOUNTING RUNNING LIGHTS
MADE OF HEAVY GALV. IRON OR BRASS**

No. 1—For classes 1, 2 and 3 lights.
No. 2—For intermediate size lights.



Fig. 131

No.	Galvanized Each	Brass Each	Width Inches	Height Inches
1	\$.35	\$.55	1 1/2	4 1/8
2	.55		2	6 3/8

Brackets

For mounting Royal Lights Fig. 89 to 92, inc.
For mounting Battery Lights, Fig. 1010, etc.



Fig. 25

Galv. Each	Brass Each	Height Inches	Inside Width Inches
\$.30	\$.40	1 1/4	1 1/4

**Anchor Light Bracket
FOR RIGGING—CAST BRONZE**



Fig. 356

A cast bronze arrangement whereby the weight of the anchor light furnishes sufficient leverage to hold and stay in any part of the rigging it is desired. Furnished complete with snap hook and two lanyard eyes for hoist and release.

Each	Length Inches	Weight Ounces
\$2.00	5	9

Fresnel Ball Globes

1 1/2 INCH DIAMETER

With threaded brass ferrule, spun on globe, as illustrated. For pole lights, Fig. Nos. 600, 601, 602, 603, 846.



Fig. 604

Outside diameter 1 3/8 in.
Height overall 1 1/2 in.
Diameter of opening 3/4 in.
Net weight, each 1 oz.

Clear Each	Ruby Each	Green Each	Blue Each
\$.60	\$.90	\$.90	\$.90

2 1/2 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Fig. Nos. 482, 491, 498, 506, 422.



Fig. 250

Outside diameter 2 1/2 in.
Height overall 2 5/8 in.
Diameter of opening 1 1/2 in.
Diameter of thread 2 in.
Net weight, each 6 ozs.

Clear Each	Ruby Each	Green Each	Blue Each
\$.85	\$1.10	\$1.10	\$1.10

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Fig. Nos. 508, 422, 498, 506.



Fig. 251

Outside diameter 3 in.
Height overall 3 in.
Diameter of opening 1 1/2 in.
Diameter of thread 2 in.
Net weight, each 7 ozs.

Clear Each	Ruby Each	Green Each	Blue Each
\$.85	\$1.10	\$1.10	\$1.10

3 INCH DIAMETER

With threaded base and rubber gasket. For mast lights, Figs. 103, 104, 105.



Fig. 249

Outside diameter 3 in.
Height overall 3 3/8 in.
Diameter of opening 2 1/4 in.
Diameter of thread 2 3/4 in.
Net weight, each 10 ozs.

Clear Each	Ruby Each	Green Each	Blue Each
\$1.00	\$1.40	\$1.40	\$1.40

4 1/4 INCH DIAMETER

With threaded base, as illustrated, for mast lights, Fig. Nos. 564, 565.



Fig. 252

Outside diameter 4 1/4 in.
Height overall 3 3/8 in.
Diameter of opening 2 7/8 in.
Diameter of thread 3 in.
Net weight, each 10 ozs.

Clear Each	Ruby Each	Green Each	Blue Each
\$1.20	\$1.75	\$1.75	\$1.75

3 1/2 INCH DIAMETER

With threaded base for mast and stern lights, Figs. 112, 113, 309.



Fig. 106

Outside diameter 3 1/2 in.
Height overall 5 in.
Diameter of opening 2 3/4 in.
Diameter of thread 3 3/8 in.
Net weight, each 1 1/4 lbs.

Clear Each	Ruby Each	Green Each	Blue Each
\$1.35	\$2.50	\$2.50	\$2.50

Special Mast Light Globe

2 1/2 INCH DIAMETER

With threaded base as illustrated for mast lights Figs. 488, 489.



Fig. 77

Outside diameter 2 1/2 in.
Height overall 5 1/2 in.
Diameter of opening 1 7/8 in.
Diameter of Thread 2 1/2 in.
Net Weight Each 13 oz.

Clear Each	Ruby Each	Green Each	Blue Each
\$.90	\$2.20	\$2.20	\$2.20

Holophane Dome Glasses

SHALLOW

DEEP



Fig. 257

Fig. 258

Fig. 257 for Dome Lights Figs. 294, 555 and 1147.

Fig. 258 for Dome Lights Figs. 454 and 1148.

Trade Size Inches	Fig. 257 Each	Fig. 258 Each	Diam. Overall Inches	Fig. 257 Depth Inches	Fig. 258 Depth Inches
3	\$.65		2 7/8	3/8	
4	.80	\$.80	4	3/8	1 3/4
5	1.00		5	1 1/2	
6	1.50	3.00	6	1 3/8	2 3/4

Frosted Dome Glasses

SHALLOW



Fig. 132

For Dome Lights Figs. 296, 460, 753, 754.

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$.70	2 7/8	3/8
4	.80	4	3/8
5	1.00	5	1 1/2
6	1.60	6	1 3/8
8	2.00	7 3/4	7/8

Ribbed Opal Dome Glasses



Fig. 133

For Dome Lights, Fig. 385.

Outside Diam. Inches	Each	Extreme Depth Inches
4 1/4	\$1.35	1 1/8
5 3/8	2.10	1 3/8

Opal Globe WITH FLANGE



Fig. 31

For Berth Light Fig. 416

Diameter Overall Inches	Each	Extreme Depth Inches
2 3/4	\$1.00	1 1/2

Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS 112½ DEGREES

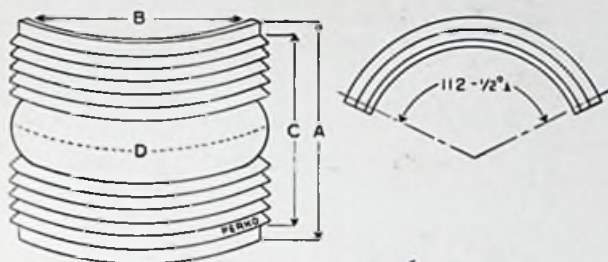


Fig. 259

For	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
O. B. Comb.	2 ⁰ / ₁₆	1 ¾	2 1/8	3		\$.60
Cl. 1 Comb.	3 ⁰ / ₁₆	2 ⁰ / ₁₆	2 7/8	3 5/8	\$1.10	.90
Cl. 2 Side	4 1/4	3 ⁰ / ₁₆	3 11/16	4 3/4	1.65	1.25
Cl. 3 Side	5 ⁰ / ₁₆	3 11/16	4 3/8	5 ⁰ / ₁₆	2.20	1.50
No. 8 Side	5 1/2	4 ¹ / ₁₆	4 11/16	5 7/8		3.00
No. 9 Side	5 5/8	5 7/8	4 11/16	8 ¹ / ₁₆		4.00
No. 10 Side	6 3/4	6	6	8 3/4		4.50
No. 11 Side	7 1/2	8 ⁰ / ₁₆	6 11/16	11 ⁰ / ₁₆		8.75
Eng. or Nor.	7	9	6	12 3/8	9.00	

FOR ANCHOR LIGHTS—360 DEGREES

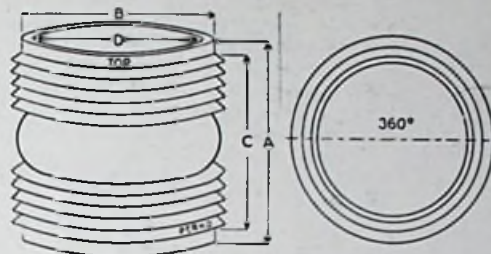


Fig. 261

For	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Cl. 1 Stern	3 ⁰ / ₁₆	3 ⁰ / ₁₆	2 7/8	2 3/4	\$.85	\$1.25
Cl. 2 and 3	4 1/4	4	3 ⁰ / ₁₆	3 ⁰ / ₁₆	1.25	1.80
No. 22 Anchor	5 ⁷ / ₁₆	5 1/4	4 11/16	4 11/16	3.50	6.00
No. 22 1/2 Anchor	6 3/4	5 1/4	6	4 3/4	4.50	7.75
No. 23 Anchor	7 ¹ / ₁₆	7 ¹ / ₁₆	6 ¹ / ₁₆	6 7/8	6.00	11.50
Eng. or Nor.	7 1/2	9 ⁰ / ₁₆	6 3/4	8 ⁰ / ₁₆	17.00	

FOR MASTHEAD LIGHTS—225 DEGREES

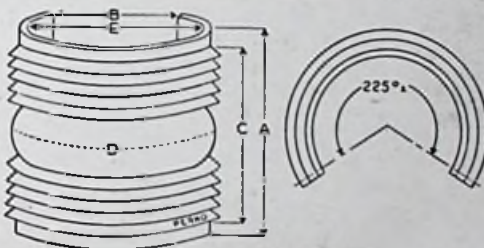


Fig. 256

For	A In.	B In.	C In.	D In.	E In.	Clear Each	Red or Green Each
No. 1 Masthead	5 1/2	4 3/8	4 11/16	11 11/16	4 3/4	\$6.00	\$8.00
No. 2 Masthead	6 5/8	4 3/8	5 7/8	11 11/16	4 3/4	7.00	9.00
No. 3 Masthead	7 1/16	6 1/8	6 1/16	16 ⁰ / ₁₆	6 7/8	9.00	15.00
Eng. or Nor.	7 1/2	7 5/8	6 3/4	19 ⁰ / ₁₆	8 1/4	17.00	

FOR BOW LIGHTS—180 DEGREES

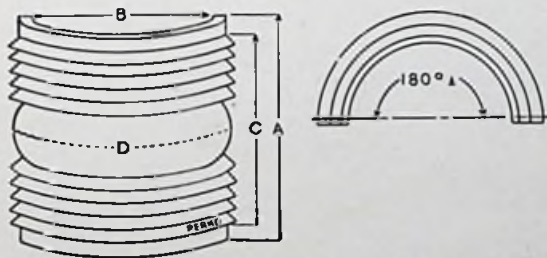


Fig. 260

For	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Cl. 1 Bow	3 ¹ / ₁₆	2 ⁰ / ₁₆	2 11/16	5 3/8	\$1.25	\$2.00
Cl. 2 Bow	4 1/4	3 1/4	3 5/8	6 3/8	1.25	2.00
Cl. 3 Bow	5 ⁰ / ₁₆	3 7/8	4 ⁰ / ₁₆	7 11/16	1.50	2.50
No. 14 Bow	5 5/8	4 3/4	4 7/8	9 ¹ / ₁₆	4.50	5.50
No. 15 Bow	6 11/16	4 3/4	5 11/16	9 ¹ / ₁₆	5.50	7.00
No. 16 Bow	7 3/8	6 7/8	6 3/8	12 5/8	6.50	9.00

FOR STERN LIGHTS—135 DEGREES

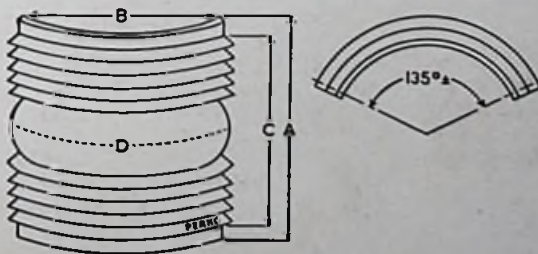


Fig. 269

For	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
No. 4 Stern	5 1/2	4 3/8	4 7/8	6 11/16	\$6.00	\$7.00
No. 5 Stern	6 1/2	4 3/8	5 5/8	6 11/16	7.00	8.00
No. 6 Stern	7 3/8	6 ¹ / ₁₆	6 3/8	9 1/4	9.00	11.00
Eng. or Nor.	7 1/2	7 3/8	6 5/8	10 ⁰ / ₁₆	11.00	

DIMENSIONS SUBJECT TO GOVERNMENT STANDARD TOLERANCES—PLUS OR MINUS

Mazda Lighting Bulbs



Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
G-6	3/4	1 1/4
S-8	1	2
S-10	1 1/4	2 1/4
S-11	1 3/8	2 3/8



Fig. 340

Bulb No.	Diam. Inches	Length Overall Inches
A-17	2 1/8	3 3/8
A-19	2 3/8	3 1/2
A-21	2 5/8	4 1/4

Volts	Candle Power	No.	Base	Price Each Clear
6-8	3	G-6	D. C.	\$.16
6-8	6	G-6	D. C.	.18
6-8	15	S-8	D. C.	.28
6-8	21	PR-11	D. C.	.30
6-8	32	PR-11	D. C.	.50
6-8	50	S-11	D. C.	.80
12-16	3	G-6	D. C.	.28
12-16	6	G-6	D. C.	.35
12-16	15	S-8	D. C.	.36
12-16	21	S-10	D. C.	.50
12-16	32	PR-11	D. C.	.70
12-16	50	PR-11	D. C.	1.00
32	3	G-6	D. C.	.75
32	6	G-8	D. C.	.80
32	15	S-8	D. C.	1.00
32	21	S-10	D. C.	1.20
32	32	PR-11	D. C.	1.40
32	50	PR-11	D. C.	1.80
110	6 watt	S-8	D. C.	1.00

Packed, 10 bulbs to a box.

FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.	Diam. Inches	Length Overall Inches	Price Each Clear	
S-11	1 3/8	2 3/8		
Volts	No.	C. P. or Watts	Base	Price Each Clear
6-8	S-11	21	Medium	\$1.00
12-16	S-11	21	Medium	1.10
32	S-11	15	Medium	1.80
120	S-11	15	Medium	1.50
120	S-6	6 Candelabra		.50

Packed, 20 bulbs to a box.

Volts	Watts	No.	Base	Clear Each	Frosted Each	Natural Blue Each
6	15	A-17	Medium	\$.75	\$.60	\$1.50
6	25	A-19	Medium		.60	
6	50	A-21	Medium		.80	
12	15	A-17	Medium	.75	.60	1.50
12	25	A-19	Medium		.60	
12	50	A-21	Medium		.80	
32	15	A-17	Medium	.75	.50	1.50
32	25	A-19	Medium		.50	
32	50	A-21	Medium		.60	
110	25	T-10	Medium	.60		

Packed, 6 bulbs to a package.

New Double Filament Bulb

MOGUL BASE FOR THREE WIRE SYSTEM
120 VOLTS



Fig. 532

Eliminates the method of using two separate bulbs in two light electric installations. Lamps are always properly focused.

Should one filament burn out it will be indicated on the telltale panel, the other filament can be immediately switched into use.

Watts	Each	Height Overall Inches	Diam. Inches
50-50	\$4.80	5	3 1/8
100-100	5.00	5	3 1/8

Packed, 6 bulbs to a package.

Mazda Searchlight Bulbs

Volts	Watts	Candle Power	No.	Base	Diam.	Length Overall	Price Each
6-8		32	PR-11	D. C.	1 1/4	2 1/8	\$.50
6-8		50	PR-11	D. C.	1 3/8	2 3/8	.80
6-8		100	G-16 1/2	D. C.	2 1/8	3	2.50
6-8		18 amp.	P-25	Medium	3 1/8	4 3/4	5.00
12-16		32	PR-11	D. C.	1 1/4	2 1/8	.70
12-16		50	PR-11	D. C.	1 3/8	2 3/8	1.00
12-16		100	G-16 1/2	D. C.	2 1/8	3	2.50
12-16		18 amp.	P-25	Medium	3 1/8	4 3/4	6.00
32		32	PR-11	D. C.	1 1/4	2 1/8	1.40
32		50	PR-11	D. C.	1 3/8	2 3/8	1.80
32	3.5 amp.	100	G-16 1/2	D. C.	2 1/8	3	3.50
32		8 amp.	P-25	Medium	3 1/8	4 3/4	6.00
32	400		G-30	Medium	3 3/4	5 1/8	9.00
120	250		G-30	Medium	3 3/4	5 1/8	4.00
120	400		G-30	Medium	3 3/4	5 1/8	6.00
120	500		G-40	Medium	5	7 1/4	9.00
120	500		T-20	Medium	2 1/2	5 1/4	7.00

Watertight Receptacles and Plugs

CAST BRONZE—DIPPED FINISH

All insulated with best quality bakelite, all furnished with watertight cap.

For all voltages from 6 to 125

FLUSH TYPE WITHOUT BOX



Fig. 968

To meet the requirements for yachts where size and space is limited.

Complete Each	Plug Only Each	Diam. Plate Inches	Depth Box Inches
\$4.00	\$1.80	2 1/4	3/4

FLUSH TYPE WITH BOX



Fig. 969

Furnished with watertight box, bottom inlet.

Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
2 1/4	1 1/2	1 1/8

Complete Each	Plug Only Each
\$5.00	\$1.80

HEAVY DUTY TYPE

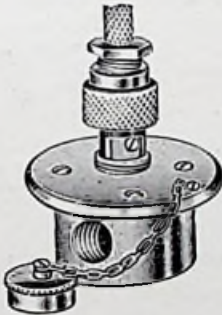


Fig. 970
Flush Type



Fig. 971
Surface Type

Fig. 970 Complete Each	Fig. 971 Complete Each	2 Wire Plug Each	3 Wire Plug Each	3 Wire Extra Each	Diam. Plate Inches	Diam. Box Inches
\$6.50	\$6.00	\$2.00	\$4.25	\$3.00	3 1/2	2 3/4

Watertight Push Buttons

CAST BRONZE



Fig. 978

With nickel silver springs, platinum contacts, rubber gaskets and pig skin cap over button. With screws.

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches
\$3.50	\$4.00	2 3/8

Gang Type Receptacle and Plug

SURFACE TYPE

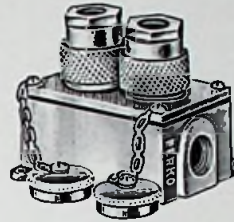


Fig. 972

Two wire type plugs, all insulation is best quality bakelite. Mounting lugs are integral part of box.

Length Inches	Width Inches	Depth Inches
3 1/4	2 1/4	1 3/8

Complete with Plugs, Each\$8.50

Combination Switch and Receptacle

SURFACE TYPE

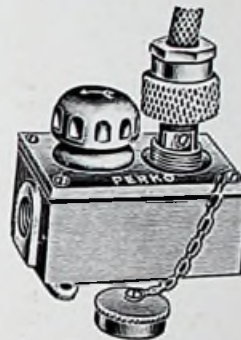


Fig. 973

Allows control of all lights on one circuit. Switch, receptacle and plug all in one unit. Mounting lugs are integral part of box.

Length Inches	Width Inches	Depth Inches
3 1/4	2 1/4	1 3/8

Price Complete\$8.50

Watertight Snap Switch

FLUSH TYPE OR SURFACE TYPE

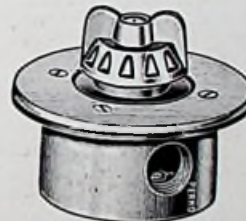


Fig. 974

An excellent watertight snap switch for all classes of yachts. Ratchet under knob to prevent turning in wrong direction.

	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
Flush Type	3 1/2	2 1/2	1 1/2
Surface Type		2 3/8	1 1/2

Single Pole Switch	Flush Type \$6.00	Surface Type \$5.25
Double Pole Switch	6.25	

Watertight Junction Box

SURFACE TYPE

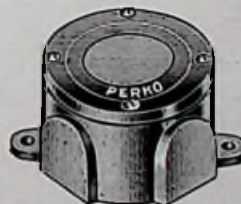


Fig. 975

Made of cast bronze, can be threaded for three circuits if necessary. Mounting lugs are integral part of box.

Diam. Box Inches	Depth Box Inches
2 3/4	1 3/4

Without interior, each\$2.00

With block for one circuit, Each 2.50

Tapped for 2 or 3 circuits at small extra charge



Watertight Connection

DOUBLE CONTACT

DECK SOCKET. All brass, double contact, complete with threaded cap and chain as illustrated.

PLUG. All brass, double contact, threaded lock nut for fastening to deck socket, Fig. 423. Threaded cap with rubber gasket inside to prevent water running down cable.

Deck Socket



Fig. 423

All Metal Plug



Fig. 425

	Polished Brass Each	Chromium Plated Each	Dimensions Inches
Socket Only	\$1.10	\$1.60	1 1/2 x 1 3/8
Plug Only	1.10	1.60	1 1/2 x 1

Bakelite Base Socket

SINGLE OR DOUBLE CONTACT



Fig. 472

Diameter base, 1 3/8 inches.
Height, 1 inch.

No.	Each
20 Double Contact	\$.50
21 Single Contact	.50

Single End Socket

SINGLE OR DOUBLE CONTACT



Fig. 747

No.	Each
1 Double Contact	\$.20
2 Single Contact	.20

Double contact furnished unless otherwise specified.

Watertight Connection

DOUBLE CONTACT



Fig. 477

Cast bronze socket with cap and chain, as illustrated. Hard rubber plug locked in place by bronze cap with rubber gasket to prevent water running down wire.

Polished Brass Each	Chromium Plated Each	Dimensions Inches
\$1.90	\$2.50	1 1/2 x 1 1/4

Composition Interiors Only
Per Set, \$.70

Flanged Sockets

DOUBLE CONTACT—BRASS

Single End Socket



Fig. 377

Double End Socket



Fig. 378

Size Flange
1 1/8 in. x 1 1/2 in.

Fig. 377—Single end socket	Each \$.30
Fig. 378—Double end socket	.35

Watertight Cable Outlet

CAST BRONZE



Fig. 424

With threaded cap and rubber gasket to prevent water running down cable.

Polished Brass Each	Chromium Plated Each	Extreme Diameter Inches
\$.60	\$1.25	1 1/4

Mogul Socket

PORCELAIN—FOR 3 WIRE SYSTEM



Fig. 533

Furnished with white metal base, tapped 3/8 inch I. P. S.

Used with our double filament bulb, Fig. 532.

Each \$1.50

Brass Terminal Tubes



Fig. 105

No.	Each	Nominal	I. P. S. Thread Inches	Diam. Cable Inches
1	\$.50	1/2	1/2	3/8
2	.60	3/8	3/4	3/4
3	.60	3/4	3/4	1 1/8
4	.80	1	1	1 1/8

STUFFING TUBES TYPE A

5	.85	5/8	3/4	3/4
6	.85	3/4	3/4	1 1/8

Other sizes made to order, price on application.

Mogul Socket

BAKELITE—FOR 3 WIRE SYSTEM



Fig. 270

Used in all our electric navigation lights for U. S. Maritime Commission Vessels. For double filament bulbs Fig. 532.

Each	Height Inches	Outside Diam. Inches	Thickness Wall Inches
\$4.00	2 3/16	2 1/8	3/16

Porcelain Edison Socket

STANDARD SCREW BASE

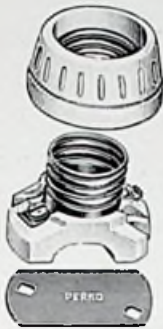


Fig. 222

Used on Edison founts shown on pages 48 and 49, and with a special small size base for Fig. 488 and 489 mast lights.

No. 1 size base 2x1 1/4 in.
No. 2 size base 1 1/4 x 1 1/4 in.

No.	Complete Each	Rings Only Each	Gaskets Only Each
1	\$.70	\$.15	\$.10
2	.90	.15	.10

No. 1 furnished unless otherwise specified.

Double Contact Socket FOR DE-LITE RUNNING LIGHTS

BASE THREADED 1/8" I. P. S.

Standard electrical equipment in De-lite running lights, classes 1, 2 and 3.



Fig. 276

Each \$.40

Socket Holder

FOR DE-LITE RUNNING LIGHTS BRASS

Standard equipment for supporting electric socket, Fig. No. 276. Complete with screws for installing.



Fig. 277

Each \$.55

Electric Converter

ALL BRASS

For converting old style oil lamps into oil and electric lamps. Just remove burner from fount, place collar around threaded portion of burner and replace assembly in oil fount. Consists of double contact bayonet socket, collar and hollow nut.



Fig. 458

Per Set, Complete \$.85

Double Contact Adapter

ALL BRASS

For converting oil fount into electric fount. Punch a hole in bottom of fount and screw adapter in place of oil burner.



Fig. 355

Each \$.45

Electric Adapters

No. 670 Standard to D. C. Ediswan Base
680 Standard to S. C. Ediswan Base



Fig. 405

No.	Each
670	\$.70
680	.70

Double Contact Plugs

COMPOSITION OR ALL METAL



Composition Fig. 746



All Metal Fig. 383

With flush type contact screws, used with sockets Figs. 472, 747, 377, 378.

Fig. 746—Composition, each \$.20
Fig. 383—All Metal, each30

Plugs and Sockets

DOUBLE CONTACT



Fig. 399

Contact pins in socket, brass nickel plated socket, composition plug.

Size of flange, 1 1/8 x 1 1/2.
Complete \$.70

Double Contact Connectors



Fig. 749 Composition

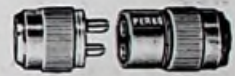


Fig. 750 Metal Clad

Fig. 749 Each \$.60

Fig. 750 Each \$.80

Dimensions
Fig. 749 Inches 2 1/2 x 1 1/8
Fig. 750 Inches 2 x 3/4

Brass Dagger Connectors



Fig. 283

These are furnished with Fig. 538 and 603 Pole Lights, and are very handy "pull apart" connectors for many other uses. Dimensions 1 1/2 x 3/8 inches.

Each \$.20

Knife or Battery Switches

FIBRE BASE—SINGLE POLE



Fig. 70



Fig. 74

Single Throw Each	Double Throw Each	Size Base Inches
\$.40	\$.50	2 1/8 x 1 1/4

Single Throw Each	Double Throw Each	Size Base Inches
\$.35	\$.45	2 1/8 x 1 1/4

Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

THE STANDARD

With cadmium plated frame and bakelite sliding button.

Extreme Length Inches	Extreme Width Inches	Width Frame Inches
1 3/4	3/4	3/4

Each \$.45

Can be furnished with nickel plated face plate 1"x1 1/4", same as Fig. 718, price complete \$.85



Fig. 717

THE DE-LUXE

With brass face plate in polished or plated finishes. Ideal for mounting on dash board or bulkhead.

Length Face Plate Inches	Width Face Plate Inches
1 1/4	1



Fig. 718

Polished Brass Each \$.70	Nickel Plated Each \$.70	Black Enameled Each \$.70	Chromium Plated Each \$.80
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THE DE-LITE

A neat double switch very useful on cruisers, using one for running lights, the other for cabin fixtures.

With brass face plate in polished or plated finishes.

Length Face Plate Inches	Width Face Plate Inches
2 1/8	1 3/4

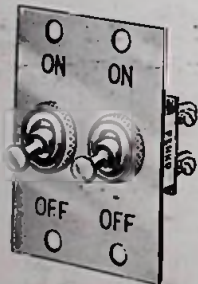


Fig. 719

Polished Brass Each \$1.40	Nickel Plated Each \$1.40	Black Enameled Each \$1.40	Chromium Plated Each \$1.60
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TOGGLE TYPE

FOR THRU THE DASH MOUNTING

It is only necessary to drill a 1/2" hole in dash for mounting.

Composed of bakelite and brass furnished complete with 2 lock nuts and 6 inch wire leads.

Each \$.60

Furnished with neck 1/4 or 3/8 inches long. Specify length of neck when ordering.



Fig. 745

Push and Pull Switch

HEAVY DUTY

With polished brass or nickel plated oblong plates and push buttons.

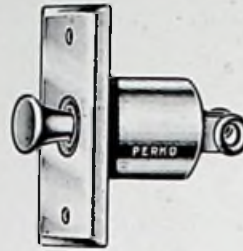


Fig. 740

	Each
1 point	\$.55
2 point .....	.90
3 point	1.35
4 point	1.75

Please specify finish of plate when ordering.

Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB

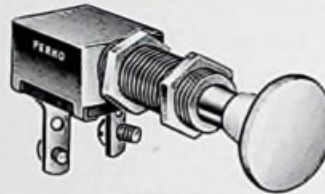


Fig. 94

Heavy duty 2 point 2 terminal with ivory tenite knob.

Neck for 3/8 inch wood, 5/8 inch hole.

Each \$.85

Push and Pull Switch

WITH FUSE HOLDER—ALL BRASS

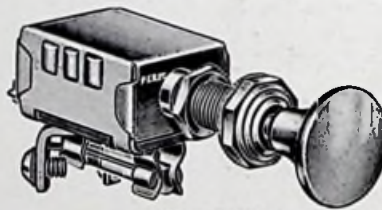


Fig. 254

With chromium plated knob.

Neck for 3/8 in. wood, 5/8 in. hole.

Each \$1.25

Momentary Starter Switch

OR DASHBOARD HORN BUTTON

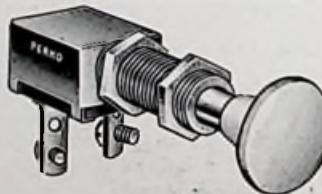


Fig. 255

2 point 2 terminal spring action switch with ivory tenite knob.

Neck for 3/8 in. wood, 1/2 in. hole.

Each \$.75

Ignition Lock Switch

BRASS

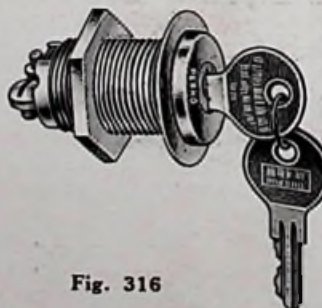


Fig. 316

2 terminal lock switch with two keys.

Neck for 1 inch wood, 3/4 inch hole.

Each \$1.00

Ignition and Lighting Switch

ALL BRASS—WITH 2 KEYS
FUSED



Fig. 1183

A fine well made lock switch for running lights, anchor light and ignition.

Each	Dimensions of Flange Inches	Diam. Case Inches	Depth Case Inches	Length Handle Inches
\$3.75	3 1/4 x 2 1/4	2 1/8	1	1 1/2

Fuse Panel

BAKELITE—BRASS METAL PARTS



Fig. 694

No. 1 for one active fuse and one spare.
No. 2 for two active fuses and one spare.

No.	Each	Length Inches	Width Inches	Thickness Inches	Length Fuse Inches
1	\$.40	2 1/4	1	1/8	1 1/4
2	.50	2 1/4	1 3/8	1/8	1 1/4

Fuse Box

ALL BRASS METAL PARTS

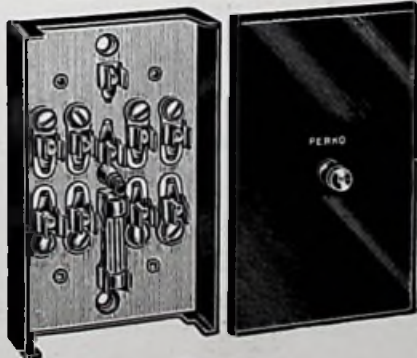


Fig. 695

For four active fuses and two spares.

Each	Length Inches	Width Inches	Depth Inches	Length Fuse Inches
\$3.60	4 1/2	2 7/8	1	1 1/4

Switch and Fuse Panel

BAKELITE—BRASS METAL PARTS
PUSH AND PULL SWITCHES



Fig. 666

Filling the need for a switch and fuse panel designed primarily for marine purpose.

Panel is black bakelite and all metal parts are brass. Each switch is the pull out type and plainly marked as illustrated.

Each switch has its fuse and one main switch is provided to control all lights.

Each	Length Inches	Width Inches	Overall Depth Inches	Thickness Panel Inches	Length Fuse Inches
\$5.50	7	4 1/4	1 1/4	1/8	1 1/4

Price does not include fuses.

Brass Straps

A very handy and useful article, used extensively on all types of boats for fastening copper tubing, control wire casing, and electric cable to bulkheads, floors, etc.



Fig. 121



Fig. 1075

Inside Diam. Inches	Fig. 121 Per 100	Fig. 1075 Per 100	Inside Diam. Inches	Fig. 121 Per 100	Fig. 1075 Per 100
1/8	\$1.00	\$1.30	1/8	\$1.40	\$1.80
3/16	1.10	1.40	1/2	1.50	1.90
1/4	1.20	1.55	3/8	1.80	2.40
5/16	1.20	1.55	3/4	1.90	2.50
3/8	1.30	1.70			

Brass Cable Straps

FLAT TYPE FOR LEAD COVERED CABLE
BRASS



Fig. 1076

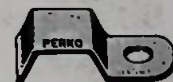


Fig. 1077

Inside Measurements Inches	Fig. 1076 Per 100	Fig. 1077 Per 100
1 1/8 x 3 1/2	\$2.50	\$3.20



Emergency Self Lighting Water Light

FOR ATTACHMENT TO RING BUOYS



Fig. 843

To be hung on boat rail by top ring and attached to ring buoy by bottom ring and line. Lights automatically and immediately on striking the water, gives a 250 candle power white light and burns for 45 minutes. Approved by U. S. Board of Supervising Inspectors.

Each	Size Overall Inches	Weight Pounds
\$7.00	5x8	3

Distress Outfits IMPROVED COPPER CASE

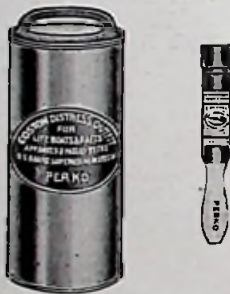


Fig. 844

Consists of twelve red signals, each capable of burning two minutes with an intense brilliancy, clearly discernable for over five miles at sea. Case made of 18 oz. cold rolled copper, cast brass cover and rubber gasket, (cut thread), absolutely water tight. Approved by U. S. Board of Supervising Inspectors.

Per outfit, complete	\$8.00
Flares Only—Per Dozen	4.75
Cans Only—10½ inches high—Each	5.50

Axe Brackets

Made of heavy gauge brass or black iron. Large enough to take axe blade up to 6 inches wide.

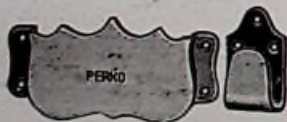


Fig. 325

	Blade Brackets Only	Hooks Only
Japanned Steel	Per Dozen \$5.00	Per Dozen \$1.75
Polished Brass	7.75	3.25

Distress Outfits

FOR MOTOR BOATS AND SAIL BOATS
MOISTURE PROOF SIGNALS AND CONTAINERS
12 RED FLARE SIGNALS—METAL CAN



Fig. 514

Many boat owners do not realize the importance of having distress signals on board ready for instant use until an emergency arises, then it is often too late.

This outfit should be on every boat and the extreme low price puts it within reach of every ones pocketbook. This outfit consists of twelve 2 minute moisture proof red flares packed in a moisture proof container.

Per Outfit Complete	\$2.00
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Bread Breakers

GALVANIZED



Fig. 155

Heavy galvanized sheet iron, double seamed edges, well soldered, cast bronze cover and ring, thick rubber gasket, water-tight, two folding handles. Every breaker fully tested before leaving factory.

Diameter cover. 5 inches.

Capacity Lbs.	Each	Size Inches	Weight Lbs.
25	\$ 7.50	12x12x18	13
40	8.00	15x15x21	15
50	8.50	15x15x24	18
60	9.00	15x15x30	19
80	10.00	24x24x24	32
100	10.50	24x24x30	40

Bread Breaker Caps

NEW STYLE
CAST BRONZE



Fig. 72

Complete with rubber gasket and ring for fitting to tank, cut threads.

Price Per Set	Extra Gaskets Each	Outside Diam. Cover Inches	Inside Diam. Opening Inches	Weight Each Pounds
\$3.50	\$.30	5¾	4¾	2

Boat Bailers GALVANIZED



Fig. 180

Made of black steel, hot galvanized after completed, handle riveted to body.

Each	Diameter Inches	Weight Pounds
\$1.40	8 1/4	1

Ditty Bags COMPLETE



Fig. 85

A waterproof canvas bag containing sailmaker's palm, needles, sail twine, marline, marline spike, and wax.

Complete, Each \$3.25

One box matches sewed in waterproof canvas, add \$.55.

Water Breakers ROUND OAK



Fig. 1001

A water breaker containing at least one quart of water for each person must be carried in every lifeboat.

Capacity Gallons	With Galvanized Hoops Each
5	\$3.75
10	4.80
15	5.50
20	6.50

Lead Lines ITALIAN HEMP

DEEP SEA OR YACHT MARKINGS

Furnished with standard deep sea markings of bunting and leather, 1st mark at 5 fathoms, or with yacht markings by knots in braided cotton line attached to lead line every fathom.



Fig. 597

Length	Deep Sea Each	Yacht Each
10 Fathoms	\$ 5.00	\$ 5.00
15 Fathoms	6.75	6.75
20 Fathoms	8.00	8.00
25 Fathoms	9.50	9.50
30 Fathoms	11.00	11.00

Prices Do Not Include Lead
Specify Deep Sea or Yacht Markings

Sea Anchors and Cans APPROVED BY THE STEAMBOAT INSPECTION SERVICE



Fig. 517



Fig. 179

Sea anchor, Fig. 517, is made of good quality heavy weight canvas.

Can or oil container made of heavy galvanized sheet iron, complete with attaching ring, two brass petcocks and filling cap.

Diameter of Anchor Inches	Capacity of Can Quarts	Anchor with Can Complete Each	Anchor Only Each	Can Only Each
24	4	\$6.00	\$4.00	\$2.00
30	4	8.50	6.50	2.00

Clothes Hammocks PULLMAN BERTH TYPE—GREEN



Fig. 566

The same type as used in Pullman sleeping cars. These have many uses in a boat. Length overall, 66 inches.

Price Each \$2.25

Sounding Leads

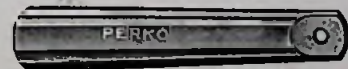


Fig. 940

All weights from 2 to 16 pounds each inclusive carried in stock.

Per Pound \$.25

Larger sizes furnished to order.

"Perko" Zinc Marine Oilers

BRASS BOTTOM



Fig. 326

Made of heavy gauge pure zinc, spring brass bottom, machine cut thread, interchangeable spouts.

No.	3	4
Capacity	8 ozs.	12 ozs.
Diameter	4 in.	4½ in.
Length spout	4 in.	6 in.
Wt. per gross	40 lbs.	48 lbs.

No.	Per Gross
3	\$72.00
4	92.00

EXTRA SPOUTS

No.	3	4 inch	21.00
	4	6 inch	23.50

Gasoline Funnels

GALVANIZED—FOR OUTBOARD MOTORS AND RUNABOUTS



Fig. 81

Made of galvanized sheet steel with No. 80 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
1	\$.80	8	8½	½
2	.95	9½	9¾	1

Offset Gasoline Funnel

GALVANIZED



Fig. 83

Fine for outboard motors and gasoline fillers hard to get at.

Made of heavy gauge galvanized sheet steel with No. 80 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
3	\$2.20	9½	9¾	1

Signal Torch



Fig. 177

Made of heavy galvanized iron. Handle riveted to body, cast iron claws for holding wick.

Diameter, 5½ inches
Height, 15 inches
Weight, 2¾ pounds

Each	\$5.00
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Pitch Payers



Fig. 178

Heavy galvanized iron, double seamed and soldered, handle riveted to top, inside strainer riveted to body.

Each	Diam. Inches	Length Body Inches	Length Overall Inches	Weight Lbs.
\$3.00	7	13	20	1½

Folding Water Bucket

RUBBERIZED MATERIAL—GALV. FRAME

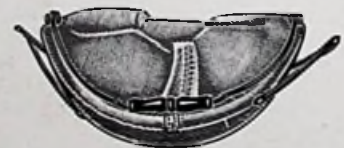


Fig. 301

Can be set down rigidly without losing contents. Folds into very small size for stowing.

Made of heavy rubberized material and has hot galvanized frame.

No.	Each	Capacity Quarts	Diam. Inches	Depth Inches	Thickness Folded Inches
1	\$3.00	10	11	9¾	2½
2	4.00	12	12	9¾	2½



PERKO "PATHFINDER" SEARCHLIGHTS

LOW VOLTAGE 6 OR 12 VOLTS

ALL BRASS WITH SILVER PLATED REFLECTORS

A new line of searchlights of one standard size permitting large production and consequent lower cost. The prices are extremely low but quality of materials and workmanship is up to our usual high standard.

The highly polished silvered reflector and 50 candle power bulb gives an unusually powerful concentrated beam of light.

Complete with toggle switch, 50 c. p. bulb and flexible metal hose for cable.

With Pilot House Control



Fig. 1022

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck Inches
\$17.00	\$21.00	6½	6¼	7¼	13½

Length below base 8½ inches.

With Windshield Attachment



Fig. 1024

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Head Inches	Height Above Windshield Inches	Inside of Attachment Inches
\$13.00	\$15.00	6½	7¼	9	1⅜x1

With Deck Control



Fig. 1023

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck Inches
\$14.00	\$16.00	6½	6¼	7¼	12

With Battery Attachment



Fig. 1025



Fig. 1027

Fig. 1025 for Eveready Hot Shot No. 1562.
Fig. 1027 for Burgess Uniflex No. 4F5H.

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Head Inches	Width of Attachment Eveready Inches	Burgess Inches
\$10.00	\$12.00	6½	7¼	5	4

NOTE:—All above furnished with flood light reflector at same prices. Please specify.
With 32 volt 50 c. p. bulb add \$1.00 each.
With 6, 12 or 32 volt 100 c. p. bulb add \$2.00 each.



"Perko" High Power Searchlights

WITH MIRROR REFLECTORS

LOW VOLTAGE—6, 12, 32, AND 110 VOLTS

BODIES—are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast bronze.

REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a greater distance than any other projector of its class.

FOCUSING DEVICE—of patented design, containing no wires to twist or break; very easy to control.

PILOT HOUSE CONTROLS—are of the wheel or lever type, both having their distinct advantages.

WIRING—enclosed in flexible metal hose, fully protected from weather.

SOCKETS AND BULBS—all sizes of searchlights are furnished with standard screw sockets. Bulbs furnished as standard equipment in various voltages are as follows—6-8 volts, 18 amps.; 12-16 volts, 18 amps.; 32 volts, 8 amps.; 120 volts, 250 watt. Can also furnish 32 volt, 400 watt and 120 volts, 400 or 500 watt bulbs for small additional cost.



Fig. 480

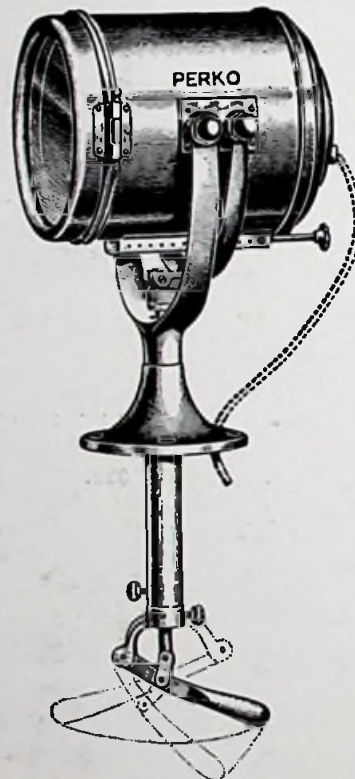


Fig. 297

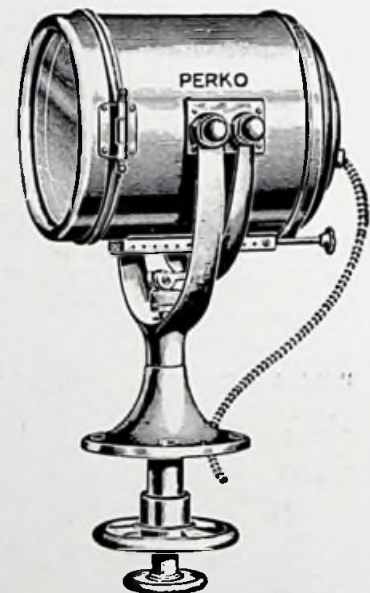


Fig. 529

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Overall Cabin Control Inches	Height Overall Deck Type Inches	Net Weight Cabin Control	Diameter of Base Inches
8	8	up to ¼ mile	350,000	12¾	7¾	24	18	31 lbs.	6¾
10	10	up to 1 mile	590,000	14¾	9¾	28	22	36 lbs.	6¾
12	12	up to 1½ miles	700,000	17	11¾	30	24	48 lbs.	8½
14	14	up to 2 miles	850,000	19	13½	34	28	56 lbs.	8½

Fig. 480

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$ 77.00	\$ 90.00
10	95.00	110.00
12	110.00	130.00
14	140.00	160.00

Fig. 297

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$ 95.00	\$108.00
10	110.00	125.00
12	130.00	150.00
14	165.00	190.00

Fig. 529

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$100.00	\$115.00
10	115.00	130.00
12	140.00	155.00
14	170.00	195.00

NOTE—SPECIFY VOLTAGE AND SIZE WHEN ORDERING



"Perko" "Beam" Searchlights
WITH CHROMIUM PLATED REFLECTORS

The bodies of these searchlights are made of heavy brass. Control mechanism, stands and yokes are all cast bronze.

REFLECTORS—are heavily plated with chromium and highly polished. This plating gives a very high light efficiency and is more non-corrosive than most other plating processes in use on salt water.

FRONT LENS—is convex and mounted in brass frame, which is easily removed.

WIRING—is protected by flexible metal hose and waterproof insulation.

PILOT HOUSE CONTROL—is of the lever type, which is quick acting and easy to handle.

BULBS—are 6-8, 12-16 volt, double contact, 50 candlepower. For 6 or 12 volt 100 candlepower bulbs, add \$2.00 each. For 32 volt 50 candlepower bulbs, add \$1.00 each. For 32 volt 100 candlepower bulbs, add \$2.50 each.

Sunbeam
WITH PILOT HOUSE CONTROL

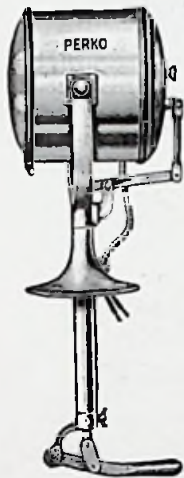


Fig. 306

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
6	6 1/8	21	3 1/2
8	7 7/8	24	5 1/2
10	10	27	5 1/2

Size Inches	Polished Brass Each	Chromium Plated Each
*6	\$24.00	\$31.00
6	30.00	36.00
8	38.00	45.00
**8	50.00	56.00
10	68.00	77.00

* Indicates this searchlight with T handle control instead of lever control illustrated.

** This searchlight has mirror reflector showing a clearer beam with greater distance of projection, 100 C. P. bulb.

Sunbeam
DECK TYPE

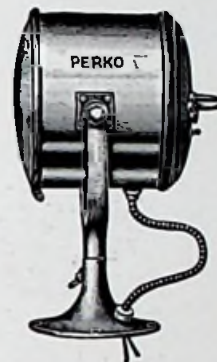


Fig. 305

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
6	6 1/8	11	3 1/2
8	7 7/8	14	5 1/2
10	10	17	5 1/2

Size Inches	Polished Brass Each	Chromium Plated Each
6	\$22.00	\$28.00
8	27.00	35.00
**8	33.00	41.00
10	38.00	46.00

Superbeam
DECK TYPE



Fig. 307

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
8	7 7/8	12 1/2	3 3/4

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$20.00	\$23.00

Brightbeam
WITH PILOT HOUSE CONTROL



Fig. 310

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
8	7 7/8	23	3 3/4

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$33.00	\$40.00

Superbeam
HAND TYPE

Furnished as illustrated, with wire guard over lens and 10 feet of rubber covered cable.



Fig. 266

Size Inches	Diam. Reflector Inches	Extreme Length Inches
8	7 7/8	9

Polished Brass Each	Chromium Plated Each
\$16.50	\$19.00

Streamline Searchlight
FOR RUNABOUTS AND OUTBOARD MOTOR BOATS



Fig. 548

Diam. Body Inches	Height Overall Inches	Size Base Inches
4 3/4	7 1/2	2 1/2 x 5

Polished Brass Each	Chromium Plated Each
\$11.00	\$13.50

NOTE—SPECIFY VOLTAGE AND SIZE WHEN ORDERING



"Star" Oil Compasses

WITH DIAMOND POLISHED JEWEL BEARING
IN MAHOGANY BOX



Fig. 487

Has several exclusive features such as special alloy magnets that hold their magnetic charge indefinitely, hand treated non warping dial, a barometer type diaphragm for expansion and contraction and a hand polished pivot.

A guaranteed trouble and bubble proof compass.

Trade Size Inches	Exact Diam. Card Inches	Each	Size of Box Inches	Diam. Trunions Inches
2	2 $\frac{1}{16}$	\$ 7.50	4 $\frac{3}{8}$	4 $\frac{1}{4}$
2 $\frac{1}{2}$	2 $\frac{1}{8}$	9.75	5 $\frac{3}{8}$	4 $\frac{3}{4}$
3	3 $\frac{1}{16}$	11.50	6 $\frac{1}{4}$	5 $\frac{1}{4}$
4	4	18.00	7 $\frac{1}{4}$	6 $\frac{3}{8}$
5	4 $\frac{3}{4}$	23.50	8 $\frac{1}{2}$	7 $\frac{1}{8}$

"Star" Spirit Compasses

WITH CENTRAL BUOYANCY DIAL
REGULAR AND UNDERLIGHTED



Fig. 987

Furnished with flat card and four magnet dial. This type of compass is specified and used exclusively by the U. S. Navy. A very high grade instrument second to none in quality and dependability.

For use on large motor boats, yachts and ocean going vessels.

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under-lighted Type Each	Mahogany Box Only Each	Diam. Trunions Inches
4	4	\$22.50	\$36.00	\$4.50	6 $\frac{7}{8}$
5	4 $\frac{3}{4}$	25.00	38.50	5.00	8
6	5 $\frac{1}{4}$	28.00	43.00	6.00	9 $\frac{1}{8}$

PRICES ABOVE DO NOT INCLUDE BOX

"Star" Pathfinder Compasses

WITH MAGNETIC COMPENSATOR
INDIRECT ILLUMINATION
MAGNIFIED DIAL



Bulkhead Type
Fig. 33



Shelf Type
Fig. 34

A highly practical and accurate instrument of light weight and neat appearance.

Has a translucent magnified dial with indirect no glare illumination. Built-on magnetic compensator, spherical lens, jeweled bearing and non-vibrating mounting.

Fig.	Each	Diam. Face Inches	Depth Inches	Height Overall Inches	Size Base Inches	Weight Ounces
33	\$8.00	2 $\frac{1}{4}$	2 $\frac{1}{4}$	4	3	11
34	8.00	2 $\frac{1}{4}$	2 $\frac{1}{4}$	4 $\frac{1}{2}$	2 $\frac{3}{8}$	12

"Star" Spherical Dome Compass

SPIRIT TYPE—UNDERLIGHTED
JEWEL BEARING



Fig. 823

Ideal for modern fast cruisers and speed boats, as the spherical dome magnifies the card and provides a stability unobtainable in any other way.

The deep dipping dynamic card is super sensitive.

The shock arrester is an exclusive feature preventing shock and vibration from reaching the compass bearing.

The compass bearing is non corrosive. An oil tempered hand polished pivot and genuine sapphire.

Non glare and non shadow underlighting.

Diam. Card Inches	Each	Diam. Trunions Inches	Diam. Gimbals Inches	Height To Trunion Inches
5	\$79.00	7 $\frac{7}{8}$	6 $\frac{7}{8}$	3 $\frac{1}{4}$
6	90.00	9 $\frac{1}{4}$	8 $\frac{3}{8}$	3 $\frac{1}{2}$



Deluxe Dome Binnacle

WROUGHT BRASS—TWO PIECE.
WITH SLIDING DOORS

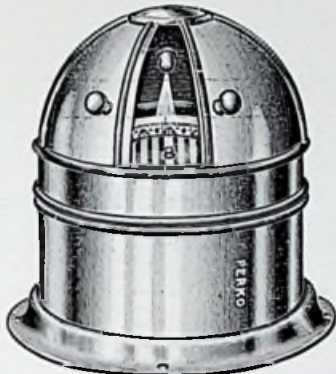


Fig. 300

53 1/3

Modern in every detail. Has two sliding doors and hooded electric light which illuminates the proper portion of the compass only. Entire head is removable for day running, removing of compass, etc.

No.	For Size Compass Inches	Height Overall Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
1	4	7 1/2	9	6	2 1/2
2	5	8 3/4	10	7 3/8	3 1/2

No.	Without Compass		With Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
1	\$38.00	\$48.00	\$54.50	\$64.50
2	42.00	52.00	63.50	73.50

Cruiser Binnacle

WROUGHT BRASS—ONE PIECE

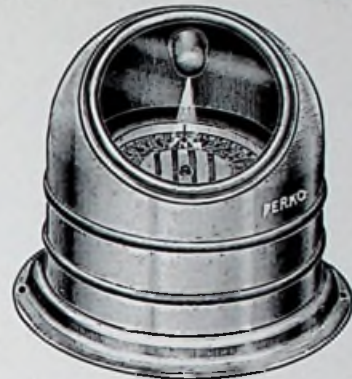


Fig. 412

An electric lamp for night running which illuminates the proper portion of the compass but will not disturb the helmsman's vision in any way.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
3	6 1/2	5 3/8	6 3/4	4 7/8	1
4	7 1/2	6 1/2	9	6	1 1/3
5	8 3/4	7 7/8	10	7 3/8	2 3/4

For Size Compass Inches	Without Compass		With Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
3	\$15.00	\$17.50	\$25.50	\$28.00
4	16.75	19.75	33.25	36.25
5	18.75	22.75	40.25	44.25

Skylight Binnacle

BRASS



Fig. 534



Night Hood

Extra heavy brass throughout. Complete with night hood and electric lamp.

No.	For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches
1	4	11	6 1/2	10	6
2	5	11 3/4	7 3/8	10	7 3/8

No.	Without Compass		With Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
1	\$35.00	\$42.00	\$51.50	\$58.50
2	37.50	45.00	59.00	66.50

No. 2 size for 5 inch underlighted or dome compass add \$5.00 to above prices, made to order only.

Cruiser Binnacle

WROUGHT BRASS—TWO PIECE



Fig. 401

When closed looks exactly like Fig. 412 above. Removable head allows easy access to compass. Furnished complete with electric fixture and lamp for illuminating compass at night. Head is held fast to base by bayonet catch which is invisible when closed.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
3	6 1/2	5 3/8	6 3/4	4 7/8	1
4	7 1/2	6 1/2	9	6	1 1/3
5	8 3/4	7 7/8	10	7 3/8	2 3/4

For Size Compass Inches	Without Compass		With Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
3	\$17.00	\$19.50	\$27.50	\$30.00
4	19.00	22.00	35.50	38.50
5	21.00	25.00	42.50	46.50

ALL ABOVE BINNACLES REGULARLY FURNISHED WITH OIL COMPASS FIG. 487. IF SPIRIT COMPASS IS DESIRED, ADD DIFFERENCE IN PRICE BETWEEN FIGS. 487 AND 987.

Binnacles

WROUGHT BRASS—TWO PIECE



Fig. 444

A well made but low priced binnacle, electric lighted, with metal shield over bulb to eliminate glare. A pin point of light illuminates proper portion of compass.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches
3	6	5 3/8	5 3/8	4 7/8
4	7	6 1/2	6 1/2	6
5	8	7 1/8	7 1/2	6 3/4

For Size Compass Inches	Without Compass		With Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
3	\$11.00	\$13.50	\$21.50	\$24.00
4	13.25	16.25	29.75	32.75
5	15.50	19.50	37.00	41.00

For use with Fig. 487 oil compass only.

Improved Compass Bracket

CAST BRONZE—DOUBLE SWING



Fig. 812

The bracket is cast bronze in black finish and is attached to trunions on gimbal ring of compass.

Compass furnished is our Fig. 487 oil compass with jewel bearing.

Size Compass Inches	Complete with Compass Each	Bracket Only Complete Each	Wall Plate Only Each
2	\$10.75	\$3.25	\$.40
2 1/2	13.25	3.50	.40
3	15.35	3.85	.40
4	22.25	4.25	.40
5	28.25	4.75	.40

Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE
TRANSPARENT

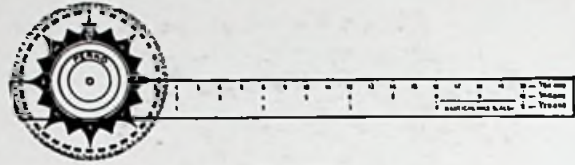


Fig. 706

Arm has various mileage scales used on all coastal and harbor charts.

Arm extended on short end to show reverse course.

A precision instrument, accurate in detail. Positions, depths, etc., are clearly visible when covered by protractor.

Each	Extreme Length Inches	Diam. Compass Card Inches
\$2.50	21 1/2	6 3/8

"Director"

AUTOMATIC COURSE FINDER AND PLOTTER

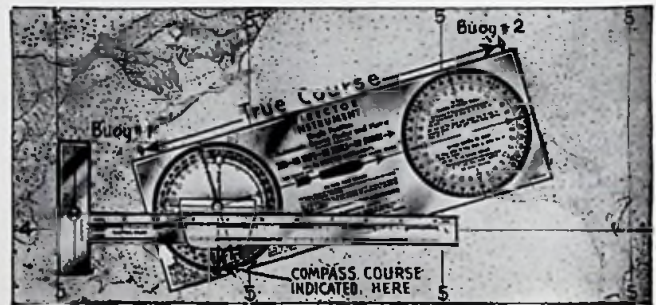


Fig. 696

FAST—ACCURATE—DIRECT
ACCURACY GUARANTEED

The director has separate pointers for correct variation. Both true and magnetic courses can be read at the same time. Also for plotting bearings, positions and reverse courses instantly. Courses can be read in points or degrees. No reference to compass rose on chart is necessary.

Each	Length Closed Inches	Length Open Inches	Width Inches
\$6.00	12	20	4

String Protractor

TRANSPARENT

For use where space is limited.

Size, 4x4 inches.

Each \$1.00

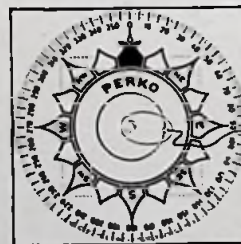


Fig. 697

Nickel Silver Dividers



Fig. 693

Length, 6 inches, each \$1.75

Yacht Log Books

100 PAGES—NEAT PRINTING



Fig. 708

In addition to pages for log data, these books contain useful information such as extracts from Bowditch Practical Navigator on symbols for weather, state of sea, cloud formations, force of wind, etc.

- No. 1 Binding: Imitation leather, pebble finish, star-board green color, gold letters, without gold border. Each **\$2.00**
- No. 2 Binding: Imitation leather, pebble finish, pilot blue color, gold letters and gold border. Each **\$2.50**

For name of yacht on book, add \$1.50.

Parallel Rules

NATURAL EBONY FINISH



Fig. 686

Furnished in natural ebony finish with nickel plated brass bars and finger grips.

Length Closed Inches	Price Each
12	\$2.75
15	3.25
18	4.00

Electric Compass Light

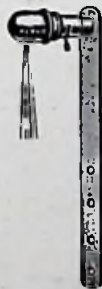


Fig. 707

To be mounted on compass box for illuminating compass at night, a shield is furnished over the bulb to eliminate glare, shield has small hole sufficient to illuminate proper portion of compass card.

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Diam. Inches	Length Inches	Galv. Each	Copper Each
\$2.00	\$2.50	8	3	36	\$4.00	\$7.75
			4	36	5.00	8.75

Ash Tray and Glass Holder in Gimbals

ALL BRASS—CHROMIUM PLATED



Fig. 698 Complete



Fig. 700 Glass Holder

What is more useful in various parts of a boat than several deep good looking ash trays in gimbals. When a long cooling drink is served, remove the ash tray insert the glass in the gimbal and the drink is safe regardless of heel or roll.

Made entirely of brass with bell type removable bracket. All chromium plated. Ash receiver is lead weighted.

Complete Per Set	Glass Holder Only Each	Ash Tray Only Each	Size Bracket Inches	Projection Inches
\$4.25	\$2.50	\$1.85	1 3/4 x 1 1/4	4

Set consists of ash receiver, gimballed holder and mounting bracket. When used as glass holder ash receiver is removed from holder.

Folding Stool

CAST BRONZE SUPPORTS



Fig. 1009

An ideal fitting for the average cruiser, appreciated by boat owners who have spent hours at the wheel.

No.	Each	Diam. Seat Inches	Offset Inches
1	\$ 7.25	11	14
2	10.50	13	16

Chart Cases



Fig. 372

Made of galvanized iron or sheet copper, water-tight cover, folding handle on side for carrying.

“PERKO” BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

The entire interior, including bearings, is tool machined, insuring perfect alignment and absolutely tight joints, blank bearing ends are solid (not soldered), all bearings are fully lubricated by brass grease cups. The drive shaft is in perfect alignment with the pump body. Pipe connections are Briggs standard pipe tap.

Single Lower Drive Shaft

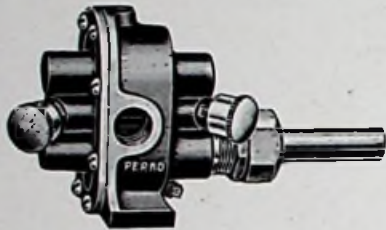


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$10.00	\$12.00	¼	½	3¾
3	11.50	14.25	⅜	⅝	5½
4	12.50	15.50	½	⅞	6
7	15.00	19.50	¾	⅞	9
9	16.50	21.00	1	⅞	9½

Single Upper Drive Shaft

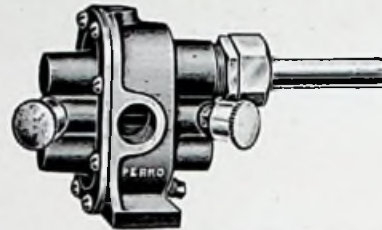


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$10.00	\$12.00	¼	½	3¾
3	11.50	14.25	⅜	⅝	5½
4	12.50	15.50	½	⅞	6
7	15.00	19.50	¾	⅞	9
9	16.50	21.00	1	⅞	9½

PLEASE NOTE THAT WE ARE NOW SUPPLYING OUR GEAR TYPE PUMPS WITH HERRINGBONE GEARS WHEN DESIRED.



Pumps with herringbone gears are more quiet in operation than spur gear pumps. Are also more efficient in power consumption.

Herringbone gears operate in only one direction which must be specified, either clockwise or counter clockwise.

Double Lower Drive Shaft

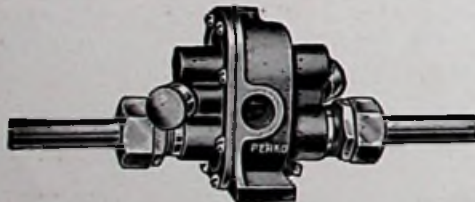


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	¼	½	4½
3	12.50	15.50	⅜	⅝	6¼
4	13.75	17.00	½	⅞	6¾
7	16.50	21.00	¾	⅞	9½
9	17.50	22.50	1	⅞	9¾

Double Upper Drive Shaft

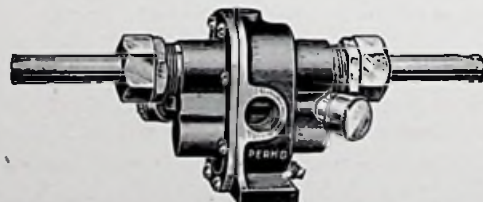
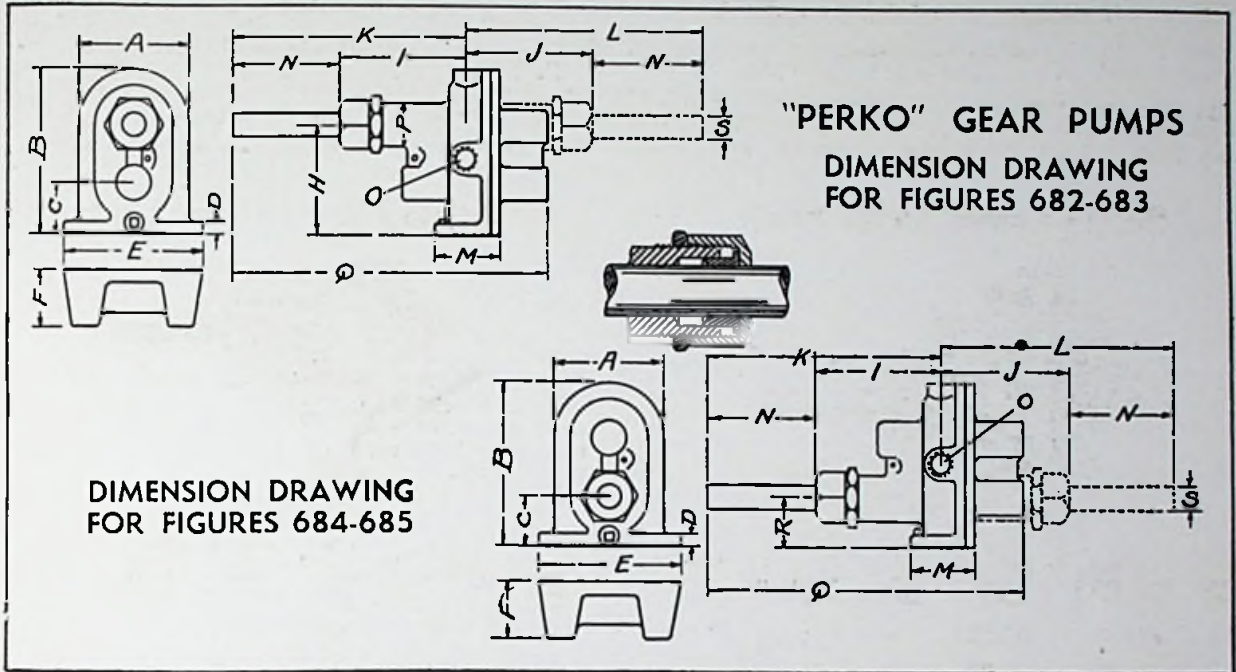


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	¼	½	4½
3	12.50	15.50	⅜	⅝	6¼
4	13.75	17.00	½	⅞	6¾
7	16.50	21.00	¾	⅞	9½
9	17.50	22.50	1	⅞	9¾

For special lengths of shafts add .60c each, and then .55c for every six inches or fraction thereof beyond standard length.

NOTE—Don't fail to state figure number and pump number desired, also direction when herringbone gears are ordered.



DIMENSION TABLE FOR "PERKO" GEAR PUMPS

Pump No.	A	B	C	D	E	F	H	I*	J*	K*	L*	M	N	O†	P	Q	R	S
2	2 $\frac{3}{8}$	3 $\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{3}{8}$	2 $\frac{7}{8}$	1 $\frac{3}{4}$	2 $\frac{3}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	4 $\frac{5}{8}$	4 $\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{8}$	$\frac{1}{4}$	1	6 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{1}{2}$
3	2 $\frac{3}{4}$	4	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{5}{8}$	2 $\frac{3}{8}$	2 $\frac{7}{8}$	2 $\frac{7}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$	$\frac{3}{8}$	1 $\frac{1}{8}$	6 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
4	2 $\frac{3}{4}$	4	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{5}{8}$	1 $\frac{3}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{1}{8}$	7 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
7	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{1}{8}$	$\frac{1}{4}$	4	1 $\frac{1}{2}$	3 $\frac{3}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{8}$	2 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{8}$	7 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
9	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{1}{8}$	$\frac{1}{4}$	4	1 $\frac{1}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{5}{8}$	2 $\frac{1}{2}$	1	1 $\frac{1}{8}$	7 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$

Dimensions in inches—Standard Pumps. *From center line of gear. †Briggs standard pipe tap.

CAPACITY TABLE FOR "PERKO" GEAR PUMPS

1200 REVOLUTIONS PER MINUTE

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2	3.	$\frac{1}{8}$	2.62	$\frac{1}{8}$	2.25	$\frac{1}{4}$	1.8	$\frac{1}{4}$	1.45	$\frac{1}{8}$
3	5.	$\frac{1}{8}$	4.25	$\frac{1}{4}$	3.7	$\frac{1}{8}$	3.2	$\frac{1}{2}$	2.8	$\frac{3}{4}$
4	7.5	$\frac{1}{4}$	6.3	$\frac{1}{8}$	5.4	$\frac{1}{2}$	4.6	$\frac{3}{4}$	3.8	1
7	13.5	$\frac{1}{8}$	11.5	$\frac{1}{2}$	9.9	$\frac{3}{4}$	8.75	1	7.7	1 $\frac{1}{2}$
9	17.	$\frac{1}{2}$	15.5	$\frac{3}{4}$	14.1	1 $\frac{1}{4}$	12.7	1 $\frac{1}{4}$	11.2	1 $\frac{1}{2}$

1800 REVOLUTIONS PER MINUTE

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2	4.5	$\frac{1}{4}$	4.2	$\frac{1}{4}$	3.85	$\frac{1}{8}$	3.45	$\frac{1}{2}$	3.1	$\frac{1}{2}$
3	7.5	$\frac{1}{8}$	6.75	$\frac{1}{2}$	6.1	$\frac{3}{4}$	5.6	1	5.25	1
4	11.	$\frac{1}{2}$	10.	$\frac{3}{4}$	9.	$\frac{3}{4}$	8.2	1	7.3	1 $\frac{1}{2}$
7	16.*	* $\frac{1}{2}$	15.*	1*	13.3*	*1	12.*	1 $\frac{1}{2}$ *	10.8*	*1 $\frac{1}{2}$
9	20.*	* $\frac{3}{4}$	18.75*	1*	17.7*	*1 $\frac{1}{2}$	16.5*	2*	15.3*	*2

*At 1500 R.P.M.
Gallons per minute flow of clean water—63° F.—no pipe friction.
Motor recommended shown by H. P. indicated.
Head in feet = 2.3 x lbs. pressure.



"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE
FOR MARINE, INDUSTRIAL AND DOMESTIC USE

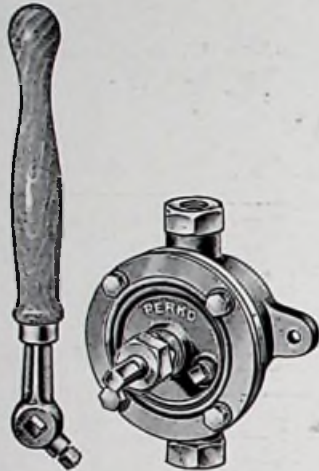


Fig. 681

Constructed entirely of cast bronze, principally for use as a marine bilge pump, but is used in large quantities in the industrial field for pumping oil and gasoline, hot liquids, juices, etc.

The interior consists of a cast bronze wing which oscillates on a bronze shaft connected to handle. The wing has lubricated square flax packing set in grooves which runs on interior of drum and as no metal parts rub together this pump will last for years without noticeable wear. Packing is very easily replaced.

EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$21.00	1/2	5 1/8	5	11 1/2
1	23.50	3/4	5 3/4	7	14
2	27.50	1	6 5/8	9 3/4	19 1/2

Manufactured in U. S. A. by "Perko."

"Perko" Ford Gear Pumps

ALL BRONZE
FOR MODEL A FORD MOTOR CONVERSIONS

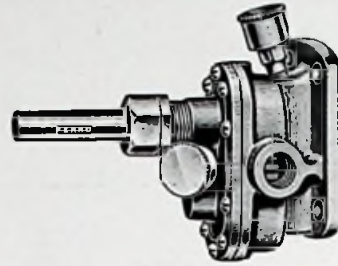


Fig. 530

Has a special mounting flange of the proper dimensions and exact drilling to permit installation in the same place and on the same mounting as the automobile water pump.

Furnished complete as illustrated.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diam. Shaft Inches	Weight Pounds
\$12.00	\$15.00	3/8	1/2	4 1/2

"Perko" Star Gear Pump

ALL BRONZE
FOR STAR MARINE MOTOR CONVERSIONS

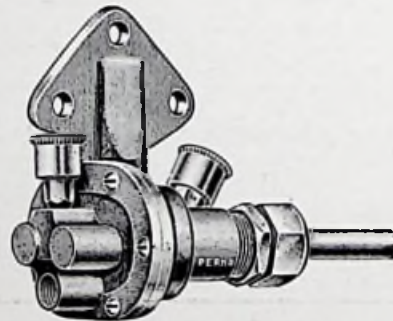


Fig. 804

Has a triangular bracket to fit the intake water manifold on the motor with water passage through the bracket.

Furnished complete with grease cups, tobin bronze gears and shafts, all bearings machined, all bearing ends are solid, not soldered.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diameter Drive Shaft Inches	Weight Pounds
\$11.00	\$13.75	3/8	1/2	4

"PERKO" BRONZE GEAR PUMP PARTS

Pump No.	Size Pipe Connection Inches	Cover Each	Spur Gear Each	Herringbone Gear Each	Body Each	Drive Shaft Each	Metal Pack Gland Each	Lock Nut Each	Pack Nut Each	Idle Gear Shaft Each
2	1/4	\$1.95	\$1.20	\$2.75	\$3.25	\$.95	\$.65	\$.35	\$.65	\$.60
3	3/8	2.10	1.40	3.10	3.30	.95	.80	.45	.70	.60
4	1/2	2.50	1.75	3.50	3.90	1.10	.80	.45	.70	.90
7	3/4	2.90	2.30	5.50	4.80	1.10	.80	.45	.70	.90
9	1	3.90	2.65	6.20	5.80	1.10	.80	.45	.70	.90

"Champion" Navy Bilge Pump BRASS CYLINDER—CAST BRONZE PARTS



Fig. 1016

Patent Pending



View of New Improved Plunger

33 1/3
20

Truly a champion among bilge pumps. The improvement is so great that we can truthfully claim this pump gives greater capacity with less effort than any other Navy type on the market today.

The plunger or "heart" of the pump is absolutely dependable at all times and can not get out of order. Made of machined brass with heavy square lubricated flax packing set in a groove. This packing is far superior in action and durability to leather washers which have never been fully satisfactory for salt water.

Furnished complete with brackets adjustable for starboard or port mounting.

CAPACITY—20 GALLONS PER MINUTE.

Tested at 55 strokes per minute showing 1 1/2 quarts per stroke.

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$10.00	24	2 3/4	1 1/4	1 1/2	1/2

Bronze Navy Pump Strainers

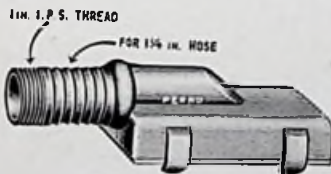


Fig. 704

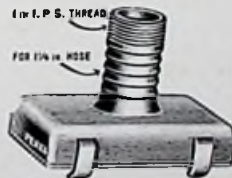


Fig. 705



Fig. 721

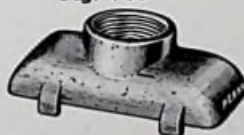


Fig. 722

Fig.	Price Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$2.00	1	1 1/4	7	2 3/4	2
705	2.00	1	1 1/4	4 3/4	2 3/4	1 1/2
721	2.00	1 1/4		5	2 3/4	1 1/2
722	2.00	1 1/4		4 3/4	2 3/4	1 3/8

"Super" Navy Bilge Pump FOR HOSE OR PIPE

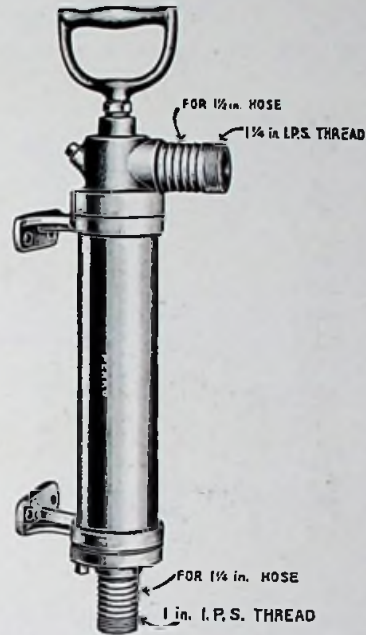


Fig. 701

This is our very popular "Champion" Pump improved by cast bronze integral fittings at inlet and outlet ends for connecting hose or pipe. Retaining of course our improved flax packed plunger and 1/2 inch plunger rod.

Each	Extreme Length Inches	Inlet Sizes		Outlet Sizes	
		Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$10.00	27	1	1 1/4	1 1/4	1 1/2

"Midget" Navy Bilge Pumps FOR HOSE OR PIPE

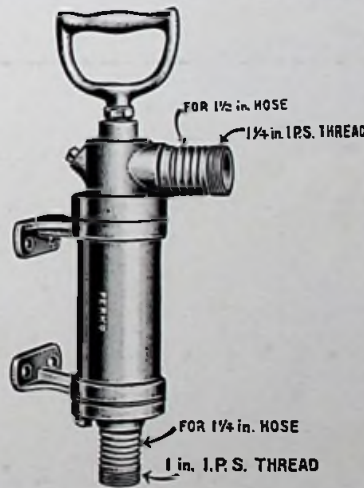


Fig. 702



Fig. 108

Our regular pump reduced in length for boats requiring a large capacity pump to be installed where space is limited.

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Sizes		Outlet Sizes	
			Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$10.00	18 1/4	2 3/4	1	1 1/4	1 1/4	1 1/2

Fig. 108—Plunger Assembly Only, Each\$4.20



Brass Bilge Pumps
DOUBLE ACTION

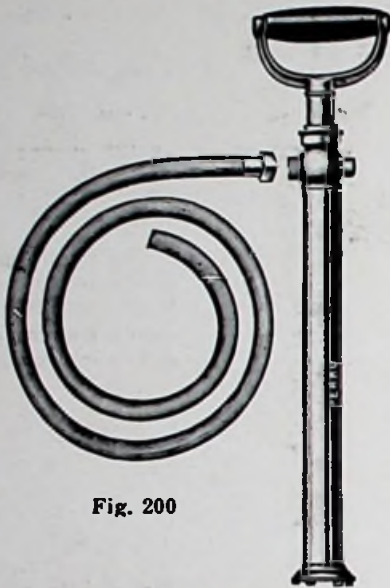


Fig. 200

Heavy brass seamless tubing, cast bronze fittings, treated leather packing, hollow brass ball checks, D shaped handle. Moulded rubber hose 5 feet long furnished with each pump.

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$4.25	17½	1½	6	2¼
2	5.00	20	1½	12	3¼
3	5.50	29	1½	8½	3
4	6.25	29	1½	16½	4

Brass Bilge Pumps
WITH SUCTION HOSE AND STRAINER

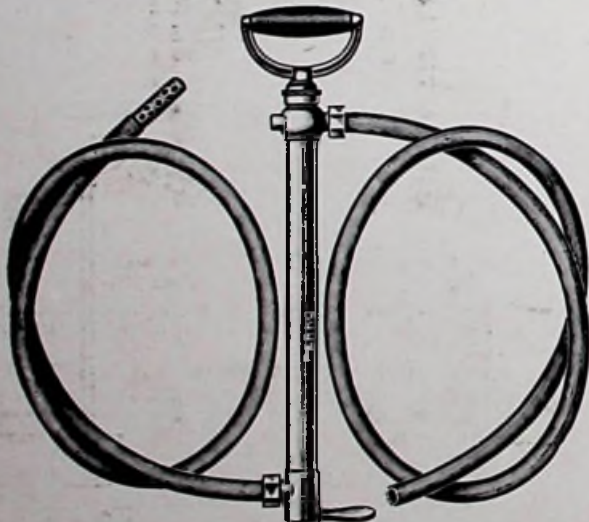


Fig. 202

Cast bronze foot rest and two 5 foot lengths of hose for suction and discharge.

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$ 6.50	18½	1½	6	3
6	7.75	21	1½	12	4
7	8.50	30	1½	8½	3¼
8	10.00	30	1½	16½	5

Brass Bilge Pump
DOUBLE ACTION
WITH BULKHEAD BRACKETS



Fig. 524

Complete with 2 five foot lengths of hose and suction strainer.

Nos.	With Hose Each	Height Overall Inches	Diam. Pump Inches	Weight Pounds
11	\$ 9.50	21	1½	9
12	10.75	31	1½	10

Special Bilge Pump
SINGLE ACTION—ALL BRASS

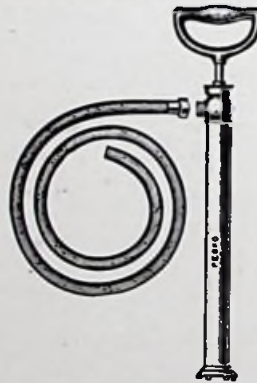


Fig. 723

Designed primarily for the small outboard motor boat or runabout.

Well constructed, of all brass, furnished complete with 5 feet of molded rubber hose.

CAPACITY—at ordinary stroke, 3½ gallons per minute.

Complete Each	Extra Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
\$3.35	\$.60	1½	17½	2

Rubber Hose and Strainer

FOR FIG. 200 AND 202 BRASS BILGE PUMPS



Fig. 208 Fig. 209

Heavy moulded rubber hose, durable and lasting. ¾ inch inside diameter.

Standard 5 ft. lengths Cast Bronze Strainer

Other lengths of hose can be furnished. Price on application.

ALL PUMPS ON THIS PAGE WITHOUT HOSE, DEDUCT \$.25 FOR EACH HOSE.

Trench or Bilge Pump

GALVANIZED

Made of heavy tubing, formed from black steel and hot galvanized afterwards, water-tight and rustproof seams. Galvanized iron valves with oak leather clapper, wood rod and handle, cone shaped oak leather plunger, as per Fig. 239, long lengths are well reinforced with galvanized steel bands around body.

ALSO KNOWN AS CONTRACTOR'S PUMP



Fig. 156

Diameter, inches	2	2½	3	3½	4
Price per foot	\$.65	\$.70	\$.75	\$.85	\$.90

Pumps shorter than 5 feet long charged as 5 foot. Length measured overall.

Handy Bilge Pump

GALVANIZED

With iron rod and handle, improved oak leather disc plunger as Fig. 238, galvanized iron valve and top cap.

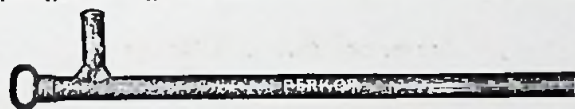


Fig. 158

Length Overall Feet	Diameter of Pump		
	1½ in. Each	2 in. Each	2½ in. Each
2	\$2.90	\$2.90	\$3.15
2½	2.95	2.95	3.20
3	3.00	3.00	3.25
3½	3.05	3.05	3.30
4	3.10	3.10	3.35
4½	3.15	3.15	3.40
5	3.20	3.20	3.45
6	3.75	3.75	4.05

Wizard Bilge Pump

WITH WOOD ROD AND LEATHER PLUNGER

Galvanized with Galvanized Valve



Fig. 344

Length Overall Feet	Diameter of Pump				
	2 in. Each	2½ in. Each	3 in. Each	3½ in. Each	4 in. Each
2	\$2.90	\$3.15	\$3.40		
2½	2.95	3.20	3.45		
3	3.00	3.25	3.50	\$4.00	
3½	3.05	3.30	3.55	4.05	\$4.30
4	3.10	3.35	3.60	4.10	4.35
4½	3.15	3.40	3.65	4.15	4.40
5	3.20	3.45	3.70	4.20	4.45
6	3.75	4.05	4.35	4.95	5.25

Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY

24 B. & S. Gauge Steel, Hot Galvanized After Forming



Fig. 724

SOLDERED JOINTS

Galvanized cast iron bottom valve with heavy leather clapper, galvanized steel support for spout riveted to spout and body.

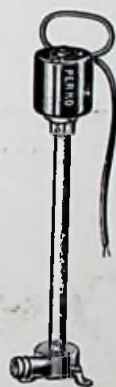
Especially recommended for use by Public Utilities, Contractors and Industrials where pumps are put to very severe use.

Inside Diameter Body Inches	Price Per Foot
3	\$2.00
4	2.50

Length is measured overall. Pumps shorter than 5 feet charged as 5 feet long.

Midget Electric Pumps

AUTOMATIC OR NON AUTOMATIC BRONZE



Non Automatic Fig. 801



Automatic Fig. 801-A

Ideal for pumping the bilge in small boats. Current consumption as low as boat radio. 6 amps full load at 6 volts.

Automatic pump has large cork float attached to enclosed switch, water level controls action of pump.

Pump unit is rotary type with cast bronze vanes. Capacity is amazing for such a small low powered pump.

Discharge fitting is threaded for ½ inch pipe. 1 inch rubber hose can also be used without the need of a nipple.

Furnished with bronze handle for carrying illustrated on Fig. 801 at small extra charge.

Volts	Fig. 801 Each	Fig. 801-A Each	Extreme Height Inches	Diam. Base Inches	Weight Pounds
6	\$13.75	\$18.75	17½	4	4¼
12	16.50	21.50	17½	4	4¼
32	17.50	22.50	17½	4	4¼
110 D.C.	20.00	25.00			

For carrying handle add \$1.00 each. Size of handle inside 3¼ x 1½ inches.



Basin or Galley Pumps

CAST BRONZE, POLISHED, NICKEL AND CHROMIUM PLATED

With a finished mahogany handle which when all the way down will not pinch the hand against the upright bar. Furnished with lock nut and two rubber washers.

These pumps have brass ball check in the plunger, and flapper valve at the bottom.

The handle is adjustable for operating from most convenient position.

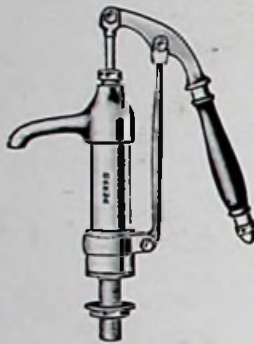


Fig. 473
With High Spout
Straight Base

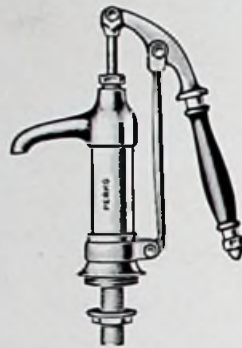


Fig. 478
With High Spout
Flange Base

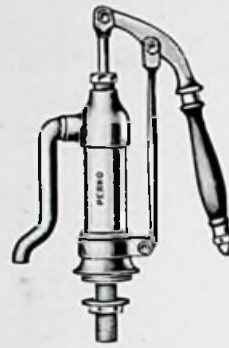


Fig. 474
With Low Spout
Flange Base

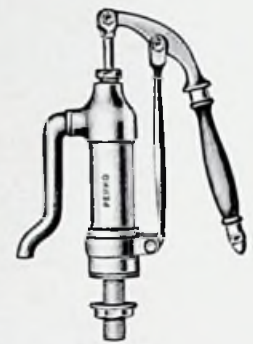


Fig. 479
With Low Spout
Straight Base

Fig.	Polished Bronze Each	Chromium Plated Each	Diameter Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
473-478	\$11.00	\$13.00	1 5/8	6	2 1/2	1/2	14	3 1/2
474-479	11.50	13.75	1 5/8	6	2 1/2	1/2	13	3 3/4

New Basin Pump

WITH METAL LEVER HANDLE

A well made good looking pump with brass ball checks in plunger and at the bottom or intake. Adjustable handle for operating from most convenient position.



Fig. 467

Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
1 3/8	6 1/2	2	1/2	13 1/2	4

Polished
Bronze
Each
\$8.75

Chromium
Plated
Each
\$10.75

Basin Pump

WITH STOP COCK

Same pump as those above with cast bronze stop cock. Furnished with straight or flange base, flange base furnished unless otherwise specified.

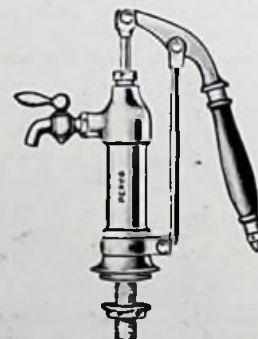


Fig. 525

Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
1 3/8	6	2 1/2	1/2	14	4 1/2

Polished
Bronze
Each
\$13.00

Chromium
Plated
Each
\$15.50

Tail Pieces for above pumps for attaching hose or lead pipe see Figs. 67 and 68.

Marvel Basin Pumps

ALL BRONZE

Designed for beauty as well as simplicity, just as attractive as the water fittings in the modern home. Furnished with brass ball checks in plunger and at bottom or intake.

Length of stroke is 5 1/4 inches.

Inlet is threaded for 3/8 inch pipe.

Capacity per minute, Low Speed Stroke—3 Gallons.



Fig. 144
Low Spout



Fig. 145
High Spout



Fig. 1040
Gooseneck Spout

Fig.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds
144	1 1/2	13 1/2	3	0	3
145	1 1/2	16 1/2	3	3	3 1/2
1040	1 1/2	14 1/2	4 1/2	3	3 1/2

Exposed Parts Only

Fig.	Polished Bronze Each	Chromium Plated Each
144	\$7.50	\$ 8.75
145	8.50	10.50
1040	8.00	9.50

Double Action Basin Pump

ALL BRONZE

With double tubing and brass ball checks in plunger and bottom intake. Furnished with solid flange or clamp flange.

Capacity per minute, Low Speed Stroke—3 1/2 Gallons.



With Solid Flange
Fig. 373



With Clamp Flange
Fig. 374



Fig.	Diam. Barrel Inches	Length Up To Spout Inches	Projection Spout Inches	Inlet Pipe Thread Inches	Diam. Flange Inches	Weight Pounds
373	1 1/8	13 1/2	4 1/4	3/8	2 1/2	2 3/4
374						

Polished Bronze Each \$4.50
5.00

Chromium Plated Each \$5.75
6.25

New Angle Galley Pump

DOUBLE ACTION—ALL BRONZE



Fig. 677

Angle toward user when installed permits easy effortless operation.

Spout swivels to various positions.

Bottom valve is an improved type to hold prime.

Polished Bronze Each	Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
\$5.25	\$5.50	3/8	4	4 1/4	2 1/4

Cruiser Basin Pump

ALL BRONZE

With brass ball checks in plunger and bottom intake. Threaded for 1/2 inch pipe, neck is 2 1/4 inches long, weight, 3 pounds.



Fig. 495

Polished Bronze Each	Chromium Plated Each	Diam. Barrel Inches	Height to Spout Inches	Projection of Spout Inches
\$6.75	8.25	1 1/4	5	2 1/4

Galley Supply Pump

DOUBLE ACTION—ALL BRASS

A large capacity pump ideal for galley use, complete with bulkhead brackets and tail pieces for attaching hose or lead pipe. Brass ball checks in plunger and intake. Threaded for 1/2 inch pipe.



Fig. 345

No.	Diam. Barrel Inches	Length Overall Inches	Polished Bronze Each	Chromium Plated Each
9	1 1/2	21	\$7.00	\$10.75
10	1 1/2	31	8.50	12.50

Without tailpieces, deduct \$1.00 from above.



Crank Case Pump

DOUBLE ACTION—ALL BRASS

Capacity per minute—2 Gallons



Fig. 146

This has been sorely needed by motor boatmen, a quick acting, double action pump for draining the crank case, the long flexible metal spout can be inserted in filler opening of crank case which can be drained very rapidly with no trouble; a short length of rubber hose clamped to outlet of pump will allow draining over-board or into any handy carrier. A continuous flow of oil is maintained on both up and down strokes.

Length Pump Overall Inches	Length Inlet Spout Inches	Length Outlet Spout Inches	Diameter Pump Inches	Weight Pounds
17 1/2	12 1/2	1 3/4	1 1/8	2 1/2
Complete Each	Without Spout Each	Spout Only Each	Rubber Hose Per Foot	
\$4.40	\$3.65	\$2.10	\$.20	

Rubber hose not furnished as standard equipment.

Crank Case Pump

DOUBLE ACTION—ALL BRASS



Fig. 1029

This pump is equipped with a cast bronze intake spout for rubber hose. 12 inches of 3/8 inch hose is included.

This type is especially useful for Gray motors permitting the oil to be drawn off through the oil dagger tube.

Complete Each	Without Spout Each	Spout Only Each	Extra Hose Per Foot
\$4.40	\$3.65	\$1.10	\$.20

Crank Case Pump

SINGLE ACTION—ALL BRASS

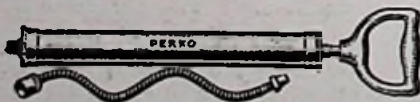


Fig. 388

Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Each Pounds	Complete Each	Without Spout Each
1 1/2	12	15 1/2	2	\$3.30	\$2.75

Extra Spouts—Each \$1.10.

Navy Type Oil Syringes

ALL BRASS WITH WOOD HANDLE

Meets U. S. Navy Specification 41-S-39

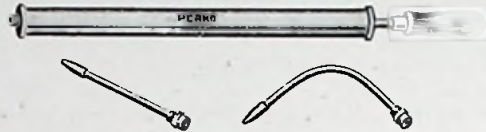


Fig. 772

Two spouts made of brass tubing 3/8 inch outside diameter are furnished with each syringe. Straight spout 8 inches long, bent spout 12 inches long overall. Plunger has two hard felt packing rings each 1/2 inch thick.

No.	Each	Outside Diameter Cylinder	Length Cylinder	Capacity Per Stroke Pints	Weight Pounds
1	\$4.50	1 1/2	12	.7	2 1/2
2	5.00	1 1/2	18	1.0	2 3/4
3	6.00	2	12	1.25	3 1/4
4	7.00	2	18	1.9	4

Flexible Couplings

DIE CAST WHITE BRASS

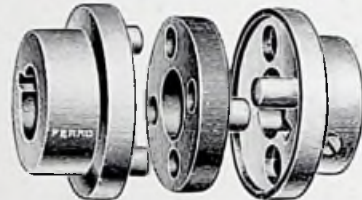


Fig. 687

Die cast under tremendous pressure, a heavy leather disc, 5/16" thick with two inserts on each side furnished complete with set screws. 5/8 and larger have keyway and set screws.

No.	Price Each	Bore Inches	Length Inches	Outside Diameter Inches	Outside Diameter Hub Inches
1	\$1.10	3/8 and 1/2	1 7/8	1 7/8	1
2	1.65	3/8 to 3/4	1 7/8	2 1/8	1 1/2

No extra charge for combination of size bores.

Be sure to specify size bore, both ends, when ordering.

V Type Pulleys

DIE CAST WHITE BRASS

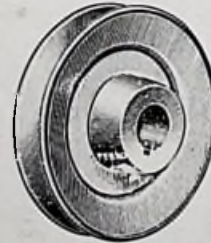


Fig. 688

No.	Price Each	Outside Diameter Inches	Bores Inches	Running Diameter Inches
1	\$1.10	3	3/8 to 3/4	2 1/16
2	1.65	4	1/2 to 3/4	3 1/2
3	2.20	5	1/2 to 3/4	4 3/4

Be sure to specify size bore when ordering.

Parts for Brass Bilge Pumps

Flange and cup washers are leather, especially treated for use in salt water. Split washer is wrought brass. Ball is hollow and made of wrought brass.

No. 1 fits numbers 1, 3, 5 and 7 bilge pumps. } Page
 No. 2 fits numbers 2, 4, 6 and 8 bilge pumps. } 74

	Flange Washer { No. 1 Fig. 203 { No. 2	Each \$.20 .25
	Cup Washer { No. 1 Fig. 204 { No. 2	\$.20 .25
	Split Washer { No. 1 Fig. 205 { No. 2	\$.05 .07
	Hollow Ball { No. 1 Fig. 206 { No. 2	\$.30 .40
	Valve Fitting For Plunger { No. 1 Fig. 456 { No. 2	\$.55 .65
	Packing Nut { No. 1 Fig. 457 { No. 2	\$.65 .85

Bottom Valves

FOR BRASS BILGE PUMPS—CAST BRONZE



Fig. 549
For Fig. 200
Single Hose Pump



Fig. 550
For Fig. 202
Double Hose Pump

Furnished complete with hollow brass ball and strainer.

Fig. 549		Fig. 550	
For Pump Size No.	Each	For Pump Size No.	Each
0	\$1.00	5	\$1.45
1	1.10	6	1.75
2	1.45	7	1.45
3	1.10	8	1.75
4	1.45		

Fig. 549 for pump size No. 0 fits special bilge pump, Fig. 723.

Weighted Clapper Valves

FOR NAVY BILGE PUMPS AND BASIN PUMPS



Fig. 147



Fig. 148

Fig. 147—Valve for Navy Bilge Pumps	Each \$.80
Fig. 148—Valve for Basin Pumps	Each .60

Pump Valve



Fig. 237

Galvanized iron with oak leather clapper, galvanized iron weights on both sides of leather riveted together and screwed to casting.

Diameter, inches	1½	2	2½	3	3½	4
Wgt. per doz., lbs.	3	4	6	7	9	11
Price per doz.	3.00	3.00	3.00	3.25	4.50	5.00

Improved Plunger

Malleable iron stem threaded to cast iron wheel to support oak leather disc plunger.



Fig. 238

Diam. Inches	Weight Per Dozen Lbs.	Price Per Dozen
1½	2½	\$3.00
2	3	3.00
2½	4½	3.30
3	6	3.60

Leather Plungers

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Weight Per Dozen Lbs.	Price Per Dozen
2	2	\$3.00
2½	2½	3.00
3	3	3.25
3½	3½	4.00
4	4	4.50

Wood Pump Handles

Turned from soft wood, smooth finish, 9 inches long.



Fig. 230

Diam. of hole, in.	¾	1½
Price per doz.	\$1.60	\$2.10

Wood Pump Rods

Pointed on one end.

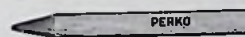


Fig. 231

Diam., inches	¾	1½
Lengths, ft.	2 to 6	6 to 12
Price per ft.	\$.10	\$.12

NOTE—¾ inch only furnished in 6 inch multiples. 1½ inch only furnished in 12 inch multiples.

Plunger for Navy Bilge Pumps

ALL BRASS



Fig. 108

This style plunger assembly used on all "Perko" navy type bilge pumps. All cast bronze handle with "man size" grip. The brass vertical rod is ½ inch diameter. The plunger itself consists of a bronze casting with ¼ inch self lubricated flax packing set in a groove. This packing is far superior to leather and with ordinary use will give fine results for years, yet it is very easy to replace.

For cylinder—2¾ inches inside diameter. Each, complete \$4.20

Corner Lavatory
WHITE VITREOUS CHINA

With chromium plated low spout pump, Fig. 479



Fig. 830

With integral back and round basin with overflow, fitted with chromium plated waste plug, chainstay, chain and stopper. Size of outlet 1 1/4 inches outside diameter. Inlet to pump 1/2 inch inside diameter.

No.	Without Pump Each	Complete With Pump Each	Complete With Faucet Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$19.00	\$31.00	\$22.50	12x12	10	2 1/2
2	24.00	36.00	27.50	14x14	11	2 1/2

Folding Lavatories
VITREOUS ENAMELED ENTIRELY
CHROMIUM PLATED PUMP AND FITTINGS

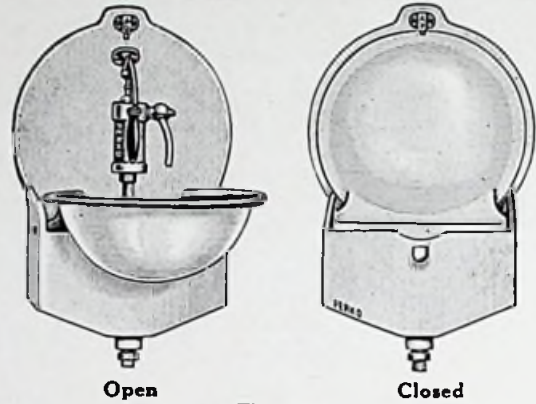


Fig. 732

Ideal where space is limited. A one piece back with folding basin. Smooth white vitreous enameled all over. The quick acting pump and all other metal parts are brass, chromium plated. Basin is held in closed position by a spring catch. Inlet and outlet fittings are threaded for 1/4 inch pipe.

Also furnished with compression type spring faucet instead of pump.

Complete assembly weighs 42 pounds.

With Faucet Each	With Pump Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches	Depth Basin Inches
\$37.00	\$43.00	20	13 3/4	14	10	4 1/2

Flat Back Lavatories
WHITE VITREOUS CHINA

With Chromium Plated Compression Faucet

With Chromium Plated Pump Fig. 473



Fig. 831



Fig. 832

With integral back and round basin. Complete with chromium plated waste plug, chainstay, chain, and stopper. Size of outlet 1 1/4 inch outside diameter.

Fig.	Without Pump or Faucet Each	Complete with Faucet Each	Complete with Pump Each	Size Inches	Diam. Basin Inches	Height Back Inches
831	\$16.00	\$19.50	\$27.75	12x12	10	2 1/2
832	18.50	22.00	30.00	14x14	11	2 1/2

Folding Lavatories
WITH DRAIN—COMPACT
BLUE PORCELAIN ENAMEL OR ALUMINUM

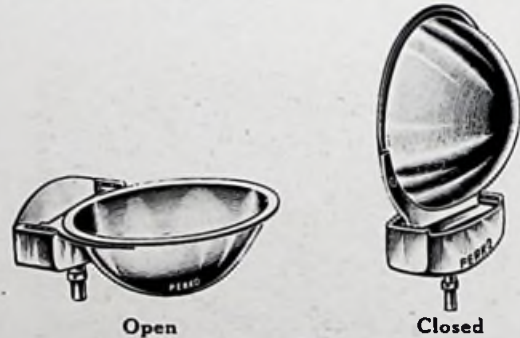


Fig. 475

Requires small mounting space—on wall, in corner, under cupboard, inside cabinet, etc.

For drainage, the lavatory bowl is tilted back, and the water runs down the drain.

Automatically locks in closed or open position.

Drain tapped for 1/8 inch pipe, tailpiece for 3/4 inch hose.

Each	Diam. Bowl Inches	Width Mounting Plate Inches	Height Closed Inches	Extension Open Inches
\$8.30	11	8 3/4	15	13 3/4

Specify marine blue porcelain enamel or aluminum. Aluminum furnished unless otherwise specified.

Cast Iron Lavatory

PORCELAIN ENAMELED—WHITE
THE "BYRD"

With Chromium Plated gooseneck spout pump, Fig. 1040



Fig. 335

White enameled iron lavatory without overflow.

Furnished complete with waste plug, chain stay, chain and rubber stopper, also screws and washers for mounting.

Complete Except Pump Each	Complete with Pump Each	Size Inches	Diam. of Basin Inches	Height Back Inches
\$10.50	\$20.00	12x12	10½	2

For other styles of pumps for above see pages 76 and 77.

Pressed Steel Lavatory

PORCELAIN ENAMELED—WHITE
WITH BRACKETS FOR MOUNTING



Fig. 336

Pressed in one piece out of 18 gauge ingot iron, finished in 3 coats of porcelain enamel, an exclusive process. The underside is also enameled so that its attractiveness is not lessened when fully exposed.

Each	Outside Measurements Inches	Oval Size Basin Inches	Inside Depth Inches	Weight Pounds
\$8.50	14x16½	9½x12¾	4¾	11

Price includes brackets, Tailpiece and Plug.

Price does not include Faucets—can be used with Pumps shown on pages 76 and 77.

Pressed Steel Corner Lavatory

PORCELAIN ENAMELED—WHITE

For small cruisers or sail boats where space is limited.

Has 1¾ inch diameter hole in shelf for faucet or pump.

Complete with chromium plated tail piece and rubber drain plug.



Fig. 404

Each	Size Bowl Inches	Depth Inches	Outside Dimensions Inches	Tall Piece Inches	Weight Pounds
\$4.75	9x7¼	4⅞	12x11	1¼	3

Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED WHITE



Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit, 1½ inch tail piece.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs.
1	\$5.15	10 x12	11½x13½	4¾	3
2	5.25	10½x16	12¾x18	4¾	4
3	6.25	11½x17¼	14 x20	4½	5
4	8.00	14 x21½	16¼x24	4½	7
MONEL METAL					
5	11.50	11½x16	13½x19	5	4

Galley Sinks

CAST IRON—PORCELAIN ENAMELED INSIDE



Fig. 833

With flat rim and 1 inch flange, complete with chromium plated brass plug type strainer and rubber stopper. Connections for 1½ inch lead pipe, 2 inch outlet in sink.

No.	Each	Width Overall Inches	Length Overall Inches	Depth Inside Inches
1	\$ 6.50	12	12	6
2	7.50	12	18	6
3	8.50	14	20	6
4	10.30	16	24	6



“PERKO” MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE

WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH
BIRCH SEATS AND COVERS—MAHOGANY OR WHITE FINISH

BOWL is of rim flushing type and of latest design to eliminate loose pipe connections where supply pipe is connected to it.

PUMP for supply and discharge is 2½ inch with felt packed piston. Length of stroke 3½ inches.

VALVES, waste valve contains leather clack washers. A combination supply and check valve.

WASTE ARM has ¾ inch pipe size clean out opening in both ends ample to allow cleaning out of foreign matter or quick draining when hauling out.

OUTLET is full size 1½ inch opening with 2 inch pipe size coupling nut.

INLET is full size ¾ inch opening with 1 inch pipe size coupling nut.

SEAT AND COVER in two styles, closed front as illustrated or open front.

DIMENSIONS, OVERALL, side to side, 17½ inches; front to back, 16 inches; height, 14¾ inches.

The Boatman

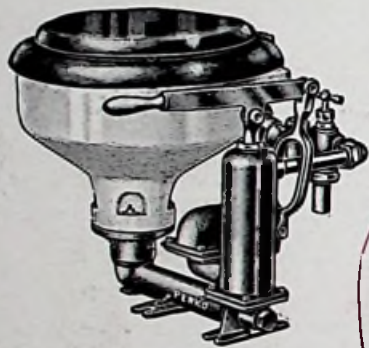


Fig. 828

With Horizontal Handle and Hand Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$40.00
2 With Mahogany Seat and Cover, Open Front	41.00
3 With White Seat and Cover, Closed Front	42.50
4 With White Seat and Cover, Open Front	43.50

The Cruiserman

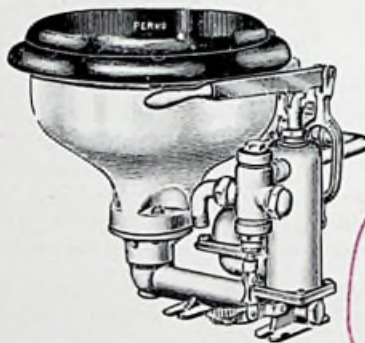


Fig. 1121

With Horizontal Handle and Foot Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$43.00
2 With Mahogany Seat and Cover, Open Front	44.00
3 With White Seat and Cover, Closed Front	45.50
4 With White Seat and Cover, Open Front	46.50

The Seaman

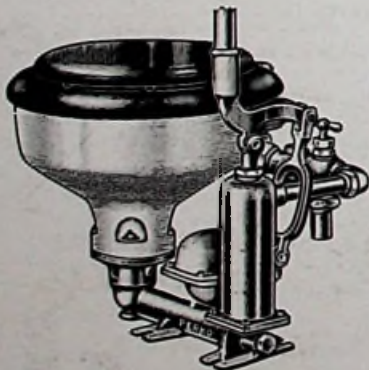


Fig. 1026

With Vertical Handle and Hand Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$42.00
2 With Mahogany Seat and Cover, Open Front	43.00
3 With White Seat and Cover, Closed Front	44.50
4 With White Seat and Cover, Open Front	45.50

The Yachtsman

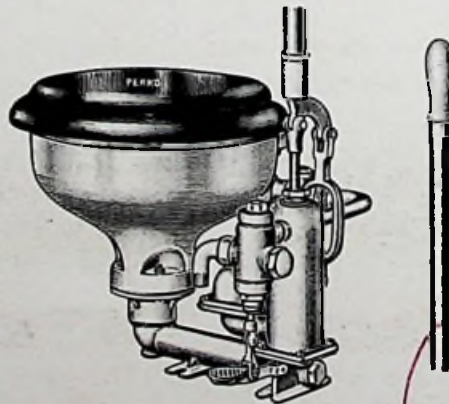


Fig. 829

With Vertical Handle and Foot Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$45.00
2 With Mahogany Seat and Cover, Open Front	46.00
3 With White Seat and Cover, Closed Front	47.50
4 With White Seat and Cover, Open Front	48.50

NOTE—All furnished with pump on right or left hand side. Right hand facing furnished unless otherwise specified.



The Guardsman

3 1/2 INCH PUMP—CAST BRONZE—WHITE FINISH
FELT PACKED PISTON
VERTICAL HANDLE AND FOOT VALVE

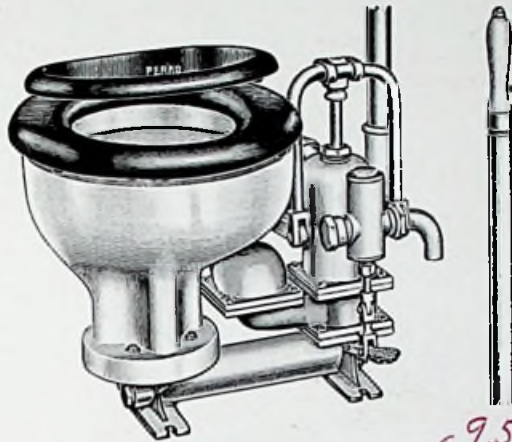


Fig. 1122

- | | |
|--|---------|
| No. | Each |
| 1 With Mahogany Seat and Cover, Closed Front | \$85.00 |
| 2 With Mahogany Seat and Cover, Open Front | 86.00 |
| 3 With White Seat and Cover, Closed Front | 87.50 |
| 4 With White Seat and Cover, Open Front | 88.50 |

DIMENSIONS OVERALL—Side to side, 20 1/4 inches; front to back, 16 1/2 inches; height, 17 inches.

CONNECTIONS—Outlet, 2 inches; inlet, 1 inch.

WASTE ARM—Has 3/4 inch pipe size clean out openings in both ends.

BORE—3 1/2 inches; stroke, 3 1/2 inches.

HANDLE is chromium plated heavy brass tubing.

Furnished with pump on right side facing unless otherwise specified.

Seats and Covers

WITH BRASS, CHROMIUM PLATED HINGES
MAHOGANY OR WHITE FINISH



Fig. 1127
Closed Front



Fig. 1128
Open Front

These are made of birch wood, finished in several coats of hand rubbed mahogany or white enamel.

Fig.	Mahogany Each	White Each	Outside Diam. Inches	Outside Depth Inches	Centers of Bolts Inches
1127	\$4.75	\$6.00	14	14	5 3/8
1128	5.75	7.00	14	14	5 3/8

The above are for all "Perko" Closets.

White Vitreous China Bowls WITH FLUSHING RIM

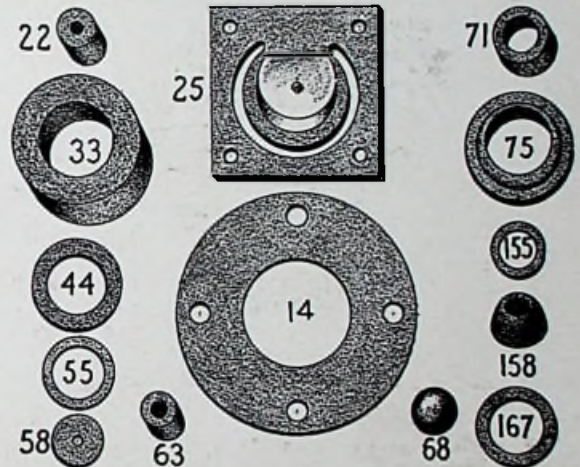


Fig. 1125

No. 1 for closets Figs. 828, 829, 1026, 1121.
No. 2 for closet Fig. 1122.

No.	Each	Height Overall Inches	Diam. Base Inches	Outside Diam. Top Inches	Centers of Bolt Holes Inches
1	\$13.00	8	4 1/4	12 1/2	3 5/8
2	18.00	12	7	12 1/2	4 1/2

Repair Parts for "Perko" Closets



Repair kits for 828 and 1026 consisting of parts No. 14 to 75 inclusive..... Each \$3.00

Repair kits for 829 and 1121 consisting of all parts No. 14 to 167 inclusive..... Each \$3.60

Part No.	Part Name	Each
14	Rubber Gasket for Bowl Flange	\$.45
22	Graphite Packing for Piston Rod	.30
25	Leather Clack Valve, Weighted	.60
33	Felt Packing for Piston	.60
44	Rubber Washer for Rising Main Coupling	.15
55	Rubber Washer for Hand Valve Coupling	.15
58	Rubber Disc for Hand Check Valve	.15
63	Graphite Packing for Hand Valve Stem	.15
68	Rubber Ball for Return Check Valve	.20
71	Graphite Packing for Flush Elbow	.15
75	Rubber Gasket for Bowl Spud	.25
155	Rubber Washer for Foot Valve Coupling	.15
158	Rubber Washer for Foot Valve Seat	.25
167	Rubber Washer for Foot Valve Cap	.15

METAL PARTS FOR CLOSETS

Part No.	Part Name	Each
73	Cylinder Packing Nut	\$.50
173	Pump Piston Rod	1.00
57	Intake Valve Stem	.60
73	Flush Pipe for Fig. 828 and 1026	.30
83	Pin for Piston Rod Yoke	.25
86	Piston Rod Yoke	.50
173	Flush Pipe for Fig. 829 and 1121	1.00



Outlet Connections

CAST BRONZE

Used as outlet fittings for engines, pumps, lavatories, water closets, etc. Threaded to fit standard pipe. Complete with large flange lock nut.



Fig. 322

Size Pipe Inches	Each	Length Under Flange Inches	Weight Each
1/4	\$.85	1 3/8	1 oz.
3/8	.90	2 3/8	3
1/2	.95	2 3/8	4
3/4	1.15	2 1/2	8
1	1.40	2 1/2	12
1 1/4	2.00	3	1 1/2 lbs.
1 1/2	2.50	3 3/8	2 1/4
2	3.75	3 1/2	2 1/2
2 1/2	6.00	3 1/2	3 1/4

Scoop Strainers

CAST BRONZE

Can be used with inlet connection, Fig. 64. No. 1 will fit up to 1/2 inch. No. 2 will fit up to 1 inch. No. 3 will fit up to 1 1/4 inches.



Fig. 66

No.	Each	Outside Dimensions Inches	Weight Each
1	\$.35	3 1/2 x 2 1/2	4 oz.
2	.50	5 x 3 1/4	7 oz.
3	1.00	6 1/4 x 4 1/4	1 lb.

Round Strainers

PLAIN CAST BRONZE



Fig. 86

Diam. Inches	Each	Depth Inches	Weight Each
2 1/2	\$.30	1/2	2 oz.
3	.35	5/8	4 oz.
3 1/2	.50	3/4	5 oz.
4	.60	3/4	6 oz.
5	1.00	1	12 oz.
6	1.25	1 1/4	1 lb.
8	2.50	1 3/8	2 lbs.
10	4.00	1 3/8	3 lbs.

Inlet Connections

CAST BRONZE

A good, dependable connection, easy to install. Fits flush with outside of hull. Complete with large flange lock nut and hose coupling.



Fig. 64

Size Pipe Inches	Without Strainer Each	With Strainer Each	For Planking Inches	Weight
1/4	\$1.25	\$1.50	7/8	2 oz.
3/8	1.30	1.55	1 1/8	4
1/2	1.45	1.75	1 3/8	7
3/4	1.80	2.15	1 5/8	10
1	2.15	2.60	1 3/4	1 lb.
1 1/4	3.00	3.50	1 3/4	2
1 1/2	3.75	4.35	2 1/4	2 3/4
2	5.75	6.40	2 1/2	3 3/4

Bronze Sea Cocks

WITH DRAIN PLUGS—ROUND WAY



Fig. 835



Fig. 834

Size Inches	Fig. 835 Each	Fig. 834 Each	With Strainer Add Each	Without Hull Connection Deduct Each
3/4	\$ 5.35	\$ 5.70	\$.35	\$.85
1	6.35	7.00	.45	1.10
1 1/4	10.75	11.35	.50	2.00
1 1/2	12.20	12.95	.60	2.20
2	17.70	18.45	.65	2.70

Water Outlet

CAST BRONZE

For use on boats with water outlet on side of hull. Large flange protects hull from stain. Hood prevents spray entering boat. Standard pipe thread will fit standard lead pipe connections.



Fig. 332

No.	Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight
1	3/4	2 1/4	2 1/4	12 oz.
2	1	3	3 1/4	1 lb.

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$2.00	\$2.50	\$2.75
2	2.50	3.00	3.25

Speedboat Strainers

CAST BRONZE ONE PIECE

Designed to prevent clogging. Will admit full supply of water at all speeds.

Entire strainer including threaded neck is one solid casting.



Fig. 65

Size Pipe Inches	Each	Length Strainer Inches	Size Strainer Inches	Weight Each
1/2	\$1.40	2 1/4	2 1/2 x 3 1/2	11 oz.
3/4	1.65	2 3/8	3 x 4	14 oz.
1	2.25	3	3 x 4	1 1/4 lbs.
1 1/4	3.00	3 3/8	3 3/8 x 4 1/2	1 3/8 lbs.
1 1/2	3.75	3 3/8	4 1/4 x 6 1/4	2 1/2 lbs.

Angle Sea Cocks

CAST BRONZE—FOR HULL CONNECTIONS



Fig. 836

Heavy cast bronze handle.

Tail piece for lead pipe or hose connection — 3/4 inch for inlet, 1 1/4 inch for outlet.

Size Inches	Without Hull Connection Each	With Hull Connection Each	With Strainer Add Each	Weight Pounds
3/4	\$3.85	\$4.55	\$.35	2
1 1/2	6.85	8.70	.60	4

"Perko" Alcohol Burner CAST BRONZE



Fig. 979

Each	
Burner with Needle Valve, Control Handle, no Fittings or Filter	\$5.00
Wire Brush Filters Only	1.00
Pre-Heating Pan Only	.60
Packing Nut for Valve Stem	.15

Fuel Tank for Alcohol Stoves COPPER—1 GALLON CAPACITY



Fig. 980

Made of heavy weight sheet copper, highly polished. Fittings include shutoff valve, 5 feet of copper tubing and tubing connections.

Complete With Fittings Each	Tank Only No Fittings Each	Diameter Inches	Length Inches
\$5.00	\$4.00	5½	11¼

Alcohol Stove Parts

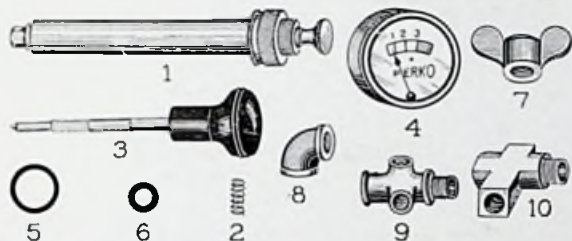


Fig. 1184

No.	Each
1 Fuel Tank Pump Complete	\$1.75
2 Pump Check Valve Spring	.20
3 Needle Valve with Control Handle	1.30
4 Pressure Gauge	1.50
5 Lead Gasket for Filler Cap	.20
6 Lead Gasket for Wing Nut	.20
7 Wing Nut for Filter Entrance	.30
8 Elbow for Fuel Line	.40
9 Fitting for Gravity Stove Fuel Line	.75
10 Fitting for Pressure Stove Fuel Line	.60

Liverpool Heads

Of heavy gauge metal, all parts riveted, top and bottom double seamed. Fits over standard stove pipe.



Fig. 347

Size Inches	Galv. Each	Brass Each
3	\$ 6.00	\$ 7.75
3½	6.25	8.00
4	6.50	8.25
4½	7.25	9.50
5	8.00	10.25
5½	9.50	11.25
6	10.00	13.25

Larger sizes made to order, price on application.

Tail Pieces

CAST BRONZE—FOR SEACOCKS

For lead pipe or hose connections, furnished complete with leather washer.



Fig. 67
Straight Tail Piece



Fig. 78
90 Degree Tail Piece

No.	I. P. S. Size Inches	Fig. 67 Each	Fig. 78 Each
1 For ¾ inch Seacock	1	\$.75	\$1.40
2 For 1 inch Seacock	1¼	1.00	1.70
3 For 1¼ inch Seacock	1½	1.25	2.00
4 For 1½ inch Seacock	2	2.00	2.75
5 For 2 inch Seacock	2½	3.00	3.75

Water Deck Irons GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Price Each	Outside Diam. of Neck Inches	Diam. Flange Inches	Weight Pounds
2½	\$1.50	2¾	6½	1¾
3	1.75	3⅞	7½	4
3½	2.00	3⅞	8½	5
4	2.25	4⅞	9¼	6¼
4½	2.50	4⅞	10	8
5	2.75	5⅞	10½	9
5½	3.50	5⅞	11	9¾
6	4.00	6½	11¼	11¼
7	5.00	7⅞	12¾	13¼
8	7.00	8⅞	13¾	19

3 3/3 70

"PERKO" ALCOHOL STOVES

GRAVITY OR PRESSURE TYPES—2 OR 3 BURNERS
IN PAINTED IVORY FINISH OR WHITE VITREOUS ENAMEL, BLACK TRIM
WITH CHROMIUM PLATED ADJUSTABLE FRONT RAIL—CAST BRONZE BURNERS

CONSTRUCTION—Of heavy gauge sheet steel, welded at all joints.

BURNERS—Are cast bronze with slotted openings for blue flame which covers a large area and produces intense cooking heat.

TRAYS—Are removable, rattle proof and finished to match stove body.

GUARD RAIL—Is adjustable for various sizes of pots, fastened in position by thumb nuts.

GRATES—Are hot galvanized for the ivory stove and black vitreous enameled for the enameled stove.

FUEL—A good grade of "Burning Alcohol" should always be used.

Gravity Type

WITH ONE GALLON POLISHED COPPER TANK
AND FIVE FEET OF COPPER TUBING

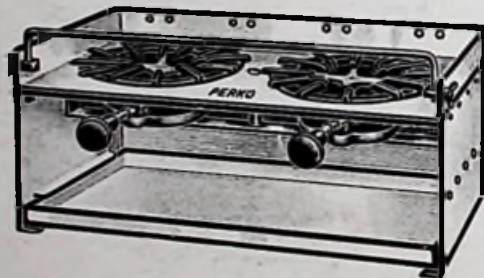


Fig. 562

Has ample space between tray and burners. Handy for keeping dishes or food warm.

Two burners will operate about 10 hours on one gallon of alcohol.

No.	Extreme Length Inches	Extreme Height Inches	*Extreme Width Inches	Weight Complete Pounds
2 Burner	20	8½	12¼	26
3 Burner	31	8½	12¼	35

No.	2 Burner Complete Each	3 Burner Complete Each	Chromium Pot Holders Per Pair
1 Ivory Painted	\$20.00	\$29.50	\$3.00
2 Vitreous Enameled	24.00	35.50	2.00

Without Tank, Tubing or Fittings deduct \$2.00 each.

Pressure Type

WITH PRESSURE GAUGE, AIR PUMP AND
CYLINDRICAL FUEL TANK

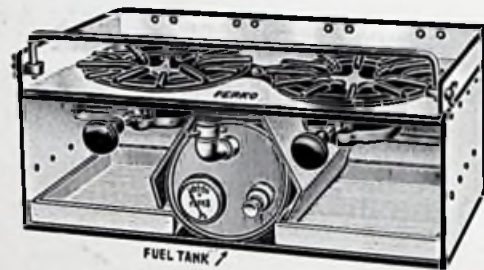


Fig. 574

AIR PRESSURE GAUGE is installed in the tank, it is very accurate, easy to read and shows the maximum operating pressure for best results.

FILLER PLUG, improved guaranteed non leakable.

FUEL CONSUMPTION, two burners will operate about 12 hours on one gallon of alcohol and one pound air pressure.

FUEL TANK, one gallon capacity. Heavy gauge, leakproof.

TANK SHIELD, to protect tank from heat, lined with sheet asbestos ¼ inch thick.

No.	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches
2 Burner	20	12¼	8½
3 Burner	31	12¼	8½

No.	2 Burner Complete Each	3 Burner Complete Each	Chromium Pot Holders Per Pair
1 Ivory Painted	\$27.00	\$36.50	\$3.00
2 Vitreous Enameled	31.50	42.50	2.00

NOTE—Width shown is extreme of body, not including valve handle.

State number of burners when ordering.

New "Perko Primus" Kerosene Stoves

WHITE VITREOUS ENAMELED FINISH—CHROMIUM PLATED PRESSURE TANK
CHROMIUM PLATED ADJUSTABLE FRONT RAIL
VERY EFFICIENT—ECONOMICAL—SAFE

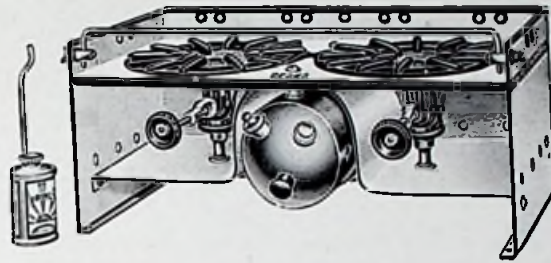


Fig. 1160

PRIMUS Burners are world famous and stand head and shoulders above all other kerosene burners. We are now furnishing these patented burners combined with the PRIMUS pressure tested fuel tank in the same popular enameled body as used for our alcohol stove Fig. 574.

PRIMUS Burners at all times and under most trying conditions function perfectly, efficiently and safely. Being of the wickless type they are clean, smokeless, and odorless.

Black Bakelite control knobs regulate, clean, and extinguish the burner as easily as a standard gas range. Burners contain a built-in cleaning device for the nipple and shutoff valve. The burners can be turned down to a simmering flame or up to an intense hot flame that will boil a quart of water in three minutes. The fuel tank holds enough cheapest of all liquid fuel to burn both burners for about four hours.

	Complete Each	Complete With Gimbals as Fig. 591 Each	Extreme Length Inches	Extreme Height Inches	Extreme Width Inches	Capacity of Tank Quarts
2 Burner	\$26.00	\$36.00	19 3/4	8 1/4	10 1/2	2
3 Burner	39.00	50.00	31	8 1/4	10 1/2	2

"Primus" Cooker-Heaters

FOR KEROSENE OIL
WITH INTERNAL MECHANICAL CLEANING DEVICE

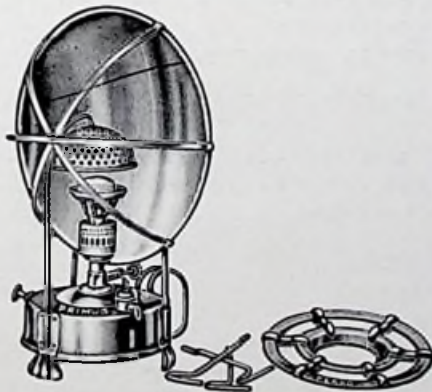


Fig. 1161

Can be used alternatively as a cooker or as a heat radiator.

Consists of a Primus 1 burner cooker with heating cone and holder, reflector and flame guard.

By removing the radiator parts quickly without tools and replacing same with grate and holders a fine 1 burner cooking stove is ready for use.

No.	Complete Each	Height With Reflector Inches	Height With Grate Inches	Capacity Tank Pints
1	\$12.25	15 3/4	8 1/4	2
2	16.50	17 1/2	9 3/8	3

No. 1 size is brass, polished.
No. 2 size is brass, nickel plated.

"Primus" Cooking Stove

FOR KEROSENE OIL
POLISHED BRASS

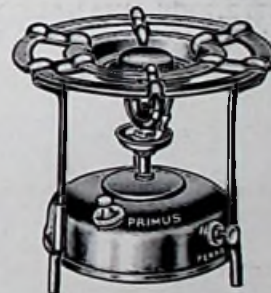


Fig. 1162

Excellent economical quick cooking stove for small boats, campers, weekenders, etc., or for cooking on deck or in cockpit of yachts, cruisers, etc.

Collapsible and take up little space when packed.

One filling will last about 4 hours. Will boil 1 quart of water in 3 minutes.

Complete Each	Extreme Height Inches	Capacity Tank Pints	Weight Pounds
\$5.50	8 1/4	2	2 1/8

Perko Cabin Heater

WITH ALCOHOL BURNER AND PRESSURE TANK
WHITE VITREOUS ENAMELED FINISH



Fig. 590

A heater that is extremely attractive in appearance, and will increase the temperature of the average cabin 15 to 20 degrees in less than one hour.

Contains our well known alcohol burner, pressure tank, air gauge, air pump, heating elements, etc., all entirely enclosed in white vitreous enameled sheet steel body.

Door is sliding type, cannot open accidentally. Tank is kept cool by ample ventilation.

Each Complete	Extreme Height Inches	Extreme Width Inches	Extreme Depth Inches	Capacity of Tank Gallons
\$27.00	16	10½	14½	¾

Pressure Alcohol Stove in Gimbals

WHITE VITREOUS ENAMELED STOVE
CAST BRONZE GIMBALS

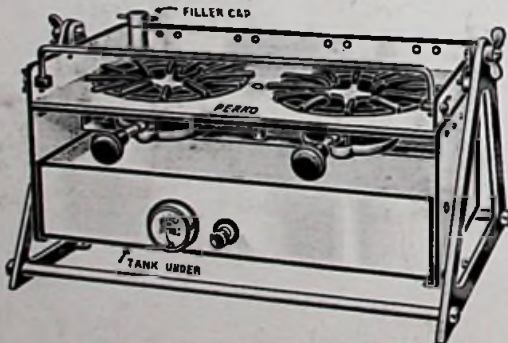


Fig. 591

Stove hangs in balanced horizontal plane when vessel is heeled over to port or starboard. This feature is particularly desirable on sailing craft but very useful on vessels of all types.

Stove will not sway unnecessarily when thumb nuts are tightened.

The stove is our Fig. 574 2 burner shown on page 86.

No.	Complete Each	Gimbals Only Each	Extreme Length Inches	Extreme Height Inches
1 Ivory Painted	\$37.00	\$10.00	22	11½
2 Vitreous Enameled	41.50	10.00	22	11½

Hot Air Cabin Heater

CAST IRON PLATE—CAST ALUMINUM BODY
6-12-32 AND 110 VOLTS

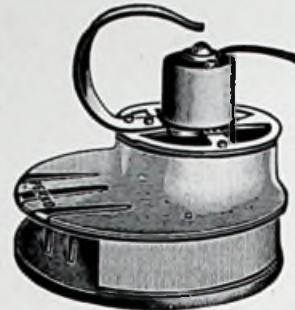


Fig. 595

Now you can use your galley stove to heat your boat.

Works equally well on gas, alcohol, kerosene, coal or any other type of stove.

The TRADE WIND Hot Air Heater takes the heat from the stove and distributes it to all corners of the cabin. This blast of hot air will heat the average cabin in a few minutes and maintain a comfortable temperature as long as required.

Just place the heater on the stove over the burner, connect electric fan wires to battery, light the stove and in a few minutes the cabin will be as comfortable as you want it.

Temperature of air can be regulated by height of flame on stove.

This heater consists of a heating chamber, small electric fan, switch for fan and handle for carrying.

HEATS INSTANTLY—ECONOMICAL TO OPERATE

Ampere draw from battery is very slight.

Volts	Each	Amperes	Diameter Inches	Height Inches	Weight Pounds
6	\$17.00	1.5	8½	7	9½
12	18.00	.75	8½	7¼	9¾
32	19.00	.28	8½	7¾	10¼
110 D.C.	21.50	.08	8½	8	11

The 110 volt heater furnished for D. C. current only.

Specify Voltage When Ordering.

Pot Holders

ALL BRASS

For all our vitreous enameled stoves Figs. 562, 574, 591 and 1160.

Adjustable on the stove for various sizes of pots, pans, etc.

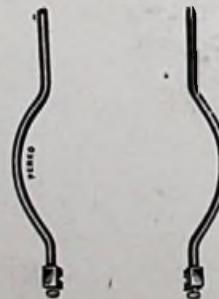


Fig. 1116

Polished Brass Per Pair	Chromium Plated Per Pair	Length Overall Inches
\$1.75	\$2.00	12

OVENS

FOR PERKO ALCOHOL STOVES

Bakes and roasts over any kind of cooking burner (alcohol, gas, gasoline, or oil), consuming but one-quarter the fuel required to heat ordinary range oven. Bakes biscuits, pies, muffins, cakes, custards, puddings, beans, macaroni and cheese, potatoes, etc., thoroughly and well, roasts meats to a turn.

The Gem



Fig. 1104

Gem Oven is built of high-grade material and consists of asbestos lined Hood with Heat Indicator, Base with Octagon Shelf insulated with asbestos. Wire Stand and Tripod.

Each	Height Inches	Size Bottom Inches	Size Middle Inches	Weight Pounds
\$3.50	10	9½x9½	12x12	8

The Stanley

WITH HEAT INDICATOR

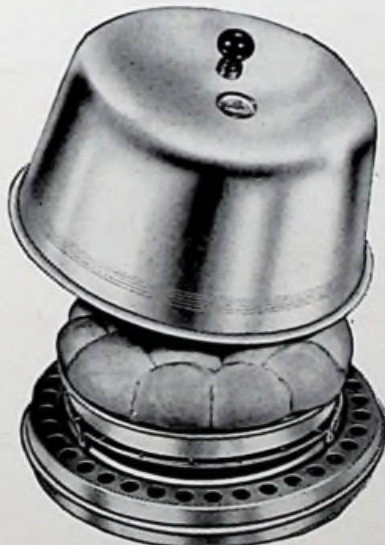


Fig. 1103

Stanley Oven consists of aluminized steel base with heat deflector lined with heavy asbestos, tinned wire stand and polished aluminum hood.

Each	Height Inches	Diameter Inches	Weight Pounds
\$2.75	6¼	10⅝	6

Operating Directions Furnished with Each Oven

Safety Electric Fans

STREAMLINED FLEXIBLE RUBBER BLADES

6 OR 12 VOLTS



Fig. 244

Invaluable for circulating air in small cabins, etc., where space is limited. The flexible rubber blades eliminate possibility of accidents but furnish maximum air delivery.

Furnished with bracket and integral turn switch, attractively finished in light gun metal enamel.

6 Volt Each	12 Volt Each	Diam. Fan Inches	Depth Overall Inches	Weight Pounds
\$3.95	\$5.95	6	4¼	1

Specify voltage when ordering.

Electric Fans

MARINE TYPE—6-12-32-110 VOLTS

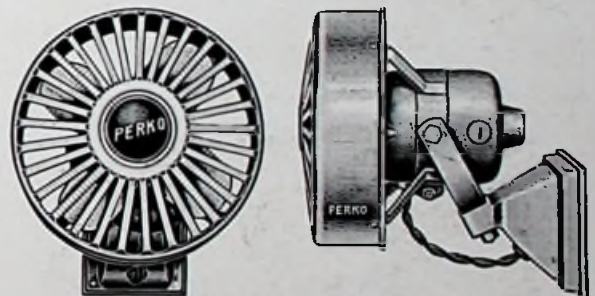


Fig. 648

An ideal fan for small cabins. The motor is of sturdy semi-enclosed construction with bronze bearings. The fan is adjustable to any suitable angle, and has a cast aluminum safety guard around the blades.

The air delivery is approximately 300 cubic feet per minute at a velocity of 400 feet per minute.

The power consumption is approximately 25 watts.

Standard finish is gray lacquer.

Each	Height Overall Inches	Diam. Guard Inches	Diam. Blades Inches	Size Base Inches	Weight Pounds
\$14.50	8	7	6	2¾x2¾	6

Specify voltage when ordering.



"Perko" Marine Exhaust Fans

ELECTRIC 6—12—32—OR 110 VOLTS
HEAVY CAST ALUMINUM CASING AND FLANGE

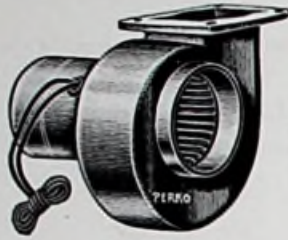


Fig. 778

For removing dangerous gasoline fumes from the bilge and engine room, exhausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and bilges.

An absolute necessity to the motor boat because their use decreases the hazard of fires and explosions from gasoline fumes.

Exhaust fan consists of heavy duty fully enclosed spark proof motor driving a sirocco type exhaust fan.

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches		Capacity Cubic Feet Per Minute	Size Flange Inches	
			No. 1	No. 2		No. 1	No. 2
1	3	2 1/4	7 1/2	6x6	90	3 1/2	3 1/2
2	4	4	8 1/2	8x8	186	4 1/2	4 1/2

Volts	No. of Fans		Amperes		Watts	
	No. 1	No. 2	No. 1	No. 2	No. 1	No. 2
6	\$12.00	\$22.00	3.25	7.	19.6	42.0
12	13.00	23.50	1.70	4.	20.8	48.0
32	14.00	25.00	.75	1.5	20.0	49.0
110	16.50	27.50	.25	.45	27.0	50.0

The 110 volt fan is for direct current only.
A caution plate is furnished with every fan.

Blower and Ignition Switch

CAST BRONZE
FLUSH TYPE



Fig. 149

A way to automatically prevent starting the engine until the blower or exhaust fan has been turned on.

Clear bilges and engine room of dangerous fumes before starting motor.

	Chromium Plated	Diam. Face Plate	Diam. Box	Depth
Polished Bronze Each	\$6.00	2 3/4	2 1/4	1 1/4
Chromium Plated Each	\$7.00			

Exhaust Fan Ventilator

WITH SWIVEL DECK PLATE—CAST BRONZE



Fig. 634

Can be turned in any direction, made in two heights, furnished with cover for deck plate when vent is removed. Side of deck flange can be cut away for installing against side of deck house.

No.	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	2	6 1/8	2 1/4 x 4 1/2	\$8.00	\$8.75	\$9.50
2	2	8	2 1/4 x 4 1/2			

"Perko" Exhaust Fan and Ventilators

WITH ROUND OR OVAL MOUTH VENTILATOR AND NO. 1 EXHAUST FAN, 3 INCH INTAKE

Round Mouth

Oval Mouth

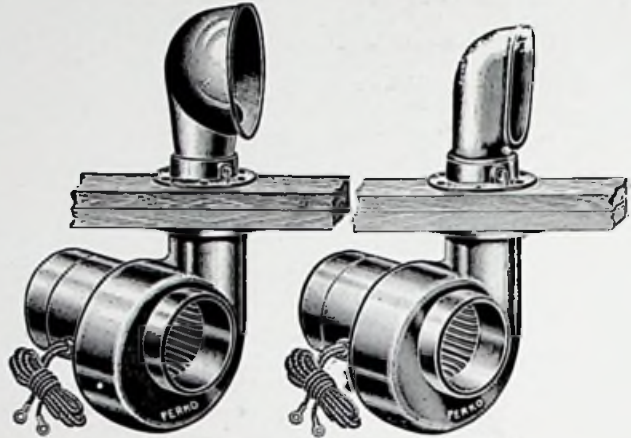


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 2 1/2 inch bottom opening, 5 inch mouth, 7 inches high overall.

Fig. 781 has a cast bronze ventilator 2 inch bottom opening, 2 1/4 x 4 1/2 inch mouth, 6 1/2 inches high overall.

6 Volt		
Fig. 780 Brass Complete Each	Fig. 780 Copper Complete Each	Fig. 781 Bronze Complete Each
\$21.50	\$23.50	\$20.00

For 12 volt fan, add \$1.00 each.
For 32 volt fan, add \$2.00 each.
For 110 volt fan, add \$4.50 each.

Turbine Ventilator

FOR MARINE USE
IMPROVED BEARING RUNNING IN OIL
GALVANIZED IRON AND COPPER



Fig. 744

For removing gasoline fumes from engine room and bilge, cooking odors from the galley, ventilation of the cabins, etc.

The moving breeze whirls the head and the resulting vacuum causes a powerful upward lift to the air below. Absolutely quiet in operation, durable and rainproof.

Diam. Body Inches	Galv. Iron Each	Copper Each	Height Overall Inches	Diam. Top Inches
4	\$ 9.00	\$13.50	13 1/4	7 1/4
5	9.00	13.50	15 1/4	8 1/4
6	9.00	13.50	16 1/4	9 1/2
7	9.50	14.50	17 1/4	11 1/2
8	10.50	15.50	19 3/4	13
10	12.00	18.50	22 1/4	16 1/4
12	14.50	23.50	24 1/2	19 1/2

Ship and Yacht Ventilators

SEAMLESS STEEL—HEAVY GAUGE
HOT DIPPED GALVANIZED

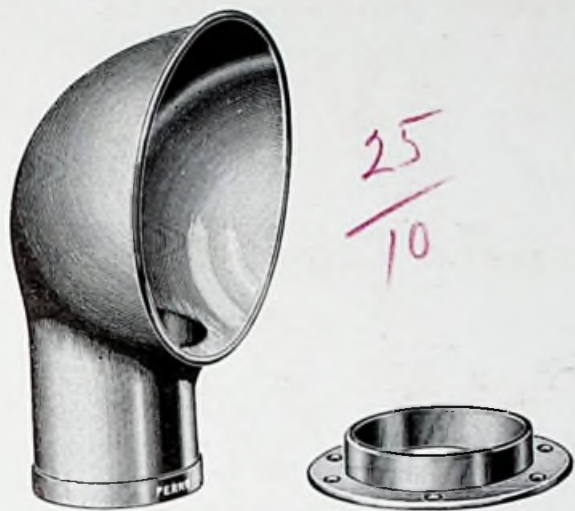


Fig. 557

Made of black sheet steel and hot galvanized after fabrication. Joints are welded smooth before galvanizing and have no visible seams after galvanizing.

Sizes up to 16 inch inclusive of 18 gauge steel, larger sizes of 16 gauge steel.

Furnished with brass rim around mouth and with or without bottom bands or deck flanges.

Flange illustrated is not a swivel type, it is fitted to the cowl to hold same in fixed position.

Diam. Bottom Opening Inches	Hood Only Without Band Each	Hood Only With Band Each	Hood With Galvanized Deck Flange Each	Diam. Mouth Inches	Height Overall Inches
10	\$ 44.00	\$ 47.00	\$ 59.00	20	26
12	54.00	57.00	71.00	24	30
14	63.00	66.00	82.00	28	36
16	70.00	73.00	91.00	32	42
18	80.00	83.00	103.00	36	48
20	90.00	94.00	117.00	40	52
24	110.00	114.00	140.00	48	60

Also furnished in copper—price on application.

We can furnish above with galvanized and bronze swivel deck plates as Fig. 419. Price on application.

Oval Mouth Ventilators

CAST BRONZE

Of high grade castings, finely finished, green enameled interior.

The screw type is furnished complete with watertight cover and key for use when vent is removed.

The swivel type is adjustable and can be fastened in any position by three thumb screws. A brass friction cover is also furnished for use when vent is removed.

SCREW TYPE



Fig. 509

Plate Opening Inches	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$12.00	\$14.00	\$16.00	8 1/8	6 1/4 x 4
4	15.00	17.00	19.00	8 3/8	6 1/2 x 4 1/4

SWIVEL TYPE



Fig. 515

Diam. Throat Inches	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$13.00	\$15.00	\$17.00	9 1/8	6 1/4 x 4
4	16.00	18.00	20.00	9 3/8	6 1/2 x 4 1/4

Ice Box Ventilators

CAST BRONZE—POLISHED

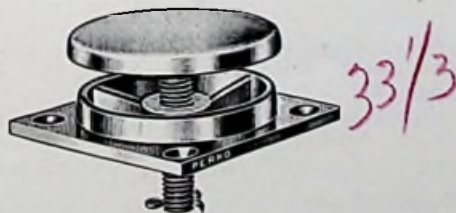


Fig. 783

No.	Pollshed Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$2.00	\$3.00	1 3/8	2 1/2 x 2 1/2
2	2.25	3.25	2 1/2	3 1/4 x 3 1/4
3	3.25	4.25	3	4 1/8 x 4 1/8
4	4.00	5.25	3 3/8	4 7/8 x 4 7/8

Swivel Ventilator

ROUND MOUTH—CAST BRONZE

Made of heavy cast bronze, swivel deck plate, thumb screw for fastening in position. Cast cover to take place of vent when removed. Set screw to prevent loss of thumb screw. Vent painted green on inside.



Fig. 198

Diam. bottom opening, 3 1/4 in.
Diameter mouth, 5 3/8 inches
Height overall, 9 inches
Diameter base, 6 1/4 inches
Weight each, 11 pounds

	Each
Pollshed	\$13.50
Nickel Plated	15.50
Chromium Plated	17.50



Seamed Hood Ventilator

WITH BRONZE SCREW DECK PLATE

Constructed of heavy sheet steel or brass. Steel ventilators are completely formed and then hot galvanized.



Fig. 151

Deck Plate Opening Inches	Opening of Mouth Inches	Height Inches
2	4	5
2½	5	6
3	6	7
3½	7	10
4	8	11
4½	9	12
5	10	14
6	12	15
8	16	21

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
2	\$ 7.00	\$ 9.50
2½	7.50	10.00
3	8.00	10.50
3½	8.75	11.25
4	10.00	12.50

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
4½	\$13.50	\$16.00
5	16.25	18.75
6	22.00	24.50
8	50.00	60.00

Riveted Hood Ventilator

WITH BRONZE SCREW DECK PLATE

Constructed of heavy gauge sheet steel, hot galvanized or brass. Riveted at the joints. Brass rim around mouth on galvanized vents, 4½ inch and smaller.



Fig. 369

Deck Plate Opening Inches	Diam. Mouth Inches	Height Overall Inches
3	6	8
3½	7	9
4	8	11
4½	9	12
5	10	13
6	12	15
8	16	20

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
3	\$13.00	\$16.00
3½	15.00	18.00
4	17.50	21.00
4½	20.50	25.00

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
5	\$25.00	\$30.00
6	31.00	37.00
8	60.00	70.00

For Large Size Ventilators, See Fig. 557

Seamed Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Heavy sheet steel or brass. Steel vents are hot galvanized after forming. Furnished with spun brass cover for deck plate when vent is removed, at small additional charge.



Fig. 575

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches
3	6	7½
4	8	10
5	10	12½
6	12	15
8	16	20

Deck Plate Size Inches	Galv. Each	Polished Brass Each
3	\$10.50	\$13.00
4	13.00	16.00
5	19.50	23.50

Deck Plate Size Inches	Galv. Each	Polished Brass Each
6	\$27.00	\$33.00
8	53.00	63.00

Riveted Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Made of heavy gauge sheet steel, hot galvanized or brass. All joints riveted. Brass rim around mouth on galvanized vents, 4½ inch and smaller. Brass cover for deck plate at small additional charge.



Fig. 368

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches
3	6	8
4	8	11
5	10	13
6	12	15
8	16	20

Deck Plate Size Inches	Galv. Each	Polished Brass Each
3	\$15.50	\$18.00
4	20.50	23.50
5	28.25	32.25

Deck Plate Size Inches	Galv. Each	Polished Brass Each
6	\$36.00	\$42.00
8	63.00	73.00

THE SIZES SHOWN ON THE ABOVE VENTILATORS ARE STANDARD. SPECIAL DIAMETERS AND LENGTHS CAN BE FURNISHED, MADE TO ORDER. SPECIAL PLATED OR PAINTED FINISHES AT SMALL ADDITIONAL CHARGE.

Above items desired CHROMIUM PLATED, add 40% to Polished Brass Price

Spun Ventilators

Spun from heavy gauge sheet brass or copper. Complete with cast bronze screw deck plate, cover and key.



Fig. 152

Deck Plate Size Inches	Polished Brass Each	Polished Copper Each	Diameter Mouth Inches	Height Overall Inches
2	\$ 9.00	\$11.00	4	6
2½	9.50	11.50	5	7
3	10.00	12.00	6	8
3½	11.00	13.00	7	9
4	12.00	15.00	8	10½
5	18.00	22.00	10	14

Chromium Plated, add 40% to above prices.

Cast Bronze Hood Ventilator

WITH SCREW DECK PLATE



Fig. 421

A ventilator that will last longer than the boat. Highly polished on outside, painted green on inside. With cover and key for screw deck plate.

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches	Net Weight Lbs.
3	6	7¾	4½
4	8	9¾	8½

Size Inches	Polished Bronze Each	Chromium Plated Each
3	\$12.00	\$16.00
4	15.00	19.00

Hammered Copper Ventilators

WITH SCREW OR SWIVEL DECK PLATE

Heavy gauge sheet copper, hammered to shape by hand, hammer marks remaining in surface. With cover and key for screw deck plate.

Screw Deck Plate

Swivel Deck Plate



Fig. 367



Fig. 560

Size Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches
3	\$19.50	\$22.50	6	8
4	25.50	29.50	8	11
5	41.00	45.00	10	13
6	45.00	50.00	12	15
8	70.00	72.00	16	20

Larger Sizes—Price on Application

Seamless Steel Ventilators

HOT DIPPED GALVANIZED
WITH CAST BRONZE DECK PLATES



Screw Deck Plate

Fig. 510



Swivel Deck Plate

Fig. 513

These are our latest improvement in hood type ventilators, made of heavy gauge sheet steel and hot galvanized after fabrication. The body is smooth and free of seams, has a brass rim around the mouth and makes a sturdy and good looking ventilator.

Cast Bronze Ventilator

ROUND MOUTH—SCREW DECK PLATE



Fig. 199

Diam. bottom opening, 3 inches
Diameter mouth, 6 inches
Height overall, 8½ inches
Diameter deck flange, 4¾ in.
Weight, 5 pounds

Polished Bronze Each	Chromium Plated Each
\$12.00	\$16.00

Deck Plate Opening Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches	Gauge Before Galvanizing
3	\$12.00	\$14.00	6	8	24
4	15.50	18.00	8	11	24
5	19.50	22.00	10	13	24
6	29.50	32.50	12	15	24
8	52.00	55.00	16	20	20



Directional Ventilating Outlets

PULLMAN TYPE
CAST BRONZE WITH BLACK BAKELITE NOZZLE

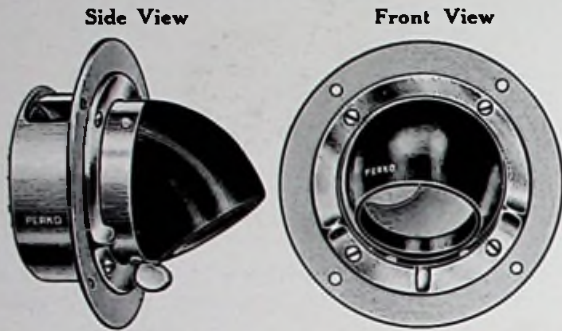


Fig. 946

For use with duct from cowl ventilator on deck to unit.

A rectangular shaped duct is recommended, the housing of the outlet enters the duct behind the finish and is fastened to finish by flange.

Outlet is closed or opened by swinging finger piece under nozzle to right or left.

Direction is controlled by turning nozzle as desired.

Opening in housing is 2 1/4 x 1 1/8 inches.

Diameter opening in nozzle is 2 inches.

Finish	Material	Diam. Housing	Depth Housing	Diam. Flange	Extension of Nozzle
Satin Finish Each	Chromium Plated Each	Inches	Inches	Inches	Inches
\$15.00	\$19.00	3 1/2	1 3/8	5 3/16	2 3/4

Cruiser Ventilator STREAMLINE—CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser decks and cabin roofs.

An integral water guard inside mouth prevents spray or rain from entering ventilator. A bronze screen permanently installed to keep insects out of cabin.

Material	Size Base	Height Overall	Weight
Polished Bronze Each	Inches	Inches	Pounds
\$7.75	7x7	3 1/2	4 3/4

Space Saver Ventilator

CAST BRONZE



Fig. 782

Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan Fig. 778.

No.	Inside Diameter at Base	Inside Measurements at Mouth	Extreme Height
	Inches	Inches	Inches
1	2 1/2	2 3/4 x 5	6 3/4
2	3 1/2	3 1/4 x 7 1/2	9
No.	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrome Plated Per Pair
1	\$5.00	\$5.50	\$ 7.75
2	8.25	9.00	12.00

Streamline Ventilator

FOR CRUISERS
CAST BRONZE

Side View



Front View



Fig. 633

Designed for mounting against side of deck house or cabin. Takes up very little space. Practical and pleasing to the eye. Will fit over pipe up to 2 inches.

Size of Mouth	Extreme Height	Extreme Length	Extreme Width	Weight
Inches	Inches	Inches	Inches	Pounds
4 x 1 3/8	5 3/4	6 3/4	2 3/8	1 3/8

Polished Bronze Per Pair	Chromium Plated Per Pair
\$7.00	\$9.00

A pair consists of one right hand and one left hand.

Clam Shell Ventilators

CAST BRONZE
IMPROVED

Now made in two sizes, with base improved in appearance.



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Oz.
4	2 3/4	1 3/4	3 3/8 x 3 1/2	11
5	3 1/2	2	4 x 3 3/4	14
				Chromium Plated Each
No.		Polished Bronze Each		
4		\$1.40		\$2.00
5		1.50		2.10

Engine Compartment Outlet Ventilator



Fig. 329

For use on hulls of runabouts or cruisers. Made of cast bronze, highly polished, interior painted in green enamel.

Polished Bronze Each	Chromium Plated Each	Diam. Opening Inches	Diam. Flange Inches	Weight Ounces
\$2.00	\$2.75	2 1/8	4	19

Streamline Ventilator

CAST BRONZE
CLAM SHELL TYPE

A new design of runabout ventilator that will match other streamline fittings on the deck. Made in three sizes, small size can be used as shield for water outlet in hulls of cruisers.



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Ounces
1	1 1/2	1	2 1/4 x 3	4
2	1 3/4	1	2 5/8 x 3 3/8	6
3	2 1/8	1 3/8	3 5/8 x 4 3/4	12
				Chromium Plated Each
No.		Polished Bronze Each		
1		\$1.20		\$1.70
2		1.30		1.80
3		1.40		2.00

Transom Ventilators

CAST BRONZE



Fig. 1069

The importance of ventilation to all parts of boats cannot be overstressed.

These are for installation in stern transom.

Furnished with or without mosquito screening.

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.00	\$1.50	\$2.25	6 3/4 x 2 1/4	3/4	3/4

With bronze screen soldered in add \$.50 each.

Streamline Ventilator

CAST BRONZE
FOR RUNABOUTS

Cast in one piece, painted green on inside.



Fig. 476

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Lbs.
6	3 1/2	2 3/4	5 x 6	1
7	4 3/8	3 1/4	6 x 7	2
8	5 1/4	3 1/2	7 x 8	2 3/4
				Chromium Plated Each
No.		Polished Bronze Each		
6		\$2.75		\$3.40
7		3.60		4.40
8		4.75		5.75

Self Locking Gas Tank Cap

CAST BRONZE



Fig. 520

A half turn will open or lock cap in an instant. Locking device is indicated at A. Interior of neck below flange is threaded for 1 1/2 inch pipe.

Polished Bronze Per Set	Chromium Plated Per Set	Diam. Opening Inches	Diam. Flange Inches	Height Closed Inches
\$2.25	\$3.25	1 1/2	3 1/8	1 1/4



Runabout Steerers

DASHBOARD TYPE—FOR TILLER ROPE
15 INCH WHEEL—PEARL GRAY FINISH
POLISHED ALUMINUM ALLOY CASTINGS
 These steerers combine good looks and sturdiness. The wheel is hard rubber with steel core. 10 feet of Bowden wire is furnished with steerers having throttle control.

WITH 22 DEGREE BRACKET

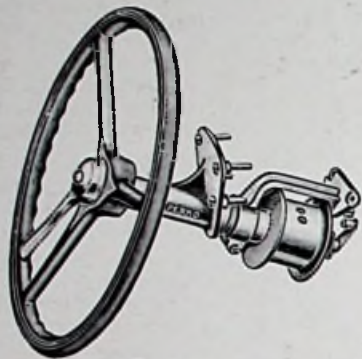


Fig. 1131

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Inside Drum Inches	Weight Pounds
\$14.75	\$16.00	6½	13	3	8

WITH 40 DEGREE BRACKET



Fig. 1149

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Inside Drum Inches	Weight Pounds
\$15.75	\$17.00	10½	17	3	9¼

Racing Outboard Steerers

WITHOUT CONTROLS



Fig. 737

NO. 1 WHEEL HAS PEARL GRAY FINISH.
NO. 2 WHEEL HAS BLACK FINISH.
 Aluminum alloy castings with hard rubber steel core wheel.

No.	Each	Diam. Wheel Inches	Diam. Base Inches	Extreme Height Inches	Diam. Drum Inches	Weight Pounds
1	\$10.00	15	6¼	5⅞	3	6½
2	10.50	16¾	7¼	6½	4	8

Runabout Steerer

IMPROVED DASH TYPE
WITH THROTTLE AND CHOKE CONTROLS
16¾ INCH WHEEL—BLACK FINISH
POLISHED BRONZE CASTINGS

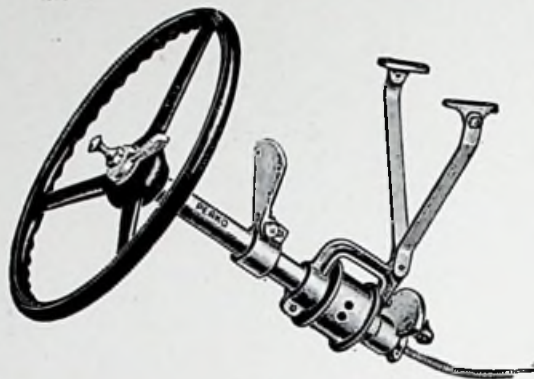


Fig. 448

This steerer designed for all types of boats, dashboard bracket and under deck brackets are adjustable to various angles. Dash bracket can be installed on inside or outside of dash.

Wheel is hard rubber, steel cored. Drum is aluminum.

Furnished with two 10 foot lengths of Bowden wire for throttle and choke controls.

Without Choke Control Each	With Choke Control Each	Length Overall Inches	Size Dash Bracket Inches	Inside Drum Inches	Weight Pounds
\$18.00	\$20.00	17¾	4x4	3	13

Exposed parts, chromium plated, add \$2.00 each.

Racing Outboard Steerers

WITH REMOTE THROTTLE CONTROL AND CUTOUT



Fig. 447

NO. 1 WHEEL HAS PEARL GRAY FINISH.
NO. 2 WHEEL HAS BLACK FINISH.

Wheel is hard rubber with steel core. All metal parts are aluminum alloy. Furnished complete with 10 feet Bowden wire and fittings.

No.	Each	Diam. Wheel Inches	Diam. Base Inches	Extreme Height Inches	Diam. Drum Inches	Weight Pounds
1	\$13.00	15	7⅞	6	3	7½
2	13.50	16¾	7⅞	6½	3	9½

Galvanized Steerers

GALVANIZED CAST IRON
MAHOGANY DRUM AND GRIPS
HEAVY PATTERN



Fig. 661

Diam. Inches	Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 4.00	3 3/8 x 3 3/8	2 3/8	3
16	5.75	4 x 4	2 5/8	3 3/8
20	9.50	5 1/8 x 5 1/8	3 1/8	4 5/8
25	20.00	5 3/4 x 5 3/4	4	6

Bronze Steerers

RIBBED PATTERN—WILL NOT BEND
MAHOGANY DRUM AND GRIPS



Fig. 725

Outer edges of Bronze Wheels are Polished. Inside surfaces are in Foundry Finish.

Diam. Inches	Polished Each	Chromium Plated Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 7.00	\$ 9.00	3 3/8 x 3 3/8	2 3/8	3
16	11.00	13.00	4 x 4	2 5/8	3 3/8
20	18.50	21.00	5 1/8 x 5 1/8	3 1/8	4 5/8

Bronze Steerers

OVAL RIM—OVAL SPOKES
MAHOGANY DRUM AND GRIPS

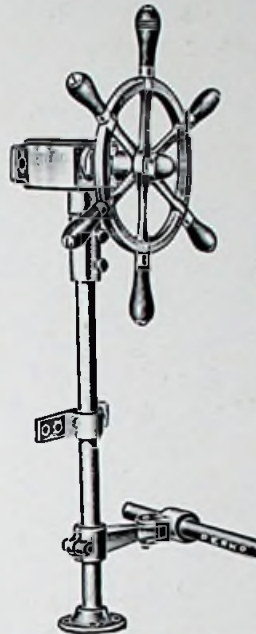


Fig. 660

Diam. Inches	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 7.00	\$ 9.00	3 3/8 x 3 3/8	2 3/8	3
16	11.00	13.00	4 x 4	2 5/8	3 3/8
20	18.50	21.00	5 1/8 x 5 1/8	3 1/8	4 5/8

Bronze Worm Geared Steerer

MODEL A-1



Worm type gears enclosed in cast bronze case produce powerful action remarkably smooth in operation and insures easy steering, 1 1/4 turns of the wheel obtains 45 degree angle of rudder.

Worm type gears automatically "lock" the rudder in desired position until wheel is turned to change course.

Wheel is of heavy cast bronze, highly polished, with hardwood handles.

	Inches
Diam. Wheel Shaft	1
Fittings for Rod	1
*Length Wheel Shaft	5 1/2
Size Mounting Flange	7 1/4 x 2 1/2
Depth Gear Box	3 1/2

Fig. 820

Complete except shafting, with 16 inch bronze wheel	\$43.00
Complete except shafting, with 20 inch bronze wheel	45.00
With 24 inch bronze wheel	50.00
Worm Steerer only, without wheel, shafting or other fittings	20.00
16 inch bronze wheel only	12.00
20 inch bronze wheel only	14.50
24 inch bronze wheel only	20.00
Lower lever with clevis	5.80
Bulkhead bracket only	2.75
Floor plate only	2.75

Model A-1 for wheelbox or outside bulkhead mounting.

For inside bulkhead mounting, specify Model E.

* Length wheel shaft measured between wheel and box.

Worm Geared Dual Steering Unit

ALL BRONZE

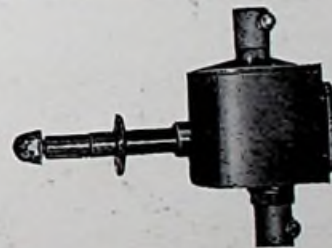


Fig. 537

A very compact assembly incorporating the many advantages of our worm type steerers described above, with the added feature of a connection for a vertical shaft to connect with a steering wheel on the upper deck or cabin roof. Both steering wheels have the same ratio with the lower shaft.

Wheel shaft is 1 inch diameter bronze rod.

All fittings are for 1 inch diameter vertical rod.

Complete as Illustrated Each	Extreme Width Inches	Depth Box Inches	Height Box Inches	Length Shaft Inches
80.00	8 1/2	6 1/8	5 1/16	6

For wheel and other fittings refer to Fig. 820.

75.00

BRACKET CHAIN TYPE STEERERS

CAST BRONZE BRACKET AND SPROCKET

WITH POLISHED BRONZE WHEEL
FOR OUTSIDE BULKHEAD MOUNTING

WITH POLISHED BRONZE WHEEL
FOR INSIDE BULKHEAD MOUNTING



Fig. 674

Chromium Plated Prices apply only to wheel, shaft and nut.



Fig. 675

Size Wheel Inches	Polished Each	Chromium Plated Each	Diameter of Shaft Inches
16	\$25.00	\$28.00	$\frac{7}{8}$
20	31.00	34.50	$\frac{1}{8}$
25	36.00	40.00	1

Size Wheel Inches	Polished Each	Chromium Plated Each	Diameter of Shaft Inches
16	\$25.00	\$28.00	$\frac{7}{8}$
20	31.00	34.50	$\frac{1}{8}$
25	36.00	40.00	1

WITH INLAID MAHOGANY WHEEL

WITH HARD RUBBER STEEL CORE WHEEL



Fig. 676

Size Wheel Inches	Price Each	Diam. of Shaft Inches
20	\$50.00	$\frac{7}{8}$
24	58.50	1
28	68.50	1



Fig. 699

Diam. Wheel Inches	Price Each	Diam. Shaft Inches
16 $\frac{3}{4}$	\$24.00	$\frac{7}{8}$

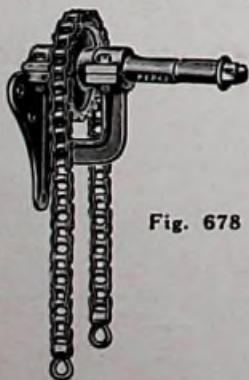


Fig. 678

BRACKET STEERER, COMPLETE EXCEPT WHEEL

Furnished complete with 36 inches of chain as shown, with long shaft and keyway for mahogany wheel. Chain has $\frac{3}{8}$ pitch, bracket is 6 $\frac{1}{2}$ inches high, 5 $\frac{1}{2}$ inches wide.

Size Wheel Inches	Price Each	Diam. of Shaft Inches
16	\$19.50	$\frac{7}{8}$
20	21.00	$\frac{1}{8}$
24	23.00	1
28	26.00	1

Standard Overall Length of Shaft for Bronze Wheel 7 $\frac{1}{4}$ inches
Standard Overall Length of Shaft for Mahogany Wheel 9 $\frac{1}{4}$ inches
Special Length of Shaft, add \$.25 per inch.

Extra 36 inch lengths of Brass Roller Chain with Ends, Price, \$7.50 Each
Extra Sprockets, 4 $\frac{3}{8}$ diameter, 21 teeth 3.50 Each

ALL ABOVE STEERERS FURNISHED FOR INSIDE OR OUTSIDE BULKHEAD MOUNTING, PLEASE SPECIFY



Bronze Steering Wheels
6 ROUND SPOKES—ROUND RIM
TEAKWOOD HANDLES



Fig. 197

Diam. Inches	Polished Each	Chromium Plated Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
20	\$14.50	\$19.00	1	2 1/8	1/4
24	20.00	25.00	1	2 5/8	1/4
28	26.50	33.00	1 1/4	2 1/2	3/8
32	35.00	42.00	1 1/4	2 1/2	1/2

Mahogany Steering Wheels
INLAID RIM—CAST BRONZE HUB

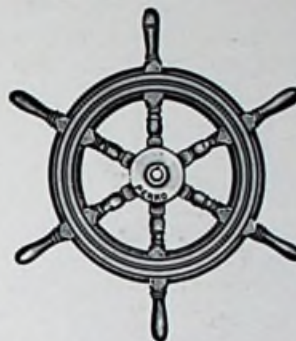


Fig. 657

Diam. Overall Inches	Each	For Diam. Shaft Inches	Thickness of Hub Inches	Size Keyway Inches
18	\$24.00	7/8	2 1/8	1/4
20	25.00	7/8 or 1	2 1/8	1/4
24	30.00	1	2 1/8	1/4
28	36.00	1	2 1/8	1/4
30	42.00	1	2 1/8	1/4
32	48.00	1 1/8	2 1/8	1/4
34	51.00	1 1/8	2 1/4	3/8
36	66.60	1 1/4	2 1/2	3/8
42	81.50	1 1/4	2 1/2	3/8
48	92.50	1 3/8	2 1/2	3/8

Bronze Steering Wheel

POLISHED—HEAVY TYPE
USED ON FIG. 675 CHAIN TYPE STEERER



Fig. 976

Diam. Inches	Polished Each	Chromium Plated Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
16	\$ 7.50	\$ 9.50	7/8	1 1/8	1/4
20	11.00	13.50	7/8	1	1/4
25	14.00	18.00	1	1 1/4	1/4

All above wheels are measured from end to end of grips.

Above wheels with drum and stand furnished promptly to order.

Hubs for Wood Steering Wheels
CAST BRONZE



Fig. 1018

Diam. Inches	Polished Bronze Each	Chromium Plated Each	Number of Spokes
4	\$ 6.00	\$ 8.25	6
5	8.50	11.00	6
6	17.00	20.00	8

State Size of Bore and Keyway when ordering.

Galvanized Steering Wheels
WITH WOOD HANDLES, BRONZE TIPS



Fig. 977

Diam. Inches	Each	Number Spokes	For Diam. Shaft Inches	Length Hub Inches	Est. Wt. Each in Lbs.
20	\$12.50	6	1 1/8	2 1/8	9
22	15.50	6	1 1/8	2 1/8	13
25	18.00	6	1	2 1/8	16
28	21.00	6	1 1/8	2 1/8	21
30	24.00	8	1 1/4	3 1/4	31
36	33.00	8	1 3/8	3 1/4	41

Handles and Bolts
FOR STEERING WHEELS



Fig. 553



Fig. 554

Handles Only		Galvanized Bolts Only		Bronze Bolts Only	
Length Inches	Each	Size Inches	Each	Size Inches	Each
3	\$.15	3/8 x 3 1/2	\$.15	3/8 x 3 1/4	\$.25
3 1/2	.20	1/8 x 4 1/4	.20	1/8 x 4	.50
4	.40	3/8 x 4 1/2	.20	1/8 x 4 1/2	.60



Columbian Propellers

MANGANESE BRONZE—AILSA CRAIG TYPE

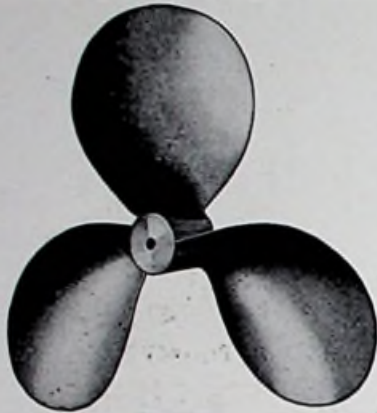


Fig. 809

Diam. Inches	3 Blade Each	2 Blade Each	Boring Each	Maximum Standard Bore Inches
8	\$ 10.50	\$ 8.70	\$ 2.00	3/4
9	11.00	9.00	2.00	7/8
10	11.50	9.50	2.20	7/8
11	12.00	9.90	2.20	1
12	12.80	10.70	2.40	1 1/8
13	14.00	11.50	2.50	1 1/8
14	15.40	12.70	2.60	1 1/4
15	17.50	14.40	3.00	1 1/4
16	19.50	16.20	3.30	1 3/8
17	21.75	17.80	3.45	1 3/8
18	24.00	19.80	3.80	1 3/8
19	27.00	21.90	4.00	1 1/2
20	31.50	25.20	4.00	1 1/2
21	38.00	30.00	4.50	1 3/4
22	43.50	34.50	4.50	1 3/4
23	48.00	37.50	5.00	1 3/4
24	52.50	42.00	5.00	1 3/4
25	57.00	45.00	5.50	2
26	64.00	49.50	6.00	2
27	69.50	54.00	6.50	2
28	76.00	58.50	6.50	2
30	90.00	68.50	7.50	2 1/4
32	110.00	82.50	9.00	2 1/2
33	120.00	90.00	10.00	2 3/4
34	129.00	97.00	10.00	2 3/4
35	138.00	104.00	12.00	2 3/4
36	154.00	117.00	12.00	2 3/4
38	178.00	135.00	14.00	3
40	207.00	156.00	16.00	3
42	234.00		19.00	3 1/4
44	265.00		22.00	3 1/4
46	300.00		25.00	3 1/2
48	345.00		28.00	3 1/2
50	372.00		34.00	4

Bronze Fairwaters



Fig. 191

For streamlining propeller hubs. Each fairwater is complete with locknuts for threaded end of propeller shaft.

Diameter Hub Inches	Complete Each	Diameter Hub Inches	Complete Each
2 1/4	\$ 6.50	3 3/4	\$15.50
2 1/2	7.75	4	17.00
2 3/4	10.00	4 1/4	18.50
3	10.50	4 1/2	20.00
3 1/4	12.00	4 3/4	22.00
3 1/2	13.75	5	24.00

When ordering, give diameter of hub and size of shaft thread.

Columbian Propellers

BRONZE—PEERLESS QUALITY
AILSA CRAIG TYPE



Fig. 739

Diam. Inches	Three Blade	Boring	Diam. Inches	Three Blade	Boring
8	\$ 8.50	\$2.00	25	\$ 45.50	\$ 5.50
9	9.00	2.00	26	51.50	6.00
10	9.50	2.20	27	56.00	6.50
11	10.00	2.20	28	61.00	6.50
12	10.50	2.40	30	72.00	7.50
13	11.25	2.50	32	88.00	9.00
14	12.50	2.60	33	96.00	10.00
15	14.00	3.00	34	104.00	10.00
16	15.75	3.30	35	111.00	12.00
17	17.50	3.45	36	124.00	12.00
18	19.50	3.80	38	143.00	14.00
19	22.00	4.00	40	165.00	16.00
20	25.50	4.00	42	188.00	19.00
21	30.50	4.50	44	212.00	22.00
22	35.00	4.50	46	240.00	25.00
23	38.50	5.00	48	276.00	28.00
24	42.00	5.00	50	298.00	34.00

Maximum standard bore same as Fig. 809.

With Special Large Hub, Price on Application

Speed Boat Rudders

CAST MANGANESE BRONZE

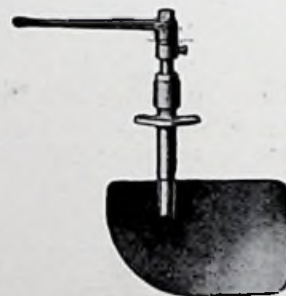


Fig. 813

Furnished complete with tiller, collar, nut and rudder port.

No.	Size of Rudder Inches	Diam. of Stock, Ins.	Total length of Stock, Inches	Length of Tiller, Ins.	Suitable for Boats	Price Complete	Extra for longer stocks, per inch	Rudder only with straight stock 12 in. long
1	9x14	1	12	12	16 ft. to 22 ft. long	\$26.00	.15	\$13.00
2	10x16	1	12	12	20 ft. to 26 ft. long	28.00	.15	16.00
3	11x18	1 1/2	12	14	26 ft. to 35 ft. long	31.00	.18	18.00
4	12x20	1 1/2	12	16	30 ft. to 40 ft. long	39.00	.24	23.00

Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

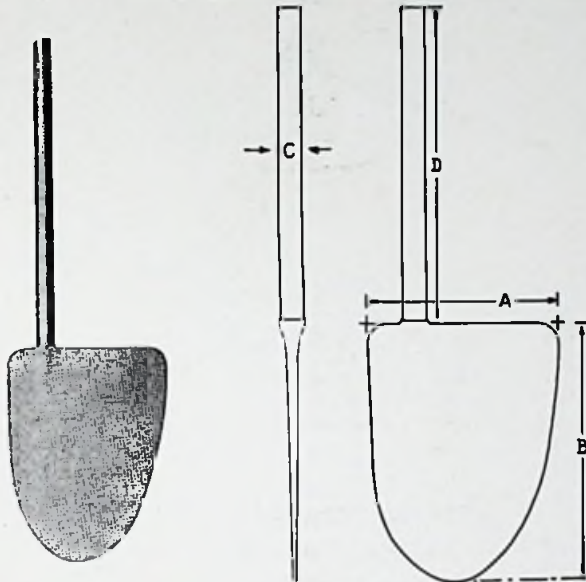


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a skag.

DIMENSIONS, INCHES

No.	A	B	C	D	Each
1	9	12	1	16	\$14.00
2	10½	14	1 1/8	18	17.00
3	12	16	1 1/4	18	18.00
4	13½	18	1 3/8	24	24.00
5	15	20	1 1/2	24	34.00
6	16½	22	1 3/4	30	50.00
7	18	24	2	36	68.00
8	20	26	2 1/4	40	85.00

Cruiser Rudders

CAST MANGANESE BRONZE



Fig. 816

Blade Size Inches	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock Inches	Longer Stocks Per Inch	Each
12x12	1/4	1	12	.15	\$12.00
13x13	1/4	1	12	.15	13.00
14x14	1/4	1	12	.15	16.00
15x15	1/4	1	12	.15	18.00
16x16	1/4	1	12	.15	20.00
18x16	1/4	1	12	.15	21.00
18x18	1/4	1	12	.15	23.00
20x18	1/4	1 1/4	18	.24	26.00
20x20	1/4	1 1/4	18	.24	30.00
22x18	1/4	1 1/4	18	.24	30.00
22x20	3/8	1 1/4	18	.24	39.00
22x22	3/8	1 1/4	18	.24	40.00
24x20	3/8	1 1/4	18	.24	40.00
24x22	3/8	1 1/4	18	.24	41.00
24x24	3/8	1 1/4	18	.24	42.00
24x26	3/8	1 1/2	22	.33	61.00
26x26	3/8	1 1/2	22	.33	61.00

Rudder Ports with Stuffing Box

CAST BRONZE—PLAIN
WITH BRASS GREASE CUPS

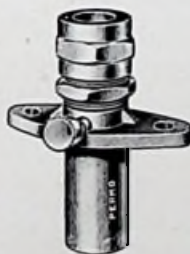


Fig. 1089

Eliminates leakage at rudder post entrance through the hull.

Bronze bearing is full length of casting. Assures smooth action with minimum wear.

Size Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$5.00	4 x2	5 1/8	1 1/4	3
7/8	5.50	4 1/4 x2 1/4	5 3/8	3/8	3 1/4
1	6.00	4 1/4 x2 1/2	5 1/4	3/8	3 1/2
1 1/8	6.50	5 x2 3/8	5 1/4	1/2	3 3/4
1 1/4	7.25	5 3/4 x3	6 3/8	1/2	5 1/2
1 3/8	7.70	6 1/4 x3 1/4	6 3/4	1/2	6 1/2
1 1/2	8.25	6 1/2 x3 1/2	6 3/4	1/2	6 3/4

Bronze Tillers

CAST MANGANESE BRONZE



Fig. 810

No.	Each	Length Inches	For Rudder Stock Inches	Size Keyway Inches	Weight Pounds
1	\$4.40	12	1	1/4	3 1/4
3	6.00	14	1 1/8	1/4	4 1/2
4	9.60	16	1 1/4	3/8	7

Galvanized Rudders GALVANIZED FORGED STEEL



Fig. 647

Size No.	Galv. Each	Size Plate Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Each Pounds
0	\$ 5.00	12x12x $\frac{1}{8}$	40	$\frac{3}{4}$	11
1	6.00	14x14x $\frac{1}{8}$	42	$\frac{3}{4}$	13
2	8.50	16x16x $\frac{1}{8}$	48	1	25
3	11.00	18x18x $\frac{1}{8}$	52	1	35

Rudder Skags

DROP FORGED STEEL AND BRONZE

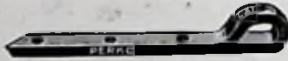


Fig. 649

Size No.	Galv. Each	Plain-Bronze Each	Dimensions Inches	For Rudder Post Inches	Weight Each Pounds
0	\$2.00	\$4.00	24x1 $\frac{1}{2}$ x $\frac{3}{8}$	$\frac{3}{4}$	4 $\frac{1}{2}$
1	3.00	7.00	30x1 $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{3}{4}$	9
2	5.00	14.00	42x2x $\frac{3}{8}$	1	17

Straight Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 650

Length Inches	Galv. Each	Plain-Bronze Each	Size of Square Hole Inches	Weight Each (Iron) Pounds
8	\$1.10	\$2.00	$\frac{5}{8}$ x $\frac{5}{8}$	1
10	1.25	2.25	$\frac{3}{8}$ x $\frac{3}{8}$	1 $\frac{3}{4}$
12	1.75	2.50	$\frac{3}{4}$ x $\frac{3}{4}$	2 $\frac{1}{8}$
15	2.25	5.00	$\frac{1}{8}$ x $\frac{7}{8}$	3 $\frac{1}{2}$

Rudder Pipes

GALVANIZED STEEL AND BRASS

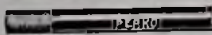


Fig. 652

Size No.	Galv. Each	Brass Each	Pipe Size Inches	Length Inches	Weight Each Pounds
0	\$1.00	\$2.25	$\frac{3}{4}$	12	1 $\frac{3}{8}$
1	1.00	2.25	$\frac{3}{4}$	12	1 $\frac{3}{8}$
2	1.50	3.50	1	15	2
3	1.75	4.50	1 $\frac{1}{4}$	18	2 $\frac{1}{2}$

Quadrant Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 651

Radius Inches	Galv. Each	Plain-Bronze Each	Square Hole Adjustable Inches	Weight Each (Iron) Pounds
7	\$ 2.25	\$ 5.00	$\frac{5}{16}$ to $\frac{3}{4}$	3
10	3.85	7.00	$\frac{3}{8}$ to 1	5 $\frac{1}{4}$
12	5.50	10.00	$\frac{3}{4}$ to 1 $\frac{1}{4}$	8 $\frac{1}{2}$
15	8.25	14.00	$\frac{3}{4}$ to 1 $\frac{1}{4}$	13
18	14.50	24.00	1 to 1 $\frac{3}{8}$	27
24	27.50	45.00	1 $\frac{1}{2}$ to 1 $\frac{3}{4}$	46

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Rudder Stuffing Boxes

CAST BRONZE



Fig. 499

Size No.	For Diam. Rudder Post Inches	For Pipe Size Inches	Weight Each Ounces	Price Each
1	$\frac{3}{4}$	$\frac{3}{4}$	6	\$.60
2	1	1	7	.70
3	1 $\frac{1}{4}$	1 $\frac{1}{4}$	7	.90

Bronze Rudder Collars



Fig. 815

For Diam. Stock Inches	Price Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
1	\$1.00	1 $\frac{3}{4}$	$\frac{1}{8}$	7
1 $\frac{1}{8}$	1.00	1 $\frac{3}{4}$	$\frac{1}{8}$	6 $\frac{1}{2}$
1 $\frac{1}{4}$	1.25	2 $\frac{1}{8}$	$\frac{1}{8}$	11
1 $\frac{3}{8}$	1.50	2 $\frac{1}{2}$	1 $\frac{1}{8}$	19
1 $\frac{1}{2}$	1.80	2 $\frac{1}{2}$	1 $\frac{1}{8}$	19

Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

Each	Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
\$2.00	12 $\frac{3}{4}$	5	2 $\frac{1}{2}$ x10	1 $\frac{1}{3}$



Strap Rudder Braces

GALVANIZED MALLEABLE IRON

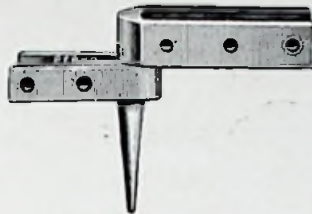


Fig. 217

Size No.	Per Set Complete	Pintles Only Pair	Straps Only Pair	Between Straps Inches	Weight Per Set Pounds
00	\$.70	\$.40	\$.30	5/8	3/4
0	.90	.50	.40	3/4	1
1	1.20	.70	.50	7/8	1 1/2
2	1.40	.80	.60	1	2
3	1.80	1.00	.80	1 1/4	2 7/8
4	2.50	1.50	1.00	1 1/2	4 1/4

Set consists of two Pintles and two Straps.

Sliding Rudder Fittings

CAST BRONZE



Fig. 552

For use on dinghys and small sail boats. Rudder can be quickly and easily attached or removed. The rudder slides on a cast bronze track which has a stop at the bottom.

Complete Per Set	Track Only Each	Between Straps Inches	Width Track Inches	Length Track Inches
\$5.50	\$2.25	7/8	1	18

Screw Rudder Braces

GALVANIZED MALLEABLE IRON



Fig. 201

Size No.	Per Set Complete	Pintles Only Pair	Gudgeons Only Pair	Between Straps Inches	Weight Per Set Pounds
1	\$.50	\$.40	\$.10	5/8	3/4
2	.64	.50	.14	3/4	3/4
3	.90	.70	.20	7/8	1
4	1.18	.90	.28	1 1/8	1 1/2

Bronze Rudder Braces

CAST BRONZE—PLAIN

Strap Gudgeon



Fig. 1070

Pintle



Fig. 1071

Plate Rudder Braces

GALVANIZED MALLEABLE IRON



Fig. 743

DESIGNED FOR SQUARE STERN BOATS

Size No.	Price Per Set	Plates Only Per Pair	Pintles Only Per Pair	Opening Between Straps Inches	Est. Wt. Per Set in Lbs.
1	\$.80	\$.40	\$.40	5/8	3/4
2	1.00	.50	.50	3/4	1
3	1.30	.60	.70	7/8	1 3/8
4	1.50	.70	.80	1	2 1/8

Set consists of Two Plates and Two Pintles

Plate Gudgeon



Fig. 1072

Plate Gudgeon



Fig. 1073

Screw Gudgeon

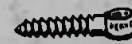


Fig. 1074

No.	Between Straps Inches	Fig. 1071 Pintles Each	Fig. 1070 Strap Gudgeon Each	Fig. 1072 Plate Gudgeon Each	Fig. 1073 Plate Gudgeon Each	Fig. 1074 Screw Gudgeon Each
0	1/2	\$.30	\$.25	\$.25	\$.25	\$.10
1	5/8	.35	.30	.30	.30	.10
2	3/4	.40	.35	.35	.35	.15
3	7/8	.50	.40		.40	

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“Perko” Reverse Gear Controls

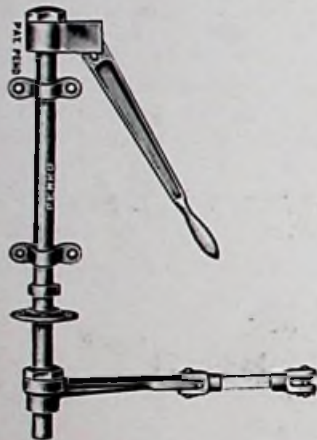
HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/4 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE

The main feature of “Perko” controls is that it is unnecessary to have shaft machined, such as threading, key seating or drilling.

A mechanically perfect wedging device is incorporated in both upper and lower lever (patent pending). When installing it is only necessary to insert tapered bushing “B” around shaft and tighten nut “A” and an absolutely fast grip on the shaft is obtained, at no extra expense for machining, and very little labor.

A simple arrangement holds the control handle horizontally and when not in use can be placed in a vertical position by a slight movement of the hand.



Interior view of tapered fastening device.

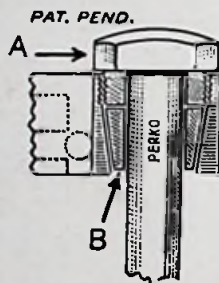


Fig. 663

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	1 1/8	2	15 1/4

Fittings complete—except shaft	\$25.00
Handle and handle housing only—each	12.00
1 inch bronze shaft—per foot	2.00
1 1/4 inch bronze shaft—per foot	2.50

Do not fail to specify size of shaft when ordering

Reverse Gear Controls

SPECIAL CAST BRONZE

A good substantial handle which will not bend under side leverage, special hard government bronze. Handle is removable and a flush plate is furnished to fit opening in deck flange.

Furnished with two sockets threaded for 3/4 inch rod. Deck flange is 5 x 2 3/4 inches. Length of throw is 8 1/2 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches
\$13.50	\$16.25	25	8



Fig. 720

Above items, (Except Fig. 720) desired CHROMIUM PLATED, add 40% to Polished Bronze Price

“Perko” Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH SHAFT

Same tapered bushing device as Fig. 663 in upper and lower levers, no machining of shaft necessary.

Control handle is hinged so that it hangs in vertical position out of way when not in use.

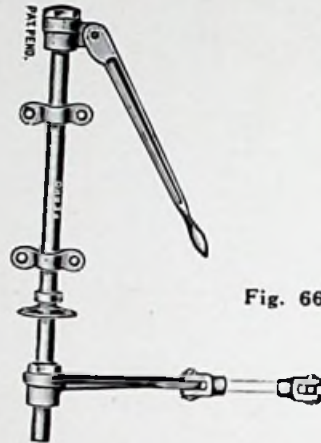


Fig. 664

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	1	2	13 1/4

Fitting complete—except shaft	\$18.50
Handle and housing only—each	9.00
1 inch bronze shaft—per foot	2.00

Clutch Control

CAST BRONZE—POLISHED

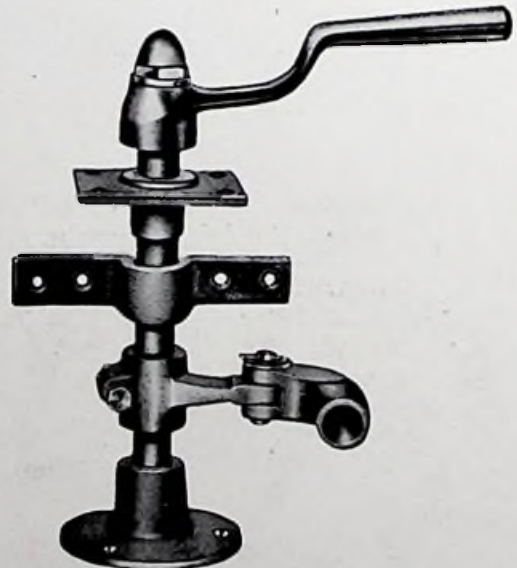


Fig. 822

Furnished as shown with choice of bulkhead bracket or shelf plate and without shaft. All fittings for 1 inch shaft. Length of handle 8 inches.

Per Set	\$15.50
---------	---------

With 10 inch handle, add \$.75 each.

With 12 inch handle, add \$1.25 each.

Spark and Throttle Controls

FRICION TYPE FOR CONTROL ROD
CAST BRONZE



Fig. 653

All control connections are inside bulkhead, out of sight after installation. Control rod sockets are tapped for $\frac{1}{4}$ or $\frac{3}{8}$ inch rod. Shafts for connecting rods are long enough for mounting on bulkhead 2 inches thick.

Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$5.25	\$7.75	$6\frac{1}{2} \times 3\frac{1}{4}$	$1\frac{1}{4}$

Sockets for $\frac{1}{4}$ inch rod furnished unless otherwise specified.

Spark and Throttle Controls

FRICION TYPE—FOR BOWDEN WIRE

Same construction as Fig. 653 above except connections which are designed for a bowden wire and casing installation. Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

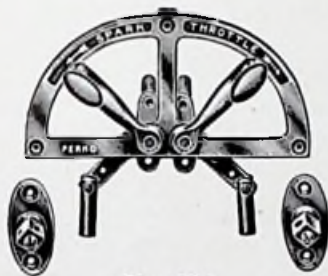


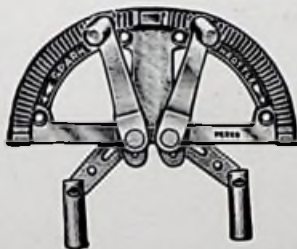
Fig. 654

For more detailed information on bowden clamp refer to Fig. 352.

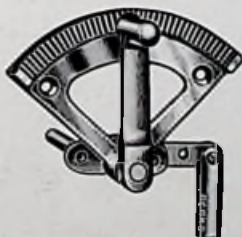
Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$6.50	\$9.00	$6\frac{1}{2} \times 3\frac{1}{4}$	$1\frac{1}{2}$

Spark and Throttle Controls

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE



Double
Fig. 691



Single
Fig. 690

Rod connections are inside bulkhead out of sight. Can be mounted on bulkhead up to $1\frac{1}{8}$ inches thick. Rod sockets are for $\frac{3}{8}$ inch rod. Furnished for $\frac{1}{2}$ inch rod to order.

Fig.	Polished Bronze Each	Chromium Plated Each	Size Frame Inches
690	\$3.25	\$4.50	$4\frac{1}{4} \times 3\frac{1}{8}$
691	5.75	8.00	6 x 3

"Sea-Way" Throttle Control

CAST BRONZE—FOR $\frac{3}{8}$ INCH ROD

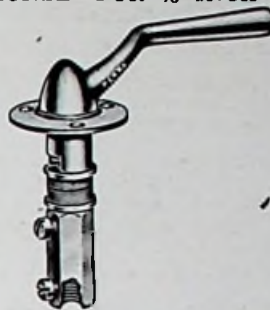


Fig. 847

A powerful control with a man sized handle. For mounting on top of wheel box or shelf.

Has heavy leather washers between flange and rod socket. Tension can be increased or decreased by adjusting rod socket.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	For Rod Diam. Inches	Diam. Flange Inches	Weight Pounds
\$4.00	\$4.50	$4\frac{1}{2}$	$\frac{3}{8}$	$2\frac{1}{4}$	1

"Sea-Prince" Throttle Control

CAST BRONZE—FOR $\frac{1}{2}$ INCH ROD



Fig. 848

Same design and ability as the Sea-Way Control above but fitted with lever arm and socket for mounting on side of wheel box or bulkhead.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Arm Inches	Diam. Flange Inches	Weight Pounds
\$5.00	\$5.50	$4\frac{1}{2}$	$3\frac{1}{2}$	$2\frac{1}{4}$	1

Throttle Controls

FOR ROD OR CONTROL WIRE
CAST BRONZE—RATCHET TYPE



Fig. 715
For Control Wire



Fig. 716
For Control Rod

A strong and very practical control for all types of boats, an improved ratchet device that is almost noiseless, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all bolts and swivel fittings for control wire and casing, or rod socket for $\frac{1}{4}$ or $\frac{3}{8}$ inch rod.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$4.50	\$5.50	\$7.00	6	$2\frac{3}{8}$

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING



Remote Throttle Controls

PLAIN CAST BRONZE
FOR OUTBOARD MOTOR BOATS

SIDE PATTERN FLOOR PATTERN

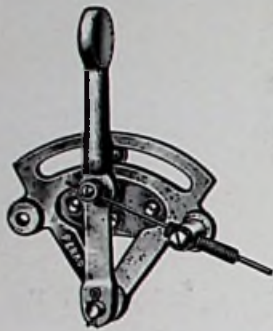


Fig. 350

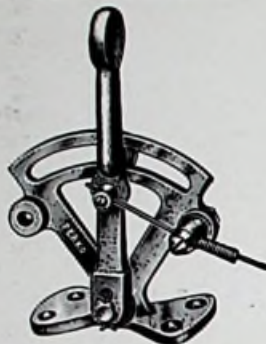


Fig. 351

Sturdily constructed of cast bronze especially designed for the racing driver's convenience. A long handle giving full leverage. Arrangement of side plate allows installation on gunwale while at the same time, it does not project above deck enough to cause injury in case of upsetting. Furnished complete with necessary bowden wire fittings.

Either Style Each	Size Floor Plate Inches	Width Overall Inches	Height Overall Inches	Weight Ounces
\$1.90	3x1 3/4	3 3/4	5 3/4	14

Prices do not include Bowden Wire or Casing.

Spark and Throttle Controls
CAST BRONZE

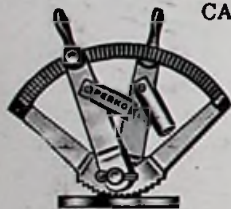


Fig. 904

Side Bracket



Fig. 905

Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for 1/4 or 5/16 inch rod.

Fig.	Description	Polished Bronze Each	Chromium Plated Each
904	Complete Single	\$2.75	\$4.50
904	Complete Double	4.25	6.25
905	Complete Single	3.60	5.00
905	Complete Double	5.00	7.00
905	Brackets Only	1.10	2.00

Front Bulkhead Controls

FOR SPARK AND THROTTLE

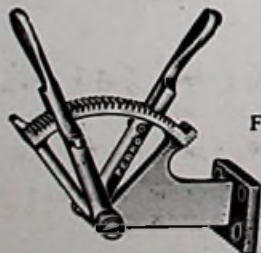


Fig. 409

For use with Control Wire and Casing.

	Polished Bronze Each	Chromium Plated Each
Single	\$2.75	\$5.70
Double	4.25	7.00

Spark and Throttle Control

FOR 1/4 OR 5/16 CONTROL ROD
CAST BRONZE—RATCHET TYPE



Fig. 331

A strong ratchet holds handles in position desired, furnished complete with control rod sockets threaded for 1/4 or 5/16 inch rod.

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$6.00	\$7.75	6	2 1/2

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

Improved Throttle Control

FOR CONTROL WIRE

STRAIGHT PUSH AND PULL—ALL BRASS



Fig. 190

An improved control giving smoother action to control wire, helps eliminate kinks in wire by direct push and pull of handle. All brass except handle which is 1 1/2 inch bakelite knob. Length of pull is 2 1/2 inches.

Polished Each	Chromium Plated Each	Overall Length Inches	Overall Width Inches	Overall Height Inches	Weight Ounces
\$2.75	\$4.50	6	1 1/2	2 3/8	12

Dashboard Choke Controls

ALL BRASS CONTROL HANDLE



Fig. 371

WITH STEEL CASING AND WIRE

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$2.00	\$2.20	\$2.50	\$3.00

WITH BRASS CASING AND WIRE

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$2.50	\$2.90	\$3.50	\$4.50

With chromium plated handle, add \$.60 per set.

Bowden Wire and Casing

A high grade remote control wire, flexible and strong. Casing is 1/4 inch outside diameter.

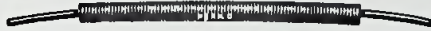


Fig. 353

Wire and casing furnished in lengths up to 100 feet each.

	Per Foot
Steel wire with casing	\$.10
Brass wire with casing .....	.20

Control Wire Handles

ALL BRASS

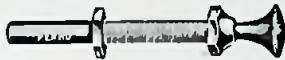


Fig. 692

Control wire and casing can be easily attached. For use on a dash or bulkhead up to 2 inches thick.

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$1.50	\$1.75	\$2.10

Control Wire Sockets

BRASS



Fig. 679

Complete with brass cotter pin and brass set screw.

Each \$.30

Price Does Not Include Control Wire

Control Rod Sockets

STANDARD TYPE—BRASS



Fig. 328

Tapped
for Rod
Inches
1/4
5/16

Each
\$.25
.30

Size of
Slot
Inches
1/8 x 3/4
1/4 x 3/4

Control Rod Sockets

HEAVY TYPE—BRASS



Fig. 298

Tapped
for Rod
Inches
1/4
5/16

Each
\$.30
.35

Size of
Slot
Inches
3/8 x 3/4
1/4 x 3/4

Bowden Casing Clamp

CAST BRONZE—SWIVEL TYPE



Fig. 352

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle; size base, 2 1/4 x 1 inch.

Plain Bronze, Each \$.60

Control Cranks

PLAIN CAST BRONZE

Furnished for single or double controls as desired. Cranks are solid castings with 90 degree angle. Control rod sockets are tapped for 1/4 inch or 5/16 inch rod.

Side Type

Upright Type



Fig. 636

Fig. 637

SIDE OR UPRIGHT TYPE

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
1/4	\$1.10	\$1.75	\$.35	\$.40
5/16	1.35	2.25	.40	.50

Elbow Ball Joints

BRONZE



Fig. 792

Ball joints are very desirable when installing spark and throttle controls carburetor or choke control, etc.

Both ends threaded for 1/4" rod. 20 threads to inch.

PRICE EACH \$.25

Adjustable Ball Joints

BRONZE

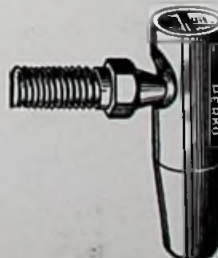


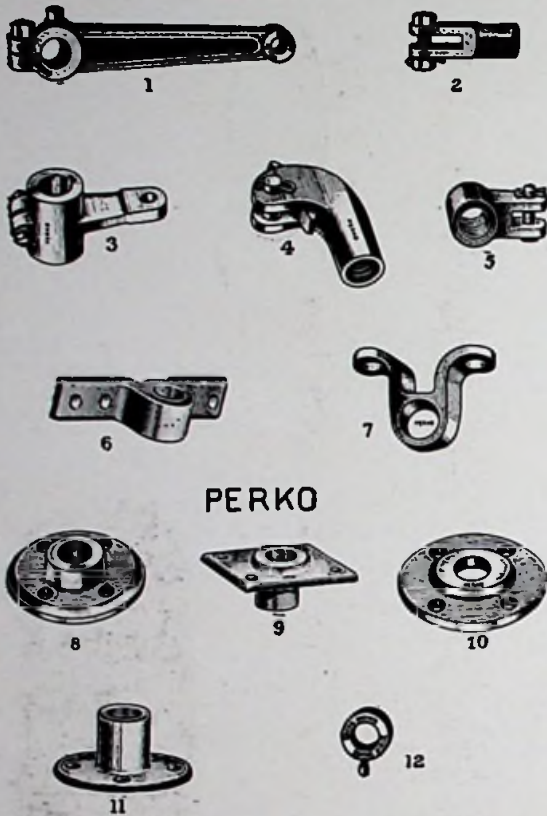
Fig. 793

Adjustable for wear, Ball is held by stiff spring and cannot rattle or work loose.

Threaded 1/4", 20 U.S.S.

PRICE EACH \$.40

Steerer and Control Parts CAST BRONZE



PERKO

Fig. 865

No.	Plain Each	Length of Holes Inches	Extreme Length Inches	For Rod Diam. Inches	Tapped For Pipe Inches	Diam. Bolt Inches	Size Jaws Inches	Depth to Center of Bore Inches
1	\$3.60	6	8	1		1/2	5/16	
2	2.20		2 3/4	3/4	1/2	1/2	1/8	
3	3.30	2 3/4	4 1/2	1		1/2	1/8	
4	2.50		3 1/2	1	3/4	1/2	5/16	
5	2.20	1 3/4	3	1	3/4	1/2	5/16	
No.	Polished Each	Length Inches	Width Inches	Outside Diam. Inches	For Rod Diam. Inches	Height		
6	\$2.75	7	1 1/4		1	1 1/8		
7	2.75	4 1/2	1 1/4		1 or 1 1/8	2 1/8		
8	2.50			3 3/4	1			
9	2.50	4	3 3/8		1			
10	2.50			4	1 or 1 1/8			
11	2.75 Plain			4 3/4	1	Height 2 1/8		
12	.80			1 1/2	1 or 1 1/8			

Bronze Universal Joints CAST BRONZE—PLAIN



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$2.25	3/4	1/2	4 1/2	1
2	5.50	1	3/4	6	2 1/4

Exhaust Pipe Flanges CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2 3/8	4 1/8	13 oz.
2 1/2	2 7/8	5 1/4	1 lb.
3	3 1/2	6 1/4	1 1/2 lbs.
3 1/2	4	6 7/8	1 1/2 lbs.
Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$1.00	\$1.75	\$2.25
2 1/2	1.00	1.75	2.25
3	1.50	2.25	2.85
3 1/2	1.50	2.25	2.85

Exhaust Tube Flanges CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 1/8	4	11 oz.
2 1/2	2 5/8	4 3/8	14 oz.
3	3 1/8	5	1 lb.
3 1/2	3 5/8	5 1/2	1 1/2 lbs.
4	4 1/8	6	1 1/2 lbs.
Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$.90	\$1.65	\$2.15
2 1/2	1.00	1.75	2.25
3	1.00	1.75	2.25
3 1/2	1.40	2.15	2.75
4	1.45	2.20	2.80

Check Valves CAST BRONZE

A simple but exceptionally dependable check valve. Threaded to fit standard pipe.



Fig. 273

Size Pipe Inches	Complete Each
3/4	\$2.75
1	3.50
1 1/4	4.00
1 1/2	4.50

Plunger



Fig. 68

Plunger Only Each
\$.70
.80
.90
1.00

Spring



Fig. 69

Springs Only Each
\$.15
.17
.20
.22

Length Overall Inches
2 3/4
3
3
3 1/4

GOODRICH CUTLESS BEARINGS

A Shaft Diam. Inches	B Outside Diam. Inches	Standard Length Inches	C Rubber Wall Inches	D Metal Wall Inches	Shipping Weight Lbs.	Price Each	Sp'l L'gths Price Per Lin. In.
3/4	1 1/4	3	1/8	1/8	3/4	\$ 6.20	\$2.27
7/8	1 3/8	3 1/2	1/8	1/8	3/4	7.20	2.27
7/8	1 1/2	3 1/2	1/8	1/8	3/4	7.20	2.27
1	1 1/2	4	1/8	1/8	1	8.30	2.38
1	1 3/8	4	1/8	1/8	1 1/4	8.30	2.38
1	2	4	1/8	1/8	1 1/2	8.30	2.38
1 1/8	1 3/8	4 1/2	1/8	1/8	1 1/4	9.80	2.44
1 1/8	1 3/4	4 1/2	1/8	1/8	1 1/2	9.80	2.44
1 1/8	2	4 1/2	1/8	1/8	1 3/4	9.80	2.44
1 1/4	1 3/4	5	1/8	1/8	1 1/2	11.20	2.50
1 1/4	2	5	1/4	1/8	1 3/4	11.20	2.50
1 1/4	2 1/8	5	1/8	1/8	1 3/4	11.20	2.50
1 3/8	1 7/8	5 1/2	1/8	1/8	1 3/4	12.40	2.66
1 3/8	2 1/8	5 1/2	1/4	1/8	2 1/4	12.40	2.66
1 3/8	2 3/8	5 1/2	3/8	1/8	2 1/2	12.40	2.66
1 1/2	2	6	1/8	1/8	2	14.30	2.78
1 1/2	2 3/8	6	1/8	1/8	2 1/2	14.30	2.78
1 3/8	2 1/8	6 1/2	1/8	1/8	2 1/4	16.70	3.02
1 5/8	2 5/8	6 1/2	3/8	1/8	3	16.70	3.02
1 3/4	2 3/8	7	1/8	1/8	2 3/4	18.90	3.16
1 3/4	2 5/8	7	1/8	1/8	3 1/4	18.90	3.16
1 7/8	2 5/8	7 1/2	1/4	1/8	3 1/4	20.80	3.26
1 7/8	2 7/8	7 1/2	1/2	1/8	4	20.80	3.26
2	2 5/8	8	1/8	1/8	3 1/2	21.80	3.30
2	3	8	3/8	1/8	4 1/2	21.80	3.30
2 1/8	2 7/8	8 1/2	1/2	1/8	4 1/2	23.50	3.30
2 1/8	3 1/8	8 1/2	3/8	1/8	4 3/4	23.50	3.30
2 1/4	2 7/8	9	1/2	1/8	4 1/2	25.40	3.36
2 1/4	3 1/8	9	3/8	1/8	5	25.40	3.36
2 1/4	3 3/8	9	1/2	1/8	6	25.40	3.36
2 3/8	3 3/8	9 1/2	3/8	1/8	6	27.30	3.38
2 1/2	3 1/8	10	1/2	1/8	5	28.20	3.44
2 1/2	3 3/8	10	1/2	1/8	6	28.20	3.44
2 5/8	3 3/8	10 1/2	1/4	1/8	5 3/4	30.80	3.50
2 3/4	3 3/8	11	1/2	1/8	5 3/4	33.40	3.56
2 3/4	3 3/4	11	3/8	1/8	6	33.40	3.56
2 7/8	3 3/4	11 1/2	1/2	1/8	6 3/4	34.70	3.62
3	3 3/4	12	1/4	1/8	8	36.80	3.66
3	4	12	3/8	1/8	8 1/2	36.80	3.66
3 1/8	4 1/4	12 1/2	1/2	1/8	8 1/2	39.60	3.72
3 1/4	4	13	1/4	1/8	9 1/4	42.60	3.86
3 1/4	4 1/4	13	3/8	1/8	10	42.60	3.86
3 3/8	4 1/2	13 1/2	1/2	1/8	10 3/4	46.00	4.02
3 1/2	4 1/4	14	1/4	1/8	10	49.10	4.14
3 1/2	4 1/2	14	3/8	1/8	11 1/2	49.10	4.14
3 3/8	4 1/2	14 1/2	1/2	1/8	12 3/4	53.60	4.36
3 3/4	4 1/2	15	1/4	1/8	10 1/2	59.50	4.68
3 3/4	5	15	1/2	1/8	17 3/4	59.50	4.68
3 3/4	5 1/4	15	1/2	1/8	18	59.50	4.68
3 7/8	5 1/4	15 1/2	1/2	1/8	20	63.60	4.84
4	5	16	1/2	1/8	28	68.40	5.04
4	5 1/4	16	1/2	1/8	29 1/2	68.40	5.04
4 1/8	5 1/4	16 1/2	3/8	1/8	31	71.60	5.12
4 1/4	5 1/2	17	1/2	1/8	29 1/2	74.40	5.12
4 3/8	5 3/4	17 1/2	1/2	1/8	33 1/2	77.80	5.22
4 1/2	5 1/2	18	1/2	1/8	33 1/4	82.00	5.36
4 1/2	5 3/4	18	1/2	1/8	35	82.00	5.36
4 5/8	6 1/8	18 1/2	1/2	1/8	39	89.40	5.68
4 3/4	6 1/8	19	1/2	1/4	43 3/4	96.30	5.94
4 7/8	6 1/8	19 1/2	1/2	1/8	43	101.20	6:10
5	6 1/8	20	1/2	1/4	45	106.60	6.28
5	6 1/2	20	1/2	1/4	50 1/4	106.60	6.28
5 1/4	7	21	1/2	1/8	80 1/4	118.30	6.64
5 3/8	7	21 1/2	1/2	3/8	75	124.00	6.80
5 1/2	7	22	1/2	1/4	65	129.20	6.95
5 5/8	7	22 1/2	1/2	1/4	70	134.50	7.04
5 3/4	7	23	3/8	1/4	62 3/4	140.20	7.18
6	7 1/2	24	1/2	1/4	70	156.00	7.64



Fig. 1021

Stuffing Boxes CAST BRONZE—REGULAR



Fig. 320

Size Shaft Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/8	\$2.20	3 3/8 x 1 3/4	2 3/8	3/8	1 1/8
3/4	2.35	4 1/8 x 1 3/4	2 3/8	3/8	1 1/8
7/8	2.50	4 1/4 x 1 3/8	2 7/8	1/4	1 1/2
1	2.75	4 1/2 x 2 1/4	3	1/4	1 3/4
1 1/8	3.00	5 1/8 x 2 3/8	3 1/4	1/2	2 1/4
1 1/4	3.50	6 x 2 3/8	3 3/8	1/2	3
1 3/8	4.00	6 1/4 x 3	3 3/8	1/2	3 1/4
1 1/2	4.50	6 1/2 x 3	3 1/8	1/2	3 1/2
1 3/4	7.50	7 x 3 3/4	3 3/4	3/8	5 3/4

Stuffing Boxes CAST BRONZE—HEAVY

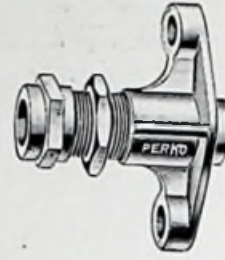


Fig. 631

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Lgth. Bearing Inches	Weight Pounds
3/4	\$3.50	\$4.75	4 1/2 x 2 1/2	3/8	3 1/2	2 1/2
7/8	4.00	5.50	5 1/8 x 2 3/4	3/8	4	3 1/4
1	4.50	6.25	5 3/4 x 3	1/2	4 1/2	4
1 1/8	5.00	6.75	6 3/8 x 3 1/4	1/2	5	4 3/4
1 1/4	6.00	7.75	7 x 3 1/2	5/8	5 1/2	6 1/3
1 3/8	7.00	8.75	7 3/8 x 3 3/4	5/8	6	8
1 1/2	8.50	10.75	8 1/8 x 4	3/4	6 1/2	9 1/2
1 3/8	10.00	13.25	8 3/8 x 4	3/4	7	10 1/2
1 3/4	11.50	15.00	9 1/8 x 4	3/4	7 1/2	11 1/2
1 7/8	13.00	17.00	9 3/4 x 4 1/4	3/4	8	13
2	14.50	19.00	10 1/8 x 4 1/2	3/4	8 1/2	14 1/2

Length of Bearing does not include Packing Nut.

Stern Bearings CAST BRONZE—REGULAR



Fig. 321

Size Shaft Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/8	\$1.20	3 3/8 x 1 3/4	2 3/8	3/8	12 oz.
3/4	1.35	4 1/8 x 1 3/4	2 3/8	3/8	13 oz.
7/8	1.50	4 1/4 x 1 7/8	2 7/8	1/4	1 lb.
1	1.65	4 1/2 x 2 1/4	3	1/4	1 1/4
1 1/8	2.00	5 1/8 x 2 3/8	3 1/4	1/2	1 1/2
1 1/4	2.50	6 x 2 3/8	3 3/8	1/2	2
1 3/8	3.00	6 1/4 x 3	3 3/8	1/2	2 1/4
1 1/2	3.25	6 1/2 x 3	3 1/8	1/2	2 1/2
1 3/4	4.75	7 x 3 3/4	3 3/4	3/8	3 3/4

Stern Bearings CAST BRONZE—HEAVY



Fig. 632

Stuffing Boxes and Stern Bearing THREADED FOR PIPE—CAST BRONZE

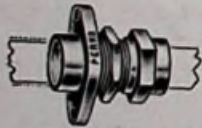


Fig. 711

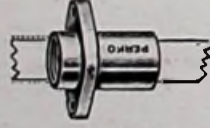


Fig. 712

Size Shaft Inches	Stuffing Box Each	Stern Bearing Each	Size Flange Inches	Tapped for Pipe Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$2.50	\$1.75	4 x 2 1/8	3/4	3/8	1 1/4
7/8	2.75	2.00	4 3/4 x 2 3/8	1	1/4	1 1/2
1	3.00	2.25	4 3/4 x 2 7/8	1	1/4	1 3/4
1 1/8	3.50	2.50	5 3/4 x 3	1 1/4	1/2	2 1/4
1 1/4	4.00	2.75	6 x 3	1 1/4	1/2	2 1/2
1 3/8	5.00	3.50	6 1/2 x 3 3/8	1 1/2	1/2	3 1/4
1 1/2	5.50	4.25	6 3/4 x 3 3/4	1 1/2	1/2	3 1/2

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Lgth. Bearing Inches	Weight Pounds
3/4	\$2.50	\$3.75	4 1/2 x 2 1/2	3/8	3 1/2	1 3/4
7/8	2.75	4.25	5 1/8 x 2 3/4	3/8	4	2 1/2
1	3.00	4.75	5 3/4 x 3	1/2	4 1/2	2 3/4
1 1/8	3.25	5.00	6 3/8 x 3 1/4	1/2	5	3 3/8
1 1/4	3.75	5.50	7 x 3 1/2	5/8	5 1/2	4 3/4
1 3/8	4.50	6.25	7 3/8 x 3 3/4	5/8	6	6 1/2
1 1/2	5.50	7.75	8 1/8 x 4	3/4	6 1/2	7 3/4
1 3/8	6.75	10.00	8 3/8 x 4	3/4	7	8 1/2
1 3/4	8.00	11.50	9 1/8 x 4	3/4	7 1/2	9
1 7/8	9.25	13.25	9 3/4 x 4 1/4	3/4	8	10 3/4
2	10.75	15.25	10 1/8 x 4 1/2	3/4	8 1/2	11 3/4

Extra Heavy Stuffing Box RECTANGULAR FLANGE—CAST BRONZE



Fig. 819

For Diam. Shaft Inches	Plain Each	Babbitted Each	Size of Flange Inches	Length Bearing Inches
1	\$ 5.25	\$ 7.00	5 x 3	4 1/8
1 1/8	5.75	7.50	5 1/2 x 3 3/8	4 1/2
1 1/4	6.75	8.50	5 3/8 x 3 3/8	5
1 3/8	8.00	9.75	6 x 4	5 1/2
1 1/2	10.00	12.25	6 x 4 3/8	6
1 3/4	12.50	16.00	6 1/2 x 4 1/2	7 1/4
2	16.00	20.50	7 3/4 x 5	7 3/8
2 1/4	22.00	28.00	8 1/4 x 5 1/2	8
2 1/2	32.00	40.00	9 x 6 1/2	8 1/2

Extra Heavy Stern Bearing RECTANGULAR FLANGE—CAST BRONZE



Fig. 906

Size of Flange and Bearing same as Fig. 819 above.

For Diam. Shaft Inches	Plain Each	Babbitted Each
1	\$ 3.50	\$ 5.25
1 1/8	4.00	5.75
1 1/4	4.50	6.25
1 3/8	5.50	7.25
1 1/2	6.50	8.75
1 3/4	9.00	12.50
2	11.75	16.25
2 1/4	16.50	22.50
2 1/2	24.00	32.00

Flax Packed Stuffing Box and Stern Bearing WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE—Fig. 811
OVAL FLANGE—Fig. 821

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$ 8.00	5 1/4 x 2 3/8	5 1/4
1 1/8	8.50	6 x 3	5 3/4
1 1/4	9.00	6 3/8 x 3 1/8	6 1/4
1 3/8	10.00	7 1/4 x 3 3/8	6 3/4
1 1/2	14.00	8 x 4	7 3/4
1 3/4	20.00	9 1/4 x 4 3/8	9
2	25.00	10 1/2 x 5 1/4	9 1/8
2 1/4	32.00	12 x 6	11 1/8
2 1/2	44.00	13 1/4 x 6 3/8	12 1/4

Self Aligning Stuffing Box CAST BRONZE—RECTANGULAR FLANGE



Fig. 734

Rubber mounted motors are in common use, so why not a good, strong, practical rubber mounted stuffing box.

Our self-aligning shaft log Fig. 671 is very popular, but this stuffing box does the trick where a wood log is used.

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

No	Price Each	For Size Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$ 8.25	3/4-7/8-1	5x3 1/4	6 3/4
2	12.00	1 1/8-1 1/4	6x4 1/4	7 3/4
3	14.50	1 3/8-1 1/2	7x4 1/2	8 3/4
4	36.00	1 3/4-2	8x6	15 1/2

No. 4 size has Stuffing Gland like Fig. 630 instead of Nut, and four hose clamps.

Can be made one inch shorter if desired by cutting off that much hose.

Improved Stuffing Box EXTRA HEAVY—CAST BRONZE

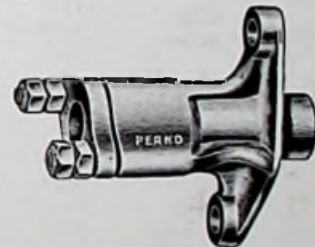


Fig. 630

A decided improvement over the regular type of stuffing box, extremely strong and heavily constructed, no nuts to bind on shaft or turn off, used with right or left hand engines, packing gland is kept in proper adjustment by two heavy tightening nuts and two lock nuts.

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Length Bearing Inches
1	\$ 7.00	\$ 9.00	5 3/4 x 3	1/2	5
1 1/8	7.50	9.50	6 3/8 x 3 1/4	1/2	5 1/2
1 1/4	8.50	10.50	7 x 3 1/2	3/8	6
1 3/8	10.00	12.00	7 5/8 x 3 3/4	5/8	6 1/2
1 1/2	12.00	14.50	8 1/8 x 4	3/4	7
1 3/4	15.00	19.00	9 1/8 x 4	3/4	8
2	19.00	23.50	10 1/8 x 4 1/2	3/4	9

New Self Aligning Shaft Log

CAST BRONZE

ALLOWS INSTALLATION OF ENGINE WELL AFT



Fig. 589

Stuffing box and shaft are cushioned in rubber, reducing vibration in the hull to a minimum and eliminating excessive wear on shaft and bearing.

Base is sufficiently wide for watertight installation with gasket.

Furnished without screw or bolt holes to allow drilling as required.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt. Lbs.
0	\$6.00	3/8	8x4	9	14	3
1	9.50	3/4	10x5	11 1/4	14	5 1/2
2	9.50	7/8	10x5	11 1/4	14	5 1/2
3	9.50	1	10x5	11 1/4	14	5 1/2

New Adjustable Shaft Log

CAST BRONZE



Fig. 577

Cast Bronze Ball and Socket arrangement gives ample adjustment in all directions, very easy to install. Construction is strong to stand hard usage.

Normal operating angle is 16 degrees.

Range of adjustment between 12 and 25 degrees.

Nos. 1 to 5 are drilled and countersunk for 1/4 inch bolts.

Nos. 6 and 7 are drilled and countersunk for 5/8 inch bolts.

Furnished complete as illustrated with grease cups. Flange bolts are locked with set screws.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$13.25	3/4	17 3/4	14	3 5/8	11
2	13.25	7/8	17 3/4	14	3 5/8	11
3	13.25	1	17 3/4	14	3 5/8	11
4	22.00	1 1/8	25	20	4 1/2	21
5	22.00	1 1/4	25	20	4 1/2	21
6	34.50	1 3/8	28 1/2	23	5 1/4	28
7	34.50	1 1/2	28 1/2	23	5 1/4	28

Adjustable Shaft Logs

ALL CAST BRONZE—EXTRA HEAVY



Fig. 627

Furnished complete with grease cup and rubber gasket for installing.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
1	\$16.75	3/4	16	3 1/2	14
2	16.75	7/8	16	3 1/2	14
3	16.75	1	16	3 1/2	14
4	25.00	1 1/8	22	4 1/4	19
5	25.00	1 1/4	22	4 1/4	19
6	38.00	1 3/8	26	5	30
7	38.00	1 1/2	26	5	30
8	50.00	1 3/4	28	5 1/2	57
9	50.00	2	28	5 1/2	57

Self Aligning Shaft Log

CAST BRONZE

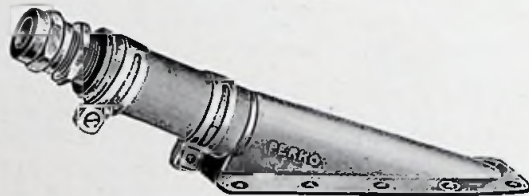


Fig. 671

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Angle In Degrees	Wt. Lbs.
1	\$10.00	3/4	11x3 1/2	18	14	7
2	10.00	7/8	11x3 1/2	18	14	7
3	10.00	1	11x3 1/2	18	14	7
4	15.50	1 1/8	17x4 1/4	23 1/2	11	12
5	15.50	1 1/4	17x4 1/4	23 1/2	11	12
6	22.00	1 3/8	19x5	28	11	20
7	22.00	1 1/2	19x5	28	11	20

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX



Fig. 672



Fig. 1092



Fig. 673

For Log No.	Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
0	\$2.00	\$.45	\$.50	1 1/4	1 3/4	3 1/4
1	4.00	.65	.70	1 3/4	2 3/8	4
2	4.00	.65	.70	1 3/4	2 3/8	4
3	4.00	.65	.70	1 3/4	2 3/8	4
4	5.00	1.00	1.50	2 3/8	3	5
5	5.00	1.00	1.50	2 3/8	3	5
6	7.75	1.65	1.90	2 5/8	3 1/2	5
7	7.75	1.65	1.90	2 5/8	3 1/2	5

No. 4 size has stuffing gland like Fig. 627 instead of nut.

Adjustable Strut

ALL CAST BRONZE
MARINE BABBITT BEARING

Side View

End View

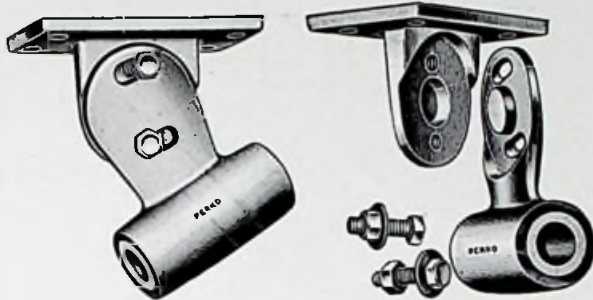


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by three heavy bronze bolts, bearing is of a special marine babbitt, the highest grade obtainable. Length of drop is figured from bottom of keel to center of shaft.

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches
3/4, 7/8, 1, 1 1/8	3	5 1/2	4 1/8
1 1/4, 1 3/8, 1 1/2	3 1/2	6 1/2	4 1/2

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$ 9.75	\$ 9.75	\$ 9.75	\$13.25			
6	10.00	10.00	10.00	13.75	\$13.75	\$15.75	\$15.75
7	10.25	10.25	10.25	14.00	14.00	16.00	16.00
8	10.50	10.50	10.50	14.25	14.25	16.50	16.50
9	11.00	11.00	11.00	14.50	14.50	17.00	17.00
10	11.50	11.50	11.50	14.75	14.75	17.25	17.25
11	12.00	12.00	12.00	15.50	15.50	17.50	17.50
12				16.00	16.00	18.00	18.00

Specify Size Shaft and Length of Drop, When Ordering

Stern Bearings

WITH GOODRICH CUTLESS BEARINGS
CAST BRONZE

With Oval Flange

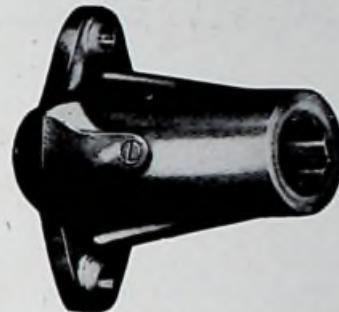


Fig. 381

With Square Flange

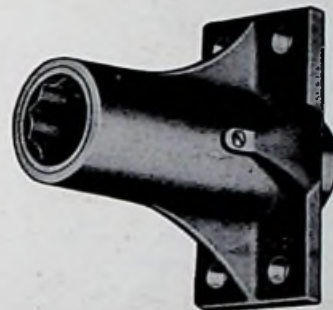


Fig. 382

The advantages of this type of bearing are many. The castings are made of high grade bronze of heavy construction and will last as long as the boat.

The flanges correspond in sizes with the usual bronze and babbitted bearings of this type. The Goodrich Cutless Bearing can be easily removed from the main casting by taking out the set screws holding same.

No vibration. Sand or silt is carried out without injury to shaft or bearing.

No attention or adjustment necessary. These bearings are provided with scoops for water lubrication and no additional scoops or other provisions for water supply are necessary.

Adjustable Strut

WITH GOODRICH RUBBER BEARING
CAST BRONZE—EXTRA HEAVY

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches
3/4	3	5 1/2	3
7/8	3	5 1/2	3 1/2
1	3	5 1/2	4
1 1/8	3	5 1/2	4 1/2
1 1/4	3 1/2	6 1/2	5
1 3/8	3 1/2	6 1/2	5 1/2
1 1/2	3 1/2	6 1/2	6



Fig. 1019

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$22.25	\$23.25	\$26.75	\$29.25	\$34.75	\$36.50	\$39.00
6	22.75	23.50	27.00	29.50	35.25	36.75	39.50
7	23.00	24.00	27.50	29.75	35.50	37.50	39.75
8	23.50	24.50	27.75	30.25	35.75	37.75	40.00
9	24.00	24.75	28.00	30.50	36.25	38.00	40.75
10	24.50	25.50	28.50	31.25	36.50	38.50	41.00
11					36.75	38.75	41.25
12					38.00	39.50	42.25

Specify Size Shaft and Length of Drop, When Ordering

Size Shaft Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$13.70	5 x 2 1/2	4
1 1/8	16.40	5 1/2 x 2 3/4	4 1/2
1 1/4	18.90	6 x 3	5
1 3/8	21.40	6 1/2 x 3 1/4	5 1/2
1 1/2	27.00	7 x 3 1/2	6
1 3/4	35.80	8 x 4	7
2	43.70	9 1/4 x 4 5/8	8
2 1/4	55.60	10 1/2 x 5 1/4	9
2 1/2	64.80	11 1/2 x 5 3/4	10
2 3/4	79.00	12 3/4 x 6 3/8	11
3	93.00	14 x 7	12



Thrust Ball Bearings

Flat Race
Bronze Retainers

Grooved Race
Steel Retainers



Fig. 786

Fig. 942

Shaft Inches Diameter	Fig. 786	Fig. 942	Diameter Inches Outside	Thickness Inches
3/8	\$1.10	\$1.00	1 1/8	1/8
1/2	1.20	1.10	1 1/2	1/8
5/8	1.25	1.15	1 3/4	3/8
1	1.30	1.25	1 3/4	3/8
1 1/8	1.45	1.35	2	5/8
1 1/4	1.55	1.40	2	5/8
1 3/8	1.90	1.75	2	5/8
1 1/2	2.00	1.85	2	5/8
1 5/8	2.50	2.20	2	1 1/8
1 3/4	2.75	2.20	3	1 1/8
2	3.20	2.85	3	1 1/8
2 1/4	3.60	3.10	3	1 1/8
2 1/2	4.50	3.60	3	1 1/8

Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Solid Type
Fig. 787

Split Type
Fig. 788

Shaft Size Inches	Solid Type Each	Split Type Each	Fig. 787	
			Outside Diameter Inches	Width Inches
5/8	\$.40		1 3/8	3/4
3/4	.45	\$.65	1 1/2	3/4
7/8	.45	.70	1 1/2	13/16
1	.55	.75	1 1/2	7/8
1 1/8	.60	.85	2	1
1 1/4	.70	.95	2 1/8	1 1/8
1 3/8	.75	1.00	2 1/8	1 1/4
1 1/2	.80	1.10	2 1/8	1 1/4
1 3/4	1.00	1.30	3	1 5/8
2	1.10	1.50	3 3/8	1 3/8

Split type is not made in 3/8 inch size.

Thrust Ball Bearings

GROOVED RACES
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Price Each	Outside Diam. Inches
5/8	\$1.10	1 1/8
3/4	1.20	1 1/2
7/8	1.25	1 3/4
1	1.35	1 3/4
1 1/8	1.45	2
1 1/4	1.60	2 1/8
1 3/8	1.90	2 1/8
1 1/2	2.05	2 1/8
1 5/8	2.60	2 1/8
1 3/4	2.80	3
2	3.30	3 1/8
2 1/4	3.60	3 1/8
2 1/2	4.50	3 1/8

Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Price Each	Size of Base Inches
3/4	\$1.10	2 x 5 1/4
7/8	1.30	2 3/4 x 5 3/8
1	1.30	2 3/4 x 5 3/8
1 1/8	1.60	3 3/8 x 6
1 1/4	1.60	3 3/8 x 6
1 3/8	1.95	3 3/8 x 7
1 1/2	1.95	3 3/8 x 7
1 3/4	2.75	4 1/2 x 7 1/4
2	3.50	4 3/4 x 7 1/2

Intermediate Bearings

BABBITTED



Fig. 941

Diameter Shaft Inches	Price Each	Length Overall Inches	Length Bearing Inches
1	\$3.60	7 1/4	3 1/2
1 1/8	3.60	8 1/4	3 3/4
1 1/4	4.25	8 1/4	3 3/4
1 3/8	4.25	8 1/4	3 3/4
1 1/2	4.75	9 1/4	4 1/4
1 3/4	5.50	9 1/4	4 1/4
2	5.50	10 1/2	5

Rear Bearings



Fig. 790

Shaft Size Inches	Price Each	A Inches	E Inches	F Inches
7/8	\$ 3.85	7 3/8	6	5 1/4
1	4.68	13 1/2	10 3/4	5 1 1/2
1 1/8	4.68	13 1/2	10 3/4	5 1 1/2
1 1/4	5.50	15	12	6 1/4
1 3/8	5.50	15	12	6 1/4
1 1/2	6.60	16 1/2	13 1/2	7 1/4
1 3/4	7.70	20	16 1/2	7 1/4
2	11.00	20	16 1/2	8 1/8

"Northeast" Thrust and Intermediate Bearing Combined

ALL ENCLOSED—RETAINS GREASE

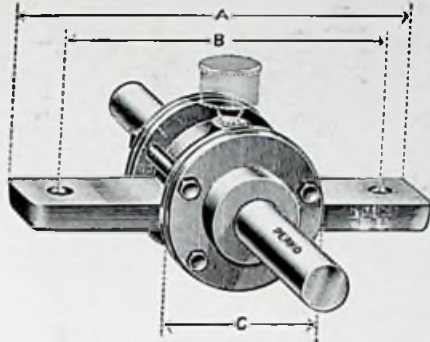


Fig. 742

No more dry or burnt out thrust bearings due to lack of grease.

A heavy housing containing two sets of thrust bearings for forward and reverse. Dirt cannot get in, grease cannot get out.

For Size Shaft Inches	Price Each	A Inches	B Inches	C Inches
3/8	\$ 9.00	10 1/2	9 1/8	3 1/4
3/4	11.00	10 1/2	9 1/8	3 1/4
7/8	12.00	10 1/2	9 1/4	3 1/4
1	12.50	11	9 1/2	3 1/2
1 1/8	13.25	11 1/4	9	3 1/2
1 1/4	15.00	11 1/4	9	4 1/8
1 3/8	17.00	11 1/4	9	4 1/8
1 1/2	18.00	11 1/4	9	4 1/8
1 3/4	22.00	12	10	4 1/2
2	24.00	12	10	4 1/2

Prices Do Not Include Grease Cups

"Northeast" High Speed Radial and Thrust Bearing Combined

NO MORE SCORED SHAFTS

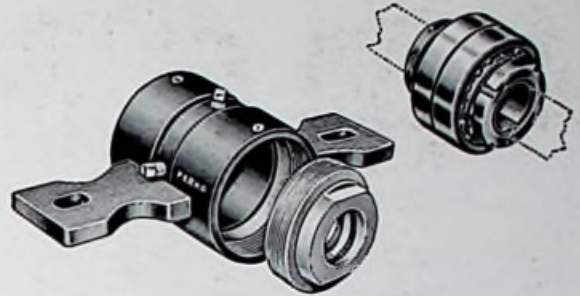


Fig. 1020

Here is a radial and thrust bearing that will increase R. P. M. due to use of ball bearings throughout. Takes care of the thrust both forward and backward along with the radial load. Requires no attention. Will stand high speed up to 8,500 R. P. M.

Will not throw grease. Just fill with gear grease up to bottom plug in housing.

Shaft can not be scored as it is enclosed by an internal housing which turns with the shaft on high speed ball bearings.

For Size Shaft Inches	Regular Each	Heavy Duty Each	Width Arms Overall Inches	Width Center of Holes Inches
3/4	\$12.50		10	8
7/8	13.60		11	9
1	14.70	\$20.00	11	9
1 1/8	18.00	22.50	11	9
1 1/4	19.00	24.40	11	9
1 3/8	21.50	25.50	11	10
1 1/2	23.00	27.00	11	10
1 3/4	26.50	31.25	11	9 1/2
2	30.00	35.00	12	10

Larger sizes, price on application.

Universal Joints

DROP FORGED STEEL

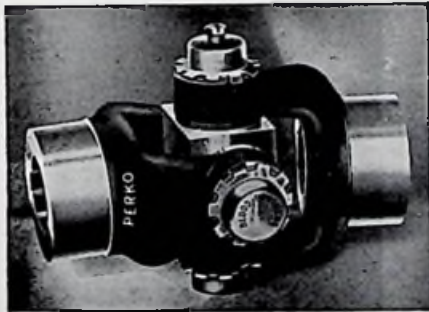


Fig. 791

An extremely rugged joint designed principally for marine use, turns in a small circle and is lubricated through a simple opening, the use of these joints will reduce vibration and lengthen the life of the boat and motor.

Size No.	Single Joint Each	Double Joint Each	Maximum Shaft Diameter Inches	Diameter Swing Inches	Length Single Joint Inches
0	\$ 8.80	\$ 17.35	1 1/8	3 3/8	7
1	10.90	19.70	1 3/8	4 1/2	7 1/2
2	14.70	26.60	1 1/2	5 1/4	7 1/2
3	18.70	31.90	1 3/4	5 3/4	8 3/4
4	22.90	39.10	1 7/8	6 1/4	8 3/4
5	34.40	63.00	2 1/8	7	10 3/4
6	68.25	124.95	2 3/4	8 3/8	13

Shaft Couplings

CAST IRON

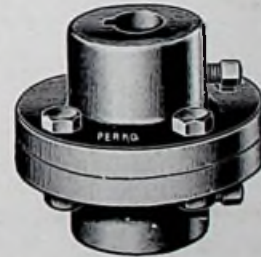


Fig. 327

No.	Each	Size Shaft Inches	Diam. Flange Inches	Length Overall Inches
1	\$3.75	3/4-7/8-1	4	3 1/2
2	4.50	3/4 to 1 1/2	4 1/2	4 1/8
3	5.75	1 1/8 to 1 1/2	5	4 3/4
14	8.75	1 to 2	6	6 1/2

For divided sizes such as 1 x 1 1/8, etc., add \$.50 each. For special boring, not listed, add \$1.00 each. For 1/2 coupling add \$.25 to half of above prices. No bolts furnished.

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Size Keyway Inches
3/4 - 7/8	1/8
1 - 1 1/8	1/4
1 1/4	3/8
1 3/8 - 1 1/2	1/2
1 3/8 - 1 3/4	5/8
1 3/8 - 2	1/2

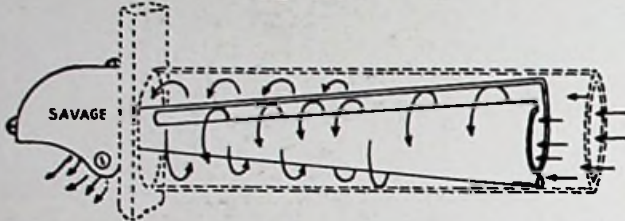
40%

"Savage" Mufflers

FOR SILENCING NOISY EXHAUSTS
FOR 5 TO 500 H. P. MOTORS
CAST BRONZE—GUARANTEED



Fig. 193



Method and Location of Installation

A scientifically designed muffler which takes care of exhaust gases where they should be taken care of—at the end of the exhaust line.

Designed to take care of the entire cooling water, in fact the more running through the muffler, the better.

Installed in two or three minutes in after end of exhaust pipe, no pipes or threads to cut.

NO BACK PRESSURE—DRAINS AUTOMATICALLY.

Diameter Exhaust Inches	Complete Each	Length Overall Inches	Weight Pounds
1½	\$ 8.00	9½	1¼
2	10.00	9¾	1⅝
2¼	10.50	9⅞	2½
2½	11.00	9⅞	2½
2¾	11.50	13	4½
3	12.00	13	4½
3½	14.00	13	4½
4	16.00	15½	5½
4½	18.00	15½	7

Give I. D. and O. D. of exhaust line and whether iron pipe or copper tubing.

Maxim Silencers

MODEL TR—FOR EXHAUSTS WHERE ENGINE IS BELOW WATER LINE
CAST IRON



Fig. 357

For use where it is necessary to have a wet exhaust and at the same time provide the maximum possible trapping effect to prevent water from running back into the engine.

For Exhaust Pipe Inches	Each	Overall Height Inches	Length to Center of Inlet Inches	Water Inlet I. P. S. Inches	Weight Pounds
1½	\$ 46.00	13	7¾	¾	40
2	68.50	17¾	8¾	¾	70
2½	75.00	20¾	9¼	1	90
3	102.00	24	9½	1	140
3½	116.00	27¼	10¼	1¼	190
4	126.00	31	10½	1¼	275
5	197.00	40	12	1½	375
6	215.00	49	14	2	430

Maxim Silencers

WET TYPE—MODEL M3
CAST IRON



Fig. 334

For Exhaust Pipe Inches	*Fig. 334 Each	**Fig. 334-A Each	***Fig. 334-B Each	Diameter Inches	Length Overall Inches
1½	\$ 12.75	\$ 11.50	\$ 10.00	4¾	9¾
2	15.50	13.75	12.00	6¼	11
2½	21.00	18.50	16.00	7 1/8	12 3/8
3	26.00	23.00	20.00	9 5/8	13 1/2
3½	35.00	32.00	29.00	11	14 3/4
4	39.00	36.00	33.00	12 3/8	15 3/4
5	104.00	95.00	86.00	14	23
6	149.00	138.00	127.00	14 7/8	27 1/2

*Fig. 334 has both ends flanged.

**Fig. 334-A has one end flanged, other end tapped.

***Fig. 334-B has both ends tapped.

Use same size Silencer as diameter of Exhaust Pipe.

Used with equal success on Diesel as well as gasoline engines.

Designed to take all the cooling water discharge from the engine making unnecessary any other water discharge through the hull. Can be installed practically anywhere in the exhaust line that is convenient, either near the engine or near the stern, however a two foot tail pipe at the silencer outlet will give best results.

Maxim silencers are available for dry exhausts of gasoline and Diesel engines. Give bore, number of cylinders, R. P. M. and exhaust size.

Maxim Silencers

CAST IRON—WET TYPE—MODEL M-4

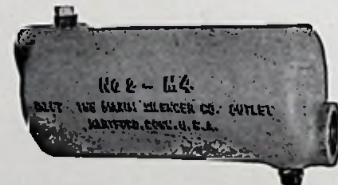


Fig. 755

Admirably suited to the line of small engines being presented to the field at the present time for the propulsion of small boats and for use with generating units in larger vessels.

Similar in construction to model M-3 and installed in like fashion.

For Exhaust Pipe Inches	Each	Diam. Inches	Length Overall Inches	Weight Pounds
1/2	\$5.00	3¼	7¾	4
3/4	6.00	3½	8¼	5
1	7.00	3¾	9	6
1¼	8.00	4¼	9½	10

Gasolene Strainer

PLAIN BRONZE—WOVEN COPPER SCREEN

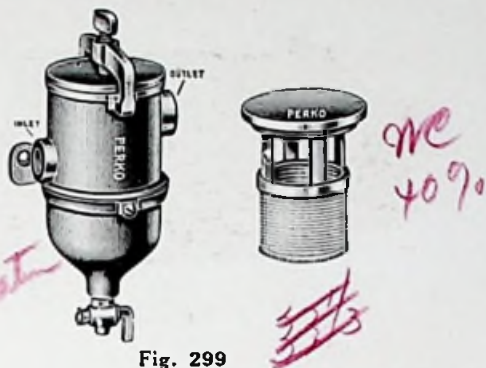


Fig. 299

With Yoke, Thumbscrew and Supporting Bracket.

Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pet cock at bottom drains the settling chamber. Side bracket supports the strainer, relieving the fuel pipes of all weight.

★Size No.	Price Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Each Pounds
1	\$ 5.50	5½	2¾	¼ or ⅜	3
1½	7.75	6¼	3⅛	⅜ or ½	5
2	10.00	7¼	3¾	½ or ¾	7

Savage Outboard Motor Brackets

CAST BRONZE OR ALUMINUM FOR ALL TYPES OF BOATS



Fig. 808

For main power, auxiliary power, trolling, etc. Ideal for sail boats in emergency, becalm, narrow channels. Three inconspicuous bronze sockets permanently attached to the boat serve to mount the bracket and motor. When not in use the bracket can be conveniently stowed away.

No.	Each	Height Inches	Width Inches	Weight Pounds	For Weight of Motor
1	\$14.00	10	6	6¼	Less than 40 lbs.
2	18.00	13½	10⅞	8	40 to 70 lbs.
3	25.00	13½	10⅞	16½	70 lbs. and more

Outboard Motor Transom Plates

CAST BRONZE—PLAIN



Fig. 814

Furnished complete with tanned leather inserts.

Plain Per Pair	Inside Diam. Inches	Outside Diam. Inches	Extreme Thickness Inches	Weight Per Pair Ounces
\$.80	1¾	3	¼	6

Gy-A-Liner Engine Aligners

CAST IRON—PAINTED

Patent No. 2123484



Fig. 1097

Consists of two cast iron wedges adjusted by a galvanized bolt to various heights as required. Suitable for all light and medium weight engines.

Each	Size Inches	For Engine Bolt Inches	Height of Adjustment Inches	Weight Each Pounds
\$1.10	2½ x 2½	½	⅜	¾

Intake Water Strainers

CAST BRONZE

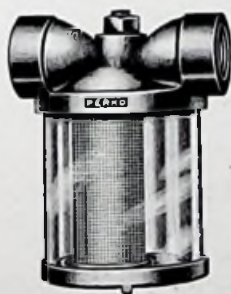


Fig. 493

A durable water strainer, to be located between the inlet connection and the water pump on the engine.

A double core of bronze screen cloth prevents sand and dirt from entering the pump and water jacket.

A special heat resisting boro silicate glass cylinder makes it possible to observe conditions at all times.

May be taken apart readily for cleaning.

No.	Complete Each	Glass Only Each	Gaskets Per Set	Pipe Size Inches	Extreme Height Inches	Extreme Width Inches
1	\$11.00	\$2.25	\$.30	½	5¼	3¾
2	11.00	2.25	.30	¾	5¼	3¾
3	18.75	2.75	.40	1	7½	5¼
4	18.75	2.75	.40	1¼	7½	5¼
5	26.50	4.00	.60	1½	10	7½



Wrought Brass Fog Bells STAMPED FROM BELL METAL



Fig. 159

Diameter 6 in. 8 in.
Hgt. overall 4 in. 5 in.
Extension 7 1/2 in. 8 3/4 in.
Weight 1 lb. 2 1/2 lbs.

Diam. Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each
6	\$1.55	\$1.70	\$3.60
8	2.65	2.90	4.80
Wall Plates only	.35	.40	.70
Arms only	.70	.80	1.20

Cast Fog Bell MEDIUM WEIGHT—WITH YOKE



Fig. 386

Diam. Inches	Polished Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$ 7.75	\$10.25	7 1/4	4
8	12.50	16.00	9	9

Cast Fog Bells LIGHTWEIGHT



Fig. 581

Cast from bell metal. With removable bracket.

Diameter 6 in. 8 in.
Hgt. overall 4 1/2 in. 5 1/2 in.
Extension 6 1/2 in. 8 1/2 in.
Weight 1 1/2 lbs. 4 1/2 lbs.

Diam. Inches	Polished Each	Chromium Plated Each
6	\$4.25	\$7.00
8	6.60	9.50

Air Whistles ALL CAST BRONZE



Fig. 825

A very powerful whistle operated by compressed air, its tone is clear cut and sharply defined, has remarkable echoing and fog penetrating qualities. Contains a diaphragm of non-corrosive metal which vibrates when the air enters into the pipe. Nothing to wear out as the only mobile part is the diaphragm. The number 1 whistle operates on a minimum of 10 lbs. pressure and the number 2 on 20 lbs. pressure. The sound projector is polished, and the balance is finished bronze.

A special feature of this whistle is the bronze base for mounting, which contains the pipe connection and air inlet in its vertical post, through the under part of the base.

The tone is easily regulated by turning the projector to right or left, a brass key is furnished for the fastening device which holds projector in position.

MEDIUM WEIGHT
Cast from high grade bell metal. Highly polished detachable bracket.



Fig. 420

Diameter 6 in. 8 in.
Hgt. overall 5 in. 6 1/2 in.
Extension 6 3/4 in. 8 1/2 in.
Weight 4 lbs. 8 lbs.

Diam. Inches	Polished Each	Chromium Plated Each
6	\$ 7.00	\$ 9.50
8	11.75	14.50

HEAVY WEIGHT

Cast from extra heavy bell metal. Complete with removable bracket.



Fig. 150

Diameter 8 in. 10 in.
Height 8 in. 10 1/2 in.
Projection 9 in. 12 in.
Weight 10 lbs. 19 lbs.

Diam. Inches	Polished Each	Chromium Plated Each
8	\$17.50	\$21.50
10	32.50	37.50

No.	Each	Diameter of Disc Inches	Diameter Base Inches	Length Overall Inches	For Size Pipe Inches
1	\$11.00	3	3	5 3/4	3/8
2	21.25	4	3 1/2	8 3/4	3/8

Whistle Valves FOR AIR WHISTLES CAST BRONZE—PLAIN

A very fine fool-proof air whistle valve made of cast bronze with stainless steel valve spring.

Guaranteed for air pressure up to 200 lbs.



Fig. 463

Pipe Size Inches	Each
3/8	\$6.50

Fog Horns

WITH ADJUSTABLE REED



Fig. 162

These horns have a patented slide on the reed which controls the tone. Very easy to adjust or tune.

Length Overall Inches		Galv. Per Doz.	Brass Per Doz.
18	Without Bell	\$11.00	\$16.50
20	With Bell, as illustrated	13.00	18.50
24	With Bell, as illustrated	15.50	20.00

Two Tone Signal Horns



Fig. 165

Solid brass. Very loud, double tone. Blown by mouth. Easily taken apart.

Length Overall Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
7 1/2	\$2.50	\$3.00	\$4.00
10	3.00	3.50	4.50

Midget Fog Horn

GALVANIZED OR POLISHED BRASS WITH NICKEL PLATED MOUTHPIECE



Fig. 253

It's amazing, the fine deep loud tone this small horn produces. Ideal for storing in a small space. Has slotted hole in large end for hanging on wall.

Length Inches	Galvanized Per dozen	Polished brass Per dozen
15	\$8.00	\$12.00

Full Tone Whistle



Fig. 164

Made of solid brass, nickel plated. Blown by mouth or can be attached to compressed air tank or steam pipe by removing mouthpiece. Standard pipe thread, 1/8 inch.

Polished Brass Each	Chromium Plated Each	Size Inches
\$2.25	\$3.50	1 1/8 x 6 1/4

Police or Signal Whistle

Solid brass, nickel plated, loud, clear tone.



Fig. 349

Per Dozen, \$7.00

Mouth Blown Sirens

BRASS



Fig. 138

If a signal or warning whistle with a different tone than the usual is desired this is it.

Mouth piece contains a high speed fibre rotator, delicately balanced on bronze needle bearing. Requires no effort to produce a high pitched penetrating sound easily heard a half mile or more away.

A small child can blow it effectively.

No.	Polished Brass Each	Chromium Plated Each	Extreme Length Inches	Diam. Mouth Inches
1	\$4.50	\$5.25	7	3 3/8
2	4.70	5.50	9	4 3/8

Triplex Motor Boat Whistle

WITH METAL MOUTHPIECE



Fig. 168

All solid brass, nickel plated, loud triple tone. Complete with chain.

Length overall, 6 1/2 in.

Per Doz.\$12.00

Duplex Motor Boat Whistle

ALL BRASS—NICKEL PLATED



Fig. 167

A whistle is required by law on outboard motor boats. Loud double tone. Brass, nickel plated mouthpiece. Complete with chain.

Length overall, 3 1/2 inches

Per Dozen\$10.00

Mouth Blown Siren

POCKET SIZE—BRASS

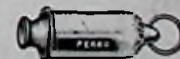


Fig. 166

Same mouth piece, rotator and effective tone as Fig. 138 above. Small enough for a vest pocket.

Nickel Plated Each	Extreme Length Inches	Extreme Diam. Inches
\$1.50	2 1/8	1



BRASS MARINE HORNS

6, 12 AND 32 VOLTS

All furnished complete with button, sufficient length of wire, mounting bolts and screws, etc. Internal steel parts such as diaphragm, armature, field parts, etc. are specially treated against corrosion and severity of salt water usage.

Clear-Way Horn



Fig. 73

6 Volt		Length Overall Inches	Height Overall Inches	Diam. Base Inches
Polished Brass Each	Chromium Plated Each			
\$15.00	\$17.50	13	7 1/4	3 3/8

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

Sea-Master Horn

WITH WATERTIGHT GLAND FOR CABLE CAST BRONZE MOUNTING

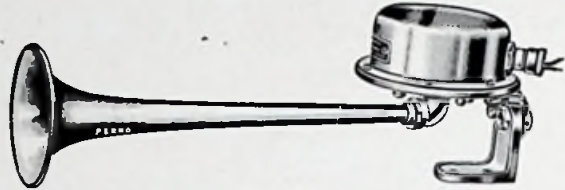


Fig. 576

A horn manufactured for marine use especially on salt water.

We believe this to be the loudest electric horn produced at the price.

All external parts are brass or bronze and internal parts are fully enclosed against moisture. Cable exits through watertight rubber packed stuffing gland.

Finish—chromium plated only.

6 Volt Each	12 Volt Each	32 Volt Each	Length Inches	Width Inches	Height Inches
\$35.00	\$36.00	\$37.50	20	6 1/4	6 1/2

Mile-Away Horn

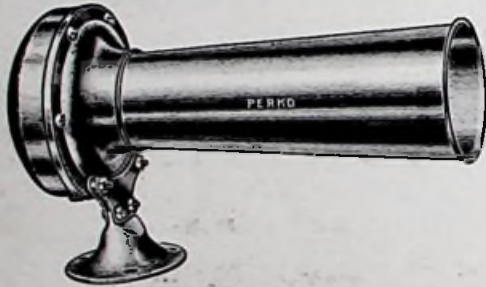


Fig. 75

6 Volt		Length Overall Inches	Height Overall Inches	Diam. Base Inches
Polished Brass Each	Chromium Plated Each			
\$22.50	\$25.00	15 3/4	8 1/2	3 3/8

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

Horns per U. S. Coast Guard Spec. No. CR-23075 and U. S. Navy Spec. No. 17-S-11-A. Can be furnished, price on application.

Blaster Horn

WITH RELAY—UNIVERSAL MOUNTING

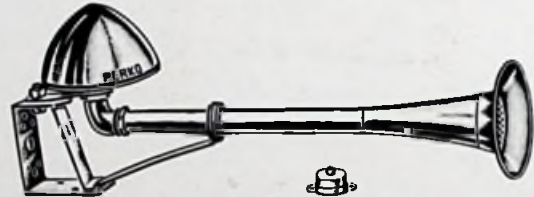


Fig. 989

6 Volt		Length Inches	Width Inches	Height Inches
Polished Brass Each	Chromium Plated Each			
\$17.50	\$20.00	22	5 1/2	9

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

Sea-Tone Horns



Fig. 573

Finished in copper metalustre color with polished stainless steel relay cover and grills. Universal mounting.

6 Volt Per Pair	12 Volt Per Pair	Length Inches	Width Inches	Height Inches
\$12.00	\$13.25	20 1/4	10 1/2	8

Super-Blaster Twin Horns

WITH RELAY—UNIVERSAL MOUNTING



Fig. 990

6 Volt		Length Inches	Width Inches	Height Inches
Polished Brass Per Pair	Chromium Plated Per Pair			
\$25.00	\$30.00	22	11	9

For 12 volt equipment add \$4.00.
For 32 volt equipment add \$7.00.



Junior Siren

ELECTRIC HIGH SPEED MOTOR

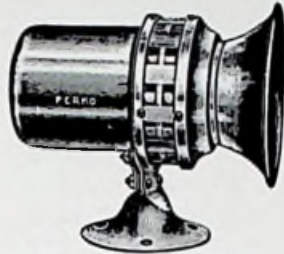


Fig. 192

Case, projector, bracket, etc., made of brass. Other parts cadmium plated. Furnished with push button and 10 feet of cable.

6 Volt		Length Overall Inches	Height Overall Inches	Diam. Base Inches
Polished Brass Each	Chromium Plated Each			
\$15.50	\$18.00	7 1/2	5 3/4	3 7/8

For 12 volt equipment add \$2.00.

For 32 volt equipment add \$3.50.

Speed-Way Marine Horns

WITH RELAY CAST BRONZE MOUNTING

Junior Single

6-12 AND 32 VOLTS

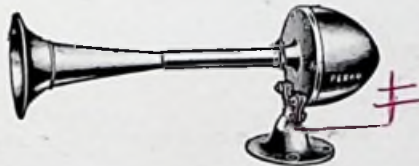


Fig. 110

Volts	Polished Brass Each		Length Overall Inches	Width Inches
	Polished Brass Each	Chromium Plated Each		
6	\$10.00	\$12.50	19	4 1/2
12	12.00	14.50	19	4 1/2
32	13.50	16.00	19	4 1/2

Junior Twins and Senior Twins



Fig. 111

Type	Length Overall		Width Each Horn Inches
	Short Horn Inches	Long Horn Inches	
Junior	16	19	4 1/2
Senior	18	22 1/2	5 1/8

Volts	Junior		Senior	
	Polished Brass Per Pair	Chromium Plated Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
6	\$19.50	\$22.50	\$22.50	\$25.00
12	23.50	26.50	26.50	29.00
32	26.50	29.50	29.50	32.00

New Marine Sirens

BRASS—CHROMIUM PLATED
6 AND 12 VOLTS

THE SEA-MITE



Fig. 1117

Extremely Powerful

A siren of fine tone quality, dependability and performance at a remarkably low price.

Manufactured primarily for marine use, has all brass case, brass screws and die cast white metal rotor.

Its neat streamlined appearance will add distinction to any boat.

Furnished complete with 10 ft. cable and heavy duty push button.

Volts	Chromium Plated Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
12	23.50	7 3/4	5 3/4	4 3/8	5 1/2

THE YACHTSMAN

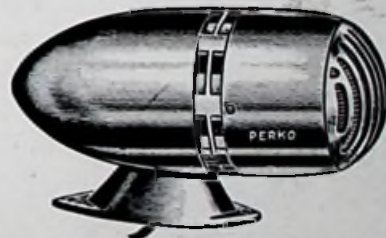


Fig. 1118

A siren that audibly commands the right of way. An ear piercing tone that can be heard for miles.

Has specially designed motor for economical operation, equipped with greased sealed ball bearings for smooth operation.

These sirens are ruggedly constructed for severe usage and precision built for long life.

All brass case, brass screws and die cast rotor. Built for marine use.

Furnished complete with long cable and heavy duty push button.

Volts	Chromium Plated Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds

For 12 or 32 Volts Add \$4.00 Each

Round Portlights

GALVANIZED IRON AND CAST BRONZE
NEW STYLE—IMPROVED
GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

Round Frames for Portlight Glass

CAST BRONZE



Fig. 71

Diam. Opening Inches	Galv. Each	Plain Bronze Each	Pol. Bronze Each	Diam. Glass in Clear Inches	Diam. Frame of Glass Inches	Thickness of Glass Inches	Inside Diam. Inches	Outside Diam. Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
3	\$3.25	\$3.75	\$6.75	3	6 ⁵ / ₈	1/4	3 ⁷ / ₈	5 ³ / ₄	\$.60	\$1.10	\$2.20
4	3.50	4.00	7.00	4	7 ³ / ₈	1/4	4 ³ / ₈	6 ¹ / ₄	.65	1.20	2.30
5	4.00	5.00	8.50	5	8 ³ / ₄	3/8	4 ⁷ / ₈	6 ³ / ₄	.70	1.35	2.60
6	5.00	5.75	9.50	6	9 ³ / ₄	3/8	5 ¹ / ₄	7 ¹ / ₄	.80	1.65	3.00
7	7.00	7.75	11.50	7	11	1/2	5 ³ / ₄	8	1.10	2.00	3.40
8	8.50	9.50	14.00	8	12 ¹ / ₄	1/2	6 ¹ / ₄	8 ¹ / ₂	1.40	2.50	4.00
9	11.50	13.00	17.50	9	14 ³ / ₈	1/2	7 ¹ / ₄	9 ³ / ₄	1.80	3.00	4.70
10	14.00	15.50	22.00	10	14 ⁷ / ₈	1/2	8 ¹ / ₄	11 ¹ / ₄	2.20	3.60	5.50
12	21.00	23.50	33.00	12	17 ⁷ / ₈	1/2	9 ¹ / ₄	12 ¹ / ₄	2.75	4.00	6.30
							10 ¹ / ₄	13 ¹ / ₄	3.30	5.50	7.70

All sizes are recessed for screens.
 For screens see Fig. 434.
 9 and 10 inch have Two Fastenings
 12 inch have Three Fastenings

MORE-AIR PORTLIGHTS

INSIDE PATTERN—FOR WOOD HULLS
CAST BRONZE—PLAIN AND POLISHED
COMPLETE WITH OUTSIDE FINISHING RING
GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE RECESSED FOR SCREENS
FOR SCREENS SEE FIG. 434

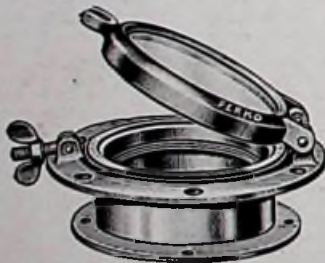


Fig. 157

Showing Screen in Place



Opening Inches	For Thickness of Wood							
	1 ¹ / ₂ Inch		3 Inch		4 ¹ / ₂ Inch		6 Inch	
	Plain Each	Polished Each	Plain Each	Polished Each	Plain Each	Polished Each	Plain Each	Polished Each
4	\$ 4.50	\$ 7.50	\$ 5.25	\$ 8.25	\$ 6.00	\$ 9.00	\$ 6.75	\$ 9.75
5	5.25	8.75	6.00	9.50	6.75	10.25	7.50	11.00
6	6.50	10.25	7.25	11.00	8.25	12.00	9.50	13.25
7	8.25	12.00	9.50	13.25	10.75	14.50	12.00	15.75
8	10.75	15.25	12.00	16.50	13.75	18.25	15.75	20.25
9	14.00	19.50	15.50	21.00	17.75	23.25	20.00	25.50
10	17.50	24.00	20.25	26.75	23.50	30.00	27.00	33.50
12	23.50	33.00	26.75	36.25	31.00	40.50	35.75	45.25

For 1 inch wood, use 1¹/₂ inch price. For 2 or 2¹/₂ inch wood use 3 inch price, etc.
 Diameter frame up to 8 inch, add 3 inches. 9 to 12 inch, add 4 inches.

Without outside finishing ring, deduct from above prices the following:

	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch	12 Inch
Plain	\$.45	\$.55	\$.65	\$.80	\$1.00	\$1.50	\$2.00	\$2.50
Polished	.60	.75	.85	1.10	1.35	2.00	2.75	3.25

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices



Oval Portlights

INSIDE PATTERN—WITH DEEP COLLAR

CAST BRONZE

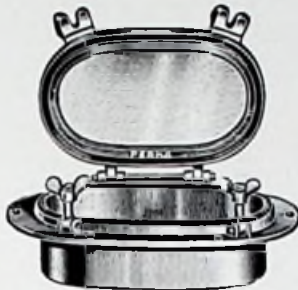


Fig. 907

COMPLETE WITH OUTSIDE FINISHING RING

PLAIN BRONZE

Size Opening Inches	For Thickness of Wood	
	1 1/2 Inch Each	2 Inch Each
4 x 7	\$10.00	\$11.00
5 x 9	12.50	14.00
6 3/4 x 12	18.00	21.00

POLISHED BRONZE

Size Opening Inches	For Thickness of Wood	
	1 1/2 Inch Each	2 Inch Each
4 x 7	\$13.00	\$14.00
5 x 9	16.00	17.50
6 3/4 x 12	23.00	26.00

WITHOUT OUTSIDE FINISHING RING DEDUCT FROM ABOVE

Size	Plain	Polished
4 x 7	\$.50	\$.75
5 x 9	.75	1.25
6 3/4 x 12	1.00	1.50

Galvanized Inside Portlights

CAST IRON—WITH FINISHING RING

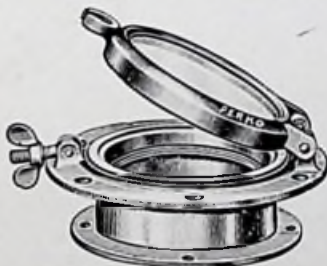


Fig. 265

Opening Inches	For Thickness of Wood		
	1 1/2 Inch Each	2 Inch Each	2 1/2 Inch Each
5	\$4.50	\$4.65	\$4.80
6	5.50	5.75	5.90
7	7.25	7.55	7.75
8	9.25	9.65	9.90

WITHOUT OUTSIDE FINISHING RING DEDUCT FROM ABOVE

5 Inch Size Each	6 Inch Size Each	7 Inch Size Each	8 Inch Size Each
\$.50	\$.50	\$.75	\$.75

Lightweight Portlights

CAST BRONZE
GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 795

These are made primarily for small cabin cruisers and cabin sailboats where space and weight are important factors.

Diam. Opening Inches	Plain Bronze Each	Polished Bronze Each	Outside Diam. Inches	Thickness of Glass Inches	Weight Pounds
4	\$3.25	\$ 6.00	7	3/16	3 1/4
5	4.00	7.25	8	3/16	3 1/2
6	4.75	8.25	9 1/4	3/16	4
7	6.50	10.00	10 3/8	3/16	5
8	8.00	12.25	11 1/4	3/16	7

All sizes are recessed for screens.
For screens see Fig. 434.

Marine Cabin Windows

CAST BRONZE—WATERTIGHT

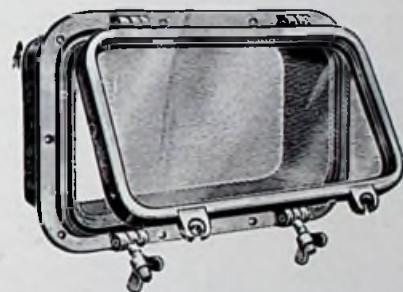


Fig. 796

These cabin windows are fitted with push-in type screens which can be left in position when window is closed. Complete with finishing rings.

Size Glass in Clear Inches	With 2 Fastenings		With 4 Fastenings	
	Plain Bronze Each	Polished Bronze Each	Plain Bronze Each	Polished Bronze Each
5x12	\$17.50	\$24.25	\$20.00	\$27.75
7x14	21.75	29.50	24.75	33.50
8x18	30.00	41.50		
7x21	33.50	46.50		
8x21	35.00	48.50		
10x21	45.00	60.00		
12x21	55.00	72.50		

Without Finishing Rings, Deduct From Above

Size	Plain	Polished	Plain	Polished
5x12	1.50	2.25	1.50	2.25
7x14	1.75	2.50	1.75	2.50
8x18	2.50	4.00		
7x21	2.75	4.25		
8x21	3.00	4.50		
10x21	4.00	6.00		
12x21	6.00	9.00		

Opening Inches	Without Screen		Width of Flange Inches	Outside of Flange Inches	Length of Spigot Inches	
	With Screen	Without Screen			Outside of Spigot	Length of Spigot
5x12	5 1/4 x 12 1/4	1 1/8	7 3/4 x 14 3/4	5 1/2 x 12 1/2	2 1/4	
7x14	7 1/4 x 14 1/4	1 1/4	10 x 17	7 1/2 x 14 1/2	2 1/4	
8x18	8 1/4 x 18 1/4	1 3/8	11 1/4 x 21 1/4	8 1/2 x 18 1/2	2 1/4	
7x21	7 1/4 x 21 1/4	1 3/8	10 1/4 x 24 1/4	7 1/2 x 21 1/2	2 1/4	
8x21	8 1/4 x 21 1/4	1 3/8	11 1/4 x 24 1/4	8 1/2 x 21 1/2	2 1/4	
10x21	10 1/4 x 21 1/4	1 3/8	13 1/4 x 24 1/4	10 1/2 x 21 1/2	2 1/4	
12x21	12 1/4 x 21 1/4	1 3/8	15 1/4 x 24 1/4	12 1/2 x 21 1/2	2 1/4	

Thickness of glass 1/4 inch.

With longer spigots, price on application.

Specify plain or polished, with or without rings.

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Air Scoops for Portlights

GALVANIZED OR POLISHED BRASS
WITH OR WITHOUT SCREENS



Fig. 153

Opening of Portlight Inches	Galvanized		Polished Brass	
	Without Screen Each	With Screen Each	Without Screen Each	With Screen Each
3	\$1.65	\$2.75	\$2.75	\$3.85
4	2.00	3.10	3.20	4.30
5	2.30	3.40	3.60	4.70
6	2.65	4.00	4.10	5.45
7	3.00	4.40	4.50	5.90
8	3.30	4.75	5.00	6.45

Larger sizes made to order—Price on Application.

Screens are soldered into scoops.

Toggle Bolts with Wing Nuts

CAST BRONZE



Fig. 507

Diameter Inches	Length Inches	Pin Size Inches	Plain Bronze Each	Polished Bronze Each
$\frac{3}{8}$	1 $\frac{1}{2}$	$\frac{1}{8}$	\$.90	\$1.30
$\frac{7}{16}$	1 $\frac{3}{4}$	$\frac{3}{16}$	.90	1.30
$\frac{1}{2}$	2	$\frac{1}{4}$	.90	1.30
$\frac{5}{8}$	2	$\frac{3}{8}$	1.00	1.40
$\frac{3}{4}$	2 $\frac{3}{8}$	$\frac{1}{2}$	1.00	1.40
$\frac{7}{8}$	2 $\frac{1}{4}$	$\frac{3}{4}$	1.20	1.60
$\frac{15}{16}$	2 $\frac{1}{2}$	$\frac{7}{8}$	1.20	1.60

Length is measured to center of pin hole.

Wing Nuts for Portlights

CAST BRASS



Fig. 453

For Diam. Bolt Inches	Plain Brass Each	Polished Brass Each	For Diam. Bolt Inches	Plain Brass Each	Polished Brass Each
$\frac{1}{4}$	\$.10	\$.20	$\frac{1}{2}$	\$.25	\$.45
$\frac{3}{16}$	.10	.20	$\frac{5}{16}$	.30	.50
$\frac{1}{2}$	.10	.20	$\frac{3}{8}$	.30	.50
$\frac{3}{8}$	.20	.35			

Shallow Portlight Screens

SPUN BRASS FRAME—COPPER MESH
FOR RECESSED PORTLIGHTS, FIG. 157, 317, 795



Fig. 434

Size Portlight Inches	Each	Size Portlight Inches	Each
4	\$1.00	8	\$1.70
5	1.10	9	1.90
6	1.30	10	2.10
7	1.50	12	2.35

Exact size of screen. Add $\frac{1}{16}$ inch to above sizes.

Larger sizes made to order—Price on Application.

Rubber for Portlights



Fig. 461

Size	Per Foot
$\frac{1}{4}$ inch square	\$.12
$\frac{1}{2}$ inch square	.18
$\frac{3}{8}$ inch square	.25

Sold only in standard lengths of 12 $\frac{1}{2}$ feet each.

Oval Portlight Screens

BRASS FRAME—COPPER MESH



Fig. 909

Opening of Portlight Inches	Each
4 x 7	\$1.50
5 x 9	1.75
6 $\frac{3}{4}$ x 12	2.50

Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Size of Clear Glass Inches	Plain Each	Pol. Each	Thickness of Glass Inches	Diam. of Frame Inches	Wt. Each Lbs.
3 $\frac{3}{8}$	\$2.75	\$3.75	$\frac{3}{8}$	5 $\frac{1}{4}$	1 $\frac{1}{2}$
4 $\frac{1}{2}$	3.00	4.00	$\frac{3}{8}$	6 $\frac{1}{4}$	2
5	3.75	5.00	$\frac{1}{2}$	7 $\frac{1}{4}$	3 $\frac{3}{8}$
6	4.50	5.75	$\frac{1}{2}$	8	3 $\frac{3}{8}$
7	6.50	8.00	$\frac{3}{4}$	10	6 $\frac{3}{8}$
8	8.25	10.25	$\frac{3}{4}$	11	9 $\frac{3}{8}$

Regular Deck Plates



Fig. 526

CAST BRONZE

Complete with key.

4090

Diam. Opening Inches	Polished Finish Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	Diameter Plate Inches
1	\$ 1.05	\$ 1.60	\$.55	\$.15	2 1/2
1 1/2	1.25	1.80	.65	.20	3 3/8
2	1.85	2.50	.95	.25	4 1/2
2 1/2	2.25	2.85	1.15	.25	4 7/8
3	2.75	3.45	1.40	.25	5 1/2
3 1/2	3.50	4.25	1.75	.35	5 3/4
4	4.25	5.10	2.15	.40	6 3/8
4 1/2	5.25	6.25	2.65	.45	7 1/4
5	6.25	7.50	3.15	.50	8 1/4
6	7.50	9.00	3.75	.90	10 1/4
8	19.50	22.00	9.75	1.25	

Pipe Deck Plates

CAST BRONZE

Standard iron pipe size thread. Complete with key. Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes 1 inch to 2 1/2 inch inclusive.



Fig. 528

Pipe Size Inches	Polished Finish Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	O. D. Plate Inches
3/4	\$ 1.25	\$ 1.65	\$.60	\$.15	2 5/8
1	1.35	2.00	.65	.15	2 7/8
1 1/4	1.65	2.30	.80	.20	3 1/8
1 1/2	1.90	2.65	.95	.20	3 3/4
2	2.50	3.30	1.25	.25	4 1/4
2 1/2	3.25	4.15	1.60	.25	4 3/8
3	4.25	5.25	2.10	.35	5 3/8
3 1/2	7.25	8.50	3.60	.35	6
4	8.25	11.25	4.10	.40	6 3/4
5	12.00	14.50	6.00	.50	8
6	15.50	19.00	7.50	.80	9

4090

Ventilator Deck Plates

POLISHED

CAST BRONZE

Complete with key and extra ring for hood ventilator.

40



Fig. 527

Diameter Opening Inches	Polished Each	Chromium Plated Each	Diameter Plate Inches	Weight Each
2	\$ 2.90	\$ 3.90	3 5/8	12 oz.
2 1/2	3.25	4.20	4 1/2	1 lb.
3	3.85	4.60	4 7/8	1 1/4 lbs.
3 1/2	4.60	5.50	5 1/2	1 3/4 lbs.
4	5.50	6.50	5 3/4	2 1/4 lbs.
4 1/2	6.35	7.25	6 3/8	3 1/4 lbs.
5	8.00	9.50	7 1/4	3 3/4 lbs.
6	10.00	11.50	8 1/4	4 1/2 lbs.
8	25.50	28.50	10 1/4	7 1/2 lbs.

Swivel Rings

FOR VENTILATORS—CAST BRONZE

When used with hood ventilator, allows it to be turned in any position desired. Complete with thumb screws for fastening.



Fig. 419

For Size Ventilator Inches	Open- ing in Base Inches	Price Each	For Size Ventilator Inches	Open- ing in Base Inches	Price Each
3	2 3/16	\$ 5.00	8	7	\$14.50
4	3 1/2	7.50	9	8 1/8	17.00
5	4	9.00	10	9 1/8	24.00
6	5	11.00	11	10 1/8	27.00
7	6	12.00	12	11 1/8	29.00

40

Price does not include cap, if cap is desired add 25% to above prices.

Chromium plated swivel rings, add 40% to above.

Manhole Plates

WATERTIGHT

GALVANIZED IRON AND CAST BRONZE



Fig. 662

Furnished complete with locking screws, key and rubber packing ring. Absolutely watertight.

Size No.	Complete		Without Grating		Diam. Opening Inches
	Galv. Each	Brass Each	Galv. Each	Brass Each	
0	\$11.00		\$10.00		9
1	13.00	\$26.00	11.00	\$20.00	10
2	17.00	30.00	13.00	23.00	12
3	21.00	37.00	16.00	28.00	14
4	26.00	45.00	20.00	34.00	16
5	30.00	58.00	23.00	45.00	18
6	34.00	78.00	26.00	60.00	20

33 1/3

Deck Plate Key

CAST BRONZE

ADJUSTABLE TO ALL SIZES OF DECK PLATES

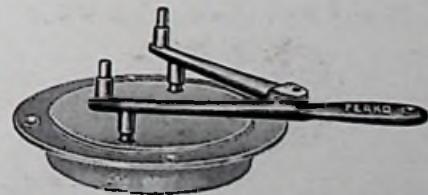


Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate.

Price each _____ \$1.25

40



Boat Cleats

GALVANIZED IRON—CAST BRONZE
OPEN BASE



Fig. 544

33 1/3

40

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each
3 1/2	\$.10	\$.08	\$.50	\$.75
4	.12	.10	.60	.85
5	.15	.12	.70	1.00
6	.20	.16	.90	1.20
8	.40	.35	1.35	1.70
10	.60	.55	2.00	2.80
12	.90	.80	3.00	3.85
14	2.00	1.60	5.50	6.50
18		3.00		

Boat or Fender Cleats

GALVANIZED IRON AND BRONZE
SQUARE BASE



Fig. 583

40

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each	Weight Each Ounces
2	\$.12	\$.10	\$.35	\$.65	1
2 1/4			.40	.70	1 1/2
3	.15	.12	.50	.85	2 1/2
4	.30	.15	.70	1.10	5
5	.40	.28	1.00	1.40	9
6	.50	.35	1.20	1.70	16

NOTE—2 1/4 inch size is drop forged bronze.

Hollow Cleats

CLOSED ENDS
CAST BRONZE



Fig. 572

40

Length Inches	Polished Bronze Each	Chromium Plated Each	Weight
4 1/2	\$1.10	\$1.40	8 oz.
5 1/2	1.40	1.70	9 oz.
6 1/2	1.50	1.80	10 oz.
8	1.75	2.25	20 oz.
10	2.50	3.25	2 lbs.
12	4.00	4.75	3 lbs.

Canoe Cleats

CAST BRONZE



Fig. 763

40

Size No.	Length Inches	Polished Bronze Each	Chromium Plated Each
1	2 3/8	\$.35	\$.65
2	3 3/4	.50	.80

Round Base Cleats

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 1044

40 70

Length Inches	Galvanized Each	Polished Brass Each	Chromium Plated Each	Diameter Base Inches
1 3/4		\$.35	\$.65	1 1/8
2 1/4	\$.12	.40	.70	1 1/8
3	.15	.50	.85	1 3/8
3 1/2	.20	.80	1.20	1 3/8

Improved Cleats

CAST BRONZE



Fig. 384

A definite improvement in cleats long needed.

The large rounded bottoms, legs and ends save wear on the rope but allow more turns of rope.

These are of much sturdier construction and of heavier weight than other types. Take larger fastenings and greater strain.

33 1/3

Length Inches	Polished Bronze Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$.95	\$1.50	1/4	1/2
5	1.25	1.80	3/8	3/4
6	1.65	2.20	1/2	1
8	3.00	3.70	3/4	1 3/4

Flag Pole Cleats

CAST BRONZE



Fig. 584

For attaching to side of bow or stern flag pole. A neat little fitting that has long been desired.

40

Length Overall Inches	Polished Bronze Each	Chromium Plated Each	Size Base Inches
1 3/4	\$.40	\$.70	5/8 x 3/4

Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

40%

Length Inches	Per 100 Pieces	Weight Per 100 in lbs.
4½	\$ 4.50	4¾
6	6.50	8¾
8	10.00	13¾

Ship Cleats

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$.80	4¼ x 2 ⅞	⅞	3
10	1.20	4¾ x 2½	½	5¾
12	2.00	6¾ x 3	⅝	10
15	3.00	7¼ x 3½	¾	14
18	4.00	7½ x 4	¾	20¼
24	6.50	8½ x 4¾	⅞	35
30	12.50	10¾ x 5½	1	73
36	20.00	13 x 7¼	1¼	117

30%
we-25

Closed Straight Chocks

GALVANIZED CAST IRON AND CAST BRONZE



Fig. 163

40

Length Inches	Galv. Each	Polished Bronze Each	Chrom. Plated Each	Opening Inches	Width Inches
4	\$.22	\$1.00	\$1.50	1½ x 1 ⅛	1 ⅛
6	.55	1.60	2.20	2½ x 1	1¼
8	1.35	2.25	3.00	3¼ x 1 ⅝	1½
10	1.60	3.75	4.75	4½ x 1 ⅞	2 ⅜
12	2.30			6 ⅞ x 1 ⅞	2½
15	4.10			7 x 2 ⅜	3
18	6.50			7½ x 2 ⅞	3 ⅜

Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

40

Length Overall Inches	Width Inches	For Diam. Rope Inches	Galvanized Iron Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
3	⅝	⅜	\$.35	\$ 1.30	\$ 2.00
4	¾	½	.40	1.50	2.40
5	⅞	⅝	.50	2.00	3.10
6	1 ⅛	¾	1.00	3.00	4.20
8	1 ⅜	1	1.60	4.00	5.30
10	1 ¾	1¼	2.40	7.00	8.50
12	2½	1½	5.00	11.50	14.00
15	3	2	10.00		
18	3¼	2¼	15.00		

Straight Stern Chocks

GALVANIZED AND CAST BRONZE



Fig. 119

Length Inches	Width Inches	For Diam. Rope Inches	Galvanized Iron Each	Polished Bronze Each	Chromium Plated Each
4	1 ⅛	⅝	\$.20	\$.75	\$1.20
5	1 ⅜	¾	.30	1.00	1.55
6	1 ½	⅞	.50	1.50	2.10
8	1 ⅞	1	1.00	2.25	2.90
10	2¼	1¼	1.20	3.75	4.50
12	2 ⅝	1 ⅝	2.50	6.00	7.25
15	2 ⅞	1 ¾	5.50		
18	3 ¼	2	7.50		

Mooring Chocks

CAST BRONZE—POLISHED

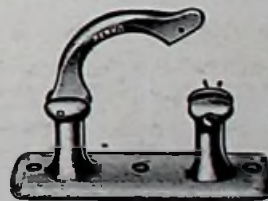


Fig. 413

33 1/3

Length Overall Inches	Width Overall Inches	Opening Inches	Weight Pounds
4 ⅞	1 ½	2 x 2	¾

Skene Bulwark Bow Chocks

CAST BRONZE



Fig. 751

Lgth. In.	Plain Bronze Pair	Pol. Bronze Pair	Chrom. Plated Pair	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Pair Lbs.
6	\$3.50	\$5.25	\$7.75	1	1 1/4	2 1/4	2 3/4
7	5.50	7.50	10.00	1 1/4	1 1/2	2 3/4	4 1/4

Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Length Inches	Width Inches	Opening Inches	Weight Per Pair Pounds
1	4 1/2	7/8	3/4	3/4
2	5 1/2	1 1/8	1	1 1/2
3	7 3/4	1 1/2	1 1/4	3 3/4
4	8 1/2	1 3/8	1 1/2	5
5	10 1/2	2	2	6

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair
1	\$ 2.00	\$ 3.00
2	3.00	4.00
3	5.00	6.25
4	7.00	8.50
5	10.50	12.50

Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

Lgth. In.	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Each Lbs.
6	\$3.00	\$4.00	\$5.25	1 1/4	1 1/2	2 3/4	2

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	4	7/8	5/8	1/2
12	5 1/2	1 3/8	1	1
13	7	1 3/4	1 1/2	2
14	9	2 1/4	2	4

Size No.	Polished Bronze Each	Chromium Plated Each
11	\$.90	\$1.40
12	1.50	2.00
13	3.00	3.65
14	6.50	7.50

Bulwark Bow Chocks

CAST BRONZE—POLISHED



Fig. 768

This pair of chocks is beveled to fit bow angles. The openings are sufficiently large for mooring ropes. Designed to be bolted both through the bulwark and the deck.

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$ 7.50	\$ 9.50	10	1	1 7/8	1
2	9.00	12.00	11 1/4	1 1/4	2 1/4	1 1/4
3	12.00	15.00	11 1/4	1 1/2	2 1/2	1 1/2

Bulwark Stern Chocks

CAST BRONZE—POLISHED



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$4.50	\$5.50	9 1/4	1 3/8	2 3/8	1 1/2
2	6.50	8.00	11 1/2	1 3/4	3	1 3/4



Streamline Fittings

Are made of the highest grade of bronze castings. These fittings all follow the same design and will match all other "Perko" streamline items on the deck, such as running lights, flagpole sockets, ventilators, etc. They will add to the appearance of any boat and are good, strong, practical fittings in use.

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Streamline Cleat CAST BRONZE



Fig. 114

Length Overall Inches	Size Base Inches	For Rope Diameter Inches	Chromium Plated Each
2 1/2	7/8 x 2	Up to 1/2	\$.90
3 1/2	1 1/4 x 2 3/4	Up to 3/4	1.25
4 1/2	1 1/2 x 3 3/4	Up to 1	1.60
5 1/2	1 3/4 x 4		2.10

Length Inches	Polished Bronze Each
2 1/2	\$.50
3 1/2	.80
4 1/2	1.10
5 1/2	1.50

Streamline Stern Chock CAST BRONZE OPEN PATTERN



Fig. 116

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Each
3	3/4	Up to 3/4	\$1.00
4	1	Up to 1	1.15
5	1 1/8		1.60
6	1 3/8		1.90

Length Inches	Polished Bronze Each
3	\$.65
4	.75
5	1.10
6	1.40

Streamline Bow Chocks CAST BRONZE OPEN PATTERN



Fig. 115

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Per Pair
3 1/2	3/4	Up to 1/2	\$2.00
4 1/2	1	Up to 3/4	2.30
5 1/2	1 1/8	Up to 1	3.20
6 1/2	1 3/8		3.80

Length Inches	Polished Bronze Per Pair
3 1/2	\$1.30
4 1/2	1.50
5 1/2	2.20
6 1/2	2.80

Streamline Stern Chocks CLOSED PATTERN



Fig. 118

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Each
3	3/4	Up to 3/4	\$1.15
4	1	Up to 1	1.40
5	1 1/8		1.95
6	1 3/8		2.35

Length Inches	Polished Bronze Each
3	\$.75
4	1.00
5	1.40
6	1.75

Streamline Bow Chocks CLOSED PATTERN



Fig. 117

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Per Pair
3 1/2	3/4	Up to 3/4	\$2.30
4 1/2	1	Up to 1	2.90
5 1/2	1 1/8	Up to 1 1/8	3.90
6 1/2	1 3/8		4.70

Length Inches	Polished Bronze Per Pair
3 1/2	\$1.50
4 1/2	2.00
5 1/2	2.80
6 1/2	3.50



Upright Flag Pole Socket

ROUND BASE—WITH FERRULE
CAST BRONZE



Fig. 220

Inside Diam. Inches	Diam. Base Inches	Inside Diam. Ferrule Inches	Height Inches	Weight Ounces
3/8	1 3/8		1 3/8	5
3/4	2 1/8	1 1/8	1 3/4	7
7/8	2 3/8	1 1/4	1 7/8	8
1	2 1/2	1 1/2	2	8 1/2
1 1/4	2 3/4	1 3/4	2 1/8	11
1 1/2	3	1 7/8	3	16

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each
3/8	\$.85	\$1.15
3/4	1.00	1.30
7/8	1.25	1.60
1	1.35	1.70
1 1/4	1.75	2.15
1 1/2	2.25	2.75

3/8 inch furnished without ferrule.

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Upright Flag Pole Socket

SQUARE BASE—NO FERRULE
GALVANIZED CAST IRON



Fig. 570

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Each
3/4	\$.30	1 3/4	2 x 2	5 1/2 oz.
1	.40	2 1/4	2 1/4 x 2 1/4	11 1/2 oz.
1 1/4	.65	2 3/4	2 3/4 x 2 3/4	13 oz.
1 1/2	.90	3 1/2	3 x 3	1 1/2 lbs.



Fig. 571

New Streamline Flag Pole Socket

CAST BRONZE



Fig. 1115

To meet the numerous demands we have had for streamline flag pole sockets.

Polished Bronze Each	Chromium Plated Each	Diam. Socket Inches	Size Flange Inches	Weight Pounds
\$1.50	\$2.00	1 1/4	2 5/8 x 5	3/4

Flush Flag Pole Socket

WITH FERRULE
GALVANIZED CAST IRON—CAST BRONZE



Fig. 218



Fig. 219

Inside Diam. Inches	Diam. Flange Inches	Inside Diam. Ferrule Inches	Depth Socket Inches	Weight
3/8	1 3/4		1 3/8	2 1/2 oz.
3/4	2	1 1/8	1 1/2	4 1/2 oz.
7/8	2 1/8	1 1/4	1 5/8	4 3/4 oz.
1	2 3/8	1 1/2	1 3/4	6 oz.
1 1/4	2 5/8	1 3/4	2	10 oz.
1 1/2	3 1/8	1 7/8	2 3/8	1 lb.

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Chromium Plated Each
3/8		\$.70	\$1.00
3/4	\$.25	.75	1.05
7/8		.85	1.20
1	.30	.90	1.25
1 1/4	.35	1.25	1.65
1 1/2	.60	1.75	2.25

3/8 inch furnished without ferrule.
Galvanized furnished without ferrule.

Runabout Flag Pole Socket

CAST BRONZE

Unique design of flange makes this a good looking deck fitting. Complete with set screw for holding pole fast in place.



Fig. 541

Inside Diameter Inches	Size Flange Inches	Depth Socket Inches	Weight Ounces
1 1/4	3 1/2 x 3 1/2	2 1/2	12

Polished Bronze Each	Chromium Plated Each
\$1.50	\$2.00

"Jumbo" Pole Socket

CAST BRONZE
VERY DEEP—LARGE FLANGE



Fig. 433

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Flange Inches	Depth Inches	Weight Pounds
1 1/2	\$4.50	\$5.50	3 1/4	6	2

33 1/3

Comb. Bitt and Rope Deck Pipe

CAST BRONZE



Fig. 431

A hollow one piece casting of minimum weight but maximum strength. An opening in one side of bitt to allow rope to be stored below deck but always ready for use.

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Diam. Rope Inches
1	\$4.50	\$ 5.75	4 1/2 x 4 1/2	3 1/2	3/4
2	8.50	10.25	6 x 6	5	1

Transom Flag Pole Socket

CAST BRONZE

Designed for outboard motor boats or runabouts that have no decking in stern for regular type of socket.



Fig. 225

Diam. Socket Inches	Depth Socket Inches	Length Base Inches	Width Base Inches	Weight Oz.	Polished Bronze Each	Chromium Plated Each
3/4	1 1/4	3 1/8	1 1/2	8	\$1.60	\$2.20

Mooring Bitt

CAST BRONZE

One solid casting, except horizontal bar, which is of bronze rod and goes clear through casting, brazed both ends.

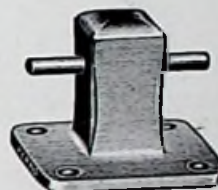


Fig. 608

No.	Size Base Inches	Height Inches	Net Weight Lbs.	Polished Bronze Each	Chromium Plated Each
1	3 x 3	2 1/2	7/8	\$ 3.00	\$ 4.00
2	4 1/2 x 4 1/2	3 1/2	1 1/8	4.00	5.00
3	6 x 6	5	5 1/8	8.00	10.00
4	7 x 7	6 1/2	12	11.50	13.75

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Streamline Mooring Bitt

CAST BRONZE

A very fine looking yet practical mooring bitt for the better class of outboard motor boats and runabouts. Streamlined base gives racy appearance and matches other streamline fittings on the boat.



Fig. 354

Length Base Inches	Width Base Inches	Height Overall Inches	Weight Ounces	Polished Bronze Each	Chromium Plated Each
3 3/4	2 1/4	2 1/8	8	\$1.90	\$2.75

40

Improved Riding Bitts

GALVANIZED CAST IRON AND POLISHED BRONZE



Fig. 926

Size No.	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches
00	\$1.20	\$3.10	\$4.35	3 1/2	2 1/2 x 2 1/2	1/4
0	1.80	4.50	6.00	4 1/2	3 x 3	3/8
01	2.40	6.00	7.80	5 3/4	3 1/2 x 3 1/2	1/2
1	3.70	9.00	11.00	6 3/4	5 x 5	1/2
1 1/2	6.75	12.50	15.00	8 1/4	5 1/2 x 5 1/2	5/8
2	9.25	17.50	20.00	10	5 1/2 x 7 1/2	3/4

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Bow Plates

CAST BRONZE AND ALUMINUM



Fig. 494



Fig. 181

Size Plate Inches	Fig. 494 Diam. Eye Inches	Fig. 181 Diam. Eye Inches	Weight Bronze Oz.	Weight Aluminum Oz.
4 1/8 x 4 3/8	1/2	3/4	10	2 1/2
Polished Bronze Each		Chromium Plated Each		Polished Aluminum Each
\$1.10		\$1.85		\$1.10

Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 in Lbs.
1	\$.50	1 1/8 x 1 1/2	2 x 2 x 1 1/8	33
2	.60	3/8 x 2	2 x 2 x 1/4	50

Combination Bow Plate

CAST BRONZE



Fig. 543

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Diam. Rope Inches
1	\$2.75	\$3.50	3 1/4	4 1/4	Up to 5/8
2	3.00	3.75	3 3/4	4 3/4	Up to 1

Ring on Plate

STREAMLINE PATTERN
CAST BRONZE



Fig. 182

No.	Polished Bronze Each	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches
1	\$.90	\$1.40	2 3/4	1 1/2	3/2 x 1 1/4
2	1.00	1.65	3 1/4	1 7/8	1/4 x 1 1/2

Ring and Deck Strap

CAST BRONZE



Fig. 183

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches	Width Strap Inches
\$.55	\$.80	\$1.20	1/4 x 1 1/2	3	3/8

Straps only, deduct \$.20 each.

Rings with Straps

GALVANIZED MALLEABLE IRON
AND CAST BRONZE
HEAVY PATTERN



Fig. 1020

Size No.	Galv. Bronze Each	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Strap Inches
1	\$.35	\$.55	\$.90	\$1.30	1/4 x 1 1/2	4 1/8 x 3/4
2	.40	.65	.95	1.40	1/8 x 1 3/4	4 1/8 x 3/4

Bow Ring

CAST BRONZE

A dandy tie ring on rowboats, canoes, and outboard motor boats. Bolts through bow stem, cannot pull out, will take rope up to 1/2 inch.



Fig. 210

I. D. Ring Inches	Size Base Inches	Size Bolt Inches	Chromium Plated Each
1	2 1/4 x 1 1/2	4 x 1/4	\$1.30
			Polished Each \$1.00
			Plain Each \$.80

Ring With Strap

CAST BRONZE



Fig. 1004

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches
\$.40	\$.60	\$1.00	1/2 x 1 1/2	2

Straps only, deduct \$.25 each.

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Lifting Rings and Keel Plates

CAST BRONZE



Fig. 415

40

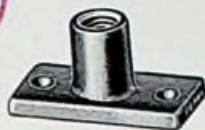


Fig. 446

Keel plate is fastened to inside of keel by bolts and connected to ring on deck by tie rod.

		Fig. 415				
		L. D. Eye	Stock in Eye	Threaded for Rod	Size Flange	
		Inches	Inches	Inches	Inches	
Polished Bronze Each	\$2.50	1 3/8	1/2	3/8	3 x 2 1/4	
Chromium Plated Each	\$3.00					

		Fig. 446				
No.	Each	Size Base	Height	Threaded for Rod	Weight	
		Inches	Inches	Inches	Oz.	
1	\$.95	3 x 1 3/8	1 1/2	3/8	7	
2	1.20	4 1/4 x 2 1/8	1 1/4	1	15	

Lifting Rings

ROUND BASE—CAST BRONZE



Fig. 187

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Fig. 188

		Fig. 187				Fig. 188	
No.	Each	Height Overall	Diam. Eye	Diam. Base	Threaded for Rod		
		Inches	Inches	Inches	Inches		
1	\$2.50	3	1 1/8	2	5/8		
2	3.00	4 1/8	2	2 1/2	3/8		

Lifting Ring and Cleat

RECTANGULAR BASE—CAST BRONZE



Fig. 542

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No.	Length Overall	Height Overall	Diam. Eye	Size Base	Threaded for Rod	Weight
	Inches	Inches	Inches	Inches	Inches	
5	4	2 3/8	1 1/8	1 1/2 x 2 1/2	5/8	13 oz.
6	6 3/4	3 3/8	2	2 1/4 x 4 1/4	1	2 1/2 lbs.

No.	Polished Bronze Each	Chromium Plated Each
5	\$1.50	\$2.25
6	2.50	3.50

Bow Eyes

CAST BRONZE

A very handy fitting for the bow of small boats, used for tying up or towing.



Fig. 303

40

No.	Metal in Eye	Length of Straps	Extreme Length	Inside Diam. Eye
	Inches	Inches	Inches	Inches
1	3/8	1 3/4	3	3/4
2	1/2	2 3/8	3 3/8	1

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$.55	\$.85	\$1.25
2	.75	1.05	1.50

Hatch Handle

CAST BRONZE AND ALUMINUM

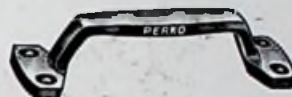


Fig. 185

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Length Overall	Height Overall	Size Opening	Weight
Inches	Inches	Inches	Oz.
5	1 1/2	3 1/4 x 1	6

	Polished Bronze Each	Chromium Plated Each	Polished Aluminum Each
	\$.80	\$1.25	\$.75

Lifting Handle

CAST BRONZE AND ALUMINUM



Fig. 186

40

Length Overall	Height	Width Base	Size Opening	Weight
Inches	Inches	Inches	Inches	Oz.
6 3/8	2	1 1/4	3 3/4 x 1 1/4	12

	Polished Bronze Each	Chromium Plated Each	Polished Aluminum Each
	\$1.10	\$1.65	\$1.10

Streamline Lifting Handle

CAST BRONZE—WITH STEM PIECE

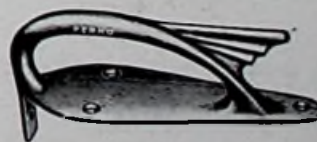


Fig. 455

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Polished Bronze Each	Chromium Plated Each	Size Inside Handle	Size Base	Size Stem Piece	Weight
		Inches	Inches	Inches	Ounces
\$3.50	\$4.50	4 x 1 1/4	6 x 2	1 x 1/2	13

Non Skid Step Plates

WITH MOULDED RUBBER STEP PADS
CAST BRONZE—CHROMIUM PLATED

The grooved rubber threads are thicker than the metal frame.

Attractively designed for runabouts.

FLAT TYPE

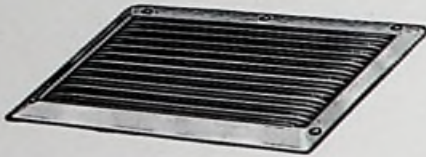


Fig. 1043

No.	Complete Each	Frames Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$3.00	\$2.25	\$1.20	8½ x 3½	¾
2	4.50	3.50	1.40	11½ x 5½	1¾

BEVELED TYPE FOR CROWNED DECKS



Fig. 559

Height on outboard end 1 inch.

No.	Complete Each	Frames Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$3.25	\$2.50	\$1.20	8½ x 3½	1
2	5.00	4.00	1.40	11½ x 5½	2

Rubber Pads Only



Fig. 1050

No.	Each	Length Inches	Width Inches	Thickness Inches
1	\$1.20	8	2½	⅝
2	1.40	11	4¾	⅝

Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTINGS
BALL TYPE—STREAMLINE

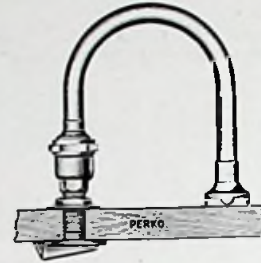


Fig. 397

Requires no attention after it is installed. Water cannot back up into the boat as the top of the tubing is above the water line.

A sponge rubber ball is forced into a machined seat automatically closes the opening when the boat is in reverse or not in motion.

Heavy bronze strainer in inlet end.
Starts draining at 7 miles per hour.

No.	Each	Height Inside Hull Inches	Diam. Tubing Inches	For Thickness Hull Inches	Weight Pounds
1	\$ 8.25	8	¾	up to 1½	2
2	11.00	15½	1⅛	up to 2¼	4

Garboard Drain Plug

CAST BRONZE—PLAIN



Fig. 714

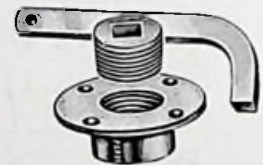


Fig. 124

A few of these installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Threads are tapered pipe sizes and plugs are watertight.

Fig.	Plain Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
714	\$1.20	½	2	⅝	3
124	2.00	1	3⅛	1	10

Fig. 124 is furnished complete with wrench.

Automatic Boat Drain

CAST BRONZE—PLAIN



Fig. 213

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 1⅞ inches, No. 14 thread.

No.	Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches
1	\$1.20	\$1.15	\$1.80	1¼	3⅝
2	1.40				

Windshield Brackets

CAST BRONZE—V TYPE

Sturdy and attractive fittings for runabouts and out-board motor boats.

The end brackets have beveled bases that will fit the crown of most decks, all brackets are grooved for ¼ inch glass.

WITH SIDE HANDLES



Fig. 930

Angle from vertical 23 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Slide on Base Inches	Weight Per Set Pounds
\$10.00	\$12.50	8¼	5¾	9	5

Price does not include glass or rubber insulation. Height is measured vertically.

WITHOUT SIDE HANDLES



Fig. 665

Angle from vertical 35 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Bracket Inches	Length Center Base Inches	Weight Per Set Pounds
\$10.00	\$12.50	9½	7½	7¾	4½

Price does not include glass or rubber insulation. Height is measured vertically.

Rubber Insulation for Windshields



Fig. 667



Fig. 668

Live moulded rubber for glass ¼ inch thick.

Fig. 667—For bottom of windshields—per foot \$.20

Fig. 668—For windshield brackets—per foot.. .18

Windshield Cleaners

ELECTRIC—6 AND 12 VOLTS
FOR SWING OUT WINDSHIELDS
CHROMIUM PLATED

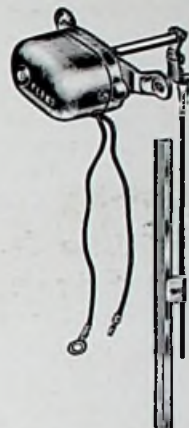


Fig. 395

A single blade cleaner for inside mounting and swing out windshield.

Motor cover is brass, chromium plated. Shaft and arm are steel, cadmium plated. Blade is adjustable to various lengths.

Furnished with drilling template, rubber insulating washers, connecting wires and switch.

6 Volt Each	12 Volt Each	Extreme Width Inches	Length Blade Inches	Length Shaft Inches	Weight Pounds
\$5.50	\$6.50	5½	9	2½	1¼

Windshield Adjusters

CAST BRONZE



Fig. 82

No.	Length Inches	Polished Bronze Per Pair	Chromium Plated Per Pair
1	6½	\$5.00	\$7.00
2	9	6.00	8.00

Heavy Windshield Adjusters

CAST BRONZE

Designed for large windshields on cruisers. Well constructed and permits windshield to be set at any angle desired.

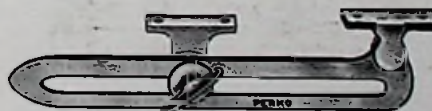


Fig. 1003

No.	Length Inches	Polished Bronze Per Pair	Chromium Plated Per Pair
3	6½	\$5.40	\$7.40
4	10	7.20	9.20

Improved Boat Hooks

GALVANIZED MALLEABLE IRON AND BRONZE

A simple but badly needed improvement in boat hooks. It is not necessary to taper the pole to fit. Result, more wood inside the hook, less breakage and a much stronger assembly.

SHARP POINTS



Fig. 240

No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	Outside Diam. Inches	Inside Diam. Inches	Length Inches
1	\$.65	\$1.70	\$2.70	1 1/4	1	8
2	.80	2.20	3.20	1 1/2	1 1/4	8 3/4

BALL POINTS



Fig. 241

No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	Outside Diam. Inches	Inside Diam. Inches	Length Inches
4	\$.65	\$1.75	\$2.75	1 1/4	1	8 1/8
5	.80	2.25	3.25	1 1/2	1 1/4	8 3/4

Old Style Boat Hooks

GALVANIZED MALLEABLE IRON AND BRONZE

SHARP POINTS



Fig. 223

33 1/3

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
0	\$.45	\$1.25	\$2.25	1	7 1/4
1	.55	1.40	2.40	1 1/4	8 1/4
2	.70	1.90	2.90	1 1/2	9 3/8
3	.85			2	9 3/4

BALL POINTS



Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
3 1/2	\$.50	\$1.25	\$2.25	1	7 3/8
4	.55	1.40	2.40	1 1/4	8 1/4
5	.70	1.90	2.90	1 1/2	9 3/8
6	.90			2	9 1/2

Boat Hook Poles

ASH-SHAPED

Improved Boat Hook Poles

ASH-SHAPED



Fig. 1014

Extreme Diameter Inches	Per Foot	Stock Lengths Feet	Diameter End for Hook Inches
1 1/4	\$.15	6-8	1
1 1/2	.22	6-8-10	1 1/4

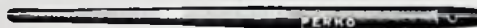


Fig. 928

33 1/3

Diameter Inches	Per Foot	Stock Lengths Feet
1 1/8	\$.12	6-8
1 1/4	.15	6-8
1 3/8	.18	6-8-10
1 1/2	.22	6-8-10-12

Boat Hook Holders

SPRING BRASS

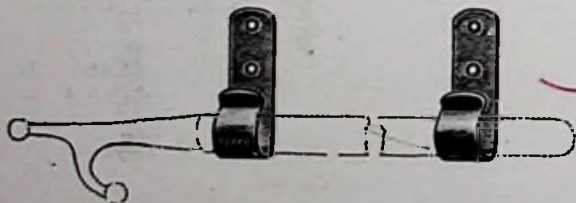


Fig. 490

Made of spring brass they will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Polished Brass Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
\$.50	\$.70	3 1/2	1	1 1/2

Ring Buoy Holders

CAST BRONZE



Fig. 1017

The natural spring tension of the hook holds the buoy fast but ready for instant use.

Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Height Overall Inches	Weight Pounds
\$1.30	\$1.75	3	4 1/2	1/2

Rope Swimming Ladders WITH ROUND WOOD RUNGS



Made of $\frac{1}{2}$ inch best grade manila rope with hardwood rungs in mahogany finish. Rungs are $1\frac{1}{4}$ x 14 inches and spaced 12 inches apart.

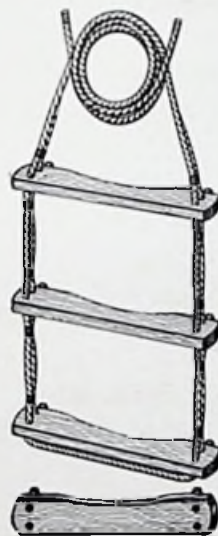
Furnished complete with lanyards 6 feet long for fastening on board and thimbles with light lanyard on lower end for tying down.

Ladders	Each
2 rung	\$3.00
3 rung	3.50
4 rung	4.00
5 rung	4.50
6 rung	5.00

Additional rungs add \$.80 each.

Fig. 991

Rope Swimming Ladders



WITH FLAT WOOD STEPS CUT OUT FOR TOES AND HAND HOLD.

Steps are $\frac{3}{4}$ x $3\frac{3}{4}$ x 20 inches and spaced 12 inches apart.

Made of $\frac{1}{2}$ inch best grade manila rope with ash steps, varnished.

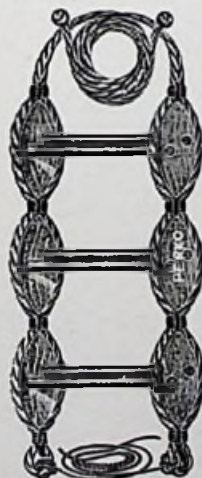
Furnished complete with lanyards 6 feet long for fastening on board.

Ladders	Each
2 step	\$4.00
3 step	5.00
4 step	6.00
5 step	7.00
6 step	8.00

Additional steps add \$1.30 each.

Fig. 992

Rope Boarding Ladders WITH OVAL SIDES AND DOUBLE RUNGS



Each rung is $1\frac{1}{2}$ x 14 inches and steps are spaced 12 inches apart.

The finest boarding ladder on the market. Made of first grade $\frac{1}{2}$ manila rope. Selected ash sides and steps, varnished.

Furnished complete with lanyards 6 feet long for fastening on board, and thimbles with light lanyard on lower end for tying down.

Ladders	Each
2 step	\$ 5.00
3 step	7.00
4 step	9.00
5 step	11.00
6 step	13.00

Additional steps add \$2.00 each.

Fig. 993

Ladder Locks CAST BRONZE

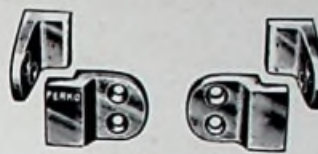


Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
$1\frac{1}{4}$	1	1	12
Polished Bronze Per Set			Chromium Plated Per Set
\$2.25			\$3.85

A set consists of four pieces illustrated

Ladder Hooks CAST BRONZE



Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
12	4	$2\frac{1}{2}$ x3%	4

Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$8.50	\$10.50	\$1.75	\$2.75

Ladder Hooks CAST BRONZE

WITH FLUSH PLATES FOR DECK



Fig. 994

Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
10	$3\frac{3}{4}$	$3\frac{1}{4}$ x2	4

Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$8.50	\$10.50	\$1.40	\$2.40

Ribbed Socket Rowlocks

GALVANIZED—MALLEABLE AND CAST IRON



Fig. 638

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page*

GALVANIZED CAST IRON

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.30	\$.20	\$.15	1 3/4	1 1/8
1	.35	.25	.15	2	1 1/4
2	.50	.35	.25	2 1/4	1 3/4

GALVANIZED MALLEABLE IRON

1	.45	.30	.25	2	1 1/4
2	.60	.40	.35	2 1/4	1 3/4

Standard Socket Rowlocks

GALVANIZED MALLEABLE IRON



Fig. 639

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33 1/3
page*

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.50	\$.35	\$.25	1 3/4	1 1/8
1	.50	.35	.25	2	1 1/4
2	.70	.50	.35	2 1/4	1 3/4
3	1.00	.70	.50	2 1/2	2 3/8

Swivel Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 640

GALVANIZED

Size No.	Complete Per Pair	Horns Only Per Pair	Plates Only Per Pair	Opening Inches	Weight Per Pair Pounds
1	\$1.60	\$.95	\$.95	2	2
2	1.90	1.05	1.05	2 1/4	2 3/8

CAST BRONZE

Size No.	Plain Complete Per Pr.	Polished Complete Per Pr.	Horns Only Plain Per Pr.	Horns Only Pol. Per Pr.	Plates Only Plain Per Pr.	Plates Only Pol. Per Pr.
1	\$2.50	\$3.50	\$1.40	\$1.90	\$1.40	\$1.90

Davis Pattern Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 641

Size No.	Galv. Per pair	Plain Bronze Per pair	Polished Bronze Per pair	Opening Inches	Weight Per pair Pounds
0	\$1.10			1 3/4	2
1	1.10	\$2.00	\$3.25	2	2
2	1.50			2 1/4	2 3/4

Round Socket Rowlocks

GALVANIZED IRON AND BRONZE



Fig. 642

GALVANIZED MALLEABLE IRON

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0	\$.50	\$.35	\$.25	2	1 1/8
1	.50	.35	.25	2 1/4	1 1/4
2	.65	.50	.25	2 1/2	1 1/2

GALVANIZED CAST IRON

1	.40	.25	.20	2 1/4	1 1/4
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PLAIN BRONZE

1	1.25	.90	.45	2 1/4	1 1/4
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POLISHED BRONZE

1	2.00	1.45	.65	2 1/4	1 1/4
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North River Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 643

Opening Inches
2 1/8

Weight Per Pair Pounds
1 3/8



Fig. 644

	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair
Galv., Fig. 643	\$.50	\$.35	\$.25
Pl. Bronze, Fig. 643	1.50	1.05	.55
Pol. Bronze, Fig. 643	2.00	1.40	.70
Galv., Fig. 644	.70	.35	.45
Pl. Bronze, Fig. 644	1.80	1.05	.85
Pol. Bronze, Fig. 644	2.75	1.40	1.45

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Side Plate Rowlocks GALVANIZED MALLEABLE IRON



Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.75	\$.40	\$.45	1 3/4	1 3/4
1	.85	.50	.45	2	1 3/4

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Moline Open Rowlocks GALVANIZED MALLEABLE IRON

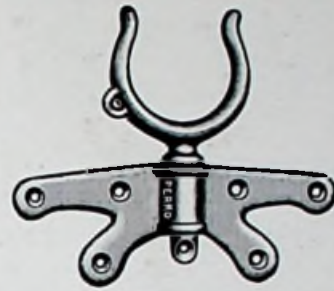


Fig. 914

Size of Plate 7x2 1/2 inches.

No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.90	\$.35	\$.65	1 3/4	1 3/8
1	.90	.35	.65	2	1 3/4

Boston Side Plate Rowlocks GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 646

With Chain and Without Chair

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$.90	\$.35	\$.65	2	1 1/2
0 Pl. Bronze	1.60	.80	.90	1 3/4	1 1/2
1 Pl. Bronze	1.60	.80	.90	2	1 1/4
0 Pol. Bronze	2.75	1.20	1.65	1 3/4	1 1/4
1 Pol. Bronze	2.75	1.20	1.65	2	1 1/2

With Chain for Galv. add 10c to above prices.
With Chain for Bronze add 20c to above prices.

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Moline Round Rowlocks GALVANIZED MALLEABLE IRON

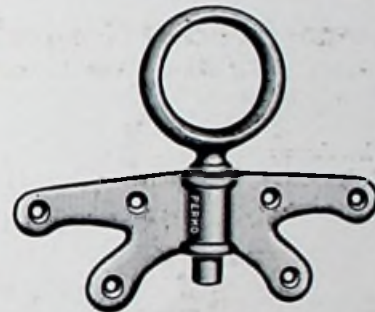


Fig. 915

Size of Plate 7x2 1/2 inches.

No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.90	\$.35	\$.65	2	1 3/4
1	.90	.35	.65	2 1/4	2

Boston Socket Rowlocks GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 545

With Chain and Without Chain

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$.50	\$.35	\$.25	1 3/4	3/8
1 Galv.	.50	.35	.25	2	1
0 Pl. Bronze	1.20	.80	.50	1 3/4	3/8
1 Pl. Bronze	1.20	.80	.50	2	1
0 Pol. Bronze	2.00	1.20	.90	1 3/4	3/8
1 Pol. Bronze	2.00	1.20	.90	2	1

With Chain for Galv., add 10c to above prices.
With Chain for Bronze, add 20c to above prices.

Moline North River Rowlocks GALVANIZED MALLEABLE IRON

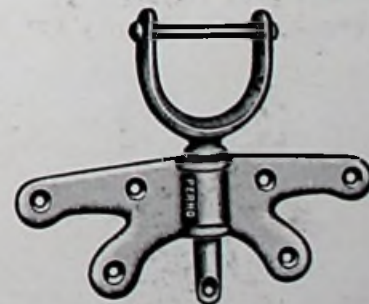


Fig. 916

Size of Plate 7x2 1/2 inches.

No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.90	\$.35	\$.65	1 7/8	1 3/4
1	.90	.35	.65	2 1/8	2

Above Rowlocks desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Improved Oar Leathers
TANNED LEATHER



Fig. 196

Oar leathers of an improved type, which will fit any oar and eliminate the old method of permanent fastening with nails.

Furnished complete with buttons and leather laces.

Per Pair	Length Inches	Width Inches
\$1.50	7	6

Oar Leathers and Buttons
RUSSET LEATHER



Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

	Per Pair
Complete, Leathers and Buttons	\$.95
Leathers Only—7x6½ Inches	.70
Buttons Only—½x16 Inches	.30

Copper Oar and Paddle Tips



Fig. 794



Fig. 850

Made of soft sheet copper, will fit any oar and paddle.

Fig. 794 Oar Tips—Price per Pair	\$0.25
Fig. 850 Paddle Tips—Price Each	.15

Fender Hooks
CAST BRONZE



Fig. 547

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches
1	\$.35	\$.40	\$.70	⅜	1½x1¼
2	.55	.60	.90	½	2¼x1¾

Note—No. 1 size is drop forged bronze.

Dock Roller
FOR CANOES AND BOATS

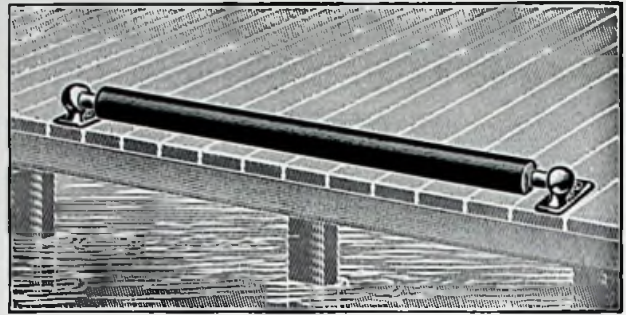


Fig. 400

An effective and simple means of rolling a canoe or boat from the water to the dock without damage. End posts are solid cast bronze.

HARD RUBBER ROLLER ON BRASS AXLE

Diam. Shaft Inches	Diam. Rubber Inches	Height Inches	Length Inches	Each
¾	1½	2	24	\$5.00
1	1¾	2¼	30	7.00
1	1¾	2¼	36	8.00

HARD WOOD ROLLER

Diam. Shaft Inches	Diam. Roller Inches	Height Inches	Length Inches	Each
¾	1½	2	27	\$3.00
¾	1½	2⅛	28	3.50
1	1½	2¼	31	4.00

Seat or Transom Braces

CAST BRONZE



Fig. 966

Used to strengthen seats, gunwales, transoms, thwarts and many other sections of a boat.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Height Inches	Width of Upright Inches	Weight Ounces
\$1.00	\$1.25	\$1.75	8½	⅞	11

Rope Deck Pipes

GALVANIZED CAST IRON AND CAST BRONZE FOR MANILA ROPE



Fig. 741

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$2.00	\$4.00	\$5.25	\$6.25
2	3.00	5.00	6.50	7.50
No.	For Diam. Rope Inches	Inside Diam. Inches	Diam. Flange Inches	Height Above Deck Inches
1	3/4 & 1	1 3/4	3 5/8	1 7/8
2	1 1/4	2 1/8	4 3/4	2

Chain Deck Pipes

GALVANIZED CAST IRON AND BRONZE



Fig. 341

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Chrom. Plated Each	For Chain Diam. Inches	Weight Each in Lbs.
1 3/4	\$1.75	\$4.50	\$6.00	3/4	1 7/8
2	2.00	5.25	6.75	1/4	2 5/8
2 1/2	3.00	6.50	8.00	3/8	4 3/8
3	3.50			1/2	5 7/8
3 1/2	5.25			5/8	9 1/4
4	6.50			3/4	13

Yacht Chain Deck Pipes

GALVANIZED CAST IRON AND BRONZE



Fig. 342

Size No.	Galv. Each	Polished Bronze Each	Chromium Plated Each	For Chain Diam. Inches	Diam. Flange Inches
1	\$3.20	\$ 5.00	\$ 7.00	5/8	3 1/2
2	3.80	6.00	8.00	3/4	4 1/4
3	5.75	10.00	13.00	1/2	5

Military Mast Sets

CAST BRONZE—POLISHED

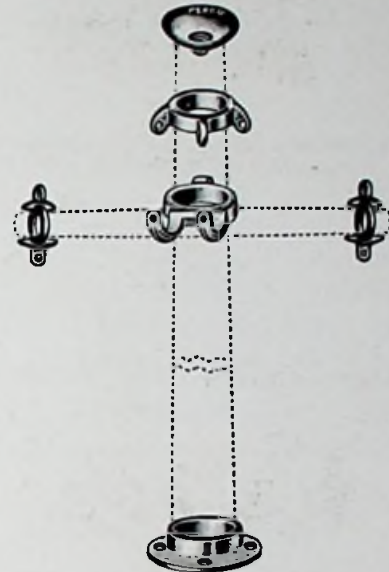


Fig. 586

Furnished in two sizes, a handsome and practical set of fittings, mast cap has small bronze sheave for flag halyards.

Set No.	Inside Diam. Deck Flange Inches	Inside Diam. Cross Arm Bracket Inches	Inside Diam. Eye Band Inches	Inside Diam. Mast Cap Inches	Inside Diam. End Fittings Inches
1	2 3/4	2 1/2	2 1/8	1 7/8	1 1/4
2	3 1/2	3	2 3/4	2 1/4	1 1/2

Set No.	Per Set Complete	Deck Flange Each	Cross Arm Bracket Each	Eye Band Each	Mast Cap Each	End Fittings for Cross Arm Each
1	\$6.50	\$1.50	\$1.50	\$1.50	\$1.25	\$.75
2	9.00	2.00	2.00	2.00	1.75	1.25

Chromium Plated Finish, add 40% to above prices.

Hinged Mast Steps

CAST BRONZE



Fig. 1039

Mast can be lowered to horizontal position parallel with deck, base has integral lug which prevents side strain on hinge.

Inside Diam. Step Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inside Step Inches
2	\$3.50	\$5.50	4	2 1/2
2 1/2	4.25	6.50	4 1/2	3
3	7.50	9.50	5	3 1/2



Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for end or center of rail. Please specify by Fig. No. below when ordering.



Fig. 614—For End
Fig. 615—For Center

Size No.	Extreme Height of Post Inches	Bored For	Galv. Each	Polished Bronze Each	Chromium Plated Each
1	2	5/8" Rod	\$.45	\$.80	\$1.30
1 1/2	2	1/4" Pipe	.45	.80	1.30
2	2 1/2	5/8" Rod	.55	.95	1.50
2 1/2	2 1/2	1/4" Pipe	.55	.95	1.50
3	3	5/8" Rod	.65	1.10	1.75
3 1/2	3	3/8" Pipe	.65	1.10	1.75
5	4	3/4" Rod	.85	1.95	2.60
5 1/2	4	1/2" Pipe	.85	1.95	2.60

Hand Rail Sockets

FOR WOOD RAIL—CAST BRONZE



Fig. 215

Made for end or center of rail of high grade bronze. Base can very easily be shaped to fit the crown of the deck.

For Rail Diam. Inches	Extreme Height Inches	Size of Base Inches	Weight Each Ounces
1	1 3/4	3/8 x 3 1/2	5
1 1/4	2	3/4 x 3 3/4	9

For Rail Diam. Inches	Polished Bronze Center Each	End Each	Chromium Plated Center Each	End Each
1	\$1.00	\$1.25	\$1.75	\$2.00
1 1/4	1.25	1.50	2.00	2.25

Please specify center or end and size when ordering.

Awning Sockets

CAST BRONZE—FOR ROD AND PIPE



Fig. 247

Diam. Rod Inches	For Pipe Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1/2		\$.55	\$.85	\$1.40
3/8	3/8	.60	.90	1.50
3/4	1/2	.65	1.00	1.60
7/8		.75	1.20	1.75
1	3/4	.80	1.25	2.10
	1	1.40	1.95	2.85

Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for corner of rail or bow of boat. Specify by Fig. No. below when ordering.



Fig. 616—For Corner
Fig. 617—For Bow

Size No.	Extreme Height of Post Inches	Bored For	Galv. Each	Polished Bronze Each	Chromium Plated Each
1	2	5/8" Rod	\$.45	\$.80	\$1.30
1 1/2	2	1/4" Pipe	.45	.80	1.30
2	2 1/2	5/8" Rod	.55	.95	1.50
2 1/2	2 1/2	1/4" Pipe	.55	.95	1.50
3	3	5/8" Rod	.65	1.10	1.75
3 1/2	3	3/8" Pipe	.65	1.10	1.75
5	4	3/4" Rod	.85	1.95	2.60
5 1/2	4	1/2" Pipe	.85	1.95	2.60

Floor Flanges

CAST BRONZE—FOR PIPE



Fig. 824

Pipe Size Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	O. D. Flange Inches
3/8	\$.55	\$.85	\$1.35	2 1/4
1/2	.60	.90	1.40	2 1/2
3/4	.75	1.10	1.60	3
1	1.00	1.30	1.90	3 1/4
1 1/4	1.25	1.60	2.20	3 3/4
1 1/2	1.50	1.90	2.70	4
2	2.20	2.70	3.50	4 3/8

Rail Hinge

CAST BRONZE

Made to fit standard hand rail on high class yachts and cruisers.



Fig. 122

No.	Size Rail Inches	Length Inches	Weight Lbs.
1	1½ x 2½	5	1¾
2	1¾ x 3	3¾	1¾

No.	Polished Bronze Each	Chromium Plated Each
1	\$4.00	\$5.00
2	4.25	5.25

Grab Rails

Made of heavy brass tubing with cast bronze posts.

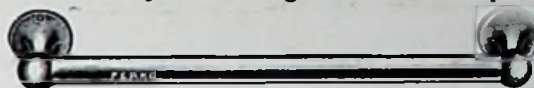


Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1½ Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$3.25	\$4.50	\$3.50	\$4.75
8	3.50	4.75	3.75	5.00
12	3.75	5.00	4.00	5.25
18	4.25	5.50	4.50	5.75
24	4.75	6.00	5.00	6.25
30	5.25	6.50	5.50	6.75
36	5.75	7.00	6.00	7.25
42	6.25	7.50	6.50	7.75

Can be furnished with middle post and in special lengths if desired. Price on application.

Flush Rail Lock

CAST BRONZE

Lies flush with top of rail when closed. Strong spring catch on bottom to hold rail end in position. A very practical fitting.



Fig. 123

No.	Size Rail Inches	Length Inches	Weight Lbs.
1	1½ x 2½	5	1¾
2	1¾ x 3	3¾	1¾

No.	Polished Bronze Per Set	Chromium Plated Per Set
1	\$4.25	\$5.25
2	4.50	5.50

Grab Rail Posts

CAST BRONZE—HOLLOW



Fig. 380

No.	Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Each Pounds
1	2½	3¾	1 or 1⅛	5/8
2	3	3¾	1¼	1¾

No.	Polished Bronze Each	Chromium Plated Each
1	\$1.40	\$2.00
2	3.60	4.50

Furnished for center mounting when desired, please specify.

Letters and Figures

CAST BRONZE

GOTHIC PATTERN



Fig. 313

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$.20	\$.40	\$.60	18

Small ones 33 1/3
6 or more 40 70

REGULAR PATTERN



Fig. 348

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
2	\$.15	\$.35	\$.55	6½
3	.20	.40	.60	24¼
4	.50	.85	1.10	36



Paint Scraper Set

check cost
45



Fig. 1015

Per Set—\$1.50

Set consists of handle with 4 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2½x2½ inches.

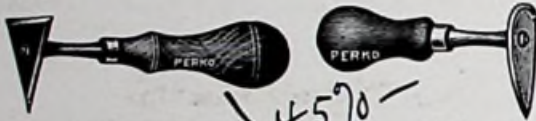
No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval—2½x1¼ inches.

No. 4 Blade, Curved Top, Triangle—2¾x1¾ inches.

Length Handle—8½ inches.

Paint Scrapers



Triangular
Figs. 625 and 626

Oval
Fig. 918

Fig.	Complete		Size Blade Inches	Length Inches	Weight Per Doz. in Pounds
	Per Doz.	Per Doz.			
625	\$ 6.60	\$3.00	2½x2½	6	2½
626	10.80	3.60	3 x 3	9½	5
918	6.60	3.80	2½x1½	6	2¾

Ship Scrapers

TEMPERED STEEL BLADES



Fig. 920

No.	Size Blade Inches	Each	Blades Only Each	Handles Only Each	Length Inches
1	4½x¼	\$1.75	\$.80	\$1.00	17
2	4½x¼	1.70	.75	1.00	17

Genuine File Scrapers

FROM FLAT MILL FILES



Fig. 1174

Made from 14 inch and 16 inch used files, no selection of length. Carefully heat treated.

Per Dozen	Approx. Width Inches	Approx. Thickness Inches	Approx. Width Blade Inches	Approx. Weight Per Dozen Pounds
\$11.00	1¼	⅞	1¾	17

Double End Scrapers

FINE GRADE TOOL STEEL
HEAT TREATED

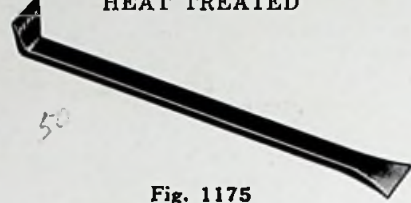


Fig. 1175

Per Dozen	Length Inches	Width Inches	Thick-ness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$6.80	15	1	¼	1¾	13

Marlin Spikes

POLISHED STEEL
FOR WIRE ROPE

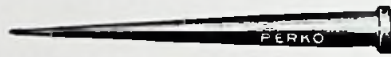


Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$20.50	6
10	26.00	10
12	32.00	12¾
14	37.00	16½
16	43.00	25
18	49.00	30

FOR MANILA ROPE

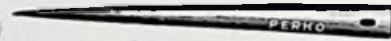


Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$ 8.00	5¾
8	9.25	7½
10	10.50	12
12	12.00	17
14	16.00	23½
16	19.50	27
18	23.50	34¾

Hand Fids

MAPLE



Fig. 923

For use in splicing ropes and light flexible cables; has a rounded end for hand use; varnished finish.

No.	Per Dozen	Size Inches
0	\$ 6.00	12x1¾
1	7.00	14x1¾
2	8.00	16x2
3	9.00	18x2
4	18.00	20x2¼
5	24.00	24x3

Caulking Irons

MALLEABLE IRON



Fig. 311

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
00	\$7.00	1/32	5	2	3½
0	7.00	1/16	5½	2½	4½
1	7.25	1/8	5¾	2¾	5½



Swivel Outrigger Pole Holders

EXTRA LONG SOCKET—REINFORCED
STRONG HEAVY BRONZE CASTINGS



Fig. 414

Pole can be set at any desired angle, has swivel base plate and hinged socket.

Cast bronze fittings are good and heavy to prevent breakage, socket is extra long and reinforced on the outer end to prevent splitting.

Per Pair	Inside Socket Inches	Length Socket Inches	Diam. Plate Inches	Weight Pair Pounds
\$10.00	1 1/8	10	3	6 3/4

Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Price Each \$.45

Length Inches 5

Weight Per 100 In Pounds 31

Dart Shank

IRON SHANK—CAST BRONZE SOCKET

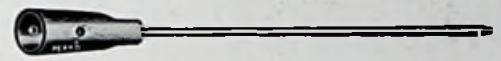


Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.

Price Each \$1.65

Outrigger Pole Sockets

POLISHED BRASS

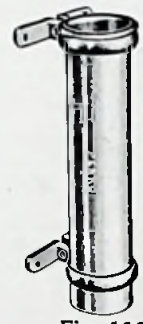


Fig. 1100

A well made heavily constructed socket of heavy brass with cast bronze brackets for mounting on rail or deck house.

No.	Each	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Weight Pounds
1	\$5.50	2	10 1/4	3 3/8	3
2	6.00	2 3/8	12	4	3 3/4

Sail Makers Needles

FORGED CAST STEEL—POLISHED
LONG SQUARE



Fig. 410

No.	Price Per 100	Length Inches	No.	Price Per 100	Length Inches
17	\$4.20	2 1/4	12	\$ 7.50	3 1/4
16	4.20	2 1/2	11	10.00	3 3/8
15	4.20	2 1/2	10	12.50	3 3/4
15 1/2	4.20	2 5/8	9	15.00	4
14	4.50	2 3/8	8	20.00	4 1/2
14 1/2	5.00	2 3/4	7	25.00	4 3/4
13	6.00	3			

Assorted Brass Pins

FOR BLOCK SHACKLES, TURNBUCKLES, ETC.

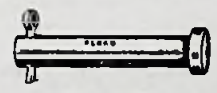


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type Head
1	\$.15	3/16	1	1/4	Flat
2	.15	1/4	3/4	1/4	Flat
3	.17	1/4	1 1/16	5/16	Flat
4	.18	5/16	7/8	3/8	Flat
5	.20	5/16	1 1/2	3/8	Flat
6	.22	3/8	1 1/2	1/2	Flat
7	.22	3/8	1 1/2	1/2	Flat
8	.24	3/8	1 1/4	1/2	Round
9	.24	3/8	1 1/4	1/2	Round
10	.28	3/8	1 3/4	1/2	Flat
11	.30	1/2	1	1/2	Flat
12	.35	1/2	2 3/8	5/8	Flat
13	.35	1/2	1 1/8	5/8	Flat
14	.38	1/2	1 1/4	5/8	Flat
15	.40	1/2	1 1/2	5/8	Flat
16	.40	5/8	1 3/8	3/4	Flat
17	.42	5/8	1 3/8	3/4	Round

Packed 25 needles per package—only furnished in full packages.

Sail Makers Palms

HIDE MOUNTED



Fig. 411

No.	Description	Right Hand Per Doz.	Left Hand Per Doz.
2	Seaming—Half Hide	\$ 6.00	\$ 6.50
5	Seaming—Half Hide—Adjustable Buckle	7.50	8.00
6	Roping—Half Hide	7.00	7.50
7	Seaming—Heavy Hide—Adjustable Buckle	16.50	17.00
10	Seaming—U. S. Navy Type—Full Hide	26.00	27.00
11	Roping—U. S. Navy Type—Full Hide	34.00	35.00

Mortise Locks

CAST BRONZE—POLISHED



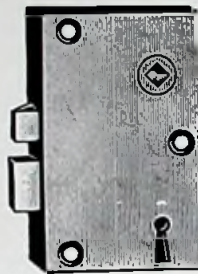
Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

No.	Each	Case Inches	Facing Inches	Backset Inches	Spindle Hub Inches
1	\$3.00	2 3/4 x 2 x 1/2	4 1/8 x 1 1/4	1 1/2	3/16
2	3.80	3 1/2 x 2 3/4 x 1/2	5 x 3/4	2 1/4	3/16

Rim Locks

CAST BRONZE—POLISHED



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

Fig. 1045

No.	Each	Size Case Inches	Spindle Inches	Backset Inches
1	\$3.60	2 1/2 x 2	5/16	1 1/2
2	3.90	3 3/4 x 2 1/2	5/16	1 3/8

Mortise Lock Sets

CAST BRONZE—POLISHED

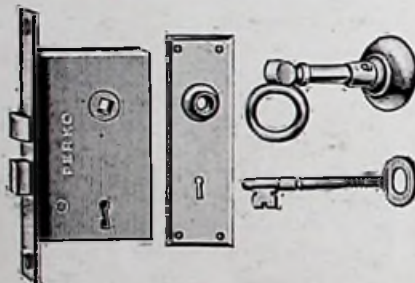


Fig. 945

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.75
Size No. 2, Price Per set	7.50

SET B

With Combination Escutcheons and Two Round Knobs	
Size No. 1, Price Per Set	\$6.75
Size No. 2, Price Per Set	7.50

SET C

With Shield Escutcheons, Round Knob and Drop Handle	
Size No. 1, Price Per Set	\$6.20
Size No. 2, Price Per Set	7.00

SET D

With Shield Escutcheons and Two Round Knobs	
Size No. 1, Price Per Set	\$6.20
Size No. 2, Price Per Set	7.00

For Set No.	Combination Escutcheon Inches	Diameter Round Knob Inches	Shield Escutcheon Inches
1	4 3/8 x 1 1/8	1 3/4	1 1/2
2	6 x 1 1/2	1 3/4	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

Rim Lock Sets

CAST BRONZE—POLISHED

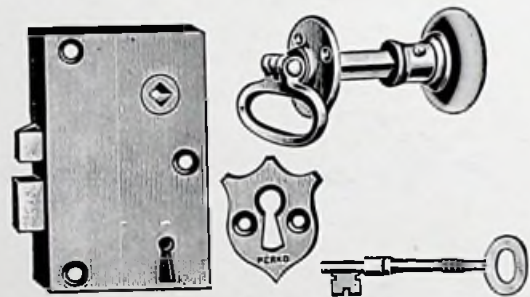


Fig. 1046

The following shows Rim Lock Fig. 1045, Numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.75
Size No. 2, Price Per Set	7.25

SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.00
Size No. 2, Price Per Set	6.80

SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$6.00
Size No. 2, Price Per Set	6.70

For Set No.	Combination Escutcheon Inches	Diameter Round knob Inches	Shield Escutcheon Inches
1	4 3/8 x 1 1/8	1 3/4	1 1/2
2	6 x 1 1/2	1 3/4	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on Application.

Extra keys for above locks furnished to order.

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices

Brass Rim Lock Set

POLISHED OR CHROMIUM PLATED

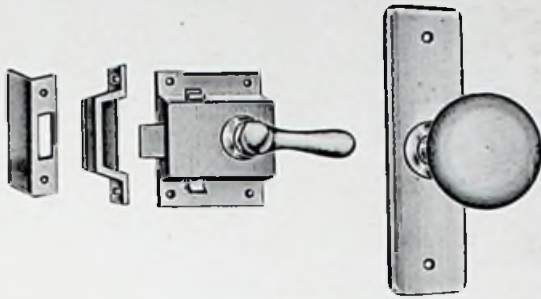


Fig. 1086

Brass throughout. Reversible for right and left hand doors. Push type locking device. No keys. Both sizes for doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick. Diameter of knob $1\frac{3}{4}$ inches.

No.	Polished Brass Each	Chromium Plated Each	Size Case Inches	Size Escutcheons Inches	Backset Inches
1	\$3.30	\$4.95	$2\frac{1}{4} \times 1\frac{7}{8}$	$4 \times 1\frac{3}{8}$	$1\frac{1}{2}$
2	3.50	5.25	3×2	$4\frac{1}{2} \times 1\frac{1}{2}$	$1\frac{1}{2}$

Brass Mortise Lock Set

POLISHED OR CHROMIUM PLATED

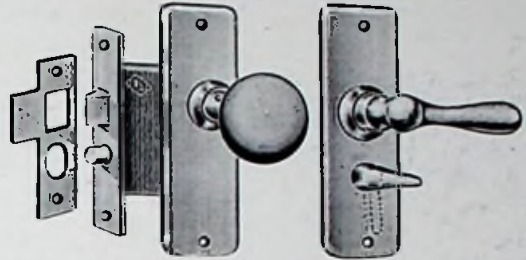


Fig. 1088

Brass throughout. Reversible for right and left hand doors. Lever type locking device. No keys.

For doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick.

Size Case Inches	Size Face Inches	Size Escutcheons Inches	Size Knob Inches	Backset Inches
$2 \times 1\frac{3}{4} \times \frac{7}{16}$	$3\frac{1}{4} \times 1\frac{1}{16}$	$4 \times 1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{16}$
Polished Brass Each			Chromium Plated Each	
\$3.85			\$5.50	

Brass Mortise Lock Set

POLISHED OR CHROMIUM PLATED

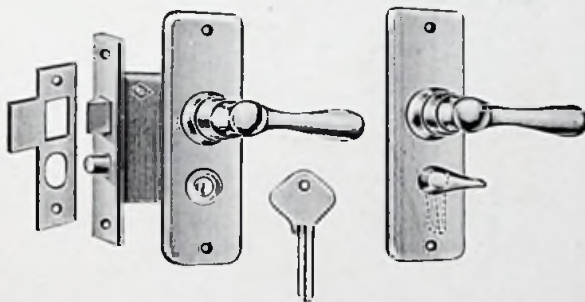


Fig. 1087

Brass throughout, reversible for right and left hand doors. With lever lock on one side and key lock on the other. With two lever handles.

For doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick. Length of levers 2 inches.

Polished Brass Each	Chromium Plated Each	Size Case Inches	Size Face Inches	Size Escutcheons Inches	Backset Inches
\$4.10	\$5.75	$2 \times 1\frac{7}{8} \times \frac{7}{16}$	$3\frac{1}{4} \times \frac{11}{16}$	$4 \times 1\frac{3}{8}$	$1\frac{5}{16}$

Brass Mortise Lock Set

POLISHED OR CHROMIUM PLATED

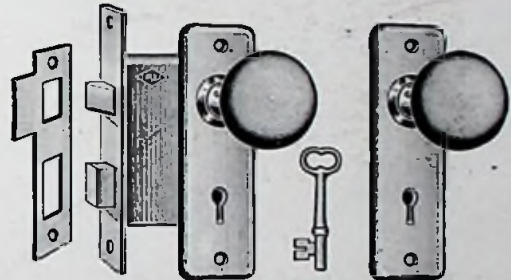


Fig. 1177

Brass throughout. Reversible for right and left hand doors. Operates by key from both sides. One key. Diameter of knobs $1\frac{3}{4}$ inches. For doors $1\frac{1}{2}$ to $1\frac{3}{4}$ inches thick.

Polished Brass Each	Chromium Plated Each	Size Case Inches	Size Face Inches	Size Escutcheons Inches	Backset Inches
\$6.25	\$8.00	$3 \times 2\frac{3}{8} \times \frac{1}{2}$	$4\frac{1}{2} \times \frac{3}{4}$	$4\frac{1}{2} \times 1\frac{1}{2}$	$1\frac{3}{8}$

Cylinder Rim Spring Latches

ALL BRONZE—REVERSIBLE

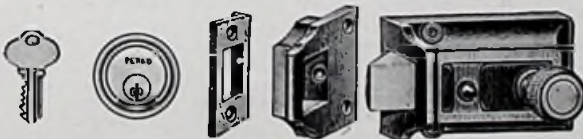


Fig. 1101

Raised parts and edges are polished, furnished with both strikes, three keys and screws.

Meets U. S. Navy specifications 42-L-27.

Per Set	Size Case Inches	Thickness Inches	Backset Inches	For Thickness of Doors Inches
\$4.00	$3\frac{3}{4} \times 2\frac{1}{2}$	1	$2\frac{3}{8}$	$1\frac{1}{4}$ to $2\frac{1}{4}$

Brass Tubular Lock Sets

FOR SMALL CABIN DOORS

POLISHED OR CHROMIUM PLATED



Fig. 567

Polished Brass Each	Chromium Plated Each	For Thickness of Doors Inches	Size Escutcheon Inches	Size Knob Inches	Backset Inches
\$2.25	\$3.00	$\frac{7}{8}$ to $1\frac{3}{8}$	$4\frac{3}{8} \times 1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{3}{8}$

Door Knobs

CAST BRASS—POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs



Fig. 1048

Diam. Knob Inches
1 3/4
2

Per set
\$2.25
2.25

Size Spindle Inches
1 1/8
1 3/8

Round Knob and Drop Handle



Fig. 1049

Diameter Knob Inches
1 3/4
2

Per Set
\$2.25
2.25

Size Spindle Inches
1 1/8
1 3/8

Knobs for Rim Locks have One Rosette
Knobs for Mortise Locks have Two Rosettes

Drawer Knobs

ALL BRASS—FOR DRAWERS UP TO 1 1/8" THICK



Fig. 924



Fig. 925

No.	Fig.
1	924
2	924
3	925

Polished Bronze Per Dozen
\$2.50
3.00
3.00

Chromium Plated Per Dozen
\$3.00
3.50
3.50

Diameter Inches
1
1 1/4
1



Fig. 1109

Door Stops

CAST BRASS—POLISHED RUBBER TIP

Furnished complete with screws.

Each
\$.85

Diam. Base Inches
2

Projection Inches
1 1/8

Flush Ring Catch

CAST BRASS—POLISHED



Fig. 1051

Size Inches
1 3/8 x 1 1/4

Each
\$.50

Cupboard Catches

CAST BRONZE—POLISHED

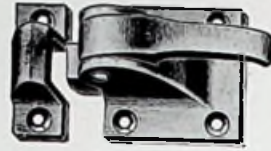


Fig. 1102

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.95	1 1/2 x 1 1/2	1 1/2
2	.95	1 1/2 x 1 1/2	1 3/4

No. 2 has 3/8 inch offset.

Cupboard Turns

WROUGHT BRONZE—POLISHED

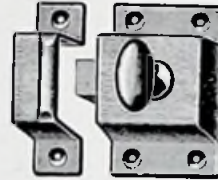


Fig. 1105

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.55	1 7/8 x 1 3/8	2
2	.60	2 1/8 x 1 1/4	3

Cupboard Turns

CAST BRASS—POLISHED

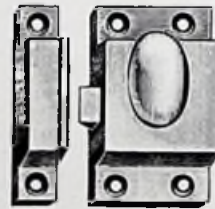


Fig. 949

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.80	1 7/8 x 1 3/8	2 1/2
2	.90	2 1/8 x 1 1/4	3 3/4

Cupboard Catches

CAST BRASS—POLISHED

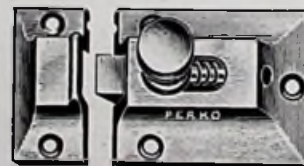


Fig. 950

Furnished complete with screws.

No.	Each	Size Inches
1	\$.50	1 1/4 x 1 1/2
2	.60	1 1/4 x 1 1/2
3	.65	1 1/8 x 1 3/8

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices

Barrel Bolts

CAST BRASS—POLISHED

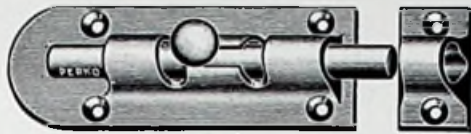


Fig. 947

No.	Each	Size Inches	Weight Per Dozen Pounds
1	\$.55	2 1/4 x 1 1/8	1 1/2
2	.75	3 x 1 1/4	2
3	.90	4 x 1 1/4	3

Flush Bolts

CAST BRONZE—POLISHED

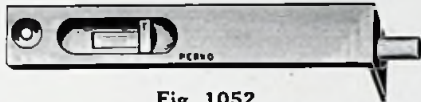


Fig. 1052

No.	Each	Size Inches
2	\$.45	3/8 x 2 1/2
	.50	3/8 x 3

Ship Bolts

HEAVY CAST BRONZE—POLISHED

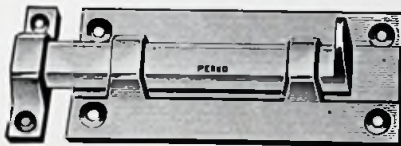


Fig. 1053

No.	Each	Size Inches
1	\$.55	3 x 1 1/8
2	.75	4 x 1 3/8
3	1.00	5 x 1 3/8

Square Neck Bolts

HEAVY CAST BRONZE—POLISHED

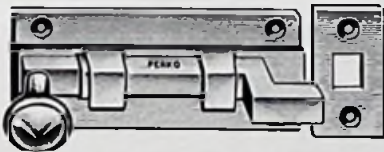


Fig. 1054

No.	Each	Size Inches
1	\$.70	3 x 1 1/4
2	.90	4 x 1 1/4

Window Bolts

CAST BRONZE—POLISHED

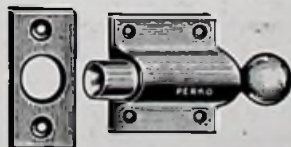


Fig. 1055

Base Inches	Each
1 1/8 x 1 1/4	\$.70

Elbow Catches

CAST BRASS—POLISHED



Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base Inches	Each
1 1/16 x 3/8	\$.50

Casement Fasteners

CAST BRONZE—POLISHED



Fig. 1106

Furnished with screws and either type strike.

Each	Without Strike Inches	Extreme Projection Inches	Weight Per Dozen Pounds
\$.95	1 3/8 x 1 1/8	1 3/8	2 1/2

State type of strike when ordering.

Butterfly Hinges

WROUGHT BRASS—PLAIN



Fig. 1058

No.	Size Open Inches	Per Pair
1	2 1/4	\$.12
2	3	.18

Spring Hinges

WROUGHT BRASS—PLAIN

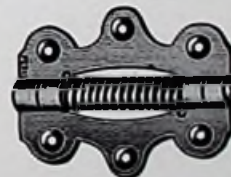


Fig. 1059

No.	Length Inches	Per Pair
1	2 3/8	\$.55
2	3	.85

Spring Hinges

CAST BRONZE—POLISHED

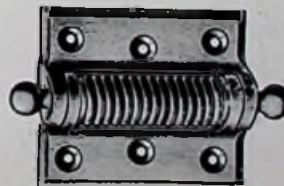


Fig. 1107

Furnished complete with screws.

Per Pair	Size	Weight Per Pair Pounds
\$3.50	3 x 2 3/8	1 1/4



Strap Hinges

GALVANIZED MALLEABLE IRON AND BRONZE BRASS PINS



Fig. 120

Length Opened Inches	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.40	\$.75	\$1.15	\$1.65	\$2.15	1 1/8
6	.60	1.00	1.40	2.00	2.50	3/8
8	.95	1.25	1.85	2.60	3.10	7/8
10	1.20	1.65	2.40	3.40	3.80	1 1/8
12	1.70	2.30	3.10	4.10	4.60	1 3/8

Port Hinges

GALVANIZED MALLEABLE IRON AND BRONZE BRASS PINS



Fig. 109

Length Opened Inches	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.60	\$1.00	\$1.70	\$2.20	\$2.70	1/2
6	.85	1.30	2.00	2.60	3.20	3/8
8	1.30	1.75	2.75	3.50	4.15	1/2
10	2.00	2.60	3.60	4.35	5.10	2
12	2.60	4.65	5.50	6.35	7.10	2 5/8

Cuddy Door Hinges

HEAVY CAST BRONZE



Fig. 951

Length Opened Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
3	\$.65	\$1.10	\$1.70
3 1/2	.70	1.20	1.90
4	.75	1.25	2.10
5	.90	1.75	2.75

Fast Pin Butt Hinges

CAST BRASS—EMERY FINISH BRASS PINS



Fig. 952

Size Open Inches	Per Doz. Pairs	Size Open Inches	Per Doz. Pairs
1 1/2 x 1 1/4	\$ 5.40	3 x 1 1/2	\$13.00
1 1/2 x 1 1/2	5.52	3 x 2	13.20
1 3/4 x 1 1/4	5.52	3 x 2 1/4	15.60
1 3/4 x 1 1/2	5.76	3 x 2 1/2	15.60
2 x 1 1/4	6.00	3 x 3	18.60
2 x 1 1/2	6.60	3 1/2 x 2 1/2	20.00
2 x 1 3/4	7.44	3 1/2 x 3	21.60
2 x 2	7.80	3 1/2 x 3 1/2	24.00
2 1/2 x 1 1/2	9.36	4 x 3	28.16
2 1/2 x 1 3/4	10.56	4 x 3 1/2	31.44
2 1/2 x 2	10.80	4 x 4	33.60
2 1/2 x 2 1/2	12.00		

Polished or Chromium Plated, Price on Application
Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—POLISHED BRASS PINS

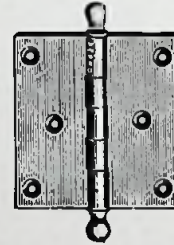


Fig. 953

Size Open Inches	Size Screw Inches	Per Pair	Size Open Inches	Size Screw Inches	Per Pair
2 x 1 1/2	3/4 x 6	\$1.35	3 x 3	1 x 8	\$2.50
2 x 2	3/4 x 7	1.50	3 1/2 x 3	1 x 11	3.00
2 1/2 x 2	7/8 x 7	1.65	3 1/2 x 3 1/2	1 x 11	3.30
2 1/2 x 2 1/2	7/8 x 7	1.80	4 x 3	1 x 11	4.50
3 x 2	1 x 8	2.00	4 x 3 1/2	1 x 11	5.00
3 x 2 1/2	1 x 8	2.20	4 x 4	1 x 11	6.00

Chromium Plated, add 50% to above Prices

Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

Length Between Joints Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$2.10	\$3.40	\$4.15	\$4.65	11 1/4
3	2.40	3.75	4.60	5.05	12 1/4
4	2.60	4.25	5.25	5.65	13
5	4.20	6.00	7.30	7.60	16 1/4
6	4.50	6.50	8.00	8.25	17

Boston Hasp Hinges

GALVANIZED MALLEABLE IRON AND BRONZE

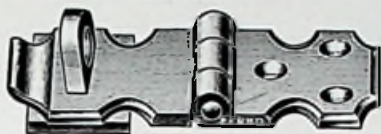


Fig. 954

Length Opened Inches	Galv. Each	Pl. Bronze Each	Pol. Bronze Each
4	\$.40	\$.75	\$1.10
6	.55	1.00	1.65

Security Hasp Hinges

POLISHED BRONZE

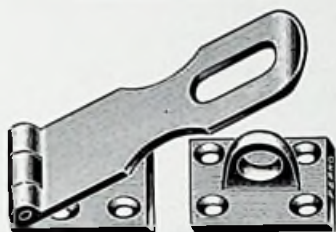


Fig. 955

Length Closed Inches	Pol. Bronze Each	Width Inches
2 3/4	\$.85	1
3 3/4	1.00	1 1/8

Cabin Door Hooks

CAST BRASS—POLISHED



Fig. 956

Size Inches	Each	Size Inches	Each
1 1/2	\$.40	3 1/2	\$.70
2	.45	4	.75
2 1/2	.55	5	.90
3	.60	6	1.20

Cabin Door Hooks

DOUBLE JOINTED
CAST BRASS—POLISHED



Fig. 957

Size Inches	Each	Size Inches	Each
2	\$1.50	4	\$1.70
2 1/2	1.50	5	1.85
3	1.55	6	2.00

Above items desired CHROMIUM PLATED, add 50% to Polished Brass and Bronze Prices.

Safety Hasps

EXTRA HEAVY CAST BRONZE—POLISHED



Fig. 1060

Length Inches	Width Inches	Each
4 1/2	1 3/8	\$1.75

Anti-Rattle Door Fastener

CAST BRONZE—POLISHED

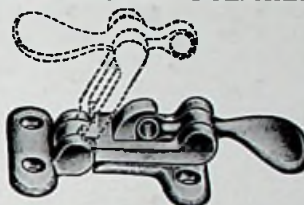


Fig. 1108

Furnished complete with screws. Has 1/4 inch hole in lever for padlock.

Each	Size Base Inches	Weight Ounces
\$1.40	3x2	6

Door Holders

SIDE PATTERN
CAST BRONZE—POLISHED



Fig. 1065

Projection Inches	Price Per set
2	\$.90

FLOOR PATTERN

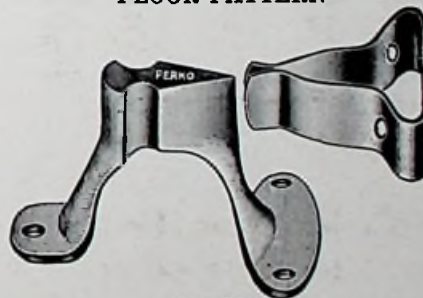


Fig. 1066

Height From floor Inches	Price Per set
2	\$1.00

Cupboard Door Holder

ALL BRONZE

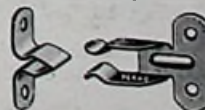


Fig. 1178

A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall—1 1/4 x 1 inches.

Per Dozen \$.95



Refrigerator Hinges

CAST BRASS—POLISHED

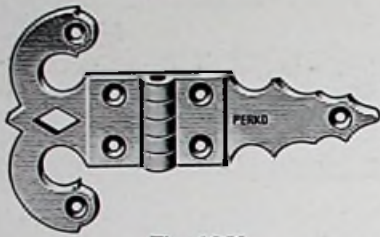


Fig. 1061

Length Overall Inches	Length Strap Inches	Flush Type Per pair	Offset Type Per pair
5	3	\$.80	\$.95
6 1/4	4	1.30	1.50
7 1/4	5	1.60	1.90
8 1/2	6	1.90	2.30

Offset Type has 3/8 inch offset
Be sure to Specify Flush or Offset Type

Cabinet Latches

CAST BRASS—POLISHED



Fig. 1064

With flush striking plate and brass pin, spring closing.
Made either right or left hand.

Length Overall Inches	Length Lever Inches	Polished Brass Each	Chromium Plated Each
2 1/2	2	\$.50	\$.70

Refrigerator Levers

CAST BRASS—POLISHED

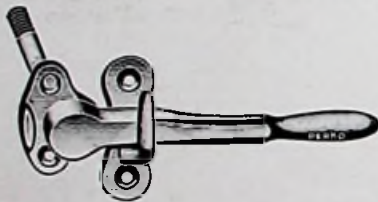


Fig. 1062

An integral stop on lever plate will keep lever in up-right position when door is open.
Reversible for right or left hand.

Length Lever Inches	Length Bolt Inches	Each
5 1/2	5	\$1.30
6 1/2	7	1.85
9	7 1/2	3.00

Door Pulls

CAST BRONZE

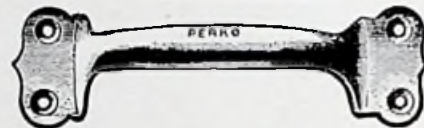


Fig. 775

Length Inches	Polished Bronze Each	Chromium Plated Each
4 1/4	\$.45	\$.70
6	.60	.90

Drawer Pulls

CAST BRASS—POLISHED



Fig. 958

Size Inches	Each
3	\$.40
4	.45

Refrigerator Fasteners

CAST BRASS—POLISHED



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.
Illustration shows right hand.

Length overall Inches	Size lever Inches	Price Each
5	4	\$.95
6 1/4	4 3/4	2.50

Flush Drawer Handle

CAST BRONZE—POLISHED

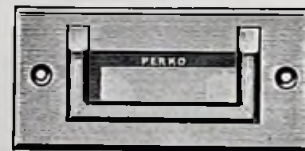


Fig. 1057

Size Inches	Each
1 3/8 x 3 1/4	\$.80

Flush Ring Pulls

CAST BRASS—POLISHED

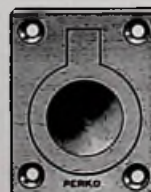


Fig. 841

No.	Each	Size Plate Inches
1	\$.50	1 1/4 x 1 1/2
2	.65	1 1/2 x 1 7/8
3	.85	1 7/8 x 2 1/2
4	1.15	2 x 2 3/4

Above items desired CHROMIUM PLATED, add 50% to Polished Brass and Bronze Prices

Hatch Adjusters

CAST BRONZE

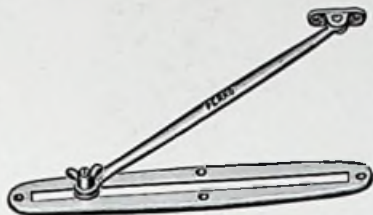


Fig. 797

No.	Polished Bronze Each	Chromium Plated Each	Length Arm Inches	Length Plate Inches
1	\$2.25	\$3.25	8	8 1/2
2	3.00	4.00	10	10 3/4

Casement Adjuster

ALL BRASS—HEAVY PATTERN

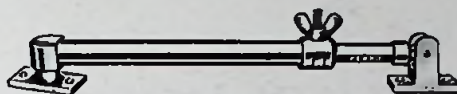


Fig. 1179

A non-slip adjuster with powerful grip to stay put in position desired.

Illustration shows swivel base on left side and swinging base on right.

Polished Brass Each	Chromium Plated Each	Length Closed Inches	Length Open Inches	Diam. Outside Tube Inches
\$2.30	\$3.00	11	20	1/2

Hatch Bracket

POLISHED BRASS

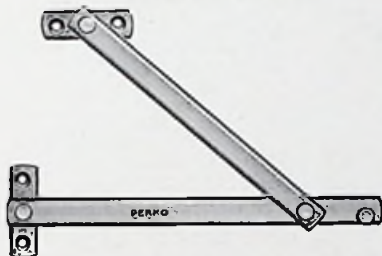


Fig. 406

Length Closed Inches	Polished Brass Per Pair	Chromium Plated Per Pair	Size Brackets Inches	Weight Per Pair Pounds
10	\$3.30	\$5.00	2 3/8 x 3/4	2

Sash or Skylight Fastener

CAST BRONZE



Fig. 770

Size Inches
3/8 x 4

Polished Bronze Each
\$2.00

Chromium Plated Each
\$3.00

we
3 3/8

Skylight Hinge

CAST BRONZE—POLISHED



Fig. 771

Used with gutter made from 1/2 section of 3 inch brass tubing, cut shown one half pair, width of flange, 5 inches.

Polished, Per Pair \$5.25

Chromium Plated, Per Pair 7.00

Hatch Hinges

CAST BRONZE



Fig. 773

A new type hatch hinge that will allow hatch cover to be laid flat on deck.

Size—2 3/4 x 3 3/4

Price Per Pair

Polished Bronze \$4.40

Chromium Plated 5.75

Illustration shows one-half pair.

Skylight Quadrants

CAST BRONZE



Fig. 449

Door Buttons

CAST BRASS—POLISHED



Fig. 948

No.	Per Dozen Complete	Without Plate Per Dozen	Size Inches	No.	Length Inches	Polished Bronze Per Pair	Chromium Plated Per Pair
1	\$3.50	\$1.40	1 1/2	1	5	\$3.50	\$5.00
2	4.00	2.00	1 3/4	2	8	5.25	6.75
3	5.00	2.25	2	3	10	6.50	8.30
				4	12	7.25	9.25

Sash Hinges

CAST BRONZE

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

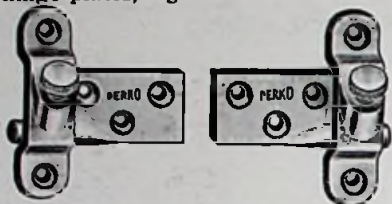


Fig. 418

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches	Polished Bronze Per Set	Chromium Plated Per Set
1	1 7/8 x 3/8	2 1/2 x 1 1/4	6	7/8	\$1.50	\$2.25
2	1 7/8 x 3/8	3 1/4 x 1 1/4	7	7/8	2.00	2.75

Combination Sash Hinges WITH CURTAIN ROD SOCKETS CAST BRONZE

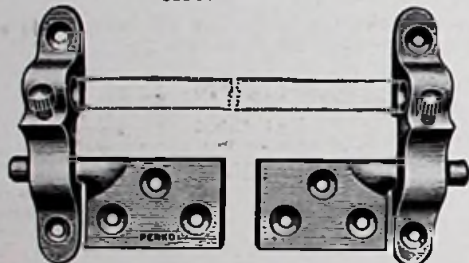


Fig. 960

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches	Polished Bronze Per Set	Chromium Plated Per Set
1	1 7/8 x 3/8	2 3/4 x 1/2	7	7/8	\$1.50	\$2.25

Wardrobe Hooks

CAST BRONZE—POLISHED



Fig. 840

Polished Brass Each \$.30

Fig. 635 840



Fig. 635

Chromium Plated Each \$.45

Projection Inches 1 1/2 1 1/2
Width Inches 1 2 3/8

Coat and Hat Hooks

CAST BRASS



Fig. 959

Projection Inches 2
Polished Brass Each \$.35
Width Base Inches 1 1/4
Chromium Plated Each \$.50

Sash Anti Rattlers

CAST BRONZE—POLISHED

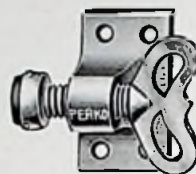


Fig. 839

Furnished with leather tip to prevent defacing of wood work. Size of base 1" x 1 3/4".

Polished Bronze, Each \$1.25
Chromium Plated, Each 1.75

Sash Lifts

CAST BRONZE

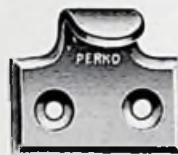


Fig. 776

No.	Size of Plate	Polished Bronze Each	Chromium Plated Each
1	1/2 x 1 1/2	\$.35	\$.65
2	3/4 x 1 7/8	.35	.65

Sash Fasteners

LEFT OR RIGHT HAND

CAST BRONZE—POLISHED



Fig. 777

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$.60	\$1.00	1 3/4 x 1	1 1/2

Please specify left or right hand

Flush Hatch Lifting Handle

CAST BRONZE



Fig. 774

Designed especially for flush installation on boats, will not catch on table or chair legs or heels of shoes.

Size—3 x 2 3/8 inches

Each Polished Bronze \$2.00
Chromium Plated 3.00

Fender Moulding

POLISHED BRASS

Hollow inside with flat face allowing screw heads to fit flush with surface, tapered edges to make neat fit.

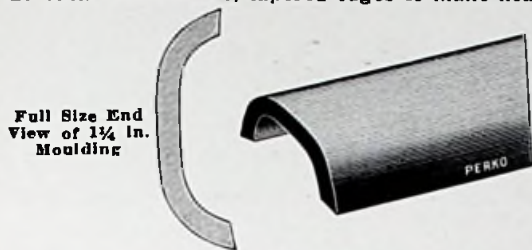


Fig. 227

Outside Width Inches	Projection Inches	Weight Per Foot Pounds	Polished Brass Per Foot	Chromium Plated Per Foot
1	$\frac{1}{16}$	$\frac{1}{2}$	\$.40	\$.65
$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	.60	.90

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in standard mill lengths.

Moulding Ends and Couplings

CAST BRONZE

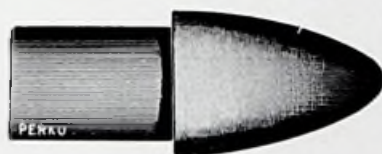


Fig. 228



Fig. 229

Couplings are for inside of moulding where two pieces are joined.

For Moulding Inches	Fig. 228		Fig. 229 Plain Bronze Each	Length Coupling Inches	Length Ends Inches
	Polished Bronze Each	Chromium Plated Each			
1	\$.50	\$.70	\$.20	$2\frac{1}{2}$	$2\frac{1}{2}$
$1\frac{1}{4}$	.60	.80	.30	3	3

Continuous Hinge

WROUGHT BRASS—BRASS PIN



Fig. 211

For use on hatch covers, locker doors, windshields, etc. Holes are two inches apart, center to center.

Width Open Inches	Polished Brass Each	Nickel Plated Each	Chrom. Plated Each	Length Inches	Gauge
$1\frac{1}{16}$	\$1.65	\$1.90	\$2.25	60	.045
$1\frac{1}{4}$	1.85	2.10	2.50	60	.040
$1\frac{1}{2}$	1.95	2.20	2.75	60	.040
$1\frac{1}{2}$	2.30	2.55	3.25	72	.040
2	2.50	2.75	3.75	60	.040
2	3.00	3.25	4.25	72	.040

Special widths and lengths made to order. Price on application.

Hatch Moulding

POLISHED BRASS

This type moulding insures a smooth and neat surface, as it is fastened to hatch on side, screw heads are invisible when hatch is closed.

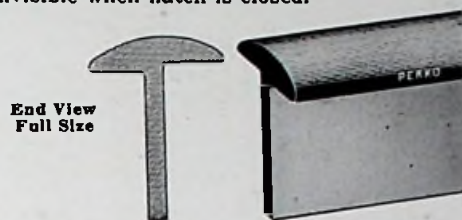


Fig. 232

Width Surface Inches	Depth Inches	Weight Per Foot Ounces	Polished Brass Per Foot	Chromium Plated Per Foot
$\frac{3}{4}$	$\frac{1}{2}$	10	\$.50	\$.80

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in 10 and 12 foot lengths, no cutting.

Flat Hatch Trim

POLISHED BRASS

For neat finishing around edge of hatch. Made of 18 B & S gauge metal in standard lengths.



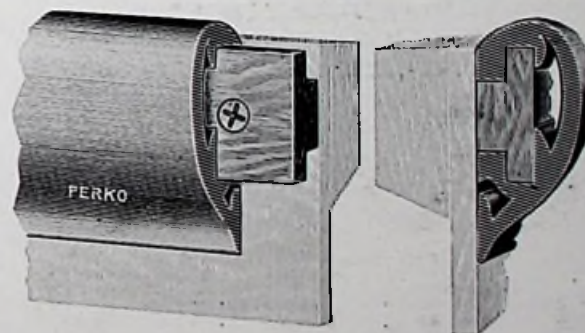
Fig. 243

Width Inches	Weight Per Foot Ounces	Polished Brass Per Foot	Chromium Plated Per Foot
1	$2\frac{3}{4}$	\$.21	\$.38
$1\frac{1}{4}$	3	.22	.39
$1\frac{1}{2}$	$3\frac{1}{2}$	.25	.42

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Rubber Fender Moulding

WITH T SHAPED GUNWALE STRIP
WHITE LIVE RUBBER



Side View

End View

Fig. 758

A special moulded rubber flanged to clamp around the T shaped gunwale strip without fastening. Two air spaces plus resiliency of rubber provide cushioning. An extremely neat looking and practical fender.

Furnished only in 140 inch lengths complete with T shaped wood strip same length as rubber. Packed in corrugated box containing 2 lengths of rubber and strips with rubber patching for bow and stern corners and a tube of cement.

Complete Per Length	Extreme Width Inches	Extreme Thickness Inches	Thickness Wall Inches	Thickness Wood Strip Inches
\$5.50	2	1	$\frac{3}{16}$	$\frac{1}{2}$

ANCHOR SHACKLES DROP FORGED STEEL AND BRONZE

SCREW PIN



Fig. 314

ROUND PIN



Fig. 315

*50%
as in*

Prices and Dimensions Below Apply to Both Figs. 314 and 315

Size Inches	Galvanized Each	Japanned Each	Plain Bronze Each	Polished Bronze Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
3/16	.30	.28	.50	.70	7/8	3/8	1/4	7	3000
1/4	.30	.28	.50	.70	1 1/8	1/2	5/16	14	4450
5/16	.35	.30	.65	.85	1 1/4	5/8	3/8	25	6850
3/8	.40	.35	1.00	1.25	1 5/8	1 1/8	7/16	35	8800
7/16	.50	.45	1.25	1.50	1 3/4	3/4	1/2	56	13250
1/2	.60	.50	2.00	2.35	1 7/8	7/8	5/8	78	17300
5/8	.90	.80	3.00	3.50	2 1/2	1 1/8	3/4	156	29000
3/4	1.30	.90			3	1 1/4	7/8	245	39200
7/8	1.70	1.40			3 1/4	1 1/2	1	375	53000
1	2.20	1.80			3 3/4	1 5/8	1 1/8	525	64600
1 1/8	3.20	2.60			4 1/4	1 3/8	1 1/4	740	76000
1 1/4	4.00	3.20			4 1/2	2	1 3/8	900	95000
1 3/8	5.00	4.40			5 1/4	2 1/4	1 1/2	1300	116000
1 1/2	6.50	5.25			5 3/4	2 3/8	1 5/8	1650	138000
1 3/4	10.00	10.00			7	2 7/8	2	2900	212000
2	15.00	15.00			7 3/4	3 3/8	2 1/4	4000	256000
2 1/2	60.00	49.00			10	4 1/8	2 3/4	7000	381000

33 1/3

Bronze Shackles Are Only Furnished with Screw Pins

CHAIN SHACKLES DROP FORGED STEEL

SCREW PIN



Fig. 338

ROUND PIN



Fig. 339

50%

Prices and Dimensions Below Apply to Both Figs. 338 and 339

Size Inches	Galvanized Each	Japanned Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	.28	.25	7/8	1/2	5/16	13	4450
5/16	.30	.28	1	5/8	3/8	20	6850
3/8	.35	.33	1 1/4	1 1/8	7/16	30	8800
7/16	.45	.40	1 1/2	3/4	1/2	50	13250
1/2	.50	.45	1 5/8	7/8	5/8	70	17300
5/8	.80	.70	2	1 1/8	3/4	130	29000
3/4	.90	.75	2 5/8	1 1/4	7/8	220	39200
7/8	1.40	1.10	2 7/8	1 1/2	1	300	53000
1	1.80	1.45	3 1/4	1 5/8	1 1/8	470	64600
1 1/8	2.60	2.10	3 1/2	1 3/8	1 1/4	670	76000
1 1/4	3.20	2.60	3 5/8	2	1 3/8	800	95000
1 3/8	4.40	3.60	4 1/2	2 1/4	1 1/2	1200	116000
1 1/2	5.25	4.20	5	2 3/8	1 5/8	1400	138000
1 3/4	10.00	8.00	5 5/8	2 7/8	2	2600	212000
2	15.00	12.00	6 3/4	3 3/8	2 1/4	3600	256000
2 1/2	49.00	43.00	8 1/4	4 1/8	2 3/4	6000	381000



Wire Rope Thimbles

GALVANIZED FORGED STEEL
FORGED BRONZE AND STAINLESS STEEL
REGULAR PATTERN



Fig. 466

33 1/3 *25%*

For Size Rope Inches	Galv. Per 100	Bronze Each	Stainless Steel Each	Length Overall Inches	Width Inside Inches	Weight Per 100 in Lbs.
5/16	\$ 4.00		\$.15	1	3/8	1/2
3/8	4.40	.15	.25	1 1/2	5/8	2
1/2	4.40	.15	.25	1 1/2	5/8	2 1/2
5/8	4.40	.20	.30	1 5/8	3/4	3 1/2
3/4	5.25	.25	.35	2 1/8	1 1/8	5 1/2
7/8	6.00	.35	.45	2 3/8	1	7 1/2
1	7.00	.45	.70	2 5/8	1 1/8	9 1/4
1 1/8	8.00	.50	.85	2 3/4	1 1/8	13 1/4
1 1/4	11.00	.70		3 5/8	1 3/8	22 1/2
1 1/2	13.00			3 1/2	1 5/8	26
1 3/4	16.00			4	1 3/4	49
2	21.00			4 3/4	2	61
2 1/8	38.00			5 1/4	2 1/8	65
2 1/4	44.00			6	2 3/8	103
2 1/2	120.00			6 3/8	2 7/8	163
2 3/4	160.00			7 1/2	3 1/8	255
3	200.00			8 3/4	3 3/8	380

Manila Rope Thimbles
GALVANIZED DROP FORGED STEEL



Fig. 468

33 1/3

For Dia. Rope Inches	Galvanized Per 100	I. D. Hole	O. D. Edge to Edge	Weight Per 100 in Lbs.
5/8	\$ 5.00	3/8	3/4	1 1/2
3/4	5.00	1/2	3/8	2 1/4
7/8	6.00	3/4	1	3 1/8
1	8.00	3/4	1 1/4	6 1/2
1 1/8	10.00	1 1/8	1 1/2	9 3/8
1 1/4	12.00	1 1/8	1 3/4	16 1/2
1 1/2	15.00	1 1/4	2	20 1/4
1 3/4	18.00	1 1/4	2 1/4	33 3/4
2	20.00	1 3/8	2 1/2	39 1/2
2 1/4	30.00	1 3/8	2 3/4	52
2 1/2	40.00	1 3/4	3	62
2 3/4	50.00	2	3 1/2	112
3	100.00	2 3/8	4	146
3 1/2	200.00	2 3/4	4 1/2	206

Sail Thimbles

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 469

33 1/3

LIGHT

*Size Ins.	Galv. Iron Per Doz.	Spun Brass Per Doz.	Cast Brass Per Doz.	Weight Per Doz.	For Diam. Rope Inches
1/2		\$.35			1/4
5/8		.50			1/4
3/4	\$.45	.55	\$.84		1/4
7/8		.75	.98		1/4
1	.60	.85	1.12		3/8
1 1/4	.80	1.50	1.50		3/8
1 1/2	1.00		1.86		1/2
1 3/4	1.25		2.40		1/2
2	1.50		2.80		3/4
2 1/4	1.85		3.20		3/4
2 1/2	2.25		3.60		3/4
2 3/4	2.50		3.95		3/4
3	3.00		4.90		1/2

Small Yacht Thimbles

GALVANIZED FORGED STEEL



Fig. 216

33 1/3

For Size Rope Inches	Per 100	Length Overall Inches	Width Inside Inches	Weight Per 100 in Lbs.
1/8	\$4.00	1	3/8	1/2
1/8	7.00	1	3/8	1
1/8	7.00	1	3/8	1
1/4	7.00	1 1/4	1/2	2
1/4	8.00	1 3/8	5/8	4

Solid Wire Rope Thimbles

MANGANESE BRONZE—POLISHED



Fig. 929

33 1/3

For Size Rope Inches	Price Each	Thick-ness Inches	For Turnbuckle Inches
1/8	\$.35	7/32	1/4
3/32	.45	9/32	3/16
1/4	.50	11/32	3/8
5/32	.55	13/32	7/16
3/8	.70	15/32	1/2
7/16	.85	17/32	5/8

HEAVY

2	2.00	2 1/4 lbs.	3/8
2 1/4	2.50	2 7/8 lbs.	3/8
2 1/2	3.00	3 1/8 lbs.	3/8
2 3/4	3.50	4 1/8 lbs.	3/8
3	4.00	6 lbs.	3/8
3 1/2	5.00	7 7/8 lbs.	1
4	6.00	10 3/4 lbs.	1 1/8
4 1/2	10.00	16 lbs.	1 1/4
5	15.00	20 lbs.	1 1/2

*Diameter outside from edge to edge. Specify light or heavy.



OPEN TURNBUCKLES
 DROP FORGED STEEL
 GALVANIZED AND SELF COLORED

HOOK AND EYE

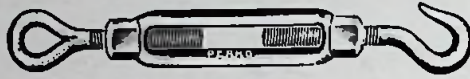


Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK



Fig. 392

JAW AND EYE



Fig. 393

JAW AND JAW



Fig. 394

All Turnbuckles Have Right and Left Hand Threads—Threads Are All Hot Galvanized.
 All Turnbuckle Jaws $\frac{5}{8}$ and Smaller Have Hex. Head Bolt and Nut.
 All Turnbuckle Jaws $\frac{3}{4}$ and Larger Have Pin and Cotter.
 $\frac{3}{4}$ and Larger Furnished with Bolt and Nut To Order.

45%

40%

40%

Diameter & Takeup	Eye & Eye Hook & Eye		Jaw & Eye		Jaw & Jaw	
	Galv. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each
* $\frac{1}{8}$ x 3	\$.40	\$.36	\$.50	\$.45	\$.60	\$.55
* $\frac{1}{4}$ x 4	.40	.36	.50	.45	.60	.55
* $\frac{3}{8}$ x 4 1/2	.50	.44	.62	.54	.74	.66
* $\frac{3}{8}$ x 6	.60	.52	.74	.64	.88	.78
* $\frac{1}{2}$ x 6	.90	.80	1.10	.95	1.30	1.15
9	1.45	1.20	1.70	1.40	1.90	1.55
12	1.70	1.40	2.00	1.60	2.30	1.85
* $\frac{5}{8}$ x 6	1.15	.95	1.30	1.10	1.50	1.25
9	1.75	1.45	2.00	1.70	2.30	1.90
12	2.10	1.70	2.40	2.00	2.70	2.20
18	2.60	2.20	3.10	2.60	3.50	2.90
* $\frac{3}{4}$ x 6	1.50	1.25	1.75	1.45	2.00	1.65
9	2.30	1.90	2.70	2.20	3.00	2.50
12	2.70	2.20	3.10	2.60	3.50	2.90
18	3.60	3.00	4.20	3.50	4.70	3.90
24	4.20	3.50	4.90	4.10	5.50	4.60
* $\frac{7}{8}$ x 12	3.40	2.80	3.90	3.20	4.50	3.70
18	4.30	3.60	5.00	4.20	5.75	4.70
24	5.25	4.40	6.25	5.10	7.00	5.75
* 1 x 12	4.20	3.50	4.80	4.00	5.50	4.60
18	5.50	4.50	6.50	5.25	7.25	6.00
24	6.75	5.50	8.00	6.50	8.75	7.25
36	8.50	7.00	10.00	8.25	11.50	9.25
* 1 1/8 x 12	5.25	4.20				
18	6.75	5.50				
24	8.25	6.75				
36	10.50	8.50				

Diameter & Takeup	Eye & Eye Hook & Eye		Jaw & Eye		Jaw & Jaw	
	Galv. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each
* 1 1/4 x 12	\$ 7.25	\$ 6.00	\$ 9.00	\$ 7.50	\$ 11.00	\$ 9.00
18	9.00	7.50	11.00	9.00	13.00	10.50
24	11.50	9.50	13.00	11.00	15.00	12.50
36	16.00	13.00	17.00	14.00	18.00	15.00
1 1/2 x 12	11.00	9.00	13.00	10.50	15.00	12.00
* 18	13.50	11.00	15.75	13.00	18.00	15.00
24	17.00	14.00	20.00	16.50	23.00	19.00
36	22.00	18.00	26.00	21.00	30.00	24.00
48	28.00	23.00	33.00	27.00	38.00	30.00
* 1 3/4 x 18	22.00	18.00	28.00	22.50	33.00	27.00
24	28.00	23.00	34.00	28.00	39.00	32.00
36	36.00	30.00	42.00	35.00	48.00	39.00
48	47.00	38.00	55.00	44.00	62.00	50.00
* 2 x 24	42.00	35.00	50.00	41.00	58.00	47.00
36	50.00	40.00	59.00	48.00	68.00	55.00
48	62.00	50.00	74.00	60.00	85.00	70.00

LARGER SIZES—PRICE ON APPLICATION

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List.

*Indicates standard marine lengths.

Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL WITH LOCK NUTS

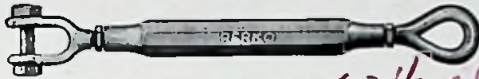


Fig. 398

33 1/3 all

Diam. Thread Inches	Eye and Eye Each	Jaw and Eye Each	Jaw and Jaw Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$.85	\$.95	\$1.05	5 1/2	47 1/2
5/16	1.00	1.10	1.20	5 3/4	62 1/2
3/8	1.15	1.25	1.35	6 1/2	102
1/2	1.55	1.75	1.95	8	178
5/8	2.20	2.45	2.70	10 3/4	369
3/4	3.00	3.35	3.70	12	500
7/8	4.00	4.50	5.00	15	775
1	5.00	5.60	6.20	15	1025
1 1/4	8.00	9.00	10.00	16	2050
1 1/2	15.00	16.50	18.00	21	3200
1 3/4	25.00	28.00	31.00	21	4500
2	40.00	43.00	47.00	24	7500
2 1/2	80.00	90.00	100.00		

Sizes larger than 1 1/4 inches are furnished in the round type.

Jaws 5/8 and smaller have hex. head bolt and nut.

Jaws 3/4 and larger have pin and cotter, furnished with bolt and nut to order.

Petite Brass Turnbuckles

RIGHT AND LEFT HAND THREADS



Fig. 396

40

Size No.	Plain Brass Each	Thread Diam. Inches	Length Takeup Inches	Overall Length Closed Inches	Inside Diam. Eye Inches
1	\$.25	1/8	3/8	2 1/8	1/8
2	.30	3/16	1/2	3 1/8	1/4
3	.40	1/4	1 1/2	3 15/16	3/8
4	.45	1/4	1 3/4	5 1/8	3/8
5	.50	3/16	2 1/4	6	1/2

Swivels

WELDLESS DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Est. Weight Each in Lbs.	Est. Ult. T. S. Tons
1/4	\$.75	3 1/4	3/4	1 1/8	2 1/2
5/16	.90	4 1/8	1	1 1/8	4 1/4
3/8	1.00	5	1 1/4	3/8	5 1/2
1/2	1.50	6	1 1/2	1 1/4	9 1/2
5/8	2.50	7 1/2	1 3/4	2 1/4	14 3/4
3/4	3.50	9	2	3 1/2	18 1/2
7/8	4.50	9 1/2	2 1/4	5 3/8	22 1/4
1	5.50	11 1/2	2 1/2	8 3/4	27 1/2
1 1/4	11.00	14	3	16	37 1/2

Deduct 10% for Self Colored Finish.

Swivels with Jaw End

DROP FORGED STEEL

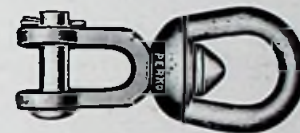


Fig. 623

33 1/3

Size Inches	Galv. Each	Overall Length Inches	Width Between Jaws Inches	Size of Bow in Clear Inches	Est. Wt. Each in Lbs.
1/4	\$1.00	3 1/4	1/2	3/4 x 3/4	3 1/2
5/16	1.15	4 1/8	1/2	1 x 1	4 1/2
3/8	1.25	4 1/2	5/8	1 1/4 x 1	5 1/2
1/2	2.00	5 5/8	3/4	1 1/2 x 1 1/4	11 1/4
5/8	2.80	7	1	1 3/4 x 1 1/2	21 1/8
3/4	3.90	8	1 1/8	2 x 1 3/4	31 1/2
7/8	5.00	9	1 1/4	2 1/4 x 2	51 1/4
1	6.00	11	1 1/2	2 1/2 x 2 1/2	93 1/4
1 1/4	12.00	13 1/2	1 3/4	3 x 2 3/4	163 1/4

Deduct 10% for Self Colored Finish.

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

Swivels

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 624

33 1/3

Size No.	Galvanized Each	Plain Bronze Each	Length Inches	Weight Per 100 in Lbs.
1	\$.05	\$.15	1 3/4	4
2	.09	.20	2 1/8	7 1/2
3	.14	.30	2 1/2	11 1/4
4	.20		3 1/4	19 1/2
5	.25		3 1/2	24 1/2
6	.40		4 3/8	41

Jaw and Jaw Swivels

DROP FORGED STEEL



Fig. 481

Size Inches	Galv. Each	Overall Length Inches	Dimensions of Jaws Inside		Est. Wt. Each in Lbs.
			Width Inches	Length Inches	
3/8	\$1.40	4 3/4	1 1/8	3/8	1
1/2	2.25	6 1/8	1 3/8	3/4	1 3/4
5/8	3.00	7 1/2	1 1/4	1	3
3/4	4.25	8 3/8	1 3/8	1 3/8	5

For Self Colored Finish, Deduct 10%



Hooks and Thimbles

DROP FORGED STEEL
FOR MANILA ROPE



Fig. 609

Size Inches	Galv. Each	Length Overall Inches	For Diam. Rope Inches	Weight Per 100 in Lbs.
1/4	\$.22	2	3/8	6
5/16	.22	2 3/8	1/4	10 1/2
3/8	.25	2 7/8	1/2	18
1/2	.30	3 3/8	3/8	37 1/2
5/8	.50	4 3/8	3/4	80
3/4	.60	5 3/8	3/8	150
7/8	.80	6 1/4	1	212
1	1.00	7	1 1/8	300
1 1/8	1.35	7 1/2	1 1/4	350
1 1/4	1.65	8 3/8	1 3/8	450

Deduct 5% for Self Colored Finish.

Hooks and Thimbles

DROP FORGED STEEL
FOR WIRE ROPE



Fig. 610

Size Inches	Galv. Each	Length Overall Inches	Score of Thimble Inches	Weight Per 100 in Lbs.
1/4	\$.22	2	1/8	8
5/16	.22	2 3/8	1/4	11
3/8	.25	2 3/4	1/8	24
1/2	.30	3 1/4	3/8	32
5/8	.50	4	1/2	62
3/4	.60	4 7/8	1/2	103
7/8	.80	5 3/8	3/8	142
1	1.00	6 1/4	3/4	225
1 1/8	1.35	7	3/8	293
1 1/4	1.65	7 1/4	1	400

Deduct 5% for Self Colored Finish.

Small Eye Hooks

FOR BLOCKS—DROP FORGED STEEL



Fig. 656

Size Inches	Galv. Each	Length Overall Inches	Throat Opening Inches	Est. Wt. Per 100 in Lbs.
1/4	\$.15	2	1 1/2	7
5/16	.15	2 3/8	1/2	10
3/8	.18	2 1/2	1 1/2	21
1/2	.20	3 1/4	1 1/2	26
5/8	.35	4	1 1/2	50
3/4	.45	4 7/8	1 1/8	92
7/8	.60	5 3/8	1 1/8	128
1	.75	6 1/4	1 1/4	200
1 1/8	1.05	7	1 1/8	255
1 1/4	1.30	7 3/8	1 1/2	375

"S" Hooks

WROUGHT STEEL GALVANIZED



Fig. 680

Size Inches	Price Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/8	\$.36	1 1/2	1/4
1/4	.48	2	1/2
5/16	.96	2 1/2	1
3/8	1.20	3	1 3/4
7/8	1.80	3 3/4	2 3/4
1/2	2.40	3 3/4	4

Screw Hooks

STEEL—GALVANIZED



Fig. 779

Size Inches	Galvanized Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$.95	3 1/2	3/4
5/16	1.10	4	1
3/8	1.20	4 3/4	2 1/8
1/2	2.20	5 3/8	4 3/4

Small Eye Match Hooks

DROP FORGED



Fig. 439

20%

1947 list

Diameter Hook Inches	Galv. List Each	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Weight Per 100 In Lbs.
1/4	\$.30	2 1/8	1/2	5/8	8
5/16	.30	2 1/2	5/8	3/4	12 1/2
3/8	.35	2 7/8	7/8	7/8	22
1/2	.40	3 1/2	7/8	1	38
5/8	.70	4 1/8	1	1 1/4	78
3/4	.90	5 1/8	1 1/8	1 3/8	113
7/8	1.20	5 7/8	1 1/4	1 1/2	175
1	1.50	6 1/4	1 3/8	1 3/4	281

Match Hooks and Wire Rope Thimbles



Fig. 539

Size Inches	Galv. List Each	Score of Thimble Inches	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Approx. Weight Per 100 In Lbs.
1/4	\$.40	7/8	2 1/8	1/2	5/8	11
5/16	.40	1/4	2 1/2	5/8	3/4	17
3/8	.45	7/8	2 7/8	7/8	7/8	27
1/2	.55	7/8	3 1/2	7/8	1	51
5/8	.90	1 1/2	4 1/8	1	1 1/4	95
3/4	1.10	3/8	5 1/8	1 1/8	1 3/8	141
7/8	1.50	3/4	5 7/8	1 1/4	1 1/2	207
1	1.85	7/8	6 1/4	1 3/8	1 3/4	334

Match Hooks and Manila Rope Thimbles



Fig. 540

Size Inches	Galv. List Each	Thimble Scored For Rope Diam. Inches	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Approx. Weight Per 100 In Lbs.
1/4	\$.40	3/8	2 1/4	5/8	3/8	10
5/16	.40	7/8	2 1 1/8	3/4	3/4	17
3/8	.45	1/2	3 1/8	7/8	7/8	25
1/2	.55	3/8	3 7/8	1 1/8	1	49
5/8	.90	7/8	4 1/2	1 1/4	1 1/4	107
3/4	1.10	1	5 1/8	1 1/2	1 3/8	166
7/8	1.50	1 1/8	6 1/8	1 3/4	1 1/2	254
1	1.85	1 1/4	7	2	1 3/4	377

DEDUCT 5% FOR SELF COLORED

Mooring or Towing Hooks

DROP FORGED STEEL WITH SAFETY LATCH



Fig. 611

Laughlin

Size No.	Galv. Each	Inside Diam. Eye Inches	Outside Diam. Eye Inches	Extreme Length Inches	Extreme Width Inches	Throat Opening Inches
2	\$.75	3/4	1 1/2	4 1/4	2 1/4	3/8
3	.90	7/8	1 3/4	5	3 1/4	1/2
4	1.10	1	2	5 1/2	3 1/4	5/8

Wire Rope Clips

MALLEABLE IRON SADDLE STEEL U-BOLT AND NUTS GALVANIZED



Fig. 333

50

Size Wire Rope Inches	Galvanized Per 100	Est. Wt. Per 100 in Lbs.	Size Wire Rope Inches	Galvanized Per 100	Est. Wt. Per 100 in Lbs.
3/16	\$ 8.00	8 1/2	7/8	\$ 50.00	149
1/4	8.00	16 1/2	1	60.00	190
5/16	9.00	19	1 1/8	95.00	310
3/8	12.00	25	1 1/4	112.00	375
1/2	15.50	32	1 3/8	130.00	560
5/8	18.50	40	1 1/2	150.00	645
3/4	24.50	62	1 3/4	415.00	1085
7/8	35.00	101	2	550.00	1620

Tiller Rope Clamps

GALVANIZED IRON AND CAST BRONZE



Fig. 358

40

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
1/8	\$.12	\$.17	3/4	1 3/8	1 3/4
1/4	.15	.20	3/4	1 3/4	2
5/16	.20	.25	1	1 3/4	3
3/8	.25	.35	1	2	3 1/2
1/2	.30	.50	1 1/8	2 1/4	5

Galvanized Nut Eye Bolts
DROP FORGED STEEL—LARGE EYE



Without Shoulder—Fig. 522



With Shoulder—Fig. 523

40

Length of Shank Inches	Without Shoulder			With Shoulder				
	¼ in.	½ in.	¾ in.	¼ in.	⅝ in.	¾ in.	⅞ in.	1 in.
2	\$.14							
2¼		\$.16						
2½			\$.18					
3	.20	.24	.28					
3¼				\$.25				
4	.20	.24	.28	.40	\$.45			
4¼		.24						
4½			.28				\$.70	
5	.21	.25	.30	.40	.60	.95	\$1.00	
6	.22	.26	.32	.40	.60	.95	1.35	\$1.50
7			.34	.42	.63	.99	1.35	
8			.36	.44	.66	1.03	1.35	1.90
9								1.90
10				.48	.72	1.11	1.45	1.96
12					.78	1.19	1.55	2.08
15					.87	1.31	1.70	2.26
18					.96	1.43	1.85	2.44
20						1.51	1.95	2.56

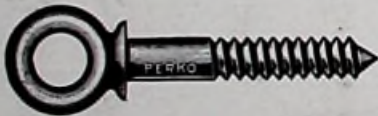
NOTE—For inside diameter of eye see Figs. 500 and 501 below.

Galvanized Screw Eye Bolts

DROP FORGED STEEL
LARGE EYE



Without Shoulder—Fig. 500



With Shoulder—Fig. 501

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
¼x2	\$.10	½	6
⅜x2¼	.12	⅝	12¾
½x2½	.14	¾	17
½x3¼	.20	1	43
⅝x4	.35	1¼	92
¾x4½	.60	1½	146
¾x5	.85	1¾	221
1 x6	1.25	2	325
1¼x8	2.25	2½	575

Bronze Eye Bolts

WITH SHOULDER
LARGE EYE



Nut Eye Bolts—Fig. 1166



Screw Eye Bolts—Fig. 1167

33 1/3

Size Inches	Fig. 1166		Fig. 1167	
	Plain Bronze Each	Polished Bronze Each	Plain Bronze Each	Polished Bronze Each
¼x2	\$.45	\$.50	\$.45	\$.50
¼x4	.55	.60		
⅜x2¼	.50	.60	.50	.60
⅝x4¼	.65	.75		
¾x2½	.60	.70	.60	.70
¾x4½	.75	.85		
½x3¼	.90	1.00	.90	1.00
½x6	1.15	1.25		
⅝x4	1.50	1.75	1.50	1.75
⅝x6	1.75	2.00		

Sizes are: 1st, Diameter Shank; 2nd, Length Shank.

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

Galvanized Nut Ring Bolts

DROP FORGED STEEL



Without Shoulder—Fig. 620



With Shoulder—Fig. 621

— 40 —

Length of Shank Inches	Diameter of Shank							
	¼ in.	⅝ in.	¾ in.	½ in.	⅝ in.	¾ in.	⅝ in.	1 in.
2	\$.30							
2¼		\$.35						
2½			\$.40					
3	.35	.40	.50					
3¼				\$.55				
4	.35			.70				
4¼		.40						
4½			.50				\$1.35	
5	.36	.41	.52	.70	1.00			\$2.00
6	.37	.42	.54	.70	1.00	1.60		\$2.90
7			.56	.72	1.03	1.64		
8			.58	.74	1.06	1.68	2.35	
9								3.30
10				.78	1.12	1.76	2.45	3.36
11								
12					1.18	1.84	2.55	3.48

NOTE—For inside diameter of ring see Figs. 618 and 619 below.

Galvanized Screw Ring Bolts

DROP FORGED STEEL



Without Shoulder
Fig. 618



With Shoulder
Fig. 619

Size Inches	Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
¼x2	\$.25	1¾	14
⅕x2¼	.30	2	25
⅜x2½	.35	2	40
½x3¼	.50	2½	90
⅝x4	.85	2¾	167
¾x4½	1.35	3	254
⅞x5	2.00	3¼	408
1 x6	2.90	3¾	596
1¼x8	5.75	5	1125

Bronze Ring Bolts

WITH SHOULDER



Nut Ring Bolts
Fig. 1168



Screw Ring Bolts
Fig. 1169

Size Inches	Plain Bronze Each	Polished Bronze Each	I. D. Ring Inches
¼x2	\$.65	\$1.00	1¾
⅕x2¼	.75	1.15	2
⅜x2½	.90	1.30	2
½x3¼	1.75	2.25	2½
⅝x4	2.85	3.50	2¾

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

Connecting Links

DROP FORGED STEEL



Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
1/8	\$1.50	\$1.15	1 1/8 x 3/4	3/8
1/4	1.50	1.15	1 1/2 x 1	3/4
5/16	1.65	1.20	1 1/4 x 1 1/8	1
3/8	2.00	1.50	2 1/8 x 1 3/8	2
7/16	2.40	1.80	2 3/8 x 1 1/2	3 1/8
1/2	2.90	2.00	2 3/8 x 1 3/4	4 1/2
5/8	3.90	2.70	3 x 1 7/8	6 3/8
3/4	4.50	3.20	3 1/8 x 2 1/8	9
7/8	5.50	4.10	3 1/2 x 2 1/8	11
1	6.00	4.50	3 7/8 x 2 1/2	14 1/4
1 1/8	9.25	6.75	4 1/2 x 2 7/8	20 1/4
1 1/4	14.00	11.00	5 x 3 1/4	29
1 1/2	16.50	13.50	5 3/8 x 3 1/2	40
1 3/4	21.50	17.50	6 1/8 x 4	53 1/2
1 7/8	27.00	24.50	6 3/4 x 4 3/4	75
2	34.00	30.00	7 1/4 x 5 1/8	103
2 1/4	41.00	37.00	8 x 5 1/2	131
2 1/2	92.00	59.00	9 x 6 1/4	216

Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Price Per Doz.	Inside Dimensions of Link Inches	Size Inches	Price Per Doz.	Inside Dimensions of Link Inches
3/8	\$.40	1 x 1/2	3/8	\$1.35	1 1/8 x 1 1/8
1/4	.47	1 1/2 x 1/2	7/16	1.85	2 x 7/8
5/16	.94	1 1/2 x 3/8	1/2	2.10	2 x 1

Brass Stove Bolts

ROUND HEAD AND FLAT HEAD



Fig. 709



Fig. 1091

PER HUNDRED, WITH NUTS

Length Inches	Diameter Inches			%
	3/16	1/4	5/16	
1 1/2	\$3.15	\$ 5.45	\$ 9.70	\$13.50
2	3.80	6.35	11.10	15.50
2 1/2	4.50	7.25	12.75	17.75
3	5.25	8.20	14.45	20.60
3 1/2		9.25	16.30	23.45
4		10.30	18.15	26.50
5		12.40	21.70	32.35
6		14.40	25.15	38.15

Swing Links

DROP FORGED STEEL WITH INTERLOCKING LUGS

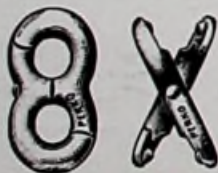


Fig. 784

Size Inches	Galvanized Per Dozen	Self Colored Per Dozen	Outside Dimensions Inches	Wt. Per Dozen in Lbs.
1/4	\$ 2.40	\$ 2.20	7/8 x 1 3/8	3/4
5/16	2.90	2.40	1 1/8 x 2 1/8	1 1/2
3/8	3.40	2.70	1 1/4 x 2 1/2	2 1/4
7/16	4.60	3.50	1 3/8 x 2 7/8	3 1/4
1/2	5.75	4.30	1 3/8 x 3 1/8	5 1/4
5/8	9.00	7.50	1 7/8 x 3 1/4	7 3/4
3/4	9.75	8.00	2 1/8 x 4 1/8	11
7/8	13.00	11.00	2 3/8 x 4 3/8	19 1/4
1	20.50	17.00	2 3/8 x 5 3/4	30 1/2
1 1/8	24.50	20.50	3 1/4 x 6 1/8	43 1/2

Chromium Plated Wood Screws

BRASS—FLAT HEAD

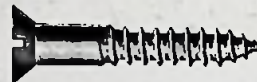


Fig. 1110

PER GROSS

No.	Length Inches					
	1/2	5/8	3/4	7/8	1	1 1/4
4	\$1.80					
5	1.90	\$2.00	\$2.10	\$2.30	\$2.40	
6	2.00	2.20	2.30	2.40	2.60	\$2.80
7	2.20	2.40	2.40	2.60	2.80	3.00
8	2.40	2.60	2.60	2.80	3.00	3.20
9			2.80	3.00	3.20	3.60
10			3.00	3.20	3.50	4.00
11					3.80	4.20
12					4.00	4.70
14						5.80

No.	Length Inches					
	1 1/2	1 3/4	2	2 1/2	3	3 1/2
6	\$3.00					
7	3.30					
8	3.60	\$4.40	\$4.80			
9	4.00	4.80	5.40			
10	4.40	5.20	5.80	\$7.20		
11	4.70	6.00	6.40	7.80		
12	5.20	6.60	7.00	8.60	\$9.60	\$11.40
14	6.20	8.20	8.80	10.20	11.40	13.20
16			10.60	12.60	14.00	16.00
18				14.60	16.80	19.00

Only the above sizes are carried in stock, all other sizes—price on application.

Bronze Machine Bolts

HOT FORGED
HEX HEAD—HEX NUT



Fig. 726

PRICE PER HUNDRED

Length Under Head Inches	Diameter of Bolts Inches					
	¼	⅝	¾	⅞	1	1 1/8
2	\$13.00	\$15.30	\$17.45	\$20.50	\$23.10	
2 1/2	13.50	16.10	18.25	21.50	24.30	
3	14.00	16.90	19.05	22.50	25.50	\$37.80
3 1/2	14.50	17.70	19.85	23.50	26.70	
4	15.00	18.50	20.65	24.50	27.90	41.80
4 1/2		19.30	21.45		29.10	
5	16.00	20.10	22.25	26.50	30.30	45.80
5 1/2		20.90	23.05		31.50	
6		21.70	23.85	28.50	32.70	49.80
8				37.50	57.80	

Bronze Carriage Bolts

HOT FORGED
ROUND HEAD—HEX NUT



Fig. 728

PRICE PER HUNDRED

Length Under Head Inches	Diameter of Bolts Inches					
	¼	⅝	¾	⅞	1	1 1/8
1 1/2	\$12.00	\$14.50				
2	12.50	15.30	\$16.80	\$21.00	\$23.00	
2 1/2	13.00	16.10	17.60		24.30	
3	13.50	16.90	18.40	23.00	25.60	\$44.50
3 1/2	14.00	17.20	19.20		26.90	
4	14.50	18.00	20.00	25.00	28.20	48.50
4 1/2	15.00	18.80	21.80		29.50	
5	15.50	19.60	22.60	27.00	30.80	52.50
5 1/2	16.00	20.40	23.40		32.10	
6	16.50	21.20	24.20	29.00	33.40	56.50
7		23.20	26.20		36.40	
8		25.20	28.20		39.40	66.50
10			32.20		45.40	76.50

Bronze Lag Screws

HOT FORGED
SQUARE HEAD—GIMLET POINT



Fig. 727

PRICE PER HUNDRED

Length Under Head Inches	Diameter of Screw Inches					
	¼	⅝	¾	⅞	1	1 1/8
1 1/2	\$11.00	\$12.00	\$12.90			
2	11.50	12.50	13.25	\$16.20	\$17.75	
2 1/2	12.00	13.15	14.20	17.05	18.85	
3	12.50	13.80	15.00	17.90	20.00	\$30.00
3 1/2	13.00	14.45	15.80	18.75	21.20	
4	13.50	15.10	16.60	19.60	22.40	34.00
4 1/2		15.75	17.40	20.50	23.60	
5	14.50	16.40	18.20	21.50	24.80	38.00
5 1/2			19.00	22.50	26.10	
6	15.50	17.70	19.80	23.50	27.40	42.00
7			21.40	25.50	30.00	46.00
8			23.00	27.50	32.60	50.00
10			26.20	37.80	58.00	

Bronze Hanger Bolts

HOT FORGED
HEX NUT—GIMLET POINT



Fig. 729

PRICE PER HUNDRED

Length Overall Inches	Diameter of Screws Inches					
	¼ & ⅝	¾	⅞	1	1 1/8	1 1/4
2	\$16.00					
2 1/2	16.50	\$17.00		\$23.20		
3	17.00	17.00	\$20.00	23.20	\$32.00	
3 1/2	17.80	17.80	21.00	24.40		
4	18.60	18.60	22.00	25.60	36.00	
5		20.20	24.00	28.00	40.00	\$56.40
6		21.80	26.00	30.40	44.00	62.20
7		23.40	28.00	32.80	48.00	
8		25.00		35.20	52.00	73.40
10		28.20		40.00	60.00	84.80
12						96.20

DIAMETERS AND LENGTHS NOT LISTED ARE NOT CARRIED IN STOCK BUT CAN BE FURNISHED. PRICE AND DELIVERY ON APPLICATION.



Galvanized Machine Bolts



Fig. 1078

Cut Thread—Square Head and Square Nut

Length Inches	PRICE PER 100 PIECES						
	Diameter Inches						
	¼	⅜	½	⅝	¾	⅞	1
1	\$1.15	\$1.75	\$2.35	\$3.95	\$4.60		
1¼	1.25	1.80	2.45	4.10			
1½	1.30	1.95	2.60	4.25	5.00		
2	1.50	2.20	2.90	4.55	5.35	\$9.10	\$11.60
2½	1.70	2.45	3.20	4.85	5.75	9.60	12.25
3	1.85	2.70	3.50	5.20	6.15	10.10	12.90
3½	2.05	2.95	3.80	5.50	6.50	10.60	13.55
4	2.50	3.15	4.10	5.85	6.85	11.10	14.20
4½	2.65	3.60	4.40	6.15	7.25	11.60	
5	2.80	3.80	4.80	6.50	7.65	12.10	15.50
5½	2.95	4.00	5.10	6.85	8.05	12.60	
6	3.10	4.20	5.40	7.15	8.45	13.10	16.80
6½	3.80	5.10	6.50	9.20	10.15	13.60	
7	4.00	5.35	6.85	9.65	10.60	14.10	18.10
7½			7.15		11.05		
8	4.35	5.80	7.50	10.55	11.50	15.10	19.40
8½			7.80		11.95		
9			8.15		12.40	16.10	20.70
9½					12.85		
10			8.80		13.30	17.10	22.00
11			9.50		14.70		
12			10.20		15.60	19.10	24.60
14					17.40	21.10	27.20
16					19.20	23.10	29.80
18					21.00	25.10	32.40
20					22.80	27.10	35.00

We stock Galvanized Bolts only. Plain Bolts (not Galvanized) furnished to order.

Diameters and lengths not listed are not carried in stock but can be furnished. Price and delivery on application.

Naval Bronze Strut Bolts

OVAL COUNTERSUNK HEADS—SLOTTED WITH BRASS HEX NUTS AND WASHERS



Fig. 1111

Diameter Inches	Length Inches	Each
⅜	4	\$.22
⅜	5	.30
¾	4	.35
¾	5	.40
¾	6	.50
½	5	.60
½	6	.70
¾	6	.95

Galvanized Carriage Bolts

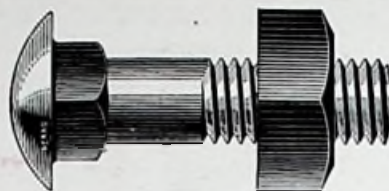


Fig. 1079

Cut Thread—Square Nut

Length Inches	PRICE PER 100 PIECES						
	Diameter Inches						
	⅜ & ¼	⅝	¾	⅞	1	1¼	1½
¾	\$1.05						
1	1.10	\$1.65	\$2.10			\$4.25	
1¼	1.15	1.70	2.20				
1½	1.20	1.80	2.35			4.60	
2	1.35	2.00	2.60	\$4.05	4.95	\$9.10	
2½	1.55	2.25	2.90	4.40	5.35	9.60	
3	1.70	2.50	3.20	4.75	5.75	10.10	
3½	1.85	2.75	3.50	5.10	6.15	10.60	
4	2.30	2.95	3.80	5.40	6.55	11.10	\$15.70
4½	2.45	3.40	4.10	5.75	6.95	11.60	
5	2.60	3.60	4.50	6.10	7.35	12.10	17.00
5½	2.75	3.85	4.80	6.45	7.80	12.60	
6	2.90	4.05	5.10	6.80	8.20	13.10	18.30
6½	3.65	4.90	6.30		9.75		
7	3.85	5.15	6.65		10.20	14.10	19.60
7½	4.00	5.35	6.95		10.65		
8	4.20	5.60	7.30	9.60	11.10	15.10	20.90
8½			7.60		12.05		
9		6.05	7.95		12.50	16.10	22.20
10		6.50	8.60		13.40	17.10	23.50
11			9.30		14.30	18.10	
12			10.00		15.20	19.10	
13					16.10		
14					17.00		
15					17.90		
16					18.80		
17					19.70		
18					20.60		

⅜ inch size carried in stock up to 4 inches long.

Galvanized Lag Screws



Fig. 1080

Cut Thread—Square Head—Gimlet Point

Length Inches	PRICE PER 100 PIECES						
	Diameter Inches						
	¼ & ⅜	½	⅝	¾	1	1¼	1½
1	\$2.35	\$2.85					
1½	2.15	2.60	\$3.90	\$4.85			
2	2.35	2.85	3.55	4.45	\$7.40		
2½	2.55	3.10	3.90	4.85			
3	2.80	3.40	4.30	5.30	7.50		
3½	3.05	3.70	4.70	5.75			
4	3.30	4.00	5.10	6.20	8.80	\$13.70	
4½	3.55	4.30	5.50	6.65			
5	3.80	4.65	5.90	7.10	10.10	15.50	
5½	4.05	5.00		7.55			
6	4.35	5.35	6.70	8.00	11.40	17.30	
6½				8.45			
7		6.05		8.90	12.70	19.10	
8		6.75		9.80	14.00	20.90	
9				10.70	15.20		
10				11.60	16.40	24.40	
12					19.00	28.10	



Hexagon Brass Nuts
TAPPED U. S. STANDARD THREADS



Fig. 730

- 25%

Bolt Diameter	U. S. S. Standard			List Price Per Hundred	
	Threads Per Inch	Width (Inches)	Thickness (Inches)	Milled Semi-Finished	Cast
1/4	20	1/2	1/4	\$2.40	....
5/16	18	11/16	5/16	3.20	....
3/8	16	1 1/8	3/8	5.20	....
7/16	14	1 1/4	7/16	7.20	....
1/2	13	1 3/8	1/2	9.60	\$5.00
5/8	12	1 1/2	5/8	15.00	7.00
3/4	11	1 5/8	3/4	17.00	8.75
7/8	10	1 3/4	7/8	27.00	12.00
1	9	1 7/8	1	45.00	18.00
1 1/8	8	2	1 1/8	68.00	25.00
1 1/4	7	2 1/8	1 1/4	....	37.50
1 3/8	7	2 1/4	1 3/8	....	50.00
1 1/2	6	2 3/8	1 1/2	....	65.00
1 5/8	6	2 1/2	1 5/8	....	75.00
1 3/4	5 1/2	2 5/8	1 3/4	....	125.00
1 7/8	5	2 3/4	1 7/8	....	150.00
2	5	2 7/8	2	....	175.00
	4 1/2	3 1/8	2	....	250.00

Brass Washers



2ct

Fig. 731

Bolt Size	Outside Diameter	Inside Diameter	Thickness	Price Per Pound	Bolt Size
1/8	1/2	.195	.040	\$.80	1/8
1/4	5/8	3/8	.051	.75	1/4
3/8	7/8	1/2	.064	.75	3/8
1/2	1	3/4	.081	.70	1/2
5/8	1 1/8	1	.091	.70	5/8
3/4	1 1/4	1 1/8	.091	.70	3/4
7/8	1 3/8	1 1/4	.102	.70	7/8
1	1 1/2	1 1/2	.114	.70	1
	1 5/8	1 3/4	.128	.70	
	2	1 7/8	.144	.70	
	2 1/4	2			
	2 1/2	2 1/8			

Wrought Steel Washers

HOT GALVANIZED—U. S. STANDARD SIZES



Fig. 1083

Square Iron Nuts
HOT GALVANIZED AND PLAIN
TAPPED U. S. STANDARD THREAD



Fig. 1084

Bolt Diam. Inches	Weight Per M In Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M In Lbs.	Price Per 100
1/4	13.8	\$.55	3/4	237.1	\$ 4.60
5/16	22.8	.75	7/8	371.0	7.20
3/8	37.4	1.05	1	518.1	10.00
7/16	55.7	1.50	1 1/8	725.4	14.00
1/2	78.6	2.00	1 1/4	957.0	19.60
5/8	109.8	2.80	1 3/8	1257.6	33.50
3/4	147.0	3.25	1 1/2	1604.9	45.20

For Bolts Inches	Outside Diam. Inches	Size Hole Inches	Thick-ness Gauge Nos.	Thick-ness Inches	Number in 100 Pounds	Per Pound
3/16	9/16	1/4	18	3/64	36200	\$.38
1/4	3/4	5/16	16	1/16	14900	.33
5/16	7/8	3/8	16	1/16	11100	.33
3/8	1	7/16	14	5/64	6700	.21
7/16	1-1/4	1/2	14	5/64	4100	.20
1/2	1-3/8	9/16	12	7/64	2600	.19
9/16	1-1/2	5/8	12	7/64	2200	.19
5/8	1-3/4	11/16	10	1/8	1300	.18
3/4	2	13/16	10	1/8	1000	.18
7/8	2-1/4	15/16	9	5/32	728	.18
1	2-1/2	1-1/16	9	5/32	595	.18

Hexagon Iron Nuts
HOT GALVANIZED AND PLAIN
TAPPED U. S. STANDARD THREAD



Fig. 1085

Bolt Diam. Inches	Weight Per M In Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M In Lbs.	Price Per 100
1/4	12.2	\$.65	3/4	202.3	\$ 5.10
5/16	19.9	.90	7/8	314.1	8.00
3/8	32.7	1.20	1	441.4	11.15
7/16	48.4	1.75	1 1/8	617.2	15.55
1/2	68.4	2.25	1 1/4	819.3	21.40
5/8	97.2	3.10	1 3/8	1077.5	28.80
3/4	122.3	3.60	1 1/2	1371.0	38.70

Brass Spring Cotter Pins



Fig. 703

Length Inches	PRICE PER 100 Diameter Inches				
	1/8	3/8	1/2	5/8	1
1	\$.70	\$.75	\$.90	\$1.35	
1 1/2	.85	.90	1.20	1.80	\$2.60
2	1.05	1.10	1.50	2.20	3.30
2 1/2			1.90	2.80	4.00



Flexible Wire Tiller Rope

GALVANIZED AND BRONZE



Fig. 760

Composed of 6 ropes and a hemp center. Each rope has 6 strands of 7 wires each and a cotton center.

Diam. Inches	Galvanized Price Per Foot	Bronze Price Per Foot
1/8	\$.04	\$.06
1/8	.12	.15
1/4	.13	.17
1/4	.14	.20
3/8	.15	.28
1/2	.20	.40

Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

Diam. Inches	Price Per Foot
1/8	\$.05
1/4	.06
1/4	.08
3/8	.11

All above rigging and tiller rope can be furnished in 250 and 500 foot reels.

Galvanized Iron Rigging

FOR GUY ROPES



Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

Diam. Inches	Circumference Inches	Price Per Foot
1/8	3/8	\$.04
1/8	1/2	.04
1/4	3/4	.04
1/4	1	.06
3/8	1 1/8	.08

Tiller Rope Sheaves

GALVANIZED IRON AND BRASS COMMON BUSHED



Fig. 806

Size Sheave Inches	Size Pin Inches	Galvanized Iron Each	Plain Brass Each	Size of Rope Inches
1 1/4 x 1/8	3/4 or 1/2	\$.30	\$.60	1/4
2 x 1/8	3/4 or 1/2	.30	.65	1/4
2 1/2 x 3/8	3/4 or 1/2	.35	.70	1/4
2 1/2 x 1/2	1/2 or 3/8	.35	.70	1/4
3 x 1/8	1/2 or 3/8	.45	.90	3/8
3 x 1/2	1/2 or 3/8	.45	1.00	3/8
3 1/2 x 1/2	1/2 or 3/8	.50	1.00	3/8
4 x 1/2	3/8 or 1/2	.60	1.40	3/8
4 x 3/4	3/8 or 1/2	.75	1.50	3/8
4 1/2 x 1/2	1/2 or 3/4	.80	1.75	1/2
5 x 3/8	1/2 or 3/4	1.25	2.75	1/2
5 x 1	1/2 or 3/4	1.40	4.00	3/4
6 x 1 1/2	3/4 or 1	1.60	4.00	1/2
6 x 1	3/4 or 1	2.00	4.50	5/8



Fig. 154

GALVANIZED

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
1	\$.12	3/4	5/16	1/8	1/8
2	.15	1	3/8	1/4	1/8
3	.18	1 1/4	3/8	1/4	1/8
4	.20	1 1/2	1/2	3/8	1/8
5	.25	1 3/4	1/2	1/2	1/4
6	.30	2	5/8	1/2	1/4
7	.35	2 1/2	3/4	3/8	1/4
8	.40	3	7/8	3/4	1/4

BRONZE

9	.18	1 1/8	5/16	1/4	5/16
10	.20	3/4	3/8	1/4	1/8
11	.22	3/4	1/2	1/4	1/4
12	.25	7/8	1/2	3/8	1/8
13	.26	1	1/2	3/8	1/4
14	.30	1 1/8	1/2	1/2	1/4
15	.35	1 1/8	5/8	1/2	3/8
16	.35	1 1/4	1/2	1/2	3/8
17	.37	1 3/8	1/2	3/8	1/8
18	.40	1 3/4	1 1/2	3/8	1/4
19	.45	1 7/8	5/8	1/2	3/8
20	.55	2 1/4	1 1/2	3/8	3/8
21	3.50	6	1 1/2	5/8	3/4
22	.70	2	7/16	5/16	5/16

Manila Rope Sheaves

GALVANIZED—COMMON BUSHED



Fig. 807

No.	Galv. Each	Size Sheave Inches	Size Block Inches
1	\$.25	1 3/4 x 1/2 x 3/8	3
2	.30	2 x 1/2 x 3/8	3 1/2
3	.35	2 1/4 x 5/8 x 3/8	4
4	.40	2 1/2 x 3/4 x 3/8	4 1/2
5	.50	3 x 3/4 x 3/8	5
6	.75	3 1/2 x 1 x 1/2	6
7	.90	4 1/4 x 1 x 1/2	7
8	1.25	4 3/4 x 1 1/8 x 3/8	8
9	1.60	5 1/2 x 1 1/8 x 3/8	9
10	2.10	6 1/4 x 1 1/4 x 3/8	10



Tiller Rope Pulley
SWIVEL EYE AND STRAP
CAST BRONZE—PLAIN



Fig. 585

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Plain Bronze Each	For Rope Diam. Inches	Length Overall Inches	Diam. Wheel Inches	Length Strap Inches	Weight Ounces
\$1.15	$\frac{1}{16}$	3½	1¾	2	6

Tiller Rope Pulley
WITH STRAP—CAST BRONZE



Fig. 579

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For Rope Diam. Inches	Length Pulley Inches	Size Wheel Inches	Length Strap Inches	Weight Ounces
$\frac{1}{16}$	1½	1 x $\frac{7}{16}$	1½	3½

Polished Bronze Each	Chromium Plated Each
\$.75	\$1.60

Tiller Rope Guides
SIDE PATTERN—CAST BRONZE

Cast bronze base, brass wheel turned from rod.



Fig. 594

40

For Rope Diam. Inches	Size Base Inches	Weight Oz.
$\frac{1}{16}$	$\frac{1}{2}$ x 1½	1½
Polished Bronze Each		Chromium Plated Each
\$.70		\$1.25

Tiller Rope Guides
GALVANIZED CAST IRON AND BRONZE
Round Plate



Fig. 102

40

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$.20	\$.40	\$.65	\$1.80
2	.30	.50	.75	1.90
3	.40	.60	.90	2.10

Tiller Rope Guides
CAST BRONZE



Fig. 359

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No.	Size Hole Inches	Size Base Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	$\frac{3}{8}$	1¾ x ¾	\$.20	\$.35	\$.85
2	$\frac{1}{2}$	1½ x ¾	.25	.40	.90
3	$\frac{5}{8}$	1¾ x 1¼	.30	.45	1.05

No. 1 size is drop forged-bronze.

Tiller Rope Guides
UPRIGHT PATTERN—CAST BRONZE



Fig. 593

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Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Base Inches	Weight Ounces
\$.75	\$1.25	$\frac{1}{16}$	$\frac{7}{8}$ x 1½	2

Tiller Rope Guides
GALVANIZED CAST IRON AND BRONZE
OVAL PLATE



Fig. 599

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Size No.	Size Hole Inches	Size Base Inches	Galv. Iron Each	Plain Bronze Each	Pol. Bronze Each	Chromium Plated Each
1	$\frac{3}{8}$	1¾ x ¾	\$.12	\$.20	\$.35	\$.85
2	$\frac{1}{2}$	1½ x ¾	.14	.25	.40	.90
3	$\frac{5}{8}$	1¾ x 1¼	.18	.30	.45	1.05

No. 1 size is drop forged bronze.



Fast Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE
SINGLE

Without Becket



Fig. 43

With Becket



Fig. 54

*40
Page*

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Weight Each Pounds
1	\$.12	\$.25	\$.45	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{3}{8}$
3	.18	.30	.55	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{2}$
5	.28	.45	.75	$\frac{3}{8}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{4}$
7	.35	.55	.90	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.50			$\frac{3}{8}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{1}{2}$
11	.70			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{3}{8}$
13	1.00			$\frac{3}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{8}$
15	1.50			$\frac{1}{2}$	$3 \times \frac{3}{8}$	$1\frac{3}{8}$

Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY
FORGED STEEL HOOKS
SINGLE

Without Becket



Fig. 52

With Becket



Fig. 56

Size No.	Galvanized Each	Length of Shell Inches	For Rope Diameter Inches	Weight Each Pounds
1	\$.65	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$
3	.70	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	.80	2	$\frac{3}{8}$	$\frac{3}{8}$
7	.90	$2\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
9	1.15	3	$\frac{3}{8}$	$\frac{1}{2}$
11	1.50	$3\frac{1}{4}$	$\frac{1}{2}$	1
13	2.00	4	$\frac{5}{8}$	$2\frac{1}{4}$
15	2.75	$4\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$

Fast Eye Blocks

GALVANIZED MALLEABLE IRON
DOUBLE

Without Becket



Fig. 51

With Becket



Fig. 55

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheave Inches	Weight Each Pounds
2	\$.20	\$.45	\$.65	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{4}$
4	.30	.60	.90	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{2}$
6	.45	.80	1.20	$\frac{3}{8}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{4}$
8	.55	1.00	1.50	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
10	.80			$\frac{3}{8}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4}$
12	1.05			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1\frac{1}{4}$
14	1.65			$\frac{3}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{8}$
16	2.50			$\frac{1}{2}$	$3 \times \frac{3}{8}$	$2\frac{3}{4}$

Loose Hook Blocks

GALVANIZED MALLEABLE IRON
DOUBLE

Without Becket



Fig. 53

With Becket



Fig. 58

Size No.	Galvanized Each	Length of Shell Inches	For Rope Diameter Inches	Weight Each Pounds
2	\$.75	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{4}$
4	.85	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
6	1.00	2	$\frac{3}{8}$	$\frac{1}{2}$
8	1.10	$2\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
10	1.45	3	$\frac{3}{8}$	1
12	1.85	$3\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
14	2.65	4	$\frac{5}{8}$	$2\frac{1}{2}$
16	3.75	$4\frac{3}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Single



Fig. 100

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
0	$\frac{1}{8}$	1	$\frac{1}{2}$	$\frac{1}{2}$
1	$\frac{3}{16}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
3	$\frac{1}{4}$	$1\frac{3}{4}$	1	2
5	$\frac{5}{16}$	2	$1\frac{1}{4}$	$2\frac{7}{8}$
7	$\frac{3}{8}$	$2\frac{1}{4}$	$1\frac{1}{2}$	4 $\frac{1}{8}$

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
0	\$.13	\$.45	\$.65
1	.15	.45	.65
3	.25	.50	.75
5	.35	.70	1.00
7	.50	.80	1.25

Heavy Steering Rope Pulleys

CAST BRONZE—PLAIN FOR WIRE ROPE

The sturdy construction answers the demand for a larger and stronger tiller rope pulley. The sheave pin is $\frac{3}{4}$ inch diameter bronze rod.

SIDE PATTERN



Fig. 962

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Length of Plate Inches
\$9.75	$\frac{5}{8}$	6	9

UPRIGHT PATTERN

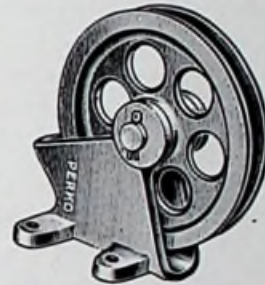


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches
\$9.75	$\frac{5}{8}$	6	$7\frac{1}{2}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Double



Fig. 101

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
00	$\frac{1}{8}$	1	$\frac{1}{2}$	$1\frac{1}{8}$
2	$\frac{3}{16}$	$1\frac{1}{4}$	$\frac{3}{4}$	$2\frac{1}{4}$
4	$\frac{1}{4}$	$1\frac{3}{4}$	1	$3\frac{3}{8}$
6	$\frac{5}{16}$	2	$1\frac{1}{4}$	$4\frac{1}{2}$
8	$\frac{3}{8}$	$2\frac{1}{4}$	$1\frac{1}{2}$	7

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
00	\$.20	\$.55	\$.75
2	.25	.60	.80
4	.35	.80	1.10
6	.50	1.65	1.90
8	.70	.....	.....

Side Pulleys

GALVANIZED CAST IRON AND BRONZE



Fig. 97

Size No.	Galv. Each	Pol. Bronze Each	Size Base Inches	Diam. Rope Inches	Weight Per Doz. in Lbs.
1	\$.25	\$.60	$\frac{3}{4} \times 2\frac{1}{8}$	$\frac{1}{4}$	$1\frac{3}{8}$
2	.35	.70	$\frac{7}{8} \times 2\frac{1}{8}$	$\frac{1}{4}$	2
3	.45	.90	$1 \times 3\frac{1}{8}$	$\frac{3}{8}$	$3\frac{1}{4}$

Blocks on Plates

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 107

Size No.	Galv. Each	Plain Brass Each	Pol. Brass Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$.55	\$1.20	\$1.75	$\frac{1}{4}$	Swivel Eye	20
5	.65	1.40	2.00	$\frac{3}{8}$	Swivel Eye	35
7	1.00	1.60	2.35	$\frac{1}{2}$	Swivel Eye	66
9	1.10	.....	.....	$\frac{3}{4}$	Fast Eye	72

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE
SINGLE

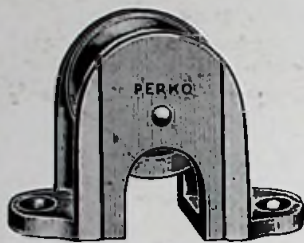


Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$.30	\$.20	\$.60	\$.90	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{3}{8}$
1	.40	.25	.75	1.00	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.65	.50	1.10	1.75	$\frac{1}{2}$	$2 \times \frac{3}{8}$
5	1.20	.95	2.25	2.75	$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$
7	1.90	1.50	3.25	4.00	$\frac{3}{4}$	$3 \times \frac{7}{8}$

Bell Chain Leaders

CAST BRONZE—PLAIN



Upright Type—Fig. 912

Diam. Sheave Inches	Width of Groove Inches	Single Sheave Each
2	$\frac{1}{8}$	\$1.25
$3\frac{1}{2}$	$\frac{1}{4}$	2.10



Flat Type—Fig. 913

Double Sheave Each	Triple Sheave Each	Quadruple Sheave Each
\$1.80	\$3.00	\$4.25
2.75	4.25	6.00

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE
DOUBLE

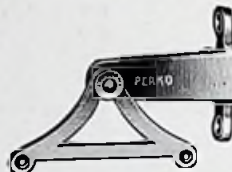


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$.70	\$.50	\$1.25	\$1.75	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
4	1.25	1.00	1.90	2.75	$\frac{1}{2}$	$2 \times \frac{3}{8}$
8	3.00	2.50			$\frac{3}{4}$	$3 \times \frac{7}{8}$

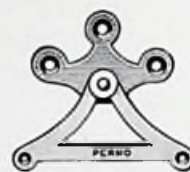
Bell Cranks

CAST BRONZE—PLAIN



Upright Type—Fig. 910

No.	Upright Type Each
1	\$.85
2	1.05
3	1.50



Side Type—Fig. 911

Side Type Each	Length of Crank Inches
\$.75	3
.85	$3\frac{1}{4}$
1.00	$3\frac{3}{4}$

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE
SINGLE



Fig. 95

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$.30	\$.60	\$.85	$\frac{1}{4}$	$1 \times \frac{3}{8}$
1	.35	.75	1.00	$\frac{1}{8}$	$1\frac{3}{8} \times \frac{1}{4}$
2	.45	.85	1.25	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.90	1.35	1.90	$\frac{1}{2}$	$2 \times \frac{3}{8}$
4	1.50	1.90	2.65	$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$
5	2.00			$\frac{3}{4}$	$3 \times \frac{7}{8}$
6	3.50			$\frac{7}{8}$	$3\frac{1}{2} \times 1$

Brass Telegraph or Bell Chain

Links are stamped from heavy gauge brass, fastened together by brass rivets, which are finished flush with side of link. Furnished in any continuous length desired, complete with end links both ends.

Made to comply with U. S. Navy Specifications.



Fig. 275

Price Per Foot	Length of Links Inches	Thickness Overall Inches	Pitch Inches	Weight per Foot Ounces
\$.65	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$3\frac{1}{2}$

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
11	\$.75	\$1.20	\$1.60	$\frac{1}{8}$	$1\frac{3}{8} \times \frac{1}{4}$
12	1.10	1.75	2.00	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
13	1.65	2.60	3.25	$\frac{1}{2}$	$2 \times \frac{3}{4}$

Deck Blocks

FOR WIRE ROPE

GALVANIZED MALLEABLE IRON AND BRONZE

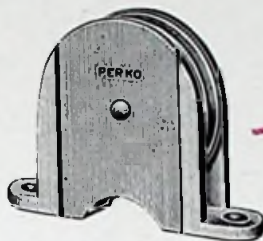


Fig. 139

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	1/4 - 1/8	1 7/8 x 1 1/4	5/8
2	1.10	2.25	3.00	3/8	3 x 1 1/8	1 3/8
3	2.00	4.00	5.25	1/2	4 x 3/8	2 3/4
3 1/2	3.00			1/2	4 1/2 x 3/4	4 1/4
4	3.50			5/8	5 x 3/8	5 1/4
5	5.25			3/4	6 x 1	11

Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON AND BRONZE

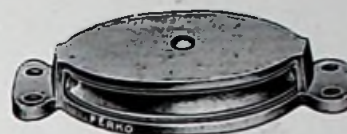


Fig. 140

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	1/4 - 1/8	1 1/2 x 1 1/8	3/8
2	.95	2.25	3.00	3/8	3 x 1 1/8	1 3/8
3	1.75	4.00	5.25	1/2	4 x 3/8	2 3/4
3 1/2	2.25			1/2	4 1/2 x 3/4	4 1/4
4	2.75			5/8	5 x 3/8	5 1/4
5	4.75			3/4	6 x 1	11

40

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE
SINGLE—SIDE PATTERN



Fig. 194

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.70	\$1.50	1/8	2 1/2 x 3/8	1 1/2
2	1.00	2.00	1/4	3 1/4 x 1/2	1 1/4
3	2.00	3.00	1/2 - 3/8	4 1/2 x 1 1/8	2 3/8

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE
DOUBLE—SIDE PATTERN



Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
11	\$1.15	\$2.25	1/8	2 1/2 x 3/8	1 1/8
12	1.75	3.00	1/4	3 1/4 x 1/2	2
13	3.25	4.25	1/2 - 3/8	4 1/2 x 1 1/8	4 1/4

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE
SINGLE—UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
10	\$.70	\$1.50	1/8	2 1/2 x 3/8	3/8
20	1.00	2.00	1/4	3 1/4 x 1/2	1 1/2
30	2.00	3.00	1/2 - 3/8	4 1/2 x 1 1/8	2 1/2

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE
DOUBLE—UPRIGHT PATTERN



Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
110	\$1.15	\$2.25	1/8	2 1/2 x 3/8	1 1/8
120	1.75	3.00	1/4	3 1/4 x 1/2	2
130	3.25	4.25	1/2 - 3/8	4 1/2 x 1 1/8	4 1/4



BRONZE BLOCKS FOR SAIL BOATS

WITH INTERCHANGEABLE FITTINGS
 DROP FORGED BRONZE SHELLS AND SHEAVES
 PLAIN BUSHED

Drop forged bronze shells and sheaves give great tensile strength, light weight, free turning sheaves and fine smooth finish in plain or polished, free from sand holes or rough inside surfaces.

Fittings are easily interchangeable in single and double blocks. When block and fitting is assembled, pin end should be peened over to make permanent fitting.



Block only with Removable Screw Pin No Becket

Size No.	Length Shell Inches	Width Shell Inches	Size of Sheave Inches	For Rope Diam. Inches
0	2 1/8	1 1/4	1 1/8 x 1/8	3/8
1	2 3/8	1 1/4	1 3/8 x 1/2	3/8
2	3 1/8	2	1 7/8 x 3/8	1/2



With Becket

DIMENSIONS

Front Shackle Block



Fig. 851

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Shackle with Link Each
0	\$1.50	\$1.65	\$.95	\$.65
1	1.80	2.00	1.20	.75
2	2.50	2.75	1.75	.95
DOUBLE				
0	2.40	2.65	1.75	.85
1	3.15	3.50	2.35	1.10
2	4.25	4.75	3.40	1.30

Side Shackle Block



Fig. 854

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Shackle with Link Each
0	\$1.50	\$1.65	\$.95	\$.65
1	1.80	2.00	1.20	.75
2	2.50	2.75	1.75	.95
DOUBLE				
0	2.40	2.65	1.75	.85
1	3.15	3.50	2.35	1.10
2	4.25	4.75	3.40	1.30

Upset Front Shackle Block



Fig. 852

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Shackle with Link Each
0	\$1.50	\$1.65	\$.95	\$.65
1	1.80	2.00	1.20	.75
2	2.50	2.75	1.75	.95
DOUBLE				
0	2.40	2.65	1.75	.85
1	3.15	3.50	2.35	1.10
2	4.25	4.75	3.40	1.30

Upset Side Shackle Block



Fig. 855

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Shackle with Link Each
0	\$1.50	\$1.65	\$.95	\$.65
1	1.80	2.00	1.20	.75
2	2.50	2.75	1.75	.95
DOUBLE				
0	2.40	2.65	1.75	.85
1	3.15	3.50	2.35	1.10
2	4.25	4.75	3.40	1.30

Loose Side or Front Hook Block



Fig. 853

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Shackle with Link Each
0	\$1.50	\$1.65	\$.95	\$.65
1	1.80	2.00	1.20	.75
2	2.50	2.75	1.75	.95
DOUBLE				
0	2.40	2.65	1.75	.85
1	3.15	3.50	2.35	1.10
2	4.25	4.75	3.40	1.30

State whether Side or Front Hook is desired.

Block With Eye Strap



Fig. 861

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Strap with Link Each
0	\$1.50	\$1.65	\$.95	\$.65
1	1.80	2.00	1.20	.75
2	2.50	2.75	1.75	.95
DOUBLE				
0	2.40	2.65	1.75	.85
1	3.15	3.50	2.35	1.10
2	4.25	4.75	3.40	1.30

FOR PLAIN FINISH BLOCKS ONLY WITH PIN OR FITTING ONLY DEDUCT 10% FROM POLISHED PRICES.
 FOR SIZE OF SHEAVE AND ROPE, REFER TO TOP OF PAGE
 SPECIFY SINGLE OR DOUBLE, WITH OR WITHOUT BECKET.

Snap Shackle Block

SIDE OR FRONT TYPE



Fig. 857

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Shackle with Link Each
SINGLE				
0	\$2.50	\$2.75	\$.95	\$1.75
1	3.00	3.35	1.20	2.10
2	4.00	4.50	1.75	2.75
DOUBLE				
0	3.40	3.75	1.75	2.00
1	4.35	4.85	2.35	2.45
2	5.85	6.50	3.40	3.05

Open Snatch Block

SINGLE ONLY



Fig. 856

No.	Complete Only	
	Plain Each	Polished Each
0	\$1.65	\$1.85
1	2.05	2.25
2	3.00	3.35

Self Locking Bridle Block

FOR PEAK HALYARD



Fig. 858

No.	Complete Only	
	Plain Each	Polished Each
SINGLE ONLY		
1	\$3.40	\$3.75
2	4.50	4.95

Bridle Only see Fig. 877

Link Deck Leader

SINGLE



Fig. 862

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Leader with Link Each
SINGLE				
0	\$1.80	\$2.00	\$.95	\$1.00
1	2.25	2.50	1.20	1.25
2	3.15	3.50	1.75	1.70
DOUBLE				
0	2.70	3.00	1.75	1.20
1	3.60	4.00	2.35	1.60
2	4.95	5.50	3.40	2.05

Main Sheet Bridle Block

SINGLE ONLY



Fig. 859

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Bridle with Link Each
SINGLE ONLY				
0	\$1.80	\$2.00	\$.95	\$1.00
1	2.25	2.50	1.20	1.25
2	3.15	3.50	1.75	1.70

Halyard Deck Leader

SINGLE



Fig. 863

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Leader with Link Each
SINGLE				
0	\$1.75	\$1.90	\$.95	\$1.00
1	2.10	2.35	1.20	1.10
2	2.95	3.25	1.75	1.45
DOUBLE				
0	2.60	2.90	1.75	1.10
1	3.45	3.85	2.35	1.50
2	4.75	5.25	3.40	1.80

Peak Halyard Bridle Block

SINGLE ONLY



Fig. 860

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Bridle with Link Each
SINGLE ONLY				
1	\$3.30	\$3.65	\$1.20	\$2.40
2	4.25	4.75	1.75	3.00

Swivel Deck Leader

SINGLE

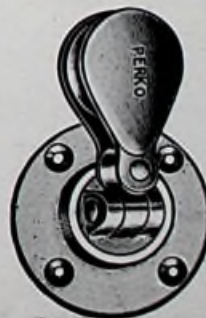


Fig. 864

No.	Complete		Polished	
	Plain Each	Polished Each	Block Only with Pin Each	Base with Link Each
SINGLE				
0	\$2.60	\$2.90	\$.95	\$1.90
1	3.15	3.50	1.20	2.25
2	4.05	4.50	1.75	2.70
DOUBLE				
0	3.50	3.90	1.75	2.10
1	4.50	5.00	2.35	2.60
2	5.85	6.50	3.40	3.05

FOR PLAIN FINISH BLOCKS ONLY WITH PIN OR FITTING. ONLY DEDUCT 10% FROM POLISHED PRICES.
FOR SIZE OF SHEAVE AND ROPE, REFER TO TOP OF PAGE 174.
SPECIFY SINGLE OR DOUBLE, WITH OR WITHOUT BECKET.



Lightweight Main Sheet Blocks
BRONZE



Fig. 432

Lightweight combined with ample strength and low price.

No.	Plain Each	Polished Each	For Diam. Rope Inches	Size Sheave Inches	Weight Ounces
0	\$1.00	\$1.50	$\frac{1}{8}$	$1\frac{1}{8} \times \frac{1}{4}$	3½
1	1.25	1.80	$\frac{1}{8}$	$1\frac{1}{8} \times \frac{1}{2}$	4

With becket, add \$.25 each.

Cheek Blocks
BRONZE—PLAIN BUSHED
SINGLE



Fig. 866

No.	Plain Each	Polished Each	Size Base Inches
0	\$1.50	\$1.65	$2\frac{1}{2} \times 1\frac{1}{4}$
1	1.80	2.00	$2\frac{3}{8} \times 1\frac{1}{2}$
2	2.50	2.75	$3\frac{3}{8} \times 2$

DOUBLE

No.	Plain Each	Polished Each	Size Base Inches
0	\$2.40	\$2.65	$2\frac{1}{2} \times 1\frac{1}{4}$
1	3.15	3.50	$2\frac{3}{8} \times 1\frac{1}{2}$
2	4.25	4.75	$3\frac{3}{8} \times 2$

Improved Centerboard Blocks
BRONZE—PLAIN BUSHED



Fig. 867

SINGLE ONLY

No.	Plain Each	Polished Each	Size Base Inches
0	\$1.50	\$1.65	$1\frac{3}{4} \times 1\frac{1}{4}$
1	1.80	2.00	$2 \times 1\frac{1}{2}$
2	2.50	2.75	$2\frac{3}{8} \times 2$

Centerboard Blocks

GALV. MALLEABLE IRON AND BRONZE



Fig. 827

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Size Rope Inches	Size Sheave Inches
1	\$.80	\$1.50	\$2.00	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
2	1.50	2.50	3.00	$\frac{1}{2}$	$2 \times \frac{3}{8}$

Bullet Blocks

FOR JIB SHEETS AND LEADERS
DROP FORGED BRONZE



Fig. 869

No.	For Rope Diam. Inches	Size Sheave Inches	Plain Each	Polished Each
0	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{4}$	\$.68	\$.75
1	$\frac{1}{8}$	$\frac{3}{8} \times \frac{1}{2}$	.80	.90
2	$\frac{1}{4}$	$1\frac{1}{8} \times \frac{3}{8}$	1.05	1.15
3	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{3}{8}$	1.25	1.40

Jib Halyard Blocks on Strap

BRONZE



Fig. 899

No.	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
0	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{4}$	2½	3½
1	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	2½	4

No.	Plain Each	Polished Each
0	\$.80	\$1.15
1	1.00	1.30

Bullet Blocks On Snap Shackle

BRONZE

FOR JIB SHEETS

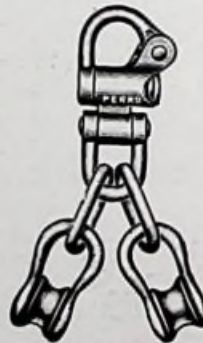


Fig. 870

No.	For Rope Diam. Inches	Lgh. Snap Shackle Inches	Plain Per Set	Polished Per Set
0	$\frac{1}{8}$	2½	\$3.75	\$4.15
1	$\frac{3}{8}$	3¼	4.50	5.00

Open Lead Blocks

FOR GENOA JIB SHEETS
BRONZE



Fig. 868

No.	For Rope Diam. Inches	Size Sheave Inches	Size Base Inches	Plain Each	Polished Each
1	$\frac{3}{8}$	$\frac{3}{8} \times \frac{1}{2}$	$2\frac{1}{2} \times 1$	\$1.80	\$2.00
2	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{3}{8}$	$4 \times 1\frac{3}{8}$	2.70	3.00

All above items furnished CHROMIUM PLATED if desired—Price on Application

Swivel Eye Bullet Blocks

DROP FORGED BRONZE



Fig. 934

With unique patented swivel arrangement, no wear on rope.
For jib sheets or halyards on small sail boats.

Plain Each	Polished Each	Length Shell Inches	Size Sheave Inches	For Diam. Rope Inches	Weight Ounces
\$.90	\$1.40	1 3/8	3/4 x 3/8	1/8	2 1/2

Swivel Eye Block on Plate

BRONZE



Fig. 935

This is our swivel eye bullet block mounted on cast bronze plate for deck leads.

Plain Each	Polished Each	Length Plate Inches	Width Plate Inches	Weight Complete Ounces
\$1.25	\$2.10	2 1/4	3/4	3 1/2

Swivel Eye Block on Slide

BRONZE

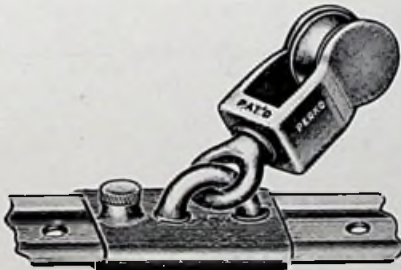


Fig. 936

Our swivel eye bullet block mounted on cast bronze slide for quick and easy adjustment of jib sheet lead.

Slide has large head thumb screw for fastening in position with fingers.

Furnished complete with 24 inches of 5/8 inch nickel silver track.

Plain Each	Polished Each	Length Slide Inches	Width Slide Inches	Weight Complete Ounces
\$2.15	\$3.00	1 3/4	1	7 1/2

Without track deduct \$.50 each.

Bronze Block Shackles

MANGANESE BRONZE



Fig. 893

No.	Size Inches	Plain Each	Polished Each
0	1/8	\$.35	\$.50
1	1/4	.40	.55
2	3/8	.50	.65
3	1/2	.80	1.00

Eye Plates

CAST BRONZE



Fig. 880

No.	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	3 1/8	1 1/2 x 3/4	1 1/8
2	3 1/2	1 1/2 x 3/8	1 1/8
3	4 1/8	3/8 x 1 1/4	3/8
4	4 1/4	1 1/8	1/8

No.	Plain Each	Polished Each
1	\$.75	\$1.25
2	1.00	1.65
3	1.25	2.00
4	1.40	2.15

Eye Straps

DROP FORGED BRONZE



Fig. 881

No.	Length Inches	Size Eye Inches	Stock in Eye Inches
0	2	1/8	1/8
1	2 1/4	3/8	1/4
2	2 3/4	1/2	1/8
3	3 1/8	3/8	1/8

No.	Plain Each	Polished Each
0	\$.25	\$.35
1	.30	.45
2	.35	.50
3	.50	.70

Deck Straps

CAST BRONZE



Fig. 882

No.	Size Eye Inches	Stock in Eye Inches
1	1/2	1/8
2	1/8	3/8
3	3/8	1/8

No.	Plain Each	Polished Each	Length Inches
1	\$.55	\$.70	3 1/2
2	.70	.80	4 1/4
3	.90	1.10	4 3/4

Thimble Shackle

CAST BRONZE



Fig. 1185

A combination thimble and shackle used for connecting shrouds to tangs. Also has many other uses.

Breaking strain 2,000 lbs.

Polished Each	For Wire Inches	Lgth. Inches	Opening Inches	Jaw Inches	Wt. Ounces
\$.60	1/8 to 1/8	2	1/8	1	



Swedish Hooks

HIGH TENSILE SILICA BRONZE

Excellent for sail boats as these can be joined or taken apart with a twist of the wrist but because of their peculiar construction cannot come apart accidentally.



Fig. 1186

WITH CLOSED EYE

For use with shackle or thimble.

No.	Polished Each	Length Inches	Size Eye Inches	Weight Ounces
1	\$.60	1 3/8	5/16 x 3/8	1
2	.65	2 1/4	3/4 x 1/2	2



Fig. 1187

WITH THIMBLE FOR WIRE

No.	Polished Each	For Wire Inches	Length Inches	Weight Ounces
1	\$1.00	1/8 to 1/8	2 1/8	1 1/2
2	1.10	1/8 to 5/16	2 1/8	2



Fig. 1188

WITH THIMBLE FOR ROPE

No.	Polished Each	For Rope Inches	Lgth. Inches	Weight Ounces
1	\$1.00	1/4 or 5/16	2 3/8	2
2	1.10	3/8	3	3



Fig. 1189

WITH CLEVIS

For use with headboard for main-sail or jib.

No.	Polished Each	Length Inches	Jaw Opening Inches	Weight Ounces
1	\$1.15	2 1/4	1/2	1 1/2
2	1.25	3	3/8	3 1/2

No. 1—Diameter pin, 5/16 inch.

No. 2—Diameter pin, 1/4 inch.

Fast Eye Snap Shackle

MANGANESE BRONZE—PLAIN

For Balloon Jib, Spinnaker, Halyards and Sheets.



Fig. 873

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$1.25	1/4	2 1/8	3/8
1	1.50	5/16-3/8	2 3/8	3/4
2	2.15	3/8-1/2	3 1/8	7/8

No.	Approx. Strength Pounds	Recommended Working Load Pounds
0	800	550
1	1500	1000
2	2500	1650

Swivel Eye Snap Shackle

MANGANESE BRONZE—PLAIN

For Ballon Jib, Spinnaker, Halyards and Sheets.



Fig. 874

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$1.90	1/4	2 5/8	3/8
1	2.40	5/16-3/8	3 3/4	3/4
2	3.00	3/8-1/2	4 1/2	7/8

No.	Approx. Strength Pounds	Recommended Working Load Pounds
0	800	550
1	1500	1000
2	2500	1650

Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.



Fig. 875

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.40	2	3/4
2	1.75	2 1/2	7/8

Improved Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.



Fig. 876

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.70	2 1/4	3/4
2	2.35	3	7/8

Self Locking Bridles

MANGANESE BRONZE—PLAIN

FOR PEAK HALYARD BLOCKS



Fig. 877

No.	Price Each	For Size Wire Inches	Size Opening For Block Inches
1	\$1.50	1/4	3/8
2	1.75	5/16	1/2
3	2.10	3/8	5/8

Boom Travelers

CAST BRONZE
FOR MAIN SHEET BLOCKS ON BOOMS
FOR RECTANGULAR BOOMS



Fig. 1112

Fastened by one rivet and two screws.

Plain Each	Polished Each	For Thickness Boom Inches	Weight Ounces
\$.50	\$.80	1 1/2 to 1 3/4	2 1/2

FOR T BOOMS



Fig. 1113

Fastened with two rivets.



Fig. 917

We believe this to be the strongest bronze turnbuckle of its size manufactured.

The use of Everdur bronze enabled us to produce a very strong lightweight turnbuckle for small boats. 1/4 inch, weight 3 1/2 oz. Approx. strength 2,500 lbs. 5/8 inch, weight 5 oz. Approx. strength 5,000 lbs.

Size Thread Inches	Plain Each	Polished Each	Length Pin to Pin		Jaw Opening Inches
			Open Inches	Closed Inches	
1/4	\$1.30	\$1.60	8 3/4	5 3/4	3/8
5/8	1.60	1.90	9 1/2	6	1/4

With check nuts, add \$.15 to each turnbuckle.

Halyard Fairleaders

POLISHED BRONZE



Fig. 580

Designed for main halyards on small boats this fitting has many other uses. Will not chafe rope.

Polished Each	Length Inches	Width Inches	For Diam. Rope Inches	Weight Ounces
\$.40	2 1/4	3/4	3/8	2 1/2

Single Flare Lip Leaders

CAST BRONZE



Fig. 764

No.	Plain Each	Polished Each	Small Opening Inches
1	\$.25	\$.40	1/2
2	.40	.75	5/8

Double Flare Lip Leaders

CAST BRONZE



Fig. 889

No.	Plain Each	Polished Each	Opening Inches
0	\$.25	\$.50	3/8
1	.30	.60	1/2
2	.40	.75	5/8

Release Hooks

MANGANESE BRONZE



Fig. 890

No.	Plain Each	Polished Each	Length Closed Inches	Size Opening Inches	Size Eye Inches
1	\$1.40	\$1.60	4	1/2	1 1/2 x 3/8
2	1.80	2.00	5 1/2	3/8	3/8 x 3/8

Rigging Cleats

BRONZE



Fig. 879

No.	Plain Each	For Diam. Mast Inches	Size Overall Inches
1	\$.40	2 1/2	2 1/2 x 1 1/4
2	.50	3	3 3/8 x 1 3/8
3	.70	4	4 x 1 3/8



Automatic Jam Cleats

CAST BRONZE—POLISHED

OPEN EYE

An exceptionally strong and positive grip, can be operated at some distance from cleat, a jerk on the rope releases it.

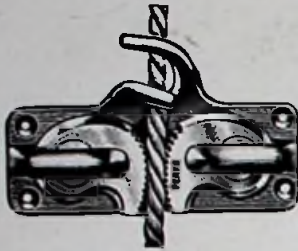


Fig. 895

No.	For Rope Inches	Size Base Inches	Polished Bronze Each
1	1/4 - 5/8	3 1/2 x 1 1/2	\$2.65
2	3/8 - 1/2	5 1/8 x 1 3/4	4.85

Improved Jam Cleat

CAST BRONZE



Fig. 1190

Something new in a jam cleat that really jams and holds.

Polished Each	Length Inches	For Rope Inches	Weight Ounces
\$1.50	4	up to 1/4	4

Automatic Jam Cleats

CAST BRONZE—POLISHED

CLOSED EYE

Same cleat as Fig. 895 above except the eye which is closed for use with jib sheets, etc.



Fig. 1093

No.	For Rope Inches	Size Base Inches	Polished Bronze Each
4	1/8 - 1/2	5 1/8 x 1 3/4	\$4.85

Halyard Lock

CAST BRONZE



Fig. 1191

For use on main or jib halyard. Halyard is locked in place by means of small wire nub soldered on wire where it passes through lock.

Polished Each	For Wire Inches	Length Inches	Width Inches	Weight Ounces
\$1.20	1/8	2	1 1/2	1 1/2

Racing Jam Cleats

CAST BRONZE

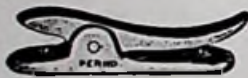


Fig. 762

Length Inches	For Size Rope Inches	Polished Bronze Each
3 1/2	1/4	\$2.40
4	3/8	2.75
6	1/2	3.65

Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.



Fig. 875

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.40	2	3/4
2	1.75	2 1/2	7/8

Double Jam Cleats

CAST BRONZE—POLISHED



Fig. 1030

No.	Price Each	Length Inches	Width Inches
1	\$.75	4	1 1/2
2	1.00	5	3/8

Improved Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.



Fig. 876

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.70	2 1/4	3/4
2	2.35	3	7/8

Roller Jam Cleats

CAST BRONZE



Fig. 894

Self Locking Bridles

MANGANESE BRONZE—PLAIN

FOR PEAK HALYARD BLOCKS



Fig. 877

No.	Price Each	For Size Wire Inches	Size Opening For Block Inches
1	\$1.50	1/4	3/8
2	1.75	1/8	1/2
3	2.10	3/8	5/8

No. 1 Size is ideal for Snipes, Moths, Comets, etc.
No. 2 Size for Star Class and other Sail Boats of like size.

No.	Polished Bronze Each	For Diam. Rope Inches	Extreme Length Inches
1	\$1.50	1/8 to 1/4	4
2	2.00	1/4 to 3/8	5 1/4

Improved Rigging Turnbuckles

MANGANESE BRONZE

With Stiff Jaw Ends—S. A. E. Threads



Fig. 932

Size Inches	Plain Each	Polished Each	Length of Pin to Pin of Stiff Jaws		Jaw Opening Inches	Suitable Airplane Wire Rope Inches
			Closed	Opened		
1/4	\$1.85	\$2.50	7 1/8	10 3/8	Both 1/4	1/8
3/8	2.15	3.25	7 7/8	11 3/8	Both 3/8	3/16
1/2	3.25	4.25	9	12 3/4	Both 1/2	1/4
5/8	3.85	4.85	10	14 1/4	Both 5/8	3/8
3/4	4.50	5.50	11 1/2	16 1/2	Both 3/4	1/2

With check nuts, see additions on Fig. 459.

Size Inches	Approx. Strength Pounds	Recommended Working Load Pounds
1/4	2800	1000
3/8	4200	1500
1/2	6200	2200
5/8	8000	2800
3/4	11000	3850

Everdur Rigging Turnbuckle

ALL EVERDUR BRONZE

S. A. E. THREADS—HEXAGON MIDDLE
LIGHTWEIGHT—GREAT STRENGTH



Fig. 917

We believe this to be the strongest bronze turnbuckle of its size manufactured.

The use of Everdur bronze enabled us to produce a very strong lightweight turnbuckle for small boats.

1/4 inch, weight 3 1/2 oz. Approx. strength 2,500 lbs.

5/8 inch, weight 5 oz. Approx. strength 5,000 lbs.

Size Thread Inches	Plain Each	Polished Each	Length Pin to Pin		Jaw Opening Inches
			Open Inches	Closed Inches	
1/4	\$1.30	\$1.60	8 3/4	5 3/4	3/16
5/8	1.60	1.90	9 1/2	6	1/4

With check nuts, add \$.15 to each turnbuckle.

Release Hooks

MANGANESE BRONZE



Fig. 890

No.	Plain Each	Polished Each	Length Closed Inches	Size Opening Inches	Size Eye Inches
1	\$1.40	\$1.60	4	1/2	1/2 x 3/8
2	1.80	2.00	5 1/2	3/8	3/8 x 3/8

Bronze Rigging Turnbuckles

DROP FORGED—WELDLESS
S. A. E. THREADS



Fig. 459

These are drop forged from special high strength solid bronze bars giving unusual strength as shown in table below.

Size Inches	Plain Each	Polished Each	With Check Nuts Add Each	For Diam. Wire Rope Inches	Weight Each Pounds
3/8	2.15	3.25	.15	3/8	1/2
1/2	3.25	4.25	.20	1/2	3/4
5/8	3.85	4.85	.25	5/8	1
3/4	4.50	5.50	.30	3/4	1 1/2
7/8	6.50	7.75	.35	7/8 & 1	2 3/8

Size Inches	Approx. Strength Pounds	Diam. Pins in Jaws Inches	Length from Center to Center of Pins in Jaws Inches		Width Jaw Opening Inches	
			Extended	Closed	Narrow Jaw	Wide Jaw
1/4	2600	1/8	8	5 3/4	1/4	1/4
3/8	4000	3/16	10 3/8	7 1/4	1/4	1/4
1/2	6800	1/4	12 1/4	8 1/2	1/4	1/4
5/8	9600	5/16	13 1/2	9 1/2	1/4	3/8
3/4	12500	3/8	14 1/2	10 1/4	1/4	1/4
7/8	18200	7/8	17	12	1/4	1/4

Large sizes can be furnished with wide and narrow jaws. Two wide jaws furnished unless otherwise specified.

Under Deck Turnbuckle

CAST BRONZE

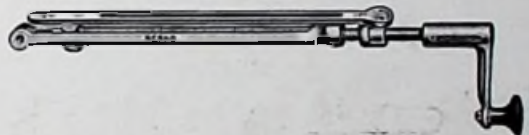


Fig. 1192

Crank remains fixed to shaft and can be moved in and out about 1 1/4 inches allowing crank to be under the deck when not in use.

Polished Each	Length Inches	Width Base Inches	Diam. Thread Inches	Weight Pounds
\$6.00	10	1 1/8	1/2	1 1/4

Combination Release Hook and Turnbuckle

BRONZE



Fig. 1193

Obviously adaptable for many uses on sail boats.

Plain Each	Polished Each	Size Thread Inches	Length Closed Inches	Opening Inches	Weight Ounces
\$2.50	\$3.25	1/2	5	1/4	6

Bronze Gooseneck Bands
MANGANESE BRONZE—PLAIN



Fig. 883



Fig. 884

Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

No.	Fig. 883 Each	Fig. 884 Each	Mast Diam. Inches	Boom End Inches
1	\$6.00	\$7.00	3 to 3½	1¾
2	6.00	7.00	4 to 4½	2¼

Bronze Goosenecks
WITH FLAT PLATE FOR SQUARE MASTS
MANGANESE BRONZE—PLAIN

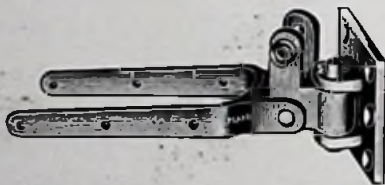


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

No.	Price Each	Width of Plate Inches	Length of Plate Inches	Diameter Boom end Inches
1	\$6.00	2	3	1¾
2	6.00	3	4	2¼

Sliding Roller Reefing Gooseneck
CAST BRONZE



Fig. 1194

For small boats up to 200 square foot sail area. Sail is reefed by pulling boom away from mast while turning. It springs back into position and locks in place. Furnished with 10 inches of ¾ inch track and stops.

Polished Each	Between Straps Inches	Extreme Length Inches	Weight Pounds
\$9.00	1	9¾	1½

Adjustable Gooseneck Bands
GALVANIZED DROP FORGED STEEL



Fig. 885

Inside Diam. of Band Inches	Each	Diam. of Screw Inches
3	\$4.00	7/16
3½	4.00	1/4
4	5.00	1/4
4½	5.00	1/2
5	7.00	5/8
6	7.50	5/8

Larger sizes made to order.

Gooseneck Bands
GALVANIZED DROP FORGED STEEL

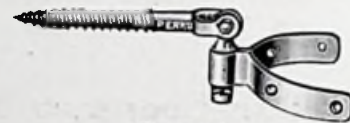


Fig. 886

For Size Mast Inches	Each	Weight Each Pounds	For Size Mast Inches	Each	Weight Each Lbs.
2½	\$2.70	7/8	3½	\$2.90	1¾
3	2.70	1/6	4	3.50	1¾

Jib Club Fittings
MANGANESE BRONZE—PLAIN



Fig. 887

Allows club to be easily removed from jib stay.

No.	For Diam. Club Inches	Price Each
1	1½	\$4.25
2	1¾	4.75
3	2	5.50

Boom Claw
CAST BRONZE—FOR ROLLER BOOM



Fig. 1195

For use with reefing gooseneck Fig. 1194. With smooth contact surface to protect sail.

Polished Each	Inside Diam. Inches	Weight Ounces
\$1.25	2½	7

Sliding Gooseneck NATIONAL ONE DESIGN CLASS BRONZE

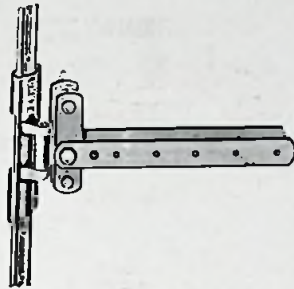


Fig. 452

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. This fitting is as light in weight as possible while retaining all necessary strength.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$2.50	3/4	6	5/8	3/4

Sliding Gooseneck BRONZE



Fig. 592

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. Straps can be adjusted for booms smaller than 2 inch diameter.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$3.75	1 3/4	6	5/8	1

Small Boat Gooseneck Bands CAST BRONZE



Fig. 658

A good strong fitting made of high grade bronze but low priced for the pocketbook of the small boat owner.

Plain Each	For Diam. Mast Inches	Length of Screw Inches	Diam. of Screw Inches	Weight Ounces
\$1.25	2 3/4	3 3/4	3/8	6

"Snipe" Boom Fittings

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast Plate for Round Mast
Fig. 888

Plain Brass Each	Polished Brass Each	Plain Plates Only Each	Width Plate Inches	For Boom Inches	Weight Each Pounds
\$2.75	\$3.50	\$1.00	2	1 to 1 1/2	1 1/2

When ordering, specify whether for square or round mast.

Spinnaker Pole Fittings CAST BRONZE—PLAIN

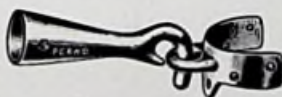


Fig. 587

The America's Cup Races proved the value of parachute spinnakers and resulted in an increasing demand for spinnaker pole fittings.

These are made of cast bronze and in two sizes for the largest variety of small boats.

No.	Complete Each	For Diam. Pole Inches	For Diam. Mast Inches	Length Hook Inches	Weight Pounds
1	\$3.50	1 1/8	2 1/2	5	7/8
2	5.00	1 1/2	4	6	1 1/2

As the mast band is made of high grade bronze it can easily be bent for smaller or larger masts.

Spinnaker Pole Fitting

SELF LOCKING—CAST BRONZE
POLISHED

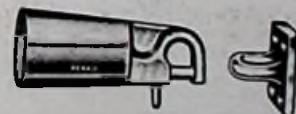


Fig. 1196

May be used on both ends of the spinnaker pole to insure fast operation when time is important in racing. Can be opened with one finger.

Pole Fitting Only Each	Eye Plate Only Each	Inside Diam. Inches	Size Plate Inches
\$5.50	\$1.25	1 3/8	1 7/8 x 1 3/8



Snap Action Clew Outhaul
CAST BRONZE—PLAIN



Fig. 871

With spring pin so sail can be put on or taken off easily.

No.	Price Each	For Width Rolled Track Inches	Length Overall Inches
1	\$2.50	3/8	3 3/4
2	5.00	1/2	5 1/2

Clew Outhaul Slides
CAST BRONZE—PLAIN



Fig. 872

No. 1 size is furnished with nickel silver rolled track like Fig. 99.

No. 2 and 3 sizes are furnished with heavy cast bronze track as illustrated.

No. 3 size has a sheave for wire instead of groove.

No.	Plain Bronze Each	Width Track Inches	Lgth. Track Inches
1	\$2.50	3/8	15
2	4.65	3/4	13
3	7.25	7/8	15

Clew Outhaul
CAST BRONZE—PLAIN

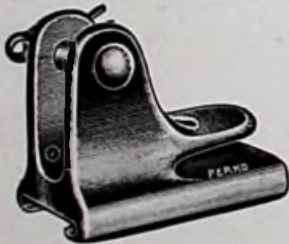


Fig. 1047

Designed for small sail boats. A good low priced light weight fitting.

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.15	3/8	3/8	1 3/4	1 1/2	3 1/2

Bronze Deck Travelers
WITH PLATES TO SCREW TO DECK

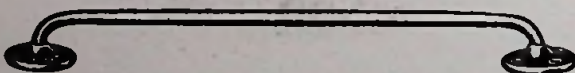


Fig. 896

Diam. Slide Inches	Length Inches	Plain Each	Polished Each
3/8	24	\$3.90	\$4.65
1/2	24	5.25	6.00

OTHER SIZES MADE TO ORDER

Self Locking Clew Outhaul
CAST BRONZE
INSTANT RELEASE—LIGHTWEIGHT
FOR SMALL BOATS

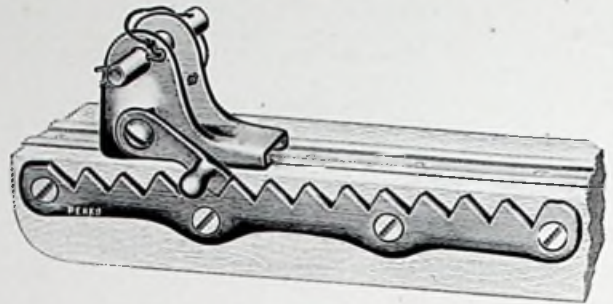


Fig. 817

Grab the pin, haul out as far as necessary and it automatically locks in place.

Can be released instantly by raising the pawl. The pin is made extra long for grasping.

Plain Per Set	Ratchet Only Each	For Track Inches	Length Ratchet Inches	Length Pin Inches	Weight Per Set Ounces
\$2.50	\$1.00	3/8	10	2 1/2	10

Snipe Travelers

GALVANIZED IRON OR BRASS



Fig. 271

Galv. Each	Plain Brass Each	Polished Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
\$1.00	\$1.50	\$2.25	3/8 x 18	6	1 1/2

Bronze Deck Travelers
TO BOLT THROUGH DECK

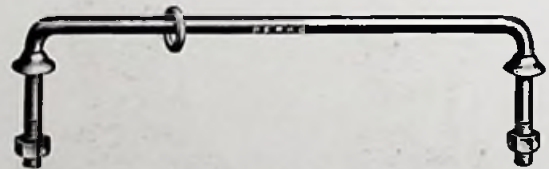


Fig. 933

Diameter of Rod Inches	Length of Rod Inches	Height Between Deck and Traveler Inches	Polished Each
3/8	12	1 1/2	\$ 3.50
3/8	18	1 1/2	3.90
1/2	12	2	4.40
1/2	18	2	5.50
1/2	24	2	6.60
1/2	30	2	7.70
5/8	18	2	9.00
5/8	24	2	10.00
5/8	30	2	11.00
5/8	36	2	11.50

Ratchet Winches

POLISHED MANGANESE BRONZE

Of rugged construction, positive but simple action, can be used with wire as well as rope. The handles swing with a pump motion in a 180 degree arc. Power ratio about 8 to 1. On the top action type the handle is removable but snap catch prevents it dropping out accidentally.

TOP ACTION TYPE With Removable Handle

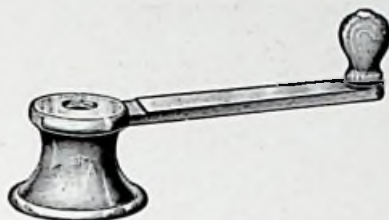


Fig. 800

Size No.	Each	Handles Only Each	For Diam. Rope Inches	Weight Each Pounds
1	\$12.00	\$2.75	$\frac{3}{8}$	3
2	17.50	4.00	$\frac{1}{2}$	6
3	25.00	5.50	$\frac{5}{8}$	12

Size No.	Smallest Diam. Drum Inches	Height Inches	Diam. Base Inches	Radius Handle Inches
1	$1\frac{3}{4}$	$2\frac{3}{4}$	$3\frac{1}{2}$	$7\frac{3}{4}$
2	$2\frac{1}{4}$	3	$4\frac{1}{4}$	10
3	3	$4\frac{1}{2}$	$5\frac{3}{4}$	$12\frac{1}{2}$

BOTTOM ACTION TYPE With Folding Handle—Not Removable



Fig. 802

Size No.	Price Each	Minimum Drum Dia. Inches	Total Height Inches	Base Dia. Inches	Radius of Hdle. Inches	Suitable Dia. Rope Inches
1	\$15.50	$1\frac{7}{8}$	$3\frac{1}{4}$	4	$9\frac{1}{2}$	$\frac{3}{8}$
2	21.00	$2\frac{3}{8}$	4	5	12	$\frac{7}{16}$ or $\frac{1}{2}$

Sheet Snubbing Winches

CAST BRONZE—POLISHED



No. 0



No. 1

Fig. 937

A one way action winch which greatly reduces the strain of hauling on sheets or halyards.

Action of head is clockwise only for hauling in. But same is carefully machined and highly polished to allow free running of sheet when let out.

No.	Polished Bronze Each	Chromium Plated Each	Height Inches	Diam. Drum Inches	Diam. Base Inches	Weight Pounds
0	\$4.00	\$5.50	$2\frac{1}{8}$	1	$2\frac{1}{8}$	1
1	5.00	7.00	$2\frac{3}{4}$	$1\frac{1}{4}$	$3\frac{1}{8}$	$1\frac{3}{4}$

Combination Snubbing and Halyard Winch

POLISHED CAST BRONZE—ONE WAY ACTION

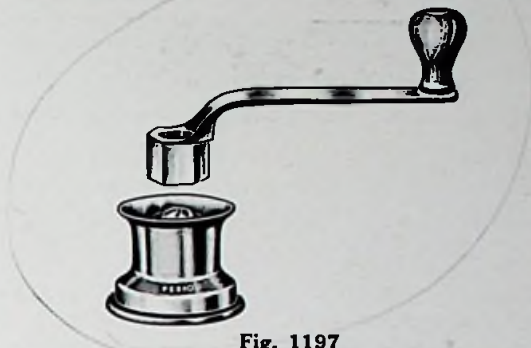


Fig. 1197

The drum is low and of large diameter for fast action. Furnished with or without crank.

Without Crank Each	With Crank Each	Crank Only Each	Diam. Drum Inches	Height Inches	Length Crank Inches
\$6.25	\$7.50	\$1.50	2	$2\frac{1}{4}$	$6\frac{1}{4}$

Extension for Tiller

CAST SILICON ALUMINUM

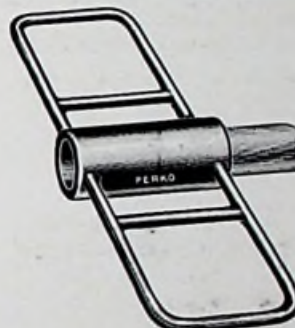


Fig. 798

Allows the skipper to get far enough out on the rail to see the jib luff from the weather side and get the full benefit from weight. Slips on end of tiller when needed.

Polished Each	Length Inches	Width Inches	Diam. Hole Inches	Weight Ounces
\$4.00	$13\frac{1}{2}$	4	$1\frac{1}{4}$ to $1\frac{1}{2}$	13

Entrance Plate

FOR TUNNELED MASTS
CAST BRONZE—POLISHED



Fig. 1198

Prevents luff rope of sail from splitting tunnel. Straps are long and can be bent to fit any type of mast.

Each	Length Straps Inches	For Luff Rope Inches	Weight Ounces
\$2.25	7	up to $\frac{1}{2}$	10



Mast Track and Slides

NICKEL SILVER

Slide

Track



Fig. 98

Fig. 99

Width
Track
Inches
 $\frac{3}{8}$
 $\frac{1}{2}$

Nickel Silver
Slides
Each
\$.08
.12

Nickel Silver
Track
Per Foot
\$.20
.25

"Perko" slides will fit any make of track of corresponding design and size.

Nickel silver lengths of track are 8, 10 and 12 feet. All orders will be filled with lengths available to make up total number of feet ordered.

Sail Slides with Thimble

NICKEL SILVER SLIDE—BRASS THIMBLE

Our standard Fig. 98 Sail Slide with a brass sail thimble attached.



Fig. 1036

For width Of track Inches	Price Each Complete	Diam. of Thimble Inches	Score of Thimble Inches
$\frac{3}{8}$	\$.15	$\frac{1}{2}$	$\frac{1}{8}$
$\frac{1}{2}$	.20	$\frac{3}{8}$	$\frac{1}{8}$

Mast Head Fitting

SALT WATER RESISTING ALUMINUM



Fig. 1199

With unusually large sheave for direct pull on head-board. Has threaded socket on top for wind pennant. For oval mast.

Polished Each	Inside Measurement Inches	Diam. Sheave Inches	For Wire Inches	Weight Ounces
\$9.00	$1\frac{1}{8} \times 1\frac{3}{8}$	3	$\frac{1}{8}$	10

Masthead Sheaves

FOR MANILA ROPE
CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Price Each	For Diam. Rope Inches	Thickness Inches	Bearing Inches
$1\frac{1}{4}$	\$.55	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{16}$
2	.70	$\frac{5}{16}$	$\frac{7}{16}$	$\frac{3}{16}$
$2\frac{1}{4}$	.90	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$

Marconi Headboards

ALUMINUM ALLOY



Fig. 462

Headboards improve the set of the sail and are almost indispensable on Marconi Rigs.

No.	Each	Measurements Inches	Weight Ounces	For Class Boat
0	\$1.00	$3\frac{7}{8} \times 3\frac{3}{8}$	3	Star
1	1.25	$4\frac{1}{4} \times 3\frac{3}{8}$	5	Atlantic
2	1.75	$5\frac{1}{2} \times 5\frac{1}{4}$	7	6 Meter

Masthead Trucks

LIGNUMVITAE



Fig. 891

Diam. Inches	One Sheave Each	Two Sheaves Each
2	\$.70	\$1.00
$2\frac{1}{2}$	.85	1.10
3	1.10	1.50
$3\frac{1}{2}$	1.40	1.80
4	1.65	2.15
$4\frac{1}{2}$	2.00	2.50
5	2.35	3.20
$5\frac{1}{2}$	2.75	3.70
6	3.50	4.00

Wind Pennants

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

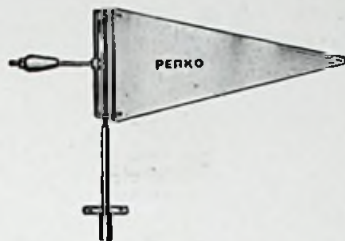


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

FURNISHED IN PAINTED FINISH,
EITHER RED, BLUE OR WHITE

For Mast 1 Inch Diam. at Top, $\frac{1}{8}$ Hole

No.	Painted Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$2.00	6½x3	6½	2½
2	2.50	9½x4½	7¾	4
3	3.50	12 x6	10	10
4	4.50	15 x7½	11½	12

Improved Wind Pennants

ADJUSTABLE COUNTERBALANCE

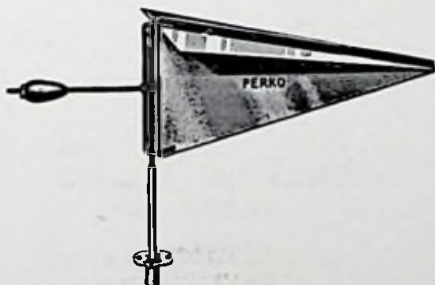


Fig. 837

This is the same as our popular Fig. 435 wind pennant improved by the addition of a horizontal vane attached to the regular vertical vane permitting a more distinct view when directly below the pennant. The horizontal vane is detachable if not required.

Furnished in plain or painted finish. Painted colors are red, blue or white.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$2.50	6½x3	6½	3
6	3.00	9¼x4½	7¾	5
7	4.25	12 x6	10	11½
8	5.25	15 x7½	11½	14

Stainless Steel Tangs

UNIVERSAL—LIGHTWEIGHT—STRONG
FOR RIGGING AND STAYS OF ALL TYPES



Fig. 1164



Fig. 1165

Fig. 1164 serves all requirements for sail boats up to 200 sq. ft. sail area. Can be shaped to fit round or square masts. Holes for shrouds are extruded. Various parts can be cut off where certain stays are not used.

Fig. 1164 Each	Fig. 1165 Each	Dimensions		Weight	
		Fig. 1164 Inches	Fig. 1165 Inches	Fig. 1164 Ounces	Fig. 1165 Ounces
\$2.50	\$.95	8x2	5x¾	2	1

Mast Shroud Tangs

CAST BRONZE—PLAIN



Fig. 387

For the mast shroud of small sail boats. Drilled for fastening by rivet and screws.

Each	For Wire Inches	Length Inches	Width Inches	Weight Ounces
\$.50	⅛-⅜	4	⅝	2½

"Snipe" Stay Tangs

ALL BRASS



SINGLE
Fig. 47



DOUBLE
Fig. 57

Commonly used for attaching standing rigging to mast on snipe and similar classes of sail boats.

Fig. No.	Plain Brass Each	Pol. Brass Each	For Diam. Rope Inches	Dim. Straps Inches	Diam. Bolt Inches	For Wood Thick-ness Inches	Wt Each Lbs
	\$.60	\$.75	⅜	¾x4	¼	2	¼
	1.00	1.25	⅜	¾x4	¼	2½	¼



Tubular Spreaders
BRASS TUBE—BRONZE FITTINGS



Fig. 1031

Made of seamless brass tubing with cast bronze fittings both ends, the mast plate has an integral projecting lip serving the purpose of a shoulder cleat for stays. Very strong but light in weight.

No.	Plain Per Pair	Length Inches	Diam. Inches	Size of Mast Plate Inches	Weight Per Pair Pounds
1	\$4.50	17 1/2	1/2	1 3/4 x 1 3/4	3/4
2	5.50	21 1/2	5/8	1 3/4 x 1 3/4	1
3	6.50	28	5/8	1 3/4 x 1 3/4	1 1/4

Head and Jibstay Fittings
CAST BRONZE—PLAIN



Fig. 1032

For allowing various adjustments of head and jibstays, has an angular hole for lag screw in forward end for fastening to stem.

No.	Price Each	Length Inches	Width Inches	Number of Holes	Weight Each Ounces
1	\$2.00	5	1 1/2	5	12
2	2.25	7 3/4	1 3/4	8	28

New Backstay Fittings
CAST BRONZE—POLISHED

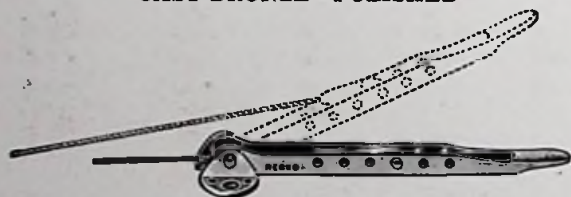


Fig. 1098

For quick release of backstay this fitting can't be beat. Turnbuckles are unnecessary. Complete with socket for 1/2 inch rigging. A set consists of fittings for port and starboard. Illustration shows 1/2 set.

Plain Per Set	Polished Per Set	Length Inches	Base Inches	For Rigging Inches	Weight Pounds
\$7.00	\$8.00	12 1/4	3 1/4 x 2	up to 3/16	1 1/2

Centerboard Hoisting Strap
FOR "SNIPE" PIVOT TYPE CENTERBOARDS
GALVANIZED

Required only when Pivot Type Centerboards are used on "Snipe" class sail boats.



Fig. 212

Price Each	Length Inches	Width Opening Inches	Size Holes Inches
\$.30	2 1/2	3/8	3/8

Spreader Fittings
CAST BRONZE—PLAIN



For Round Mast
Fig. 27

For Flat Mast
Fig. 28

Spreaders of any length desired can be made by installing necessary length of brass pipe between mast plate and jaw. Parts are threaded for 1/4 inch pipe.

Set consists of 1 mast plate with hinged fitting and jaw.

Fig.	Per Set	Jaw Opening Inches	Length Plate Inches	Width Plate Inches	Weight Per Set Ounces
27	\$1.80	1/4	1 7/8	1 7/8	8
28	1.80	1/4	2	1 3/4	8

Stemhead Plate
CAST BRONZE—STREAMLINED



Fig. 343

A fitting designed for appearance as well as practicability.

Forward hole for painter, center hole for jib stay, rear hole for jib tack.

Angle is 70 degrees.

Length Straps Inches	Extreme Width Inches	Diam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces
3 5/8	1	1/8	3/4	8
Plain Bronze Each		Polished Bronze Each		Chromium Plated Each
\$1.00		\$1.50		\$2.30

Snipe Centerboards
GALVANIZED IRON

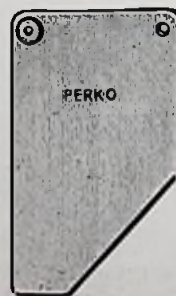


Fig. 134

Galvanized Each	Size Inches	Weight Pounds
\$7.50	36 x 21 x 1 1/4	32

Screw Eye on Plate CAST BRONZE



Fig. 1035

Furnished with a flush plug to screw in place when eye is removed.

For all leader blocks and other items requiring easy removal from deck.

No.	Polished Each Complete	Inside Diam. Inches	Diam. Thread Inches	Diam. Plate Inches
1	\$2.00	3/4	1/2	2 7/8
2	2.25	1	1/2	2 7/8

Gaff Topsail Hooks

GALVANIZED MALLEABLE IRON
COLEMAN PATTERN



Fig. 931

Size Inches	Each	Thimble for Rope Inches	Size Inches	Each	Thimble for Rope Inches
1/4	\$.60	3/8	1/2	\$1.20	3/8
1/4	.65	1/2	3/8	2.75	1
3/8	.85	5/8			

Bob Stay Straps

GALVANIZED DROP FORGED STEEL
AND POLISHED BRONZE



Fig. 803

Diam. of Metal in Eye Inches	Galvanized Each	Pol. Bronze Each	Overall Length Inches	Length of Strap Inches
3/8	\$.75	\$1.10	3	2
1/2	.85	1.40	4	3
1/2	.95	1.70	5	3 1/2
5/8	1.10	2.80	6	4
3/4	3.40		8	5

"Snipe" Chain Plates BRASS



Fig. 143

Plain Each	Polished Each	Size Inches	Weight Ounces
\$.70	\$.90	10 1/2 x 1 x 1/8	6

Foot Rope Plates

GALVANIZED DROP FORGED STEEL
AND BRONZE

For Foot Ropes or Bowsprit Shrouds

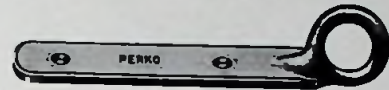


Fig. 568

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size Iron Inches	Size Eye Inches
4	\$.50	\$1.10	\$1.55	3/8 x 1/8	3/8
5	.60	1.25	1.70	1 x 1/4	3/4
6	.75	1.50	1.95	1 1/8 x 1/4	7/8
8	1.00	1.70	2.30	1 1/4 x 1/4	3/8
10	1.50	2.10	2.90	1 1/4 x 1/8	1

Fitted for Shackle when desired. Larger sizes made to order.

Chain Plates

GALVANIZED DROP FORGED STEEL
AND BRONZE



Fig. 569

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size of Plate Inches
4	\$.30	\$.95	\$1.30	3/4 x 1/8
5	.35	1.10	1.45	3/8 x 1/8
6	.40	1.20	1.55	1 x 1/8
8	.50	1.45	1.90	1 1/8 x 1/4
10	.75	1.80	2.40	1 1/8 x 1/8
12	1.00	2.20	2.90	1 1/8 x 1/8
14	1.50	3.20	4.30	1 1/8 x 1/8
16	1.75	4.30	6.00	1 1/8 x 1/8
18	2.00	6.00	8.00	1 1/8 x 1/8
20	2.50			1 1/8 x 1/8

Any size made to order.

Small Boat Chain Plate

CAST BRONZE



Fig. 629

A good looking dressy chain plate for sail boats up to about 20 feet long.

Plain Each	Polished Each	Chromium Plated Each	Length Inches	Thick-ness Inches	Weight Ounces
\$.60	\$.80	\$1.10	6	1/4	7



Jib Snaps

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 765

45

Size No.	Galv. Each	Plain Brass Each	Polished Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 in Lbs.
0	\$.25	\$.35	\$.55	1 3/8	1/4	4 3/8
1	.30	.40	.60	2	3/8	10
2	.35	.50	.75	2 3/8	3/8	12 1/2
3	.40			2 3/4	1/2	21
4	.45			3	5/8	23 3/4

Improved Jib Snap Hooks

CAST BRONZE



Fig. 1037

A very strong, quick acting Snap. Has two holes for fastening to luff rope of jib. Brings the sail close to the stay.

No.	Plain Each	For Size Stay Inches	For Size Luff Rope Inches
0	\$.40	1/8	1/4
1	.45	3/16 or 1/4	3/8
2	.60	1/4	3/8

Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 612

45

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$.25	\$.35	\$.55	3/8	2	5
1	.30	.40	.60	3/8	2 3/4	10
2	.35	.50	.75	3/4	3 1/4	13 1/8
3	.40	.65	1.00	3/4	3 7/8	26 1/4
4	.45			1	4 1/8	27 1/2
5	.50			1 1/8	4 7/8	43 3/4
6	.60			1 1/4	5 1/4	56 1/4

Swivel Eye Snap

MALLEABLE IRON AND BRONZE



Fig. 659

45

Cadmium Plated Each	Plain Bronze Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
\$.45	\$.70	3 1/2	3/4	3/8	2

Baby Snaps

WITH SWIVEL EYE

ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1042

Diam. of eye Inches	Galvanized Each	Polished brass Each	Length Inches
3/8	\$.12	\$.20	2

Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 613

45

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Diam. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$.50	\$.60	\$.75	5/8	3 1/4	11
2	.60	.70	.85	3/4	3 1/4	16 1/4
3	.75	.90	1.25	7/8	4 3/4	32
4	.90			1	5 1/4	37
5	1.10			1 1/8	6	60

Baby Snaps

WITH OBLONG EYE—ELECTRO GALVANIZED



Fig. 1041

Size of eye Inches	Galvanized Each	Length Inches
3/16 x 1/4	\$.07	1 3/4

Baby Snaps

GALVANIZED AND POLISHED BRASS WITH FAST EYE



Fig. 842

Diam. of Eye Inches	Galvanized Each	Polished Brass Each	Length Inches
3/8	\$.07	\$.18	1 1/8

Toggles for Turnbuckles

BRONZE—POLISHED



Fig. 1033

No.	Each	For Turnbuckle Inches	Width Between Jaws Inches
1	\$.55	1/4	5/16
2	.65	3/8	3/8
3	.75	1/2	3/8
4	.85	5/8	1/2
5	1.00	3/4	1/2

Eye Bands

GALVANIZED DROP FORGED STEEL AND MANGANESE BRONZE



Fig. 426

Inside Diam. Inches	1 or 2 Eyes		3 or 4 Eyes	
	Galv. Each	Bronze Each	Galv. Each	Bronze Each
1 1/4	\$.70	\$.90	\$1.00	\$1.50
1 1/2	.75	.95	1.05	1.55
1 3/4	.80	1.00	1.10	1.65
2	.90	1.10	1.20	1.80
2 1/4	1.00	1.25	1.35	2.00
2 1/2	1.10	1.40	1.50	2.20
3	1.20	1.55	1.60	2.40
3 1/2	1.35	1.70	1.75	2.60
4	1.50	1.85	1.90	2.80
4 1/2	1.70	2.10	2.00	3.00

Please specify number of eyes when ordering.

Solid Brass Rings

POLISHED



Fig. 417

Thickness Inches	Inside Diam. Inches	Per Dozen	Thickness Inches	Inside Diam. Inches	Per Dozen
1/2	1/2	\$.60	1/4	1 3/4	\$3.00
3/2	3/8	.60	1/4	2	3.25
5/2	3/4	.70	1/4	2 1/4	3.75
7/2	7/8	.85	1/4	2 1/2	4.00
9/2	1	1.00	3/8	1 3/4	4.50
11/2	1 1/8	1.20	1/2	2	4.80
13/2	1 1/4	1.35	3/4	2 1/4	5.20
15/2	1 1/4	1.50	1/2	2 1/2	5.70
17/2	1 1/2	2.00	3/4	2 3/4	6.00
19/2	1 1/2	2.50	1/2	3	6.50

Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

Size Inches	Price Per 100	Weight Per 100 in Lbs.	Size Inches	Price Per 100	Weight Per 100 in Lbs.
2 x 1/4	\$ 6.00	10 1/2	5 x 1/4	\$14.00	24 1/2
2 1/2 x 1/4	8.00	12 1/2	6 x 1/4	15.00	30
3 x 1/4	8.50	15	7 x 1/4	16.00	34 1/2
3 1/2 x 1/4	10.00	17	8 x 1/4	18.00	39
4 x 1/4	13.00	20	9 x 1/4	21.00	44
4 1/2 x 1/4	13.50	22 1/2	10 x 1/4	25.00	49

Measure in clear, special size made to order.

Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS REGULAR

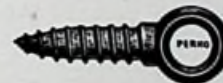


Fig. 766

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Eye Inches	Weight Per 100 in Lbs.
1	\$.04	\$.05	1/4	1	1 1/8
2	.05	.08	1/8	1 1/8	3 3/4
3	.07	.10	1/8	1 1/2	8 1/8
4	.12	.14	1/8	2	11 1/4

Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1 1/2 x 1 1/2	\$.21	3/8 x 3	\$.28	1 1/2 x 6	\$.55
1 1/2 x 2	.22	3/8 x 3 1/2	.30	7/8 x 3	.60
1 1/2 x 2 1/4	.23	1/2 x 3	.40	5/8 x 3 1/2	.65
1 1/2 x 2 1/2	.24	1/2 x 3 1/2	.43	3/4 x 4	.70
1 1/2 x 2 3/4	.25	1/2 x 4	.48	3/4 x 5	.80
1 1/2 x 3	.25	1/2 x 5	.50		

WITH SHOULDER



Fig. 767

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Shoulder Inches	Weight Per 100 in Lbs.
5	\$.04	\$.05	1/8	1	3 1/2
6	.05	.08	3/8	1 1/8	3 3/4
7	.07	.10	1/2	1 1/2	4 1/8
8	.12	.14	3/4	1 3/4	11



Washer Grommets

1-9	10 in more
.35	.25
.40	.30
.55	.40
.75	.55
.95	.70
1.30	1.00

SHEET BRASS



Fig. 898

Size No.	Price Per Gross	Size Hole Inserted Inches	Est. Wt. Per Gross Pounds
0	\$.50	1/4	3/8
1	.60	3/8	1/2
2	.70	1/2	3/4
3	1.00	5/8	1
4	1.50	3/4	2
5	2.00	7/8	2 1/2

Junior Grommet Dies

CAST IRON

For inserting Brass Washer and Teeth Grommets



Fig. 901

Size No.	Each	Weight Each Lbs.
0	\$1.15	3/4
1	1.30	3/4
2	1.80	1
3	2.00	1 1/8

This die is not guaranteed and not for commercial use, a useful, inexpensive tool for those who have only a few grommets to insert.

Teeth Grommets

1-9	10 in more
40	30
50	35
60	45
80	60
100	75
135	110

SHEET BRASS



Fig. 900

Size No.	Price Per Gross	Size Hole Inserted Inches	Est. Wt. Per Gross Pounds
0	\$.70	1/4	3/8
1	.75	3/8	1/2
2	1.10	1/2	3/4
3	1.30	5/8	1 1/8
4	1.90	3/4	1 3/4
5	2.70	7/8	2 1/2

Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets
Style C for inserting Washer and Teeth Grommets



Fig. 902

Size No.	Style B Each	Style C Each	Weight Each Lbs.
0	\$3.00	\$2.70	1 1/4
1	3.20	2.90	1 3/8
2	3.30	3.00	1 3/8
3	3.50	3.20	1 7/8
4	3.70	3.40	2 3/8
5	4.00	3.70	2 3/8
6	4.20	4.10	3 1/2
7	4.50		3 3/4
8	4.80		5

Use a wooden mallet with above dies.

Grommet Hooks

CAST BRONZE

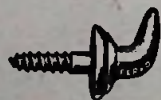


Fig. 1000

Plain Bronze Per Dozen	Polished Bronze Per Dozen	Diam. Flange Inches	Length Screws Inches
\$.80	\$1.25	3/8	1/2

Grommet Hole Cutters

FORGED STEEL



Fig. 903

No.	Price Each	No.	Price Each
0	\$.80	5	\$1.50
1	.80	6	2.75
2	.80	7	3.00
3	1.00	8	3.25
4	1.25		

Curtain Fasteners

WROUGHT BRASS



Fastener
Fig. 995



Eyelet
Fig. 996



Washer
Fig. 997

Made of stamped brass, for single and double curtains, fastener base size is $1\frac{1}{4} \times \frac{1}{2}$.

	Single	Double
Complete with Eyelet and Washer—per gross	\$12.00	\$15.50
Fastener Only—per gross	10.00	13.75
Eyelet Only—per gross	1.65	1.65
Washer Only—per gross	1.00	1.00

Enos Windlass

GALVANIZED—BRONZE

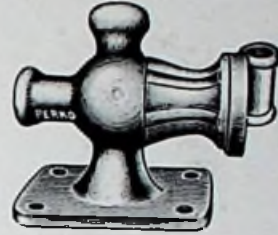


Fig. 964

Size No.	Galvanized Each	Polished Bronze Each	Height Inches	Width Overall Inches	Est. Wt. Each Bronze in Lbs.
0	\$11.50	\$27.50	6	7 $\frac{1}{2}$	12
1	20.50	50.00	8 $\frac{1}{2}$	9	27
2	22.75	60.00	10 $\frac{1}{2}$	11	34
3	32.00	78.00	11 $\frac{1}{2}$	13 $\frac{1}{2}$	58

Size No.	Diam. Drum Inches	Size Base Inches	Size Bolts Inches	Size Chain Inches	Size Rope Inches	Est. Wt. Each Galv. in Lbs.
0	2 $\frac{1}{2}$	4 $\frac{1}{2} \times 6$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	11
1	3 $\frac{1}{4}$	6 $\frac{1}{4} \times 8\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	25
2	3 $\frac{1}{2}$	7 $\frac{3}{8} \times 9\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	31
3	4 $\frac{1}{2}$	7 $\frac{1}{2} \times 10$	$\frac{3}{4}$	$\frac{1}{4}$	1 $\frac{1}{8}$	53

Belaying Pins

GALVANIZED MALLEABLE IRON AND BRONZE

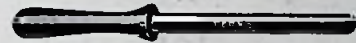


Fig. 366

Diam. Shank Inches	Galv. Each	Polished Bronze Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
$\frac{3}{8}$	\$.40	\$ 1.60	3	8	$\frac{3}{8}$
$\frac{1}{2}$	.60	1.95	3 $\frac{3}{8}$	9 $\frac{1}{2}$	$\frac{3}{4}$
$\frac{5}{8}$	.80	2.70	3 $\frac{3}{4}$	10 $\frac{1}{4}$	1
$\frac{3}{4}$	1.00	3.40	4 $\frac{1}{4}$	11	1 $\frac{3}{4}$
1	1.40		6 $\frac{1}{2}$	15	2 $\frac{1}{4}$
1 $\frac{1}{8}$	1.70		7	16	3
1 $\frac{1}{4}$	2.00		8	19	3 $\frac{1}{2}$

Grommet Rings

MALLEABLE IRON—GALVANIZED
INSIDE MEASUREMENT



Fig. 1002

Light			Heavy		
Inside Diam. Inches	Thickness Inches	Price Per Gross	Inside Diam. Inches	Thickness Inches	Price Per Gross
$\frac{3}{8}$	$\frac{3}{32}$	\$.75	$\frac{1}{2}$	$\frac{1}{8}$	\$ 1.15
$\frac{1}{2}$	$\frac{3}{16}$	1.05	$\frac{3}{8}$	$\frac{1}{8}$	1.50
$\frac{5}{8}$	$\frac{1}{8}$	1.40	$\frac{3}{4}$	$\frac{3}{16}$	2.00
$\frac{3}{4}$	$\frac{1}{8}$	1.90	$\frac{7}{8}$	$\frac{1}{8}$	2.50
$\frac{7}{8}$	$\frac{3}{16}$	2.15	1	$\frac{3}{16}$	3.50
1	$\frac{3}{16}$	2.60	1 $\frac{1}{8}$	$\frac{3}{16}$	5.00
1 $\frac{1}{4}$	$\frac{1}{8}$	4.60	1 $\frac{1}{4}$	$\frac{3}{16}$	5.25
1 $\frac{1}{2}$	$\frac{1}{8}$	6.25	1 $\frac{1}{2}$	$\frac{1}{4}$	6.75
2	$\frac{1}{4}$	9.00	1 $\frac{3}{4}$	$\frac{3}{16}$	7.50
			2	$\frac{1}{8}$	11.75
			2 $\frac{1}{4}$	$\frac{1}{8}$	17.50
			2 $\frac{1}{2}$	$\frac{3}{8}$	18.50
			3	$\frac{3}{8}$	21.00

$\frac{1}{2}$ inch and smaller are packed in boxes of 1 gross each.

$\frac{3}{4}$, 2 and 2 $\frac{1}{4}$ inch are packed in boxes of $\frac{1}{2}$ gross each.

2 $\frac{1}{2}$ and 3 inch are packed in boxes of $\frac{1}{4}$ gross each.

Brass Grease Cups



Fig. 961

Drawn from heavy gauge sheet brass. This cup is of light weight yet practically indestructible.

No.	Each	Height Inches	Inside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$.35	1 $\frac{1}{16}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$
2	.40	1 $\frac{3}{8}$	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{4}$
3	.50	2 $\frac{1}{16}$	1 $\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{8}$

Pick-Up Buoy

FLAT TOP



Fig. 234

Heavy galvanized iron, double seamed and soldered.

Wrought iron handle riveted to body, large eye on bottom and rope thimble. Every buoy fully tested before it leaves our factory.

Measurements do not include handle or eye.

No	Each	Size Inches	Weight Pounds
1	\$4.75	9x14	4
2	5.50	12x18	5
3	6.50	13x22	7

Cone Mooring Buoy

GALVANIZED

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 3/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper, which is of heavy 1 1/2 inch outside diameter rubber hose.



Fig. 370

Can also be furnished with welded eye bolts top and bottom non swivel—same prices.

Size Inches	With Bumper Each	Without Bumper Each
16 x 24	\$17.50	\$13.50
20 x 30	21.00	16.50
24 x 36	27.50	23.00
30 x 36	30.00	26.00

Size does not include swivel or eye.

Can also be furnished with 3/8 inch diameter buoy rod and swivel—add to above prices \$3.50 each.

Pick-Up Buoy

CONE TOP



Fig. 235

Heavy galvanized iron, double seamed and soldered. Wrought iron handle riveted to body, large eye on bottom for rope.

Fully Tested

Measurements do not include handle or eye.

No.	Each	Size Inches	Weight Pounds
4	\$3.75	13x22	5
5	4.75	16x24	6 1/2

Heavy Duty Mooring Buoy

RIVETED BODY—GALVANIZED



Fig. 551

Extra heavy construction, all riveted. 3/8 inch wrought iron buoy rod through center, eye on top, swivel on bottom, grooved to take heavy rubber bumper. Bumper is 1 1/2 inch outside diameter heavy hose, outlet in bottom for draining.

Size Inches	With Bumper Each	Without Bumper Each
24 x 36	\$38.00	\$33.00
30 x 36	42.00	38.00
36 x 42	50.00	46.00
40 x 48	57.00	52.00

Measurements do not include swivel or eye.

Hold Fast Buoy

A REAL MOORING BUOY FOR SMALL BOATS AT A LOW PRICE



Fig. 445

A heavy gauge galvanized sheet iron body, a 3/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$11.75	13	22
2	15.50	17	27

Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
33 1/2	3	15
38 1/2	3	24

New Junior Mooring Buoy

FOR RUNABOUTS AND ALL SMALL BOATS

GALVANIZED



Fig. 318

Made of sheet steel with 1/2 inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the rod.

Load capacity, half submerged, 25 lbs. Equal to 35 feet of 1/4 inch chain.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$6.00	12	15



Perko Round Steel Mooring Buoys

14 GAUGE—21 INCH DIAMETER—HEAVILY WELDED—TESTED

WITH TWO WELDED EYES

WITH STEEL ROD THROUGH CENTER
SWIVEL ON BOTTOM—WELDED EYE ON TOP

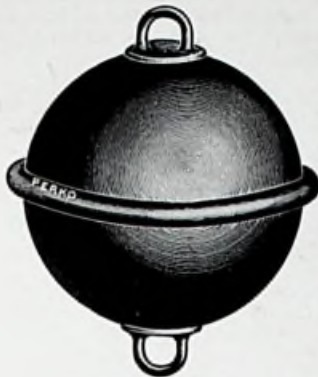


Fig. 967



Fig. 1099

Perko steel mooring buoys are made from new modern tools and dies therefor contain no wrinkles or distortions in shape. Constructed of new material and protected by a heavy coat of paint.

Eyes are riveted and welded to a heavy plate which is welded to the body of the buoy.

A heavy steel band is welded to the inside of each hemisphere at the joint which is also heavily welded.

Bumper is 1½ inch diameter heavy rubber hose held in position by welded clips.

Fig. 1099 has ¾ inch steel rod through center with ¾ inch steel swivel eye on bottom.

Fig. 967		Fig. 1099		Inside Welded Eye Inches	Inside Swivel Eye Inches	Weight Fig. 967 Pounds	Weight Fig. 1099 Pounds
Without Bumper Each	With Bumper Each	Without Bumper Each	With Bumper Each	2¼x2	3½x2	35	38
\$13.00	\$17.50	\$15.50	\$20.00				

Racing or Marking Buoys

GALVANIZED STEEL



Fig. 965

With 1¼ inch diameter flag pole socket in top of body, and galvanized handle for picking up. Large eye on bottom for anchor line.

No.	Each	Size Inches	Weight Pounds
1	\$4.50	13x22	5½
2	5.50	16x24	7

Size shown does not include handle or eye.

New Round Steel Mooring Buoy

17 INCH DIAMETER—18 GAUGE—WELDED GALVANIZED STEEL ROD THROUGH CENTER EYE ON TOP—SWIVEL ON BOTTOM



Fig. 1068

Made of lead coated steel and further protected by black paint.

A galvanized forged steel rod ¾ inches in diameter passes through a length of pipe which is welded into the buoy, the rod has a 3¼ inch eye on top and a large ¾ inch swivel on bottom.

The body of the buoy is heavily welded at the joints. Bumper is heavy rubber hose fastened by welded clips.

ALL STRAIN IS ON THE ROD.

Load capacity, half submerged, 60 lbs. Equal to 75 feet of ¼ inch chain or 32 feet of ⅝ inch chain.

Without Bumper Each	With Bumper Each	Diam. Buoy Inches	Size Inside Swivel Inches	Weight Pounds
\$11.00	\$14.50	17	3½x2	17



Non-Fouling Anchor
 GALVANIZED DROP FORGED STEEL



Fig. 236

The result of a great deal of experimenting and testing, the flukes are designed to bite and hold on the first pull of the cable, a weldless reinforcing under each fluke will prevent bending or breaking under maximum strain.

Weight Pounds	Galvanized Each	Self Colored Each	Length Overall Inches	Width Across Flukes Inches
5	\$ 3.75	\$ 3.60	17	10
10	4.60	4.30	25	15
15	5.50	5.05	29	18
20	6.25	5.65	31	19
25	7.00	6.25	35	20
30	8.00	7.10	36½	22
35	8.90	7.85	40	22
42	10.50	9.25	40	22
50	12.50	11.00	43	24½
60	15.00	13.20	44½	27½
75	18.75	16.50	46	28
100	25.00	22.00	50	32
125	31.25	27.50	57	32
150	37.50	33.00	59	34½
200	50.00	44.00	65	34½
250	70.00	62.50	62½	43½

Grappnels
 GALVANIZED DROP FORGED STEEL
 FIVE PRONG



Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$2.30	15	\$4.20
7	2.60	20	5.50
10	2.90		

Larger sizes—prices on application.

Grappling Irons
 GALVANIZED DROP FORGED STEEL



Fig. 1094

Weight Pounds	Each	Height Inches	Width Inches	Number of Prongs
1½	\$1.70	7½	6	4

Navy Type Anchor
 DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Price Each	Weight Pounds	Price Each
5	\$1.50	50	\$ 9.50
10	2.30	60	11.00
15	3.00	80	15.00
20	3.75	100	18.50
25	4.75	125	23.00
30	5.50	150	27.50
35	6.50	200	37.00
40	7.50		

Swivel Anchors
 GALVANIZED



Fig. 174

Weight Pounds	Price Each	Weight Pounds	Price Each
5	\$1.50	50	\$ 9.50
10	2.30	60	11.00
15	3.00	80	15.00
20	3.75	100	18.50
25	4.75	125	23.00
30	5.50	150	27.50
35	6.50	200	37.00
40	7.50		

Northhill Folding Anchors

STAINLESS STEEL OR GALVANIZED
TREMENDOUS HOLDING POWER
LIGHT WEIGHT

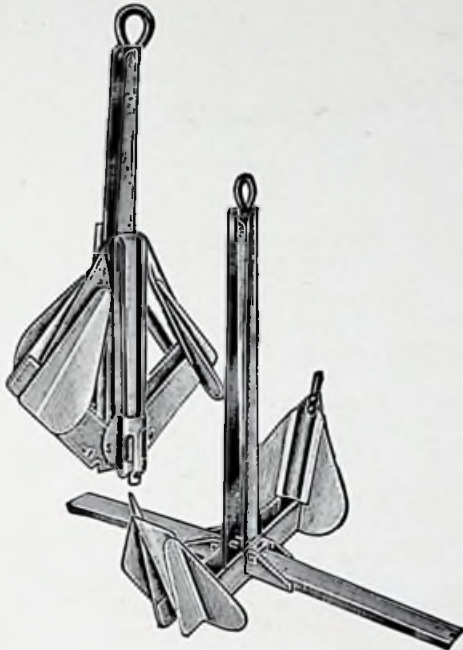


Fig. 441

Northhill Anchors are scientifically designed to hold!—irrespective of weight.

Northhill Anchors have an average holding power of 60 times their own weight—as compared to averages ranging from 2½ to 1 or 8 to 1 in other styles.

Northhill Anchors save weight, space, time and physical effort.

Widely used by the U. S. Navy and foreign governments.

In the Northhill Anchor a new design of fluke has been developed that buries itself in the bottom because of its shape and proportion alone.

When not in use it folds compactly and is easily stowed away.

The comparative table below has been compiled from data of the Bureau of Construction and Repair, U. S. Navy; from exhaustive tests of Pan-American Airways and other authorities.

Northhill Anchor Type No.	Holding Power Pounds	Stainless Steel Each	Galvanized Steel Each	Weight of Kedge Anchor Ratio 7 to 1 Pounds	Weight of Navy Anchor Ratio 2½ to 1 Pounds
6	240		\$19.50	35	96
12	720	\$ 38.50	24.50	100	300
20	1200	58.50	38.50	175	650
30	1800	97.50		260	720
50	3000	187.50		425	1200
80	4800	247.50		700	1900

Type No. indicates approximate weight.

NOTE—A 12 pound Northhill Anchor outholds a 300 pound navy type stockless anchor.

Formula to determine required anchor holding power for various type craft:

Power Cruiser Types—7% of gross weight.

Motor Boat Types—6% of gross weight.

Sail Boats (centerboard types)—5% of gross weight.

Sail Boats (keel types)—10% of gross weight.

Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED
NORTHILL HOLDING POWER AT LOW PRICE

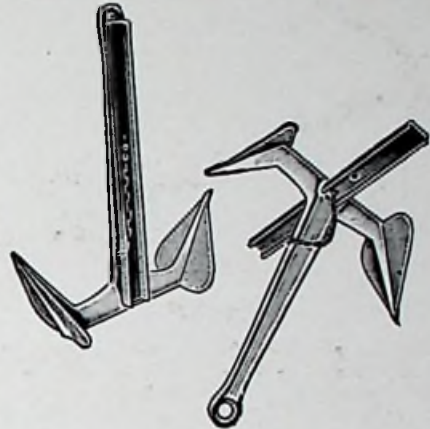


Fig. 1067

Has removable stock for compact stowage. These anchors have tremendous structural strength and the same proven scientific advantages as the original Northhill folding anchors.

Type No.	Galv. Each	Weight Pounds	Com- parative Weight Kedge Type Pounds	Com- parative Weight Navy Type Pounds
6-R	\$10.50	13	65	180
12-R	18.50	25	130	360
20-R	28.50	47	200	725

Mushroom Anchor

STEEL SHANK RIVETED THROUGH HEAD

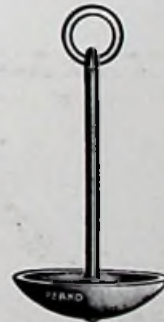


Fig. 142

All sizes have eye in shank for shackle. Price does not include ring illustrated.

Small sizes are furnished with mud holes.

Weight Pounds	Galv. Each	Self Colored Each	Weight Pounds	Self Colored Each
5	\$1.65	\$1.45	100	\$ 7.00
8	2.25	1.95	125	8.75
10	2.50	2.15	150	10.50
15	3.15	2.65	200	14.00
20	4.00	3.00	250	17.50
25	4.35	3.25	300	21.00
35		3.40	350	24.50
50		3.50	400	28.00
75		5.25	450	31.50
			500	35.00



Trawl and Sand Anchors

DROP FORGED STEEL

FAST STOCK

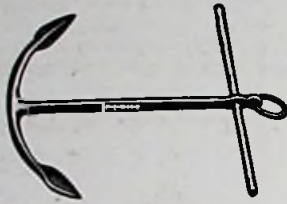


Fig. 364

Weight Pounds	Galvanized Each	Self Colored Each
5	\$ 2.30	\$ 2.10
10	3.20	2.75
15	4.10	3.40
20	5.00	4.10
25	6.10	5.00
30	7.25	6.00
35	8.40	6.90
40	9.60	7.80
50	11.25	9.25
60		
75		
100		

LOOSE STOCK

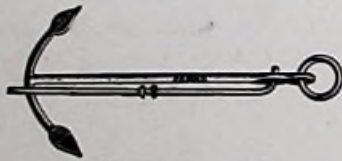


Fig. 365

Weight Pounds	Galvanized Each	Self Colored Each
5	\$ 3.35	\$ 3.20
10	4.15	3.85
15	4.95	4.50
20	5.50	4.90
25	6.30	5.65
30	7.20	6.30
35	8.00	6.95
40	9.45	8.25
50	11.35	9.85
60		
75		
100		

New Fishing Anchor

FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Japanned Each	Galvanized Each	Diam. Inches	Height Inches
7	\$.90	\$1.00	\$1.10	6	8
11	1.30	1.40	1.65	7	9
15	1.80	1.90	2.25	8	10

Folding Anchors

GALVANIZED MALLEABLE IRON

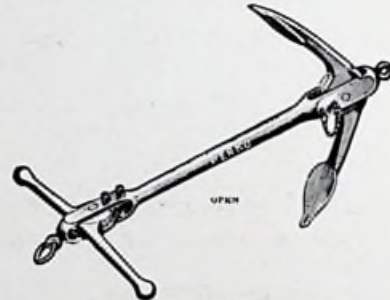


Fig. 226

Weight Pounds	Each	Length Inches	Weight Pounds	Each	Length Inches
6	\$ 2.85	19	30	\$12.80	34
8	3.85	22	35	15.00	36
10	4.80	23	45	19.00	38
12	5.60	25	55	23.00	41
15	6.80	28	76	31.00	44
20	8.80	30			
25	10.80	33			

Galvanized Buoy Rods

COMPLETE AS ILLUSTRATED

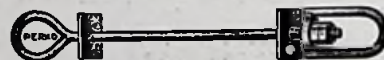


Fig. 278

Diam. Inches	Length Under Eye Inches	Price Each
1/2	18	\$1.90
1/2	20	2.00
3/8	24	2.50
3/8	30	2.75
3/8	33 1/2	4.00
3/8	37 1/2	4.25
3/8	43 1/2	4.50
7/8	37 1/2	7.00
7/8	43 1/2	7.50
7/8	52	8.00

Note: All anchors are subject to government tolerance of plus or minus 5% in weight.



Anchor Trip Hooks

CAST BRONZE—PLAIN



Fig. 1038

A fine grade, heavy bronze Hook of great tensile strength. Hook is held in working position by positive locking device with cotter pin on chain to prevent accidental tripping. A pull on the tripping lever when cotter is removed immediately releases hook as shown by dotted lines.

No.	Price Each	Length Inches	Diam. Hook Inches	For Block Inches	Weight Pounds
1	\$3.25	5	5/8	3 1/2	1
2	3.85	5 1/2	3/4	4	1 1/2

Anchor Balancing Bands

GALVANIZED DROP FORGED STEEL



Fig. 1095

Usually used on kedge or non-fouling anchors. One of these bands placed about the anchor shank at center of gravity is of great aid in handling.

No.	Each	For Anchors Weighing Pounds
0	\$1.75	25 to 60
1	2.50	75 to 125
2	3.50	150 to 200

Anchor Keys

GALVANIZED DROP FORGED STEEL

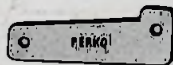


Fig. 1096

Used for locking the stock in loose stock anchors such as kedge, non-fouling and sand.

Size No.	Each	Length Inches	For Anchor Weighing Pounds
1	\$.10	2 3/8	4 to 6
2	.15	2 3/8	8 to 20
3	.20	3 1/2	25 to 50
4	.25	4 3/4	60 to 100
5	.25	5	125 to 250

Anchor Chocks

CAST BRONZE—PLAIN

Made for the purpose of keeping the anchor in a set place on deck ready for instant use, and to prevent the damage caused by an anchor not fastened down when a rough, choppy stretch of water is encountered.

Many boat owners have suffered wasteful expense repairing gouged decks, ventilators, hatch covers, etc., because they neglected to install anchor chocks for their deck anchors.

FOR NAVY TYPE ANCHORS

For all sizes of anchors up to 60 pounds inclusive.

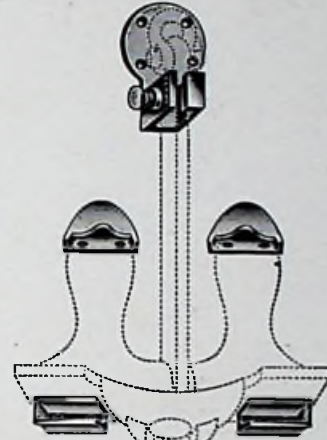


Fig. 938

Consists of 5 pieces illustrated. Lashing is unnecessary as the head of shank is locked in place by an overhang and thumb screw arrangement. Flukes cannot move out of recess until the shank is released.

Anchor does not touch deck at any point.

Keep thumb screw coated with heavy grease.

Price Per Set of 5 Pieces\$5.25

FOR KEDGE AND NON FOULING ANCHORS

For all sizes of kedge anchors up to 60 pounds inclusive.

For all sizes of non fouling anchors up to 75 pounds inclusive

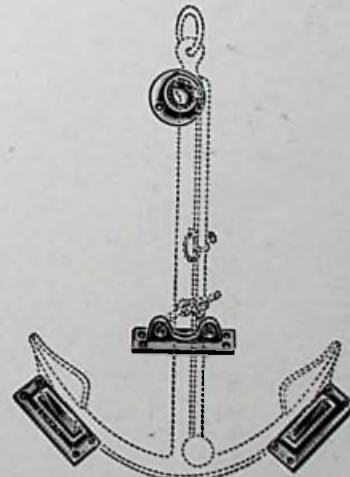


Fig. 939

Consists of four pieces illustrated, including the fitting for lashing down, which has two eyes large enough for 3/4 inch rope.

Anchor does not touch deck at any point.

Price Per Set of 4 Pieces\$3.60

MARINE LAMPS FOR THE HOME

A beautiful assortment of table lamps and fixtures for the homes of yachtsmen and others who desire the savor of the sea in their home decorations.

What would be more appropriate in yacht clubs, marine decorated dens or basements, as trophies for boat or yacht races, and especially in any room or office where pleasure or business has some connection with the sea and vessels that sail upon it.

All shades are hand painted in beautiful colors on parchment, leather laced.

All bases are brass and bronze, highly polished and lacquered.

All lamps wired with .6 feet rubber covered cable and plug attached.



Fig. 1126

"SEA FOAM"

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass	Chromium Plated
Each	Each
\$10.00	\$11.50

Shades Only
Each
\$2.50

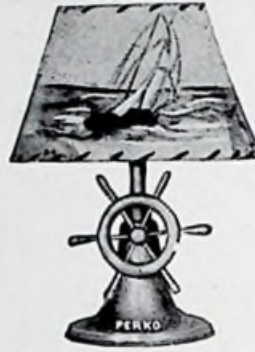


Fig. 1129

"MARINER"

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass	Chromium Plated
Each	Each
\$11.50	\$14.00

Shades Only
Each
\$2.50



Fig. 1120

NAUTILUS

Height, 22"
Diam. Base, 5¼"
Diam. Shade, 16"
Diam. Wheel, 12"

Bronze Steering Wheel.

Hand painted sail cloth shade.

Complete with Shade

Polished Brass
Each
\$21.00

Chromium Plated
Each
\$25.00

Shades Only
Each
\$6.00



Fig. 1130

"HATTERAS"

With fresnel lens, additional socket inside lens, with switch.

With clear, red, green or blue lens.

Ht. Overall, 13 in.
Diam. Shade, 10 in.
Diam. Base, 6 in.

Complete with Shade

Polished Brass	Chromium Plated
Each	Each
\$11.50	\$14.00

Shades Only
Each
\$2.50

Specify color of lens.



Fig. 1123

NOMAD

Height, 20"
Diam. Base, 5¼"
Diam. Shade, 16"
Size Glass, 4x4¼"

Glass clear. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass
Each
\$19.00

Chromium Plated
Each
\$21.00

Shades Only
Each
\$6.00



Fig. 1124

SEA GULL

Height, 10½"
Diam. Base, 4¼"
Diam. Shade, 16"
Size Globe, 6x6"

Globe frosted. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass
Each
\$21.00

Chromium Plated
Each
\$26.00

Shades Only
Each
\$6.00

"PERKO" MARINE HOUSE FIXTURES

All constructed of heavy brass or copper, with original marine fresnel magnifying lens, glass dome bottom for reflecting light downward and standard screw sockets. All wired to meet requirements of fire underwriters, ready for installation.

Universal Pattern

With cast bronze ring in top for loose hanging from chain or wall bracket. Hinged dome bottom.



Fig. 471

No.	Height Inches	Diam. Inches	Size Globe Inches
1	9	4½	3¾ x 3½
2	11½	5½	4¼ x 4¼

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$7.00	\$ 9.00	\$2.50
2	8.50	11.00	2.50

Turret Pattern

With cast bronze ring for hanging. A regular ship's anchor light fitted up for fixture use.



Fig. 436

No.	Height Inches	Diam. Inches	Size Globe Inches
22	17	7½	5½ x 6
22½	18½	7½	6 x 6½
23	21½	9½	7 x 8

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
22	\$27.50	\$33.00	\$ 6.00
22½	30.00	35.00	6.00
23	36.00	46.00	10.00

With red, green, or blue globes, add \$5.00 each.

Universal Pattern

WITH WALL BRACKET

Diameter bracket 4½ inches.



Fig. 363

No.	Height Inches	Diameter Inches	Size Globe Inches
1	9	4½	3¾ x 3½
2	11½	5½	4¼ x 4¼

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$ 8.50	\$10.50	\$2.50
2	10.50	12.50	2.50

Marine Pattern

Half round body with flat back for mounting on wall or side of post. With front door for cleaning or re-bulbing and bracket.



Fig. 442

No.	Height Overall Inches	Width Inches	Size Lens Inches
1	11	5	4¼ x 6¼
2	13	5½	5¼ x 7¼

With Clear Lens

No.	Galvanized Each	Polished Brass Each	Chromium Plated Add Each
1	\$5.50	\$7.00	\$2.50
2	7.00	9.50	2.50

With colored lens, red or green—add \$1.00 each.

Universal Pattern

WITH CEILING CANOPY

Diameter canopy 4½ inches.



Fig. 361

No.	Height Inches	Diam. Inches	Size Globe Inches
1	9	4½	3¾ x 3½
2	11½	5½	4¼ x 4¼

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$ 8.50	\$10.50	\$2.50
2	10.50	12.50	2.50

Triangle Pattern

A triangular shaped body for mounting in corners.

With front door for cleaning or re-bulbing and bracket.



Fig. 443

No.	Height Overall Inches	Width of Sides Inches	Size Lens Inches
1	11	5½	4¼ x 4¼
2	13	5¾	5¼ x 5¼

No.	Galvanized Each	Polished Brass Each	Chromium Plated Add Each
1	\$5.50	\$7.00	\$2.50
2	7.00	9.50	2.50

Furnished with clear, red or green lenses. Specify color desired.

Figs. 361, 363, 471 with red, green, blue, or amber globes add \$2.00 to above prices.

Figs. 361, 363, 436, 471 with open bottom, no glass, deduct \$1.00 each.

Anchor Candle Sticks

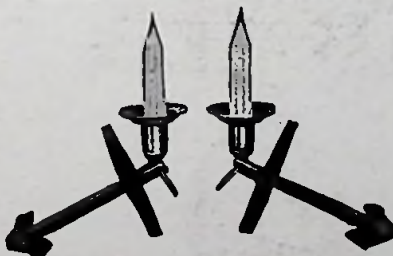


Fig. 1133

Polished Bronze Per Pair	Chromium Plated Per Pair	Height Inches	Length Inches
\$6.50	\$8.25	4½	6¾



Fig. 519

Knight Pattern

With cast bronze ring in top for hanging.

No.	Height Inches	Diam. Inches	Size Globe Inches
1	8½	4½	3¾ x 3¾
2	12	5¾	4¾ x 4¾

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$7.50	\$ 9.50	\$2.50
2	9.00	11.00	2.50



Fig. 437

Royal Pattern

With clear globe and ring in top for hanging.

No.	Height Inches	Width Inches	Globe Inches
1	12	8	6x 6
2	16	10	8x 8
3	23	12½	10x 10

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$12.00	\$13.00	\$3.00
2	14.50	16.00	3.00
3	26.00	30.00	5.00



Fig. 440

Knight Pattern WITH DAVIT BRACKET

No.	1	2
Height	10½	13
Projection	8¾	10
Size globe	3¾ x 3¾	4¾ x 4¾
Diam. wall plate	4½	4½

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$12.50	\$14.50	\$3.50
2	14.00	16.00	3.50
Bracket only	4.50	5.00	1.50



Fig. 438

Royal Pattern WITH WALL BRACKET

No.	Height Overall Inches	Diam. Wall Plate Inches
1	13	4½
2	17	4½
3	24	4½

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$13.50	\$14.50	\$3.50
2	16.00	18.00	3.50
3	28.00	31.00	5.50

Nautical Ashtrays CAST BRONZE

These are very popular for marine rooms in homes, clubs or anywhere the marine motive is carried out.

Yacht



Fig. 1135

Dory

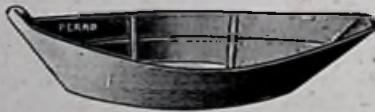


Fig. 1136

Whale Boat



Fig. 1137

Type	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Overall Inches	Height Overall Inches
Yacht	\$2.00	\$2.50	\$3.00	5¾	2
Dory	.70	.95	1.20	6	1½
Whale Boat	.60	.85	1.10	6	1

Whale boat is brushed finish, not polished



Fig. 556

Royal Pattern WITH CEILING CANOPY

No.	Height Overall Inches	Diam. Canopy Inches
1	12¾	4¾
2	16¾	4¾
3	24	4¾

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$13.50	\$14.50	\$3.50
2	16.00	18.00	3.50
3	28.00	31.00	5.50

Royal pattern fixtures can be furnished with red, green, blue, or frosted globes. Add \$3.00 to above prices.

Knight pattern fixtures with red, green, blue or amber lenses, add \$2.00 each.

All above fixtures with open bottom, no glass, deduct \$1.00 each.

Colonial Pattern

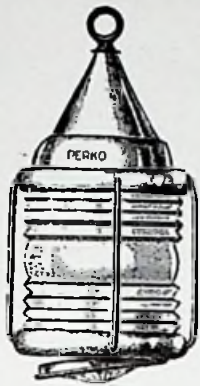


Fig. 518

With cast bronze ring in top for hanging from chain or wall bracket. Hinged dome bottom.

No.	Height Inches	Diam. Inches	Size Globe Inches
1	7 1/4	4	3 3/8 x 3 1/2
2	8	4 3/4	4 1/4 x 4 1/4
3	9 1/4	6	5 3/8 x 6

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$ 5.50	\$ 8.00	\$2.50
2	7.00	9.00	2.50
3	10.00	12.00	2.50

Bishop Pattern WITH IMPERIAL BRACKET

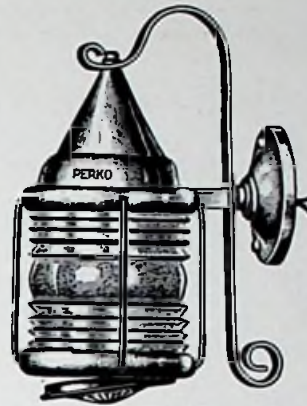


Fig. 464

Same lamp as Fig. 518 with spun wall plate 4 1/2 inches in diameter.

No.	Height Overall Inches	Width Overall Inches
1	9 1/4	7 1/2
2	10 1/4	8 1/2

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$12.00	\$14.50	\$3.00
2	13.50	15.50	3.00

Colonial Pattern WITH WALL BRACKET



Fig. 799

Diameter Bracket, 4 1/2 inches

No.	Height Inches	Diam. Inches	Size Globe Inches
1	7 1/4	4	3 3/8 x 3 1/2
2	8	4 3/4	4 1/4 x 4 1/4
3	9 1/4	6	5 3/8 x 6

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$ 7.50	\$ 9.50	\$2.50
2	8.50	10.50	2.50
3	11.50	14.00	2.50

Ceiling Canopies



Fig. 465



Fig. 558

Furnished with one link of chain.

Fig.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each	Diam. Inches	Depth Inches
558	\$2.25	\$2.50	\$.85	4 1/2	1
465	2.75	3.50	.85	5	6

Brass or Copper Chain, per foot\$1.10

Colonial Pattern WITH CEILING CANOPY



Fig. 360

Diameter Canopy, 4 1/2 inches

No.	Height Inches	Diam. Inches	Size Globe Inches
1	7 1/4	4	3 3/8 x 3 1/2
2	8	4 3/4	4 1/4 x 4 1/4
3	9 1/4	6	5 3/8 x 6

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$ 7.50	\$ 9.50	\$2.50
2	8.50	10.50	2.50
3	11.50	14.00	2.50

Anchor Book Ends CAST BRONZE

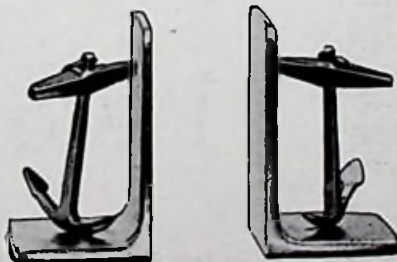


Fig. 1132

Height Inches 5
Polished Bronze Per Pair \$11.50

Base Inches 3 1/2 x 3
Chromium Plated Per Pair \$14.50



Fig. 1134

The "Lighthouse" ELECTRIC

A very attractive novelty, especially useful as a night light, and will harmonize very well in any place nautically decorated.

Made entirely of cast aluminum alloy, in steel gray finish. Equipped with 110 volt bulb, and toggle switch in base, furnished for steady light or flashing, on and off lighting.

Extreme Height Inches	Diam. Base Inches	Weight Pounds
11 3/4	6 3/4	3 1/2

	Each
Steady light, no flasher	\$19.00
Intermittent light, with flasher	20.00



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