

Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917)

1943 Pitkin Ave., Brooklyn 7, N. Y.

157 Snediker Ave., Brooklyn 7, N. Y.

Manufacturers of

Running Lights, Searchlights, Binnacles, Steering Wheels, Stoves,
Pumps, 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. 120

1948



Branch Sales Offices

85 BROOKVALE ST.
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675 DELAWARE AVE.
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LOS ANGELES 15, CAL.

909 WESTERN AVE.
SEATTLE 4, WASH.

FOREWORD AND GENERAL INFORMATION



This catalog has been arranged for convenient reference by grouping the material according to its application in the marine field.

You will find illustrated herein a number of new items added to our fast growing line, also most of the items that were discontinued during the past war years.

Of course we continue our strictest rules of adherence to highest quality and finish, fastest possible delivery and cooperation with our numerous friends and customers throughout the world.

PRICES AND TERMS

Our costs are subject to change due to causes beyond our control. The prices listed herein are only intended for guidance of our jobbers and do not necessarily establish resale prices. Applicable governmental regulations, shipping costs and other complications must be considered in arriving at a fair price. All prices are subject to change without notice and are 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 defects, 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 handling and refinishing 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.



LOUIS E. PERKINS
PRESIDENT



WM. J. MURPHY
VICE PRESIDENT AND
GEN'L SALES MANAGER



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SOUTHERN STATES
FLORIDA, GEORGIA,
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UNITED STATES COAST GUARD
MOTORBOAT REGISTRATIONS & NAVIGATION FINES SECTION

Requirements for Motorboats NOT in Commercial Service

EQUIPMENT	CLASS A 0' to 15'11"	CLASS 1 16' to 25' 11"	CLASS 2 26' to 39'11"	CLASS 3 40' to 65'
COMBINATION LIGHT	1—in fore part of boat showing red to port and green to starboard from right ahead to 2 Points abaft the beam. Visible at least 1 mile.			
PORT SIDE LIGHT			1—on port side, properly screened to show red from right ahead to 2 points abaft the beam, visible at least 1 mile.	
STARBOARD SIDE LIGHT			1—on starboard side, properly screened to show green from right ahead to 2 points abaft the beam. Visible at least 1 mile.	
STERN LIGHT	1—bright white light aft showing all around the horizon. Visible at least 2 miles.			
BOW LIGHT			1—bright white light in fore part of boat showing from right ahead to 2 points abaft the beam on both sides. Visible at least 2 miles.	
WHISTLE		1—hand, mouth, or power-operated. Audible at least ½ mile.	1—hand or power-operated. Audible at least 1 mile.	1—power-operated. Audible at least 1 mile.
BELL			1—which produces, when struck, a clear bell-like tone of full round characteristics.	
LIFESAVING DEVICES	1—life preserver or ring buoy or buoyant cushion for each person on board. (Approved.)			1—life preserver or ring buoy for each person on board. (Approved).
FLAME ARRESTORS	1—on each carburetor of all gasoline engines installed after April 25, 1940.			
VENTILATION	At least 2 ventilators with cowls or equivalent capable of removing gases from the bilges in engine and fuel tank compartments of boats constructed or decked after April 25, 1940, using gasoline or other fuel of a flashpoint less than 110° Fahrenheit.			
FIRE EXTINGUISHERS	(1) 1-qt. carbon tetrachloride or (1) 1¼ gallon or (L) 4-lb. CO ₂ extinguisher.		(2) 1-qt. carbon tet. or (2) 1¼ gal. foam or (2) 4-lb. CO ₂ extinguishers.	(3) 1-qt. carbon tet. or (3) 1¼ gal. foam or (3) 4-lb. CO ₂ extinguishers.

"Perko" De-Lite Combination Lights

TURRET TOP—FRONT DOOR

FOR CLASS ONE BOATS—16 FEET AND OVER AND LESS THAN 26 FEET IN LENGTH

OIL AND ELECTRIC, DOUBLE CONTACT

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9 1/8 inches

Measurements of base, 5 inches x 5 1/2 inches

Size of lens, 3 1/8 inches x 3 3/8 inches

Weight, 3 3/4 pounds



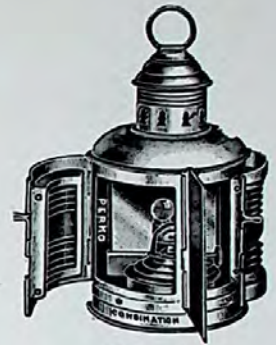
(Closed)

Galvanized
Each
\$9.75

Fig. 0-1

Polished
Brass
Each
\$11.00

Chromium
Plated
Each
\$13.75



(Opened)

De-Lite Combination Lights

FLAT TOP—FRONT DOOR

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 1/8 inches x 3 3/8 inches

Weight, 3 pounds



(Closed)

Galvanized
Each
\$9.75

Fig. 0-10

Polished
Brass
Each
\$11.00

Chromium
Plated
Each
\$13.75



(Opened)

Old Style Combination Lights

TURRET TOP—BOTTOM OPENING

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 1/8 x 3 3/8 inches.

Weight, 2 3/4 pounds.



Fig. 1

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$7.50	\$8.75
Oil and Electric	8.25	9.50

Chromium plated finish, add \$2.50 each to Pol. Brass price.

Electric Socket is Double Contact.

Old Style Combination Lights

FLAT TOP—BOTTOM OPENING

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 1/8 x 3 3/8 inches.
Weight, 2 pounds.



Fig. 3

	Galvanized Each	Polished Brass Each	Chromium Plated Each
	\$7.50	\$8.75	\$11.25

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD **\$1.25 EACH**

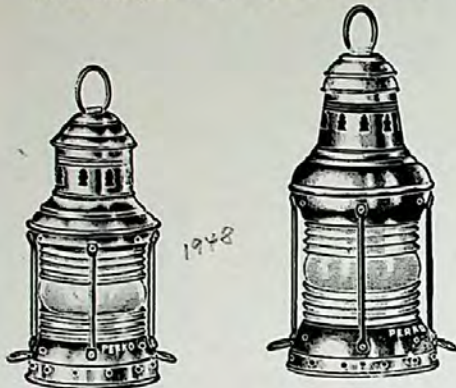
SPARE PARTS

	Each
Lenses, fig. 259, Class 1 Combination.....	\$1.50
Oil Founts, fig. 582, Brass, for fig. 01.....	1.25
Oil Founts, fig. 733, Brass, for fig. 1.....	1.25
Oil and Electric Founts, fig. 733, Brass, for fig. 1.....	3.00
Oil Burners, fig. 246, No. 0, Brass.....	.25
Oil Wicks, fig. 302 No. 0.....	.04
Electric Sockets, Medium Screw fig. 222.....	.60
Electric Sockets, Double Contact fig. 276.....	.60



"Perko" De-Lite Anchor Lights

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



Junior
Fig. 0-2

Senior
Fig. 0-6

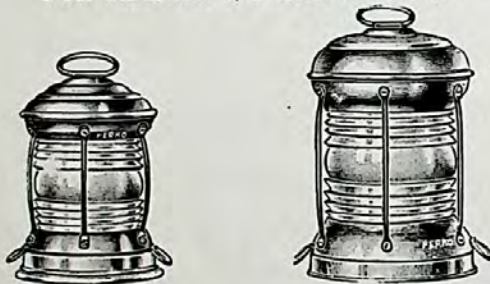
Fig.	Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
0-2	8 3/8	4 1/2	3 1/8 x 3 1/8	2
0-6	11 3/4	5 5/8	4 1/4 x 4	3

OIL OR ELECTRIC ONLY

Fig.	Galv. Each	Polished Brass Each	Chromium Plated Each
0-2	\$6.00	\$7.25	\$10.00
0-6	7.50	8.75	11.50

Comb. Oil and Electric, add \$.50 each.
Fig. 0-6 w/ith Hinged Bottom, add \$.65 each.

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



Junior
Fig. 11

Senior
Fig. 12

Fig.	Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
11	6	4 1/2	3 1/8 x 3 1/8	1 1/2
12	9	5 5/8	4 1/4 x 4	2 1/2

ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

Fig.	Galv. Each	Polished Brass Each	Chromium Plated Each
11	\$6.00	\$7.25	\$10.00
12	7.50	8.75	11.50

With Red, Green, Blue or Amber Lens.
Figs. 0-2 and 11, add \$1.65 each.
Figs. 0-6 and 12, add 2.00 each.

All above lights with Medium Screw Electric Sockets,
add \$1.25 each.

SPARE PARTS

Item	Each
Lenses, fig. 261, Clear, for figs. 02 and 11	\$1.50
Lenses, fig. 261, Clear, for figs. 06 and 12	2.00
Oil Founts, fig. 287, Brass, for fig. 02	1.25
Oil Founts, fig. 286, Brass, for fig. 06	1.25
Oil and Electric Founts, fig. 735, for figs. 0-2 & 11	3.00
Oil and Electric Founts, fig. 736, for figs. 0-6 & 12	3.00
Oil Burners, fig. 246, No. 0, Brass, for fig. 02	.25
Oil Burners, fig. 246, No. 1 Brass, for fig. 06	.30
Other parts, see page 5.	

10 Day Oil Anchor Light

360 DEGREE CLEAR FRESNEL LENS
LATCHED SWIVEL FOUNT



Fig. 596

Fig. 596A

At least 10 days of continuous light on one filling of
good grade Kerosene. Wick is non-carbonizing type.

Polished Brass Each	Size Lens Inches	Height Overall Inches	Diam. Fount Inches	Capacity Fount Plnts	Weight Pounds
\$19.50	4 1/4 x 4	14	7	3 1/2	4 1/2

With red, green or blue lens, add \$2.00 each.

Fig. 596-A Fount complete, \$10.00 each.

Light only, less Fount, \$12.00 each.

Spare burners, wicks and chimneys, see figs. 245
and 272.

Spare lenses, see fig. 261.

Navy or Life Boat Lantern

OIL BURNING—APPROVED

Height Inches	Diam. of Base Inches	Size of Globe Inches	Weight Lbs.
11	5 5/8	4 x 6 1/2	3

	Galv. Each	Pol. Brass Each
With clear globe.....	\$8.50	\$10.00
With colored globe.....	10.50	12.00

Colored globes are red, green or blue.
With electric adapter fig. 292, add
\$1.25 each.

SPARE PARTS

Globe fig. 262.
Burner fig. 246, size 1.
Wick fig. 302, size 1.
Fount fig. 286.



Fig. 49

Engineer's Hand Lantern

OIL BURNING

Height Inches	Diam. of Base Inches	Size of Globe Inches	Weight Lbs.
9 1/2	4 1/2	2 1/2 x 4 1/4	1



Fig. 50

	Galv. Each
With clear globe.....	\$4.75
With colored globe.....	5.50

Colored globes are red, green or blue.
Brass founts only, \$1.25 each.
Spare Parts — Burner fig. 246, No.
0; Globe fig. 263.

"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, DOUBLE CONTACT

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
\$17.00

Polished
 Brass
 Per Pair
\$19.50

Chromium
 Plated
 Per Pair
\$25.00



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP

CLASS 2—OIL AND ELECTRIC, DOUBLE CONTACT

Height, less ring, 10½ inches
 Size of lens, 4¼ inches x 6¾ inches
 Measurements of base, 5 inches x 5½ inches
 Weight, each, 3 pounds

Fig. 0-5



(Closed)

With clear lens
 With Red, Green or Blue Lens

Galvanized
 Each
\$8.50
 10.00

Polished
 Brass
 Each
\$9.75
 11.25

Chromium
 Plated
 Each
\$12.50
 14.00



(Opened)

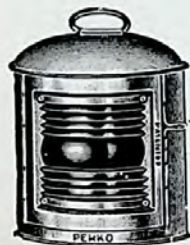
"Perko" De-Lite Side Lights

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



(Closed)

Galvanized
 Per Pair
\$17.00

Polished
 Brass
 Per Pair
\$19.50

Chromium
 Plated
 Per Pair
\$25.00



(Opened)

"Perko" De-Lite Bow Lights

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¾ inches
 Measurements of base, 5 inches x 5½ inches
 Size of lens, 4¼ inches x 6¾ inches
 Weight, each, 2¾ pounds

Fig. 0-50



(Closed)

With clear lens
 With Red, Green or Blue Lens

Galvanized
 Each
\$8.50
 10.00

Polished
 Brass
 Each
\$9.75
 11.25

Chromium
 Plated
 Each
\$12.50
 14.00



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH

SPARE PARTS

Lenses, fig. 259 Class 2, for figs. 04 and 0-40.....	Each	\$2.10
Lenses, fig. 260 Class 2, for figs. 0-5 and 0-50.....	Each	2.10
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5.....	Each	1.25
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-4 and 0-5.....	Each	.30
Oil Wicks, fig. 302 No. 1.....	Each	.05
Electric Sockets, Double Contact fig. 276.....	Each	.60
Electric Sockets, Medium Screw fig. 222.....	Each	.60

"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, DOUBLE CONTACT

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, $5\frac{1}{8}$ inches x $5\frac{1}{8}$ inches
 Weight, per pair, 8 pounds

Fig. 0-8

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$19.50	\$22.50	\$29.00



(Closed)



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP

CLASS 3—OIL AND ELECTRIC, DOUBLE CONTACT

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 Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$9.75	\$11.25	\$14.50
With Red, Green or Blue Lens	11.75	13.25	16.50



(Closed)



(Opened)

"Perko" De-Lite Side Lights

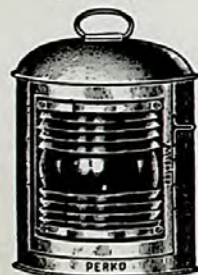
FLAT TOP—CLASS 3

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, $5\frac{1}{8}$ inches x $5\frac{1}{8}$ inches
 Weight, per pair, 7 pounds

Fig. 0-80

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$19.50	\$22.50	\$29.00



(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 Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$9.75	\$11.25	\$14.50
With Red, Green or Blue Lens	11.75	13.25	16.50



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH

SPARE PARTS

Lenses, fig. 259 Class 3, for figs. 0-8 and 0-80.....	Each	\$2.60
Lenses, fig. 260 Class 3, for figs. 0-9 and 0-90.....	Each	2.60
Oil Founts, fig. 532, Brass, for figs. 0-8 and 0-9.....	Each	1.25
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-8 and 0-9.....	Each	.30
Oil Wicks, fig. 302 No. 1.....	Each	.05
Electric Sockets, Double Contact fig. 276.....	Each	.60
Electric Sockets, Medium Screw fig. 222.....	Each	.60

Old Style Class 2 Side Lights

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



Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{4}$ 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	\$12.00	\$14.00
Oil and Electric	13.00	15.00

Chromium plated finish, add \$5.00 per pair to Polished Brass price.

Fig. 17

Old Style Class 2 Bow Lights

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



Size of Lens, $4\frac{1}{4} \times 6\frac{3}{8}$ 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	\$6.00	\$7.00
Oil and Electric	6.50	7.50

Chromium plated finish, add \$2.50 each to Polished Brass price.

With Red, Green, or Blue Lens
Add \$1.65 Each.

Fig. 18

Old Style Class 3 Side Lights

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



Size of Lenses, $5\frac{3}{8} \times 5\frac{7}{8}$ 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	\$15.00	\$17.50
Oil and Electric	16.50	19.00

Chromium plated finish, add \$5.50 per pair to Polished Brass price.

Fig. 19

Old Style Class 3 Bow Lights

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



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	\$7.50	\$8.75
Oil and Electric	8.25	9.50

Chromium plated finish, add \$2.75 each to Polished Brass price.

With Red, Green, or Blue Lens
Add \$2.00 Each

Fig. 20

Old Style Flat Top Side Lights

CLASS 2 AND 3
BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

CLASS 2

Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{4}$ 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 lbs.

CLASS 3

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



Fig. 4

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
2	\$12.00	\$14.00	\$19.00
3	15.00	17.50	23.00

Old Style Flat Top Bow Lights

CLASS 2 AND 3
BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

CLASS 2

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



Fig. 5

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$6.00	\$7.00	\$ 9.50
3	7.50	8.75	11.50

Class 2 with Red, Green, or Blue lens add \$1.65 each.
Class 3 with Red, Green, or Blue lens add \$2.00 each.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.25 EACH.

ALL LIGHTS ON THIS PAGE WITH HINGED BOTTOMS ADD \$.65 EACH.

SPARE PARTS

Oil and Electric Founts fig. 736
Oil Founts, fig. 286
Lenses, figs. 259 and 260

Electric Founts, figs. 291 or 292
Electric D.C. Adapters fig. 355
Oil Burners and Wicks figs. 246 and 302 No. 1



Sail Boat Side Lights

SMALL SIZE — OIL BURNING

Designed for Sail Boats where small oil burning side lights are desirable. Electric socket is bayonet double contact.



Size of Lens Inches	Extreme Height Inches	Diam. of Base Inches	Weight Per Pair Pounds
3 1/4 x 3 3/8	9	4 1/4	4
	Galvanized Per Pair	Pol. Brass Per Pair	
	\$12.00	\$14.50	

Oil and Electric, with Fig. 735 Fount, add \$1.00 per pair.

Spare Lenses, see Fig. 259, Class 1.

Spare Founts, see Figs. 287 or 735.

Spare Burners and Wicks, see Figs. 246 and 302 No. 0.

Fig. 69

"Sport Kit" Lights

FLASHLIGHT BATTERY TYPE — 2 CELL
ALL BRASS — NICKEL PLATED

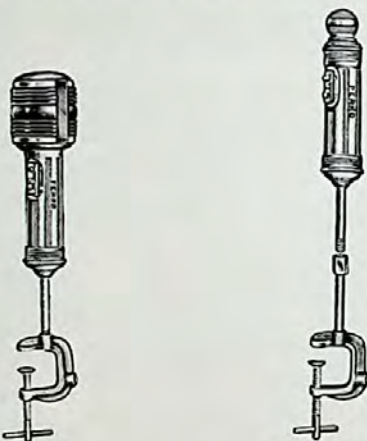


Fig. 1142

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.

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 1/4	Fig. 1142 2 1/4 x 3	Fig. 1143 1 3/8	1

Fig. 1142 Each \$8.25

Fig. 1143 Each \$7.50

Extra Bulbs Each \$.20

Clearance in regular clamp is 1 3/8"; with larger clamp, 2" clearance, add \$.50 each.

Price includes one bulb in each light, no batteries.



Fig. 68

Battery Anchor Light

COPPER CASE — WATERTIGHT WITH TURN SWITCH AND BULB

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

Without Battery Each	With Battery Each	Height Overall Inches	Diameter at Base Inches
\$13.00	\$14.50	9	4 3/8

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

Spare globes, see 250.

Spare batteries \$1.30 each.

Spare bulbs \$.28 each.

Battery Navigation Lights

HINGED DOOR — INTERNAL SWITCH — WATERPROOF

FOR TWO FLASHLIGHT DRY CELLS

Especially desirable on sailboats having no storage battery or generator.

Battery cells are enclosed in a container within the light body, doubly protected against weather yet easily replaceable. The switch is part of the inner container, therefore also waterproof.

Bulbs are included; batteries extra.

Combination Lights

WITH BACK BRACKET — CLASS 1

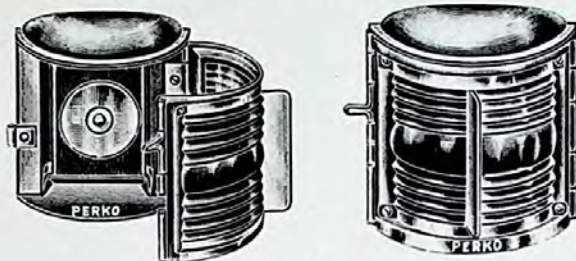


Fig. 40

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Width Overall Inches	Size Lenses Inches	Weight Pounds
\$10.00	\$12.00	5 5/8	5 3/8	3 5/8 x 3 3/8	2 1/4

Side Lights

CLASS 2

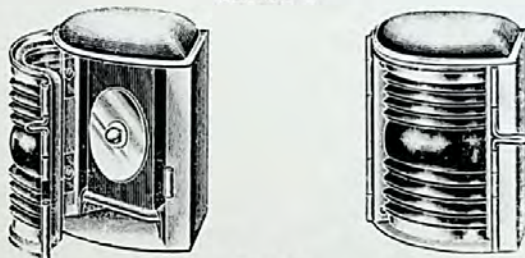


Fig. 41

Polished Brass Per Pair	Chromium Plated Per Pair	Height Overall Inches	Size Lenses Inches	Weight Per Pair Pounds
\$18.00	\$22.00	5 3/8	4 1/4 x 4 3/4	4

Bow Lights

CLASS 2

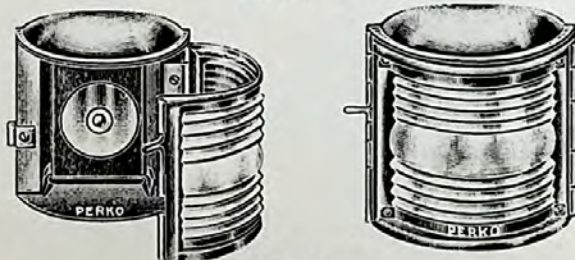


Fig. 42

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Width Overall Inches	Size Lens Inches	Weight Pounds
\$9.00	\$11.00	5 3/8	5 1/2	4 1/4 x 6 3/8	2

Spare Inner Containers for above lights, \$2.00 each.

Spare Lenses, see Figs. 259 and 260.

Spare Bulbs and Batteries available in any hardware store.

Royal Combination Lights

GALVANIZED IRON AND BRASS
ELECTRIC ONLY — DOUBLE CONTACT
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.
3 3/4	4 1/4	3 1/8 x 3 3/8	1 1/4
Galvanized Each	Polished Brass Each	Chromium Plated Each	
\$5.50	\$6.50	\$8.75	

Spare Lenses, see Fig. 259, Cl. 1.

Royal Side Lights

ELECTRIC ONLY — DOUBLE CONTACT
FOR CLASSES 1, 2 AND 3 BOATS

Same construction as above.



Fig. 91

Class	Height Inches	Size Lens Inches	Weight per Pair Lbs.
Class 1	4 1/4	3 1/8 x 3 3/8	1 3/4
Class 2	5	4 1/4 x 4 3/4	2
Class 3	6	5 1/8 x 5 3/8	3
		Galv. Brass Per Pair	Pol. Brass Per Pair
Class 1		\$8.00	\$10.00
Class 2		8.50	10.50
Class 3		10.00	12.00

Spare Lenses, see Fig. 259.

Royal Bow Lights

ELECTRIC ONLY — DOUBLE CONTACT
FOR CLASSES 1, 2 AND 3 BOATS

Same construction as above.



Fig. 92

Class	Height Inches	Size Lens Inches	Weight Each Lbs.
Class 1	4 1/4	3 1/8 x 5 3/8	1
Class 2	5	4 1/4 x 6 1/8	1 1/2
Class 3	6	5 1/8 x 7 1/8	2
		Galv. Brass Each	Pol. Brass Each
Class 1		\$4.00	\$5.00
Class 2		4.25	5.25
Class 3		5.00	6.00

Spare Lenses, see Fig. 260.

Royal Anchor Lights

ELECTRIC ONLY — DOUBLE CONTACT
FOR CLASS 1, 2 AND 3 BOATS



Fig. 90

	Height Inches	Size Lens Inches	Weight Each Lbs.
Junior	4 1/2	3 1/8 x 3 1/8	1 1/4
Senior	5 1/2	4 1/4 x 4	2
		Pol. Brass Each	Chrom. Plated Each
Junior		\$5.25	\$7.50
Senior		7.00	9.25

Spare Lenses, see Fig. 261.

Above lights cannot be equipped with medium screw sockets

Spare Brackets, see Fig. 25.

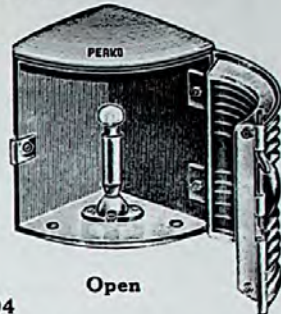
Spare Electric Adapters, see Fig. 138.

De-Lite Side Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE



Closed



Open

Fig. 504

A quick change of bulb or lens is simple. 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 medium 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 3/4	6 1/2
3	6	4 x 4	5 1/8 x 5 1/8	8
		Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each
2		\$21.00	\$25.50	\$2.10
3		25.50	30.00	2.60

With medium screw sockets, add \$2.50 per pair.

Spare D.C. Sockets, see Fig. 276.

Spare Lenses, see Fig. 259.

With clear lens, Class 2 and 3, add \$1.25 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 medium screw socket.

Class	Height Inches	Width Inches	Lens Inches	Weight Lbs.
2	5 1/2	5 1/2	4 1/4 x 6 3/8	3 1/4
3	6 1/2	6	5 1/8 x 7 1/8	4 1/4
		Polished Bronze Each	Chromium Plated Each	Spare Lenses Each
2		\$10.50	\$12.75	\$2.10
3		12.75	15.00	2.60

With medium screw sockets, add \$1.25 Each.

Spare D.C. Sockets, see Fig. 276.

Spare Lenses, see Fig. 260.

With Red or Green Lens, Class 2, add \$1.65 Each.

With Red or Green Lens, Class 3, add \$2.00 Each.

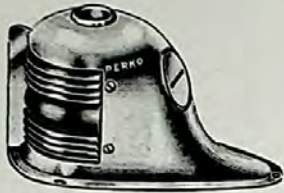


COMBINATION LIGHTS—ELECTRIC

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

Lightweight Streamline Pattern

WITH REBULBING FEATURE
HEAVY GAUGE PRESSED BRASS



Rear view showing method of changing bulb

Fig. 1140

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	Spare Lenses Each	Rebulbing Feature Only Each	
\$6.00	\$7.25	\$1.00	\$1.65	

Spare D.C. Sockets, see Fig. 747, No. 2.

WITHOUT REBULBING FEATURE AND FLAG POLE SOCKET



Fig. 1140-A

With red and green fresnel lenses and double contact socket.

Dimensions same as Fig. 1140 above.

Bright dipped brass finish only.

\$4.50 Each

Spare D.C. Sockets, see Fig. 747, No. 2.

Wrought Brass Type



Fig. 485

For Permanent Mounting



Fig. 486

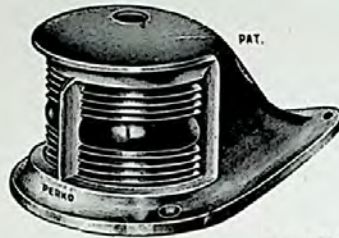
For Temporary Mounting

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

Fig.	Height Overall Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.
485	4 1/2	2 1/2	2 1/8 x 3	3/4
486	4	2 1/2	2 1/8 x 3	1
	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
Fig.	\$4.25	\$5.50	\$1.00	\$.70
485				
486	5.00	6.25	1.00	\$.65

Streamline Pattern

WITH REBULBING FEATURE
CAST BRONZE



Rear view showing method of changing bulb

Fig. 598

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.

No.	Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
1	3 1/8	3 3/8 x 6 1/4	2 1/8 x 3	3/4	2
2	3 3/4	4 7/8 x 8	2 1/8 x 3	1	2 1/2
3	4 3/8	5 1/2 x 8 3/4	3 1/8 x 3 3/8	1	4 3/4
	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
No.	\$10.50	\$12.00	\$1.00	\$.35	
1					
2	12.50	14.00	1.00	.35	
3	15.75	18.75	1.50	.35	

Spare Lenses, see Fig. 259.

Spare D.C. Sockets, see Fig. 747, No. 2.

Lightweight Type

FOR LARGE CLASS 1 MOTORBOATS
PRESSED BRASS

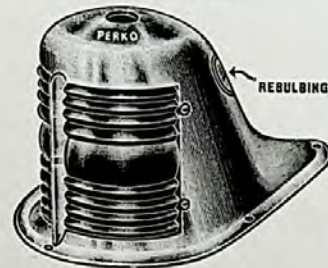


Fig. 1141

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

Furnished with red and green fresnel lenses and double contact electric socket. With flag pole socket in top.

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
5 1/8	5 3/8 x 9 1/2	4 1/4 x 3 3/8	1	2
Plain Brass Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$9.75	\$10.50	\$12.50	\$2.00	\$.35

Spare D.C. Sockets, see Fig. 747, No. 2.

Plain brass finish is bright dipped.

Streamline Side Lights

CAST BRONZE
CLASSES 2 AND 3—ELECTRIC

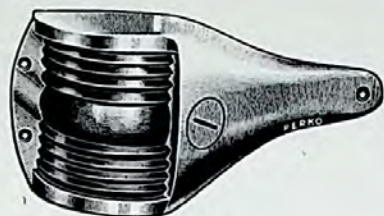


Fig. 563

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.

Class	Height Inches	Length Inches	Size Lens Inches	Weight Per Pair Lbs.
2	4 3/4	10 1/8	4 1/4 x 4 3/4	5 1/2
3	6	10 1/2	5 1/8 x 5 1/8	7 1/2

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$19.00	\$23.00	\$2.10	\$.35
3	28.00	33.00	2.60	.35

Spare Lenses, see Fig. 259.

Spare D.C. Sockets, see Fig. 747 No. 2.

Streamline Bow Lights

CAST BRONZE
CLASSES 2 AND 3—ELECTRIC

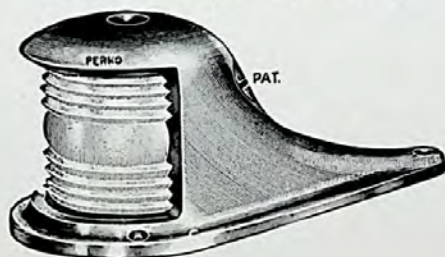


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Base Inches	Lens Inches	Weight Pounds	Flagpole Socket Inches
2	5 1/4	5 3/4 x 11 1/2	4 1/4 x 6 3/8	7	1
3	6 3/8	6 3/8 x 13	5 1/8 x 7 1/8	8 3/4	1

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$17.00	\$21.00	\$2.10	\$.35
3	24.00	29.00	2.60	.35

Spare Lenses, see Fig. 260.

Spare D.C. Sockets, see Fig. 747 No. 2.

Lightweight Streamline Side Lights

PRESSED BRASS
CLASS 2—ELECTRIC



Fig. 1138

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 1/8	9 5/8	4 1/4 x 4 3/4	3 1/4

Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
\$13.75	\$15.00	\$19.00	\$2.10	\$.35

Plain brass finish is bright dipped.

Spare Lenses, see Fig. 259.

Spare D.C. Sockets, see Fig. 747 No. 2.

Lightweight Streamline Bow Lights

PRESSED BRASS
CLASS 2—ELECTRIC

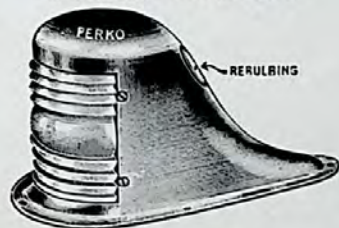


Fig. 1139

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 Inches	Weight Pounds
5 1/8	5 3/8 x 9 1/2	4 1/4 x 6 3/8	1	2

Plain Brass Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$9.00	\$9.75	\$11.75	\$2.10	\$.35

Plain brass finish is bright dipped.

Spare Lenses, see Fig. 260.

Spare D.C. Sockets, see Fig. 747 No. 2.

With Flag Pole Socket add \$.75 each.

Furnished without Flag Pole Socket unless otherwise specified.



Improved Pole Light Assembly

2½ OR 3 INCH GLOBE, FIG. 250 OR 251
 COMPLETE WITH FLAG POLE SOCKET AND
 ELECTRIC CONNECTIONS IN POLE AND SOCKET
 HOLLOW MAHOGANY POLE—VARNISHED



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.

Globe will accommodate bulb up to 50 C. P.

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Diam. Base of Pole Inches
24	\$9.75	\$11.50	1¼
30	10.00	11.75	1¼
36	10.25	12.00	1¼
48	11.25	13.00	1¼
Spare clear globes (2½ or 3 inch),			\$1.50 Each
Spare electric bulb sockets fig. 747,			.35 Each
Electric connectors only, (male and female),			\$1.65 per set
Complete except F. P. socket, deduct			1.65 Each
With Red, Green or Blue Globe, add			.50 Each
Furnished with 2½ inch globe unless otherwise specified			

Junior Pole Light Assembly

1½ INCH FRESNEL BALL GLOBE, FIG. 604
 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	\$8.75	\$10.50	1
24	9.00	10.75	1¼
30	9.25	11.00	1¼
Complete except F. P. socket—deduct			\$ 1.30 Each
Spare clear globes,			1.00 Each
Spare electric bulb sockets, fig. 747,			.35 Each

Junior Pole Light Assembly

ELECTRIC CONNECTIONS IN POLE AND SOCKET
 HOLLOW BRASS POLE—CAST BRONZE SOCKET
 1½ INCH FRESNEL BALL GLOBE, FIG. 604



Fig. 846

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Diam. Pole Inches
20	\$7.50	\$9.25	¾
24	7.75	9.50	¾
30	8.00	9.75	¾
Complete except F. P. socket, deduct			\$.80 Each
Spare clear globes,			1.00 Each
Spare electric bulb sockets fig. 747,			.35 Each

Combination Flag Pole and Light

ELECTRIC—HOLLOW MAHOGANY POLE
2½ OR 3 INCH CLEAR GLOBE, FIG. 250 OR 251
DOUBLE CONTACT SOCKET—WIRED



Length Overall Inches	Polished Brass Each	Chromium Plated Each
24	\$6.00	\$7.25
30	6.25	7.50
36	6.50	7.75
48	7.50	8.75

Diameter Base (all lengths) 1¼ inches.

Fig. 492

NOTE—Furnished with wire outlet through side of pole instead of bottom if desired. Add \$.35 each.

Globe will accommodate up to 50 C. P. bulb.

2½ inch globes furnished unless 3 inch is specified.

Spare clear globes (2½ or 3 inch) \$1.50 Each

Spare electric bulb sockets Fig. 747, .35 Each

With Red, Green or Blue Globe, add .50 Each

Connectors for above, see Fig. 283 .25 Each

Junior Flag Pole Lights

ELECTRIC—HOLLOW MAHOGANY POLE
1½ INCH FRESNEL BALL GLOBE, FIG. 604
DOUBLE CONTACT SOCKET—WIRED



Length Overall Inches	Diam. Base Inches	Weight Oz.	Polished Brass Each	Chromium Plated Each
20	¾	7		
24	¾	8		
30	¾	9		
Height Inches	Polished Brass Each	Chromium Plated Each		
20	\$5.00	\$6.00		
24	5.25	6.25		
30	5.50	6.50		

Globe will accommodate 6 C. P. bulb.

Spare clear globes, \$1.00 Each

Spare electric sockets Fig. 747, \$.35 Ea.

Connectors for above, see Fig. 283.

Fig. 602

Junior Flag Pole Lights

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



Length Overall Inches	Diam. Pole Inches	Weight Oz.	Length Overall Inches	Polished Brass Each	Chromium Plated Each
20	¾	11	20	\$5.50	\$7.25
24	¾	12	24	5.75	7.50
30	¾	16	30	6.00	7.75

Fig. 603

Connectors for above, see Fig. 283.

New Adjustable Flag Pole Light

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



Adjustable to various lengths down to 5 inches if desired. Knurled nut holds pole firmly in socket. Connectors pass through socket for removal of pole.

Maximum Length Inches	Diam. Pole Inches	Weight Pounds	Maximum Length Inches	Polished Brass Each	Chromium Plated Each
20	¾	1¼	20	\$6.00	\$7.50
24	¾	1½	24	6.25	7.75
30	¾	1½	30	6.50	8.00

Fig. 609

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



Length Overall Inches	Each	Diameter Base Inches
18	\$1.25	¾
18	1.50	1
24	2.25	1
30	3.25	1¼
36	4.25	1¼
48	5.25	1¼

With brass ferrule, add \$.50 Each.

Fig. 496

Pole Lights

BRASS—WITH THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET—NOT WIRED

JUNIOR TYPE
WITH 1½ INCH GLOBE, FIG. 604
FOR SMALL BOATS—MAXIMUM BULB 6 C. P.



Fig. 600



Fig. 601

Polished Brass Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each	Height Inches	I. D. Neck Inches	Wt. Oz.
\$3.25	\$4.25	\$1.00	\$.35	4¼	¾	7

STANDARD TYPE
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251
FOR CLASS 1, 2 AND 3 BOATS
MAXIMUM BULB 50 C. P.



Fig. 491



Fig. 482

No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Diam. Globe In.	Height In.	I. D. Neck In.	Wt. Oz.
1	\$4.00	\$5.00	\$1.50	2½	5	¾	12
2	4.00	5.00	1.50	3	5¾	¾	14

HEAVY DUTY TYPE
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251



Fig. 484



Fig. 498

No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Diam. Globe In.	Height In.	I. D. Neck In.	Wt. Lbs.
1	\$5.50	\$6.50	\$1.50	2½	5	¾	1
2	5.50	6.50	1.50	3	5¾	¾	1½

NOTES

Figs. 484, 491 and 600 for wiring through bottom
Figs. 482, 498 and 601 for wiring through side
With Red, Green or Blue Globe, add \$.50 Each

Stern Lights

BRASS—WITH THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET

JUNIOR TYPE
WITH 1½ INCH GLOBE, FIG. 604
FOR SMALL CRUISERS—MAXIMUM BULB 6 C. P.



Fig. 404

Polished Brass Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each	Height Overall Inches	Diam. Base Inches	Wt. Oz.
\$3.75	\$4.75	\$1.00	\$.35	3½	2¾	7

STANDARD TYPE
GLOBE HOLDER SPUN FROM SHEET BRASS
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251

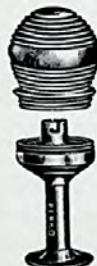


Fig. 422

No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight Ounces
1	\$4.50	\$5.75	2½	5½	2¾	12
2	4.50	5.75	3	6	2¾	14
3	5.25	6.75	3	12	2¾	20

HEAVY DUTY TYPE
GLOBE HOLDER MILLED FROM BRASS ROD
WITH 2½ OR 3 INCH GLOBE FIG. 250 OR 251



Fig. 506

No.	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Weight Ounces
1	\$6.25	\$7.50	2½	5½	2¾	18
2	6.25	7.50	3	6	2¾	20
3	7.00	8.50	3	12	2¾	26

NOTES

Spare clear globes for Figs. 422 and 506, \$1.50 Each
Spare sockets Fig. 747, \$.35 Each
With Red, Green or Blue Globe, add \$.50 Each



Stern Lights CAST BRONZE



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.

Fig. 375

Height Inches	Diam. Base Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs
7	3 1/2	3 1/2	3 1/8 x 3 1/8	2 3/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each
\$9.75	\$10.75	\$12.50	\$1.50	\$.35

With red, green, blue or amber lens, add \$1.25 each.
With medium screw socket fig. 346 for 15 watt bulb, add \$1.25 each.

Mast Lights CAST BRONZE



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

Fig. 521

Height Inches	Diam. Body Inches	Size Lens Inches	Inside Length Neck Inches	Inside Neck Diameter Inches	Weight Lbs.
6 3/4	3 1/2	3 1/8 x 3 1/8	2 1/2	1 1/4 or 1 1/2	2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each	
\$9.25	\$10.00	\$11.25	\$1.50	\$.35	

With red, green, blue or amber lens, add \$1.25 each.
With medium screw socket fig. 346 for 15 watt bulb add \$1.25 each.

Stern Lights

CAST BRONZE
WITH FIG. 106 THREADED GLOBE
FOR BULB UP TO 60 WATTS



Equipped with clear fresnel lens and fig. 222 medium screw electric socket.

Height Overall Inches	Diam. Base Inches	Size of Globe Inches	Weight Pounds
8 3/4	3 1/8	5 x 3 1/2	3 3/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	
\$7.00	\$7.50	\$8.75	

Spare globes, \$2.25 each.
Spare sockets, \$.60 each.

Fig. 112

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, add \$.60 each.

Mast Lights CAST BRONZE WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 60 WATTS



Equipped with clear fresnel lens and fig. 222 medium screw electric socket.

Height Overall Inches	Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
9	1 3/4	2 1/2	5 x 3 1/2	4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$7.50	\$8.50	\$10.00		

Spare globes, \$2.25 each.
Spare sockets, \$.60 each.

Fig. 113

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, add \$.60 each.

Stern Light WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height desired.

Height Overall Inches	Diam. Base Inches	Diam. Neck Inches	Size Lens Inches	Weight Pounds
10	3 1/2	7/8	3 1/8 x 3 1/8	1 3/4

Polished Brass Each	Chromium Plated Each
\$8.00	\$9.50

For each additional inch above standard height add \$.15.

With red, green, blue or amber lens, add \$1.25 each.

Spare clear lens fig. 261, \$1.50 each.
Spare socket fig. 276, .60 each.



Fig. 1119

Improved Mast Light

CAST BRONZE—WITH THREADED LENS GUARD
INTEGRAL CABLE ENTRANCE WITH
TERMINAL TUBE



With Fig. 106 Clear Threaded Globe for bulb up to 60 watts, medium screw base.

Height Overall Inches	Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
10	1 3/4	2 1/2	5 x 3 1/2	5 1/2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$12.50	\$13.75	\$15.75		

Spare globes, \$2.25 each.
Spare guards, \$2.50 each.
Spare sockets, \$.60 each.

Fig. 83

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, add \$.60 each.

Pole or Mast Light

HEAVY BRASS—THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET—FOR 1/2 INCH PIPE



Fig. 362

With 2 1/2 or 3 inch globe fig. 250 or 251, will accommodate up to 50 C. P. bulb.

No.	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Diam. Globe In.	Height Overall In.	Diam. Base In.	Wt. Lbs.
1	\$4.25	\$5.00	\$5.75	2 1/2	3 1/2	2 1/4	1
2	4.25	5.00	5.75	3	4	2 1/4	1 1/8

Mast and Yardarm Lights

CAST BRONZE—CLEAR FRESNEL GLOBE
MEDIUM SCREW SOCKET—FOR 15 WATT BULB



Fig. 103



Fig. 104

Fig. 103 threaded for 1/2 inch pipe.

Fig. 104 for mounting on Truck or Yardarm.

Will accommodate 15 watt A-17 bulb.

Fig.	Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Globe Inches	Weight Pounds
103	\$6.25	\$7.25	6	3	2
104	7.00	8.25	5 5/8	3	2

Chromium plated finish, add \$1.25 to polished price.

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

Spare clear globes fig. 249, add \$1.65 each.

Spare sockets fig. 222, \$.60 each.

With double contact socket fig. 276, add \$.60 each.

Mast Lights

BRASS BASE—CLEAR FRESNEL GLOBE
MEDIUM SCREW SOCKET



Fig. 488

Fig. 488 threaded 1/2 inch I. P. S.

Fig. 489 drilled for mounting on mast truck.

Fig.	Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening In globe Inches	Weight Pounds
488	\$4.25	\$5.00	6	2 3/4	5 1/2 x 2 3/4	1 7/8	2

Chromium plated finish, add \$1.00 to polished price.

Spare clear globes fig. 77, \$1.50 each.

With red, green or blue globe, add \$.80 each.

Special porcelain electric sockets only fig. 222, \$.90 each

Bulbs for above, 120 volt 10 watt, clear \$.40 each.



Fig. 489

Mast Light

CAST BRONZE—WITH MEDIUM SCREW SOCKET
FIG. 106 THREADED GLOBE—60 WATT



Fig. 309

Height Overall Inches	Size Globe Inches	Opening In globe Inches	Tapped for Pipe Size Inches	Weight Pounds
6 1/2	5 x 3 1/2	2 3/4	1/2	2 1/2

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
\$6.50	\$7.25	\$8.50

With red, green, blue or amber globe, add \$1.75 each.
Spare clear globes fig. 106, \$2.25 each.

Spare sockets fig. 222, \$.60 each.

With double contact socket fig. 276, add \$.60 each.

Guarded Mast Light

CAST BRONZE—WITH MEDIUM SCREW SOCKET
LENS GUARD AND FIG. 106 GLOBE—60 WATT



Fig. 145

Plain Bronze Each	Height Overall Inches	Size Globe Inches	Opening in Globe Inches	Tapped for Pipe Size Inches	Weight Pounds
\$9.75	7 3/8	5 x 3 1/2	2 3/4	1/2	3 1/4

Spare Threaded Brass Guards \$2.50 each.

Other Spares and Extras, see Fig. 309 above.

Meal and Absent Light

CAST BRONZE—WATERTIGHT



Fig. 329 with Double Contact Socket
Fig. 330 with Medium Screw Socket

For mounting on yardarm. Supplied with two Fresnel globes, one blue, the other clear.

Fig.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Diam. Globe Inches	Wt. Lbs.
329	\$13.00	\$16.50	9	3 3/8 x 1 3/4	2 1/2	2
330	15.00	18.50	10	3 3/8 x 1 3/4	3	2 1/2

Bulbs for Fig. 329, see Fig. 337 all sizes listed.

Bulbs for Fig. 330, see Fig. 8 all sizes listed.

Combination Blinker and Loading Light

CAST BRONZE—BLACK FINISH
WITH RED AND CLEAR FRESNEL LENSES
MEDIUM SCREW BAKELITE SOCKETS

Four sockets in lower section for 25 watt tubular bulbs. One socket in upper section for bulb up to 60 watt. Bulbs not included. Base threaded 1 inch I. P. S.

Extreme Height Inches	Size Red Lens Inches	Size Clear Lens Inches	Wt. Lbs.
16½	5x3½	5½x5¼	18

Each	Tubular Bulbs Each	Spare Sockets Each
\$63.00	\$.75	\$.60

Spare clear lenses fig. 261, \$6.00 each.

Spare red lenses fig. 106, \$4.00 each.

With larger thread in base up to 1½ inch I. P. S., add \$1.30 each.



Fig. 1163

Portable Staff Light

ELECTRIC—360° FRESNEL LENS
WITH PACKING GLAND FOR
CABLE
MEDIUM SCREW SOCKET

Size Lens Inches	Height Less Balls Inches	Diam. Base Inches	Weight Pounds
4¼ x 4	8¼	5¾	2½

Polished Brass Each	Polished Copper Each
\$19.50	\$25.00

With red, green or blue lens, add \$2.00 each.

Spare lenses, see fig. 261, Senior.



Fig. 16

Globe—Distress or Signal Light

CLEAR GLOBE
OIL BURNING

Diam. Globe Inches	Height Overall Inches	Weight Pounds
6	11	4
8	14½	6
10	22	12

Diam. Globe Inches	Galvanized Steel Each	Polished Brass Each
6	\$12.75	\$18.00
8	14.75	21.50
10	26.50	36.00



Fig. 44

With red, green, blue or frosted globe, add \$3.00 each. Electric only, same prices as above.

Comb. oil and electric 6 and 8 inch, add \$1.50 each.

Comb. oil and electric 10 inch, add \$2.25 each.

Hinged bottom furnished with 8 inch size only.

SPARE PARTS

Size	Globes	Burners	No.	Fig.	Wt. Pounds	Elec. Fig.
6	Fig. 264	Fig. 246	No. 0	Fig. 735		Fig. 274
8	Fig. 264	Fig. 246	No. 1	Fig. 286		Fig. 292
10	Fig. 264	Fig. 242	No. 2	Fig. 282		Fig. 288

Mast or Blinker Signaling Lights

CAST BRONZE—WATERTIGHT—BLACK FINISH
WITH 360° FRESNEL LENS



Fig. 403

Size No.	Size Lens Inches	Height Overall Inches	I. P. S. Thread Inches	Weight Pounds	For Vessel Feet
1	3 1/8 x 3 1/8	6 3/4	1/2	4	up to 65
2	4 1/4 x 4	8 1/4	3/4	6	65 to 150
3	5 1/2 x 5 1/4	9 3/4	1	10	over 150

Size No.	Clear Each	Colored Each	Electrical Equipment
1	\$18.50	\$19.50	1 medium screw socket
2	21.50	23.00	1 medium screw socket
2-C	24.00	25.50	1 mogul 3 wire socket
3	30.00	35.50	1 medium screw socket
3-A	34.00	39.25	4 medium screw sockets
3-D	32.75	38.00	1 mogul 3 wire socket

All above sockets are Phenolic (Bakelite).

For spare lenses, see fig. 261.

Colored lenses are red, green, blue or amber.

BULBS FOR ABOVE

120 volt 60 watt A-19 clear for nos. 1, 2, 3, \$.55 each.

120 volt 25 watt T-10 clear for no. 3-A, \$.85 each.

120 volt 50/50 watt P-25 clear for no. 2-C, 3-D, \$5.50 each.

Watertight Blinker Key

CAST BRONZE—BLACK FINISH—IMPROVED
TUNGSTEN POINTS—CONDENSER



Fig. 9

Condenser is metal encased, 400 volts D. C. .25 M. F. D. Ground test 2000 volts. Cover sealed by 6 screws and rubber gasket. Box has three mounting lugs.

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$23.50	4¾	2¾	2¾	4

ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Watertight — Cast Bronze Rebulbing Cap — Terminal Tubes
MOGUL 3-WIRE PHENOLIC SOCKETS FIG. 270 FOR DOUBLE FILAMENT BULBS



Fig. 1150

Side Lights, Fig. 1150

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS
WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
1	\$68.00	\$85.00	6¾	11	7¼ x 7¼	18	65 to 150
2	90.00	107.00	7½	13½	9½ x 9½	30	over 150
3	160.00	186.00	8½	15¼	10¾ x 10¾	36	over 150

Masthead, Range and Towing Lights, Fig. 1151

225 DEGREE CLEAR LENS—20 POINT
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Pounds Each
1	\$34.00	\$42.50	6¾	11	7⅞ x 7¾	8⅞	10
2	45.00	53.50	7½	13½	9 x 10	10⅞	15
3	80.00	93.00	8½	15¼	10¾ x 11¼	12¾	21

With red or green lens (special purpose) add \$8.00 each.



Fig. 1151



Fig. 1152

Stern Lights, Fig. 1152

135 DEGREE CLEAR LENS—12 POINT
WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Height Lens Fig. 269 Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs inches	Weight Pounds Each
1	\$34.00	\$42.50	6¾	11	7 x 7½	8⅞	9
2	45.00	53.50	7½	13½	9 x 10	10⅞	12
3	80.00	93.00	8½	15¼	10⅞ x 10¾	12¼	15

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.

Anchor Lights, Fig. 1153

360 DEGREE CLEAR LENS—32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$33.00	\$41.50	6¾	12½	7¾	11
2	44.00	52.50	7½	14¼	9½	16
3	79.00	92.00	8½	15¼	11	22

Breakdown Lights, Fig. 1154

360 DEGREE RED LENS—32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Pounds
1	\$38.00	\$46.50	6¾	12½	7¾	11
2	49.00	57.50	7½	14¼	9½	16
3	86.50	99.50	8½	15¼	11	22



Fig. 1153
Fig. 1154

NOTES

Above prices do not include bulbs.

Complete with double filament bulb fig. 532, 50 or 100 watt, add \$5.50 each.

With Medium Screw Phenolic Sockets fig. 346, deduct \$1.00 each.

Spare cast bronze watertight caps with gasket, \$5.00 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

American Improved Hinged Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302



Fig. 1155

No.	Galvanized Steel Each	Polished Brass Each
0	\$32.75	\$41.25
1	34.00	42.50
2	45.00	53.50
3	80.00	93.00

With red or green lens, (special purpose) add \$8.00 each.



Fig. 1157



Oil Lamp used in Lights on this page

No.	Each
0-1	Comp. \$4.00
2-3	Comp. \$5.00

Side Lights, Fig. 1155

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$65.50	\$82.50	5½	13¾	6¾ x 6¾	14	65 to 90
1	68.00	85.00	6¾	14¾	7¼ x 7¼	18	90 to 150
2	90.00	107.00	7½	18	9½ x 9½	29	over 150
3	160.00	186.00	8½	19¾	10¾ x 10¾	38	over 150

Masthead, Range and Towing Lights, Fig. 1156

225 DEGREE CLEAR LENS—20 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$32.75	\$41.25	5½	13¾	7 x 7¼	8½	7
1	34.00	42.50	6¾	14¾	7½ x 7¾	8½	9
2	45.00	53.50	7½	18	9 x 10	10½	15
3	80.00	93.00	8½	19¾	10¾ x 11¼	12¾	21



Fig. 1156

Stern Lights, Fig. 1157

135 DEGREE CLEAR LENS—12 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$32.75	\$41.25	5½	13¾	7 x 7¼	8½	6
1	34.00	42.50	6¾	14¾	7 x 7½	8½	8
2	45.00	53.50	7½	18	9 x 10	10½	13
3	80.00	93.00	8½	19¾	10½ x 10¾	12¼	16

With red or green lens (special purpose) add \$8.00 each.
With 45 degree red lens (for suction dredges) add \$12.00 each.

Anchor Lights, Fig. 1158

360 DEGREE CLEAR LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$31.75	\$40.25	5½	13¾	7¾	10
1	33.00	41.50	6¾	14¾	7¾	11
2	44.00	52.50	7½	18	9½	17
3	79.00	92.00	8½	19¾	11	23



Fig. 1158
Fig. 1159

Breakdown Lights, Fig. 1159

360 DEGREE RED LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$36.75	\$45.25	5½	13¾	7¾	10
1	38.00	46.50	6¾	14¾	7¾	11
2	49.00	57.50	7½	18	9½	17
3	86.50	99.50	8½	19¾	11	23

ELECTRIC ONLY

With Fig. 288 Medium Screw Adapter, use above prices.
With Fig. 289 Medium Screw Adapter, add \$2.00 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$2.25 each.

COMBINATION OIL AND ELECTRIC

With Fig. 288 Medium Screw Adapter, add \$3.00 each.
With Fig. 289 Medium Screw Adapter, add \$5.00 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$5.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG
Flat Top Style — Bottom Opening
MEDIUM SCREW 2 WIRE PHENOLIC ADAPTER FIG. 288 FOR SINGLE FILAMENT BULBS



Fig. 30

Side Lights, Fig. 30

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS
 WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 250 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$47.00	\$64.00	5½	10½	6½ x 6½	12	65 to 90
1	51.00	68.00	6¾	11	7½ x 7½	14	90 to 150
2	69.00	89.00	7½	13½	9½ x 9½	24	over 150

Masthead, Range and Towing Lights, Fig. 983

225 DEGREE CLEAR LENS—20 POINT
 WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	10½	7 x 7	8½	6
1	25.50	34.00	6¾	11	7 x 7	8¾	8
2	34.50	44.50	7½	13½	9 x 9½	10¾	12½

With red or green lens (special purpose) add \$8.00 each.



Fig. 983



Fig. 986

Stern Lights, Fig. 986

135 DEGREE CLEAR LENS—12 POINT
 WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 260 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	10½	7 x 7	8½	5½
1	25.50	34.00	6¾	11	7 x 7	8¾	7
2	34.50	44.50	7½	13½	9 x 9½	10¾	9½

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.

Anchor Lights, Fig. 32

360 DEGREE CLEAR LENS—32 POINT
 WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$22.00	\$30.50	5½	11	7½	8
1	24.00	32.50	6¾	12	7½	9
2	33.00	42.50	7½	14½	9½	13

Breakdown Lights, Fig. 84

360 DEGREE RED LENS—32 POINT
 WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$27.00	\$36.00	5½	11	7½	8
1	29.00	38.00	6¾	12	7½	9
2	38.00	48.00	7½	14½	9½	13



Fig. 32
 Fig. 84

NOTES

Above prices do not include bulbs.

With double 2 wire medium screw adapter fig. 289 (Size 2 only) add \$2.00 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$2.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Turret Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302



Fig. 21

Side Lights, Fig. 21

112½ DEGREE RED AND GREEN LENSES—10 POINT—IN PAIRS WITH BRACKET FOR MOUNTING

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Ring Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
9	\$47.00	\$64.00	5½	14	6½ x 6½	13	65 to 90
10	51.00	68.00	6¾	15	7½ x 7½	15	90 to 150
11	69.00	89.00	7½	18¾	9½ x 9½	26	over 150

Masthead, Range and Towing Lights, Fig. 982

225 DEGREE CLEAR LENS—20 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	14	7 x 7	8½	7½
1	25.50	34.00	6¾	15	7 x 7	8⅝	9½
2	34.50	44.50	7½	18¾	9 x 9½	10⅞	14

With red or green lens (special purpose) add \$8.00 each.



Fig. 982

Stern Lights, Fig. 985

135 DEGREE CLEAR LENS—12 POINT WITH FOUR LUGS FOR MOUNTING

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$23.50	\$32.00	5½	14	7 x 7	8½	6
1	25.50	34.00	6¾	15	7 x 7	8⅝	7½
2	34.50	44.50	7½	18¾	9 x 9½	10⅞	10½

With red or green lens (special purpose) add \$8.00 each.

With 45 degree red lens (for suction dredges) add \$12.00 each.



Fig. 985

Anchor Lights, Fig. 23

360 DEGREE CLEAR LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$22.00	\$30.50	5½	14½	7½	8½
22½	24.00	32.50	6¾	16	7½	10
23	33.00	42.50	7½	18¾	9½	14

Breakdown Lights, Fig. 129

360 DEGREE RED LENS—32 POINT WITH FOUR LASHING EYES AND WIRE GUARDS

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$27.00	\$36.00	5½	14½	7½	8½
22½	29.00	38.00	6¾	16	7½	10
23	38.00	48.00	7½	18¾	9½	14



Fig. 23
Fig. 129

ELECTRIC ONLY

With Fig. 288 Medium Screw Adapter, use above prices.

With Fig. 289 Medium Screw Adapter, add \$2.00 each.

With Fig. 1082 3 Wire Mogul Adapter, add \$2.25 each.

COMBINATION OIL AND ELECTRIC

With Fig. 288 Medium Screw Adapter, add \$3.00 each.

With Fig. 289 Medium Screw Adapter, add \$5.00 each.

With Fig. 1082 3 Wire Mogul Adapter, add \$5.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

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.	Each
169	5 Black ball signal	24	24	2½	\$10.00
170	3 Red ball signal	24	24	2½	14.50
171	4 Black and white ball signal	24	24	2½	17.50
172	1 Black and white frustum	24	48	5	49.00
173	2 Red frustum	24	48	5	49.00
175	6 Clear towing light, galvanized	7½	14½	9	22.00
176	7 Red towing light, galvanized	7½	14½	9	27.00

SPECIAL COLORS MADE TO ORDER—PRICE ON APPLICATION

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. 3 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. See Figs. 982 and 985.

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.



Battery Side Lights For Oil Carriers

112½ DEGREE RED AND GREEN LENSES
TWO MILE VISIBILITY—WITH SWITCH
175 HOURS CONTINUOUS LIGHT



Fig. 1008

Designed for use with two ordinary 1½ volt dry cells such as Eveready No. 6, readily obtainable.

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

Galvanized Per Pair	Spare Bulbs Each	Lens Fig. 259 Each	Height Lens Inches	Height Less Handle Inches	Size Base Inches
\$55.00	\$1.40	\$8.50	6¾	11½	7½x7½

Above price includes bulbs, no batteries.

With batteries, add \$4.40 per pair.

Bulb is double contact 2.7 volts .15 amp. S-11.

Battery containers as illustrated, complete with reflector, socket, bulb and switch. Without batteries, \$23.60 per pair.

Masthead and stern lights of above design made to order—Price on application.

Bulkhead Lantern

WITH REMOVABLE GLASSES
OIL BURNING



Fig. 46

Size Body		Height Overall Inches
Front Inches	Side Inches	
9 x 13	7¾ x 13	16
Galvanized Each	Polished Brass Each	Glasses Only Each
\$23.00	\$31.50	\$1.00

Brass fount only, with burner, wick and chimney, \$6.00 each.

30 Day Battery Anchor Or Loading Light

360 DEGREE CLEAR FRESNEL LENS
WATERTIGHT—WITH SWITCH



Fig. 470

For use with four ordinary 1½ volt dry cells such as Eveready No. 6, readily obtainable.

720 continuous hours of light on one set of batteries.

No.	Galv. Steel Each	Polished Copper Each	Size Lens Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$25.00	\$29.00	4¼ x 4	16½	6½	5½
2	39.00	43.00	5½ x 5¼	18	6½	8½

No. 1 with red, green, blue or amber lens, add \$2.00 each.

No. 2 with red, green, blue or amber lens, add \$4.50 each.

Above prices include bulb, no batteries.

With batteries, add \$4.40 per set.

Spare bulbs, 6 volt .04 amp. miniature base, \$.30 each.

Spare lenses, see fig. 261.

Spare switches, see fig. 745.

Spare sockets, \$.45 each.

Spare battery containers, galv., \$9.00 each. Copper, \$11.00 each.

8 Day Western Trap Light

360 DEGREE CLEAR FRESNEL LENS
OIL BURNING—LATCHED FOUNT



Fig. 14

With special Zenith burner and gear arrangement for control of wick from exterior of light.

Eight days of continuous light on one filling.

Galvanized Steel Each	Height Lens Inches	Height Overall Inches	Diam. Bottom Inches	Capacity Fount Pints	Weight Pounds
\$75.00	7½	22	10	6	20

With red, green or blue lens, add \$5.25 each.

Fount complete with burner and gears, \$32.75 each.

Light only, without fount, \$50.00 each.

Zenith burner only, \$1.75 each.

Zenith burner with gears, \$5.00 each.

Spare lenses, see fig. 261.

Regulation Pier Lights, Fig. 59

OIL—180 DEGREE RED FRESNEL LENS
WITH FOUR FIG. 131 BRACKETS FOR MOUNTING
BOTTOM OPENING—SWIVEL FOUNT



Fig. 59

Galvanized Steel Each	Spare Lens Each	Height Lens Inches	Height Overall Inches	Size Base Inches	Width Overall Inches	Weight Pounds
\$51.00	\$14.50	7 3/8	21	9 x 10	14 1/2	13

With flat top for electric only, \$51.00 each.

Combination Oil and Electric, \$54.00 each.

With green or clear lens, same prices as above.



Fig. 80

Regulation Mid Channel Span Lights, Fig. 80

OIL—360 DEGREE GREEN FRESNEL LENS
FOUR LASHING EYES AND WIRE GUARD
BOTTOM OPENING—SWIVEL FOUNT

Galvanized Steel Each	Polished Brass Each	Spare Lens Each	Height Lens Inches	Height Less Handle Inches	Diam. Base Inches	Weight Pounds
\$49.00	\$57.50	\$14.40	7 1/2	18	9 1/2	17

With flat top for electric only, same price as above.

Combination Oil and Electric, add \$3.00 each.

With red or blue lens, same prices as above.

Regulation Draw Bridge Lights, Fig. 63

OIL—360 DEGREE CLEAR FRESNEL LENS
TWO RED AND TWO GREEN FLAT GLASS PANELS
BOTTOM OPENING—SWIVEL FOUNT

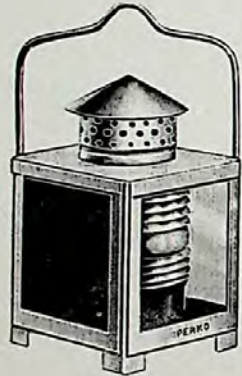


Fig. 63

Galvanized Steel Each	Spare Lens Each	Spare Founts Each	Height Lens Inches	Height Less Handle Inches	Width Overall Inches	Size Panels Inches	Weight Pounds
\$72.00	\$10.50	\$7.00	7 1/2	18	11 1/4	9 1/2 x 10 1/2	18

Electric only, same price as above.

Combination Oil and Electric, add \$5.00 each.

Spare glass Panels, \$3.25 each.

Tri-Color Trawler Lights

FOR STEAM TRAWLERS

45 DEGREE CLEAR FRESNEL LENS—4 POINT
90 DEGREE RED AND GREEN FRESNEL LENSES—8 POINT
WITH FOUR LUGS FOR MOUNTING
BOTTOM OPENING—SWIVEL FOUNT

No	Galv. Steel Each	Pol. Brass Each	Spare Lenses Each	Height Lenses Each	Height Fig. 407 Inches	C to C of lugs Inches	Wt. Lbs.
1	\$54.50	\$72.00	\$4.90	6 3/4	15	8 3/8	10
2	61.50	78.50	7.20	7 1/2	17 1/2	10 3/8	14

With Flat Top fig. 408 for Electric only, same price as above.
Combination Oil and Electric, add \$3.00 each.

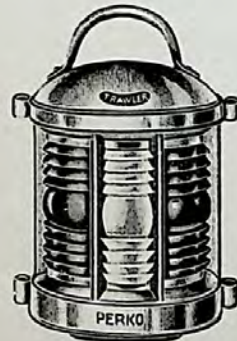


Fig. 408 Electric



Fig. 407 Oil

SPARE PARTS FOR ALL LIGHTS ABOVE

Oil Founts fig. 282 No. 1 for fig. 407 No. 1.
Oil Founts fig. 282 No. 2 for figs. 59, 80 and 407 No. 2.
Elec. Adapters fig. 288 No. 1 for fig. 408 No. 1.
Elec. Adapters fig. 288 No. 2 for figs. 59, 80 and 408 No. 2.

Oil Burners fig. 242 No. 2.
Chimneys fig. 267 No. 2.
Wicks fig. 302 No. 2.
Electric Sockets only fig. 346.

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 1/2 in.
Circum. lens at bull's eye	12 3/8 in.
Weight	19 1/2 lbs.

Black nickel finish Each \$69.50
 Furnished with green lens when desired at same price.
 Spare lenses, see fig. 260.

Mid-Channel Light

360 DEGREE GREEN LENS

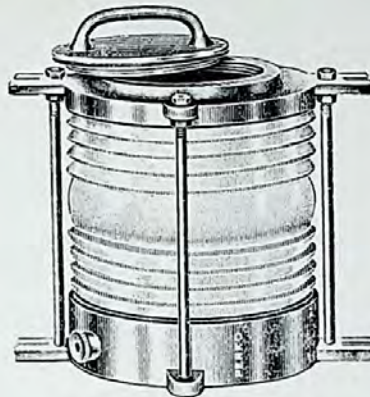


Fig. 1006

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

Black nickel finish Each \$69.50
 Spare lenses, see fig. 261.

Draw Bridge Light

RED AND GREEN PANEL GLASSES
 360 DEGREE CLEAR LENS

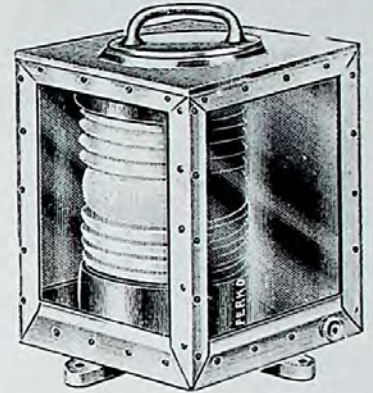


Fig. 1007

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

Black nickel finish Each \$98.00
 Extra panel glasses 3.25
 Spare lenses, see fig. 261.

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 \$78.50

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 \$78.50

Lift Bridge Lights

180 DEGREE RED AND GREEN LENSES

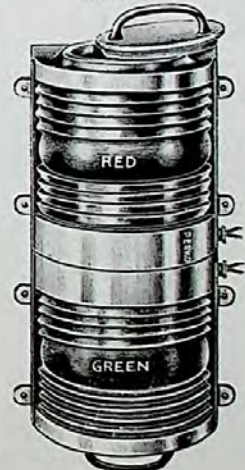


Fig. 127

Height overall	21 1/2 in.
Other sizes, see Fig. 1005	
Black nickel finish	Each \$144.00

Shorter pedestals furnished if desired, price as above. Longer pedestals than standard, add \$.65 per inch.



Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 141

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Diameter of wall plate 2½ inches.

No.	Polished Brass Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints	Burner Number
1	\$10.00	\$13.75	10½	5½	1	1
2	11.50	15.00	12½	6	1¼	2

No.	Each
1 Spare burners (Fig. 231)	\$.70
1 Spare Chimneys (Fig. 230)	.60
2 Spare Burners Fig. 242	1.20
2 Spare Chimneys Fig. 267 No. 2	.90

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 Eagle chimney, Fig. No. 268. Hole in reflector for hanging on wall.

Complete Each	Spare Chimneys Each	Spare Burners Each	Height of Back Inches	Diam. of Fount Inches	Weight Each Lbs.
\$5.00	\$.90	\$.65	9	5	1½

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
REMOVABLE FOUNT—ALL BRASS



Fig. 137

With 2½ inch diameter wall plate, hinge burner fig. 242 No. 2 and 6 inch chimney fig. 267 No. 2.

No.	Polished Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints
4	\$14.25	\$18.00	14	8½	1½

Maine Cabin Lamp

STIFF BRACKET—NON SWING
REMOVABLE FOUNT—ALL BRASS



Fig. 136

With cast bronze bracket, hinge burner fig. 242 No. 2 and 6 inch chimney fig. 267 No. 2.

No.	Polished Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints	Wall Plate Inches
3	\$11.75	\$15.00	12	8	1½	3x1½

Smoke Bell and Arm

ALL BRASS



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounces
1	\$2.25	\$3.50	4	3¾	4
2	2.25	3.50	4	4	4
3	2.25	3.50	6¼	5¾	6½
4	2.25	3.50	6¼	6½	7

No. 1 and 2 sizes are for lamp Fig. 141.

No. 3 size is for lamp Fig. 136.

No. 4 size is for lamp Fig. 137.



ELECTRIC CABIN FIXTURES

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

Round Base Pattern

WITH TURN SWITCH—SPUN BRASS



Fig. 308

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$2.50	\$3.50	2½	2½	3	6

Upright Pattern

WITH TURN SWITCH—CHROMIUM PLATED



Fig. 225

Chromium Plated Each	Size Base Inches	Length Overall Inches	Projection less Lamp Inches	Weight Ounces
\$3.00	3½ x 2½	5½	2¾	10

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
\$4.00	\$5.00	2x2	2	2½	12



Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projection less Lamp Inches
\$6.25	\$8.00	4½ x 2¾	2¾

Junior Fixtures

WITH DOUBLE CONTACT SOCKET
TOGGLE SWITCH—CAST BRONZE



Fig. 605

Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Polished Bronze Each	Chromium Plated Each
1¾ x 1¾	2	2	\$3.75	\$4.75

New Streamline Pattern

CHROMIUM PLATED
BAKELITE MEDIUM SCREW SOCKET—
TURN SWITCH



Fig. 217

Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Depth less Lamp Inches	Weight Ounces
\$3.00	2½ x 2¼	2¼	2½	8

Molded Plastic Shades

WHITE—IVORY—TAN

For all fixtures on this page.
Suitable for 25 to 40 watt bulbs.



Fig. 174

White or Ivory Each	Tan Each	Height Inches	Diam. Inches	Weight Ounces
\$0.50	\$0.70	3½	4¼	2½

PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND CANDLEPOWER, FROSTED OR CLEAR. ABOVE FIXTURES ARE SUPPLIED, NOT WIRED.



New Utility Fixture

ALL BRASS—CHROMIUM PLATED
WITH MINIATURE BAYONET SOCKET



Fig. 148

Having low current drain ($\frac{1}{4}$ amp.) this fixture has many uses, such as a night light, berth light, engine room, companion way, chart light, binnacle light, control and instrument light.

Adjustable cap permits light over a small or large area. Streamlined and decorative.

6 Volt Each	12 Volt Each	Length Overall Inches	Width Overall Inches	Weight Inches
\$1.30	\$1.40	2 $\frac{5}{8}$	$\frac{7}{8}$	1

Spare Bulbs, see Fig. 337 No. G-4 $\frac{1}{2}$, 2 C.P.

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
\$7.50	\$9.00	3 $\frac{1}{2}$ x2	2 $\frac{5}{8}$

Dome Lights

WITH FIG. 132 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 60 watt bulb. Socket Fig. 346.



WITH FLANGE
Fig. 753

WITHOUT FLANGE
Fig. 754

Fig.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
753	\$16.00	\$18.50	9 $\frac{5}{8}$	8	3
754	13.75	16.00	7 $\frac{1}{2}$	8	3

"Tear-Drop" Fixture

CHROMIUM PLATED
DOUBLE CONTACT SOCKET—TURN SWITCH



Front View



Side View

Fig. 301

An attractive fixture for cabin or berth. Has streamlined thick glass globe and supplied with 6 volt 21 C.P. bulb.

Complete Each	Spare Globe Each	Spare Socket Each	Spare Bulb Each	Overall Size Inches	Depth Inches	Weight Ounces
\$4.75	\$.75	\$.70	\$.45	5 x 3	1 $\frac{1}{8}$	11

Dome Lights

CAST BRONZE—WITH TOGGLE SWITCH

Nos. 3 and 5 fitted with Fig. 747 double contact socket.

Nos. 4 and 6 fitted with Fig. 346 medium screw socket.

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.
3	5	1 $\frac{3}{4}$	4	2 $\frac{1}{4}$
4	8	2 $\frac{1}{2}$	6	4 $\frac{1}{4}$

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
3	\$10.50	\$12.50	\$1.25	\$.60
4	14.50	17.00	2.50	.60

WITH SHALLOW FROSTED GLOBE



Fig. 460

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.
5	5	1 $\frac{3}{4}$	4	2
6	8	2 $\frac{1}{2}$	6	4

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
5	\$10.50	\$12.50	\$1.25	\$.60
6	14.50	17.00	2.50	.60

Dome Light No. 4 will accommodate a 25 watt A-19 bulb. No. 6 a Fig. 8 bulb.

Dome Lights

WITH FIG. 257 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	\$4.50	\$6.25	4 1/4	1 3/4
4	5.50	7.25	5 1/2	1 7/8
5	6.25	8.25	6 5/8	2 3/4
6	8.00	10.00	7 1/2	2 3/4

Spare sockets, see fig. 747.

Dome Lights

WITH FIG. 132 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	\$4.50	\$6.25	4 1/4	1 3/4
4	5.50	7.25	5 1/2	1 7/8
5	6.25	8.25	6 5/8	2 3/4
6	8.00	10.00	7 1/2	2 3/4

Spare sockets, see fig. 747.

Dome Lights

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

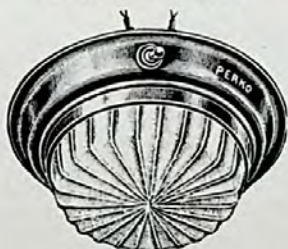


Fig. 385

With Double Contact Socket

No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
7	\$6.00	\$7.75	6	4 1/4	2 1/4
8	8.00	10.00	7	5 1/8	2 3/4

With fig. 346 Medium Screw Socket

9	8.50	10.50	7	5 1/8	2 3/4
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Bulb with standard screw base for this light, see Fig. 8. Spare globes, see Fig. 133.

SPARE TOGGLE SWITCHES FOR ALL ABOVE LIGHTS, SEE FIG. 745

"Brightlite" Dome Lights

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



Shallow—Fig. 1147



Deep—Fig. 1148

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	\$6.25	4 Shallow	1 3/4	5 1/2	Holophane
2	6.25	4 Shallow	1 3/4	5 1/2	Frosted
3	6.25	4 Deep	3	5 1/2	Holophane
4	7.25	5 Shallow	2	6 1/2	Frosted
5	7.25	5 Deep	3	6 1/2	Holophane

Above prices do not include bulb.

For spare globes see figs. 132, 257 and 258.

Spare sockets fig. 276, \$.60 each.

Watertight Dome Light

CAST BRONZE—DOUBLE CONTACT SOCKET
WITH THREADED DIFFUSING GLOBE

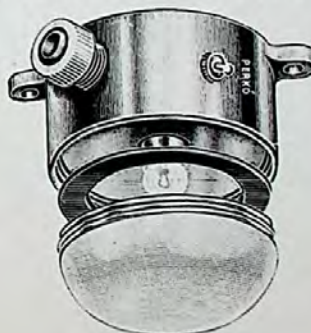


Fig. 1266

For small boats. Will accommodate a 6 C. P. G-6 low voltage bulb. With Nickel Plated Reflector, toggle switch and one packing gland for cable.

No.	Plain Bronze Each	Polished Bronze Each	Extreme Diameter Inches	Extreme Diameter Globe Inches	Extreme Depth Inches	Weight Pounds
7	\$9.00	\$10.25	3 1/2	3 1/4	2 3/4	1 3/4

Chromium plated finish, add \$1.65 to polished price.

Spare Sockets fig. 472 No. 20, \$.80 each.

Spare Globes, \$1.20 each.

Extra Packing Glands installed, \$1.50 each.

Cargo Reflectors

HEAVY GAUGE STEEL—ENAMELED
HINGED GUARDS WITH LOCKING DEVICE

Heavy duty portable lights for lighting holds, docks, piers, decks, etc.

The guard ring encircles the beaded rim of the reflector acting as a bumper protecting reflector and lamps from damage.

The single lamp reflector has an exclusive feature in a spring suspended socket providing a shock absorbing action to protect lamp filaments and prolong lamp life.

The cluster type permits continuous operation in event of individual lamp failure. Clusters are easily removable for wiring. Approved waterproof glands and gasketed clusters make these units weatherproof.

Reflectors are finished in enamel, black outside, glossy white inside. Guards are plated.

SINGLE LAMP TYPE MOGUL SOCKET



Fig. 36

No.	Each	Diam. Reflector Inches	Watts	Weight Pounds
1	\$18.50	15½	300-500	9
2	22.00	17½	750-1000	15

CLUSTER TYPE PHENOLIC MEDIUM SCREW SOCKETS



Fig. 37

No.	Each	No. Lamps	Diam. Reflector Inches	Watts	Weight Pounds
3	\$20.00	4	18	60-150	14
4	22.00	5	18	60-150	14

Watertight Hand Portables

CAST BRONZE—WOOD HANDLE
D. C. SOCKET—NAVY GLOBE 9-S-3129-L



Fig. 1256

Complete Each	Spare Globes Each	Extreme Length Inches	Extreme Diameter Inches	Weight Pounds
\$8.50	\$1.30	13	4¼	2¾

Spare sockets, see fig. 472 No. 20, \$.80 each.

Watertight Hand Portables

CAST BRONZE—WOOD HANDLE
MEDIUM SCREW SOCKET—THREADED GLOBE



Fig. 1180

No.	Complete Each	Spare Globes Each	Wattage	Overall Length Inches	Length Globe Inches
1	\$8.50	\$1.00	25	13½	4
2	8.85	1.30	60	15½	6

Hand Portable

WOOD HANDLE—NICKEL PLATED PARTS
DOUBLE CONTACT SOCKET—N. W. T.

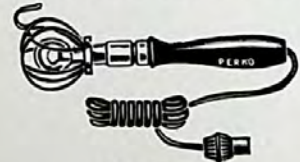


Fig. 1181

Furnished with 10 feet of rubber covered wire and double contact plug.

Each	Overall Length Inches	Length Handle Inches	Weight Ounces
\$4.00	8	4	7

Dashboard Lamp

BRASS—NICKEL PLATED
DOUBLE CONTACT SOCKET—WITH SWITCH

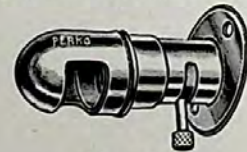


Fig. 184

Each	Height Overall Inches	Size Base Inches	Weight Ounces
\$.90	2 ½	1 ⅛ x 1 ½	1 ½

Mazda Lighting Bulbs



Bulb No.	Diam. Inches	Length Overall Inches
1483	$\frac{1}{8}$	1
G-6	$\frac{3}{4}$	$1\frac{1}{8}$
S-6	$\frac{3}{4}$	$1\frac{3}{4}$
T-7	$\frac{7}{8}$	$2\frac{1}{2}$
S-8	1	2
S-11	$1\frac{3}{8}$	$2\frac{3}{8}$
PR-11	$1\frac{3}{8}$	$2\frac{1}{8}$

Fig. 337



Fig. 340

Bulb No.	Diam. Inches	Length Overall Inches
T-10	$1\frac{1}{4}$	$5\frac{3}{8}$
S-14	$1\frac{3}{4}$	$3\frac{1}{4}$
A-17	$2\frac{1}{8}$	$3\frac{3}{8}$
A-19	$2\frac{3}{8}$	$3\frac{1}{4}$
A-21	$2\frac{3}{8}$	$4\frac{1}{4}$

Volts	Candle Power	No.	Base	Clear Each
2.7	.15 amp.	S-11	D. C.	\$1.40
4	.06 amp.	T-3 1/4	Miniature	.40
6	.04 amp.	1483	Miniature	.30
6	2	G-4 1/2	Min. Bayonet	.16
6-8	3	G-6	D. C.	.16
6-8	6	G-6	D. C.	.18
6-8	15	S-8	D. C.	.33
6-8	21	S-8	D. C.	.36
12	2	G-4 1/2	Min. Bayonet	.30
12-16	3	G-6	D. C.	.18
12-16	6	G-6	D. C.	.22
12-16	15	S-8	D. C.	.35
12-16	21	S-8	D. C.	.40
32	3	G-6	D. C.	.70
32	6	G-8	D. C.	.80
32	15	S-8	D. C.	.90
32	21	PR-11	D. C.	1.10
110	6 watt	S-6	D. C.	.60
110	10 watt	S-8	D. C.	1.30

Packed, 10 bulbs to a box.

FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.	Diam. Inches	Length Overall Inches
S-11	$1\frac{3}{8}$	$2\frac{3}{8}$

Volts	No.	C. P. or Watts	Base	Clear Each
6-8	S-11	21	Medium	\$.90
12-16	S-11	21	Medium	1.00
32	S-11	15	Medium	1.50
120	S-11	15	Medium	1.25

Packed, 6 bulbs to a box.



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	\$5.50	5	$3\frac{1}{8}$
100-100	5.80	5	$3\frac{1}{8}$

Volts	Watts	No.	Base	Clear Each	Frosted Each
6	15	A-17	Medium	\$.85	\$.70
6	25	A-19	Medium		.70
6	50	A-21	Medium		.90
12	15	A-17	Medium	.95	.75
12	25	A-19	Medium		.75
12	50	A-21	Medium		1.00
32	15	A-17	Medium	.75	.60
32	25	A-19	Medium		.60
32	50	A-21	Medium		.60
120	25	T-10	Medium	.75	
120	10	S-14	Medium	.40	
120	60	A-19	Medium	.45	
120	100	A-21	Medium	.45	

Packed, 6 bulbs to a package.

Double Filament Bulb

MOGUL BASE FOR THREE WIRE SYSTEM

120 VOLTS

Mazda Searchlight Bulbs Fig. 24

Volts	Watts	Candle Power	No.	Base	Diameter Inches	Length Overall Inches	Each
6-8		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{1}{8}$	\$.40
6-8		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	.45
6-8		100	G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.00
6-8	108	18 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	4.75
12-16		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{1}{8}$	.45
12-16		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	.70
12-16		100	G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.00
12-16	216	18 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	5.50
32		32	PR-11	D. C.	$1\frac{1}{4}$	$2\frac{1}{8}$	1.25
32		50	PR-11	D. C.	$1\frac{3}{8}$	$2\frac{3}{8}$	1.75
32	2. amp.	100	G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.25
32	3.5 amp.	150	G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.75
32	256	8 amp.	P-25	Medium	$3\frac{1}{8}$	$4\frac{3}{4}$	5.50
32	400		G-30	Medium	$3\frac{3}{4}$	$5\frac{1}{4}$	8.00
120	100		G-16 1/2	D. C.	$2\frac{1}{8}$	3	2.25
120	250		T-10	Medium	$1\frac{1}{4}$	$5\frac{1}{2}$	7.00
120	400		T-10	Medium	$1\frac{1}{4}$	$5\frac{1}{2}$	8.00
120	500		T-20	Medium	$2\frac{1}{2}$	$5\frac{1}{2}$	5.50
120	1000		T-20	Medium	$2\frac{1}{2}$	$5\frac{1}{2}$	9.00

OIL FOUNTS AND ELECTRIC ADAPTERS

ALL BRASS—FOR LIGHTS CLASS 3 AND SMALLER



Fig. 582

Electric
Medium Screw



Fig. 588

Delite Type

Fig.	Each	Diameter Inches	Weight Ounces	For Lights Figs.
582	\$1.25	2 3/4	4	01-04-05-08-09
588	2.00	2 3/4	4	01-010-04-05-040-050-08 09-080-090

Price of Fig. 582 does not include holder illustrated.

Spring Type

Oil



Fig. 286

Oil and Electric
Double Contact



Fig. 736

Electric
Double Contact



Fig. 291

Electric
Medium Screw



Fig. 292

Oil and Electric
Double Contact



Fig. 733

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
286	\$1.25	3 5/8	3 3/16	2 1/2	06-17-18-19-20-49 and 44, 8 inch size
291	2.00	3 5/8	3 1/16	3	06-12-17-18-19-20
292	2.00	3 5/8	3 1/16	3 1/2	06-12-17-18-19-20-49 and 44, 8 inch size
733 oil only	1.25	3 1/2	2 5/8	2	1
733 O. and E.	3.00	3 1/2	2 5/8	3 3/4	1
736	3.00	3 5/8	3 1/16	4 1/2	06-17-18-19-20

Swivel Type

Oil



Fig. 287

Electric
Double Contact



Fig. 293

Electric
Medium Screw



Fig. 274

Oil and Electric
Double Contact



Fig. 735

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
274	\$2.00	4 1/2	4	4	02-11 and 44, 6 inch size
287	1.25	4 1/2	4	3	02 and 44, 6 inch size
293	2.00	4 1/2	4	4	02-11 and 44, 6 inch size
735	3.00	4 1/2	4	4 1/2	02

NOTES

- Oil burners and wicks, see Figs. 246 and 302.
- D. C. Electric sockets for Figs. 291 and 293, see Fig. 355.
- D. C. Electric sockets for Figs. 733, 735 and 736, see Fig. 276.
- D. C. Electric sockets and holders for Figs. 733, 735 and 736, see Fig. 458.
- Medium screw sockets for Figs. 274, 292 and 588, see Fig. 222.



OIL FOUNTS AND ELECTRIC ADAPTERS
ALL BRASS—LIGHTS FOR VESSELS OVER 65 FEET LONG

Swivel Type

Oil



Fig. 282

Single Electric
2 Wire
Medium Screw

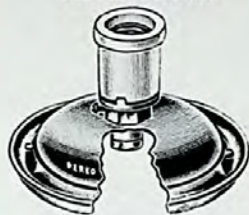


Fig. 288

Double Electric
2 Wire
Medium Screw

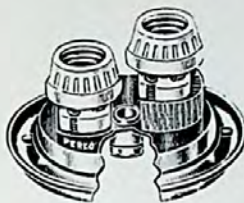


Fig. 289

Electric
3 Wire
Mogul



Fig. 1082

Size No.	Diameter Overall Inches	Diameter Opening in Light Inches	Fig. 282 Only Each	*Fig. 282 Complete Each	Fig. 288 Each	Fig. 289 Each	Fig. 1082 Each
1	4 3/4	3 3/4	\$2.00	\$4.00	\$3.00	\$5.00	\$5.25
2	5 3/4	4 3/4	3.00	5.00	3.00		5.25

*Complete with Burner, Wick and Chimney
Above are for the following lights.

Fount No.	SIDE LIGHTS		MASTHEAD LIGHTS		STERN LIGHTS		ANCHOR LIGHTS		BREAKDOWN LIGHTS	
	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size	Light Fig.	Light Size
1	21	9-10	982	0-1	985	0-1	23	22-22 1/2	84	0-1
2	21	11	982	2	985	2	23	23	84	2
1	30	0-1	983	0-1	986	0-1	32	0-1	129	22-22 1/2
2	30	2	983	2	986	2	32	2	129	23
1	1155	0-1	1156	0-1	1157	0-1	1158	0-1	1159	0-1
2	1155	2-3	1156	2-3	1157	2-3	1158	2-3	1159	2-3

1 Also used in Fig. 44, 10 inch size; Figs. 407 and 408, No. 1.
2 Also used in Figs. 59 - 80 - 407, No. 2; and 408, No. 2.

Spare Terminal Tubes for above adapters, \$.65 each.

Mounting Brackets

FOR NAVIGATION LIGHTS
GALVANIZED SHEET IRON

No.	Galvanized Each	Width Inches	Height Inches
1	\$.65	1 1/2	4 1/8
2	1.00	2	6 3/8

No. 1—For motor boat side and bow lights, Classes 1, 2 and 3.
No. 2—For larger side lights, sizes 0, 1, 9 and 10.



Fig. 131

Electric Adapter

BRASS—DOUBLE CONTACT
FOR ROYAL LIGHTS FIGS. 89 to 92 Inc.



Fig. 138

Each	Diam. Overall in Inches	Opening in Light Inches	Weight Ounces
\$1.00	2 3/16	1 7/8	1 1/2

Mounting Brackets

GALVANIZED SHEET IRON



Fig. 25

Galv. Each	Height Inches	Inside Width Inches
\$.50	1 1/4	1 1/4

For mounting Royal Lights Fig. 89 to 92 inc.

Mounting Brackets

FOR NAVIGATION LIGHTS
GALVANIZED MALL. IRON

Each	Height Overall Inches	Width Overall Inches	Width Bracket Inches
\$2.00	7 1/2	5 3/8	2 1/2

For large side lights, sizes 2, 3 and 11.



Fig. 135

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
\$1.00	\$1.25



Fresnel Ball Globes

1½ INCH DIAMETER

For pole lights, Figs. 404, 600, 601, 602, 603, 609, 846, 1145.



Fig. 604

Outside diameter 1½ in.
Height overall 1½ in.
Diameter of opening 1 in.
Net weight, each 1½ oz.

Clear Each	Red Each	Green Each	Blue Each
\$1.00	\$1.50	\$1.50	\$1.50

2½ INCH DIAMETER

With threaded base, as illustrated, for pole lights, Figs. 362, 422, 482, 484, 491, 492, 498, 506, 531.



Fig. 250

Outside diameter 2½ in.
Height overall 2½ in.
Diameter of opening 1½ in.
Diameter of thread 2 in.
Net weight, each 6 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$1.50	\$2.00	\$2.00	\$2.00

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Figs. 362, 422, 482, 484, 491, 492, 498, 506, 531.



Fig. 251

Outside diameter 3 in.
Height overall 3 in.
Diameter of opening 1½ in.
Diameter of thread 2 in.
Net weight, each 7 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$1.50	\$2.00	\$2.00	\$2.00

3 INCH DIAMETER

With threaded base. For mast lights, Figs. 103, 104.



Fig. 249

Outside diameter 3 in.
Height overall 3½ in.
Diameter of opening 2½ in.
Diameter of thread 2½ in.
Net weight, each 10 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$1.65	\$2.60	\$2.60	\$2.60

4¼ INCH DIAMETER

With threaded base, as illustrated.



Fig. 252

Outside diameter 4¼ in.
Height overall 3½ in.
Diameter of opening 2¾ in.
Diameter of thread 3 in.
Net weight, each 10 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$.50	\$.75	\$.75	\$.75

3½ INCH DIAMETER

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



Fig. 106

Outside diameter 3½ in.
Height overall 5 in.
Diameter of opening 2¾ in.
Diameter of thread 3½ in.
Net weight, each 1¼ lbs.

Clear Each	Red Each	Green Each	Blue Each	Amber Each
\$2.25	\$4.00	\$4.00	\$4.00	\$4.00

Special Mast Light Globe

2¾ INCH DIAMETER

With threaded base as illustrated: mast lights Figs. 488-489.



Fig. 77

Outside diameter 2¾ in.
Height overall 5½ in.
Diameter of opening 1¾ in.
Diameter of Thread 2½ in.
Net Weight Each 13 ozs.

Clear Each	Red Each	Green Each	Blue Each
\$1.50	\$2.30	\$2.30	\$2.30

Holophane Dome Glasses

SHALLOW

DEEP



Fig. 257

Fig. 257 for Dome Lights Figs. 294-555-1147.



Fig. 258

Fig. 258 for Dome Lights Fig. 1148.

Trade Size Inches	Fig. 257 Each	Fig. 258 Each	Diam. Overall Inches	Fig. 257 Depth Inches	Fig. 258 Depth Inches
3	\$1.00		2¾	1½	
4	1.25	\$2.00	4	7/8	1¾
5	1.65		5	1 3/8	
6	2.50	4.50	6	1½	2¾

Frosted Dome Glasses

SHALLOW



Fig. 132

For Dome Lights Figs. 296-460-753-754-1147.

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.00	2¾	¾
4	1.25	4	¾
5	1.65	5	1½
6	2.50	6	1¾
8	3.25	7¾	¾

Ribbed Opal Dome Glasses



Fig. 133

For Dome Lights, Fig. 385.

Outside Diam. Inches	Each	Extreme Depth Inches
4¼	\$2.25	1½
5 1/8	3.50	1¾

Opal Globe WITH FLANGE



Fig. 31

Diameter Overall Inches	Each	Extreme Depth Inches
2¾	\$.50	1½



Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS

112½ DEGREES

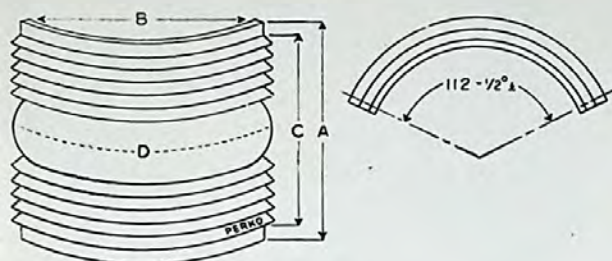


Fig. 259

For Motor Boats	A Inches	B Inches	C Inches	D Inches	Red or Green Each
Class A Comb.	2 1/8	1 3/4	2 1/8	3	\$1.00
Class 1 Comb.	3 1/8	2 1/8	2 7/8	3 3/8	1.50
Class 2 Side	4 1/4	3 1/8	3 1/4	4 3/4	2.10
Class 3 Side	5 1/8	3 1/4	4 3/8	5 1/8	2.60

For Vessels over 65 ft.

No. 8 Side	5 1/2	4 1/8	4 1/4	5 7/8	4.25
No. 0 or 9 Side	5 1/2	5 3/4	5	8 1/8	6.00
No. 1 or 10 Side	6 3/4	6	6	8 3/8	8.50
No. 2 or 11 Side	7 1/2	8 1/2	6 7/8	11 3/8	11.75
No. 3 Side	8 1/2	9 3/4	7 3/4	13	13.00

Note — We can supply Class 1 Comb. Lenses in clear or amber. Classes 2 or 3 Side in clear use above prices.

FOR BOW LIGHTS—180 DEGREES

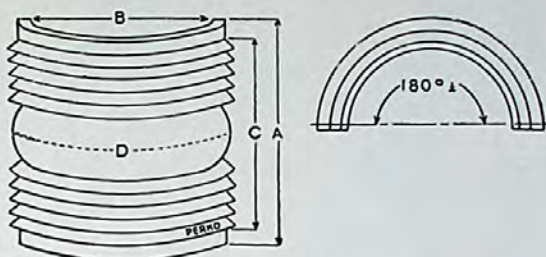


Fig. 260

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
Class 1	3 1/8	2 3/4	2 7/8	5 3/8	\$2.00	\$3.30
Class 2	4 1/4	3 1/4	3 3/8	6 3/8	2.10	3.30
Class 3	5 1/8	3 7/8	4 1/4	7 1/4	2.60	4.25
No. 16	7 3/8	6 7/8	6 3/8	12 3/8	10.50	14.50

No. 16 lens used in pier lights figs. 59, 125, 1005.
Note — Classes 1 and 2 can be supplied in blue or amber. Class 3 in blue and No. 16 in amber. Use above prices applying to red or green.

FOR MASTHEAD LIGHTS—225 DEGREES

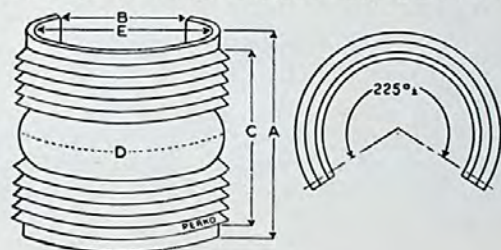


Fig. 256

For Vessels Over 65 ft.	A In.	B In.	C In.	D In.	E In.	Clear Each	Red or Green Each
No. 0	5 1/2	4	5	12 1/8	4 3/8	\$7.25	\$15.00
No. 1	6 3/4	4	6	12 1/8	4 1/2	9.25	17.00
No. 2	7 1/2	5 7/8	6 3/4	16 3/8	6 1/2	11.50	19.50
No. 3	8 1/2	6 1/8	7 3/8	18 3/8	7 3/4	13.75	22.50

Size No. 3 in clear and red only.

FOR ANCHOR LIGHTS—360 DEGREES

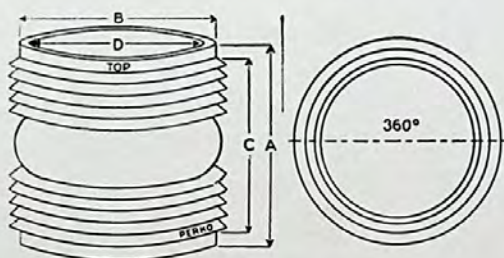


Fig. 261

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3 1/8	3 1/8	2 7/8	2 3/4	\$1.50	\$2.00
Senior	4 1/4	4	3 1/8	3 1/8	2.00	3.00

For Vessels over 65 ft.

No. 0 or 22	5 1/2	5 1/4	5	4 3/8	6.00	10.50
No. 1 or 22 1/2	6 3/4	5 1/4	6 1/8	4 1/2	8.50	13.00
No. 2 or 23	7 1/2	7 1/2	6 1/4	6 1/2	10.50	15.75
No. 3	8 1/2	8 1/2	7 3/4	7 3/4	13.00	21.00

Colors are red, green, blue or amber. Amber in Junior, Senior and No. 0 sizes only. Size No. 3 in clear and red only.

FOR STERN LIGHTS—135 DEGREES

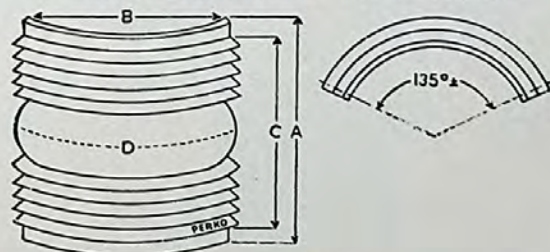


Fig. 269

For Vessels Over 65 ft.	A In.	B In.	C In.	D In.	Clear Each	Colored Each
No. 0	5 1/2	4 3/8	4 7/8	7 1/2	\$6.00	\$8.00
No. 1	6 3/4	4 3/8	6 1/8	7 1/2	6.50	8.50
No. 2	7 1/2	6 3/8	6 3/4	10	8.00	10.00
No. 3	8 1/2	7 1/2	7 3/4	11 1/4	10.00	12.00

Colors are red, green or blue. Size No. 3 cannot be supplied in green.

DIMENSIONS SUBJECT TO GOVERNMENT STANDARD TOLERANCES—PLUS OR MINUS



Marcy Hinge Burners
ALL BRASS—HEAVY PATTERN



Fig. 242

Used in all cabin lamps, large running lights, bulk-head lamps, etc.

No.	Per Dozen	Diam. Thread Inch	Wick Inch
2	\$14.40	1/4	7/8
2-A	14.40	1/4	7/8

Marcy Lip or Dual Chimneys



Fig. 267

No.	Per Dozen	Height Inches	Diam. Bottom Inches
1	\$9.60	4 1/2	1 5/8
1	9.60	5	1 5/8
1	9.60	6	1 5/8
2	10.80	5	2 1/8
2	10.80	5 1/2	2 1/8
2	10.80	6	2 1/8
2-A	10.80	6	2 1/8

Specify height of chimney when ordering.

Brass Burners



Fig. 246

No.	Per Dozen	Diam. Thread Inch	Wick Inch
0	\$3.00	7/8	1/2
1	3.50	7/8	3/8
2	5.20	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.

Hornet Chimney and Burner

CLEAR CHIMNEY—ALL BRASS BURNER

Used on Cabin Lamp Fig. 141 Size 1



Fig. 230



Fig. 231

Burner used with Flat Wick Fig. 302 No. 0 Size

Chimneys Per Dozen	Burners Per Dozen	Chimney Size Inches	Burner Thread Inches
\$6.00	\$6.00	4 3/8 x 1 3/8	7/8

Flat Wicks



Fig. 302

No.	Per Dozen	Width
0	\$.48	1/2 inch wide
1	.60	5/8 inch wide
2	.84	3/4 inch wide

Long Time Burner and Chimney
HEAVY BRASS

Used in 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
\$22.00	\$9.00	\$2.20	1 3/4	1 1/2

Engineer's Lantern Globes

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



Fig. 263

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

Clear Per Doz.	Red Per Doz.	Green Per Doz.	Blue Per Doz.
\$6.00	\$12.00	\$12.00	\$12.00

Colored globes are solid colors, not painted.

Navy Lantern Globes



Fig. 262

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

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

Clear Per Doz.	Red Per Doz.	Green Per Doz.	Blue Per Doz.
\$9.50	\$23.50	\$23.50	\$23.50

Colored globes are solid colors, not painted.

Globe Light Globes

Used in Globe Lights Fig.



Fig. 264

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

Size	Clear Each	Frosted or Colored Each	Diameter		Height Overall
			Top	Bottom	Inches
6	\$2.50	\$5.50	3 1/8	3 1/8	6 1/2
8	4.50	7.50	4	4	7 1/2
10	7.00	10.50	5 3/8	5 3/8	10 1/2



Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

TOGGLE TYPE
BRASS—BAKELITE INSULATION

With 2 lock nuts and 6" wire leads.

Each	Length Neck Inches	Diam. Neck Inches
\$.60	$\frac{1}{4}$	$\frac{1}{4}$
Maximum	between lock nuts	$\frac{3}{8}$

With watertight cap and chain, add \$.90 each.

Chromium plated, add \$.25 each.



Fig. 745

TOGGLE TYPE WITH FACE PLATE
BRASS—BAKELITE INSULATION

Polished Brass Each	Chromium Plated Each	Size Face Plate Inches
\$.80	\$.95	1 x 1 7/8

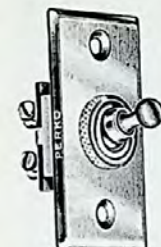


Fig. 718

New Push and Pull Switch

ALL BRASS THROUGHOUT

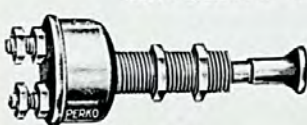


Fig. 105

Polished Brass Each	Chromium Plated Each	Lgth. Overall In.
\$.80	\$1.20	2 3/4
Diam. Neck In.	Lgth. Neck In.	
$\frac{1}{8}$	1	

New Push and Pull Switch with Face Plate

ALL BRASS THROUGHOUT

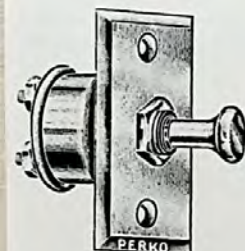


Fig. 216

Polished Brass Each	Chromium Plated Each	Dimensions Face Plate Inches
\$1.00	\$1.50	2 x 1 1/4
Neck Diam. Inches	Diam. Body Inches	
$\frac{1}{8}$	1 1/8	

Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB

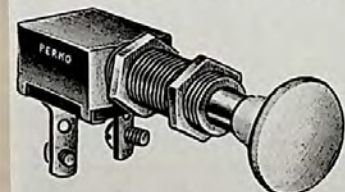


Fig. 94

Heavy duty 2 point 2 terminal with ivory tenite knob.

Neck for 7/8 inch wood, 3/8 inch hole.

Each \$.90

Momentary Starter Switch

OR DASHBOARD HORN BUTTON

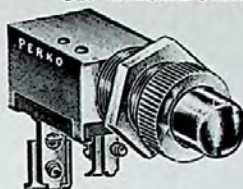


Fig. 255

2 point 2 terminal spring action switch with chromium plated button.

Neck for 7/8 in. wood, 5/8 in. hole.

Each \$1.30

Ignition Lock Switch

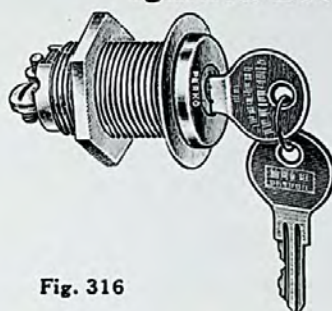


Fig. 316

Brass lock and switch with chromium plated face plate, brass keys.

2 terminal lock switch with two keys.

Neck for 1 inch wood, 7/8 inch hole.

Each \$1.95

Knife or Battery Switches

FIBRE BASE—SINGLE POLE—30 AMP.



Fig. 70

Single Throw Each	Double Throw Each	Size Base Inches
\$1.30	\$1.50	2 1/8 x 1 1/4

FLAT TYPE



Fig. 74

Single Throw Each	Double Throw Each	Size Base Inches
\$.80	\$.90	2 1/8 x 1 1/8

Fuse Panel

BAKELITE—BRASS METAL PARTS FOR GLASS FUSES UP TO 30 AMP.

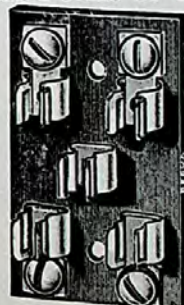


Fig. 694

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	\$.60	2 1/4	1	1/8	1 1/4
2	.80	2 1/4	1 3/8	1/8	1 1/4

STANDARD MARINE RECEPTACLES AND PLUGS
WATERTIGHT — CAST BRONZE BOXES — POLARIZED — 10 AMP. 125 VOLTS

Plugs for Receptacles
 BAKELITE BODY—BRASS FITTINGS



Fig. 1260

Type	Each	Overall Length Inches	Diam. Body Inches	Weight Ounces
2 wire	\$1.50	2 1/8	1 1/8	4
3 wire	2.40	2 1/8	1 1/8	4

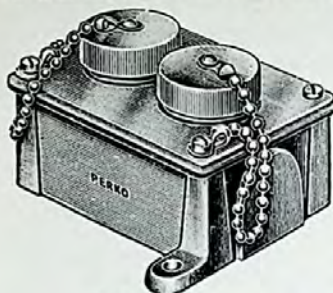


Fig. 1265

GANG TYPE		
2 wire only		
Gang	Size Inches	Weight Pounds
2 gang	4 1/8 x 3 x 2	3
3 gang	6 1/4 x 3 x 2	3 3/4
4 gang	8 x 3 x 2	5 1/4

Receptacles

FURNISHED UNTAPPED UNLESS SPECIFIED
 MAXIMUM I. P. S. THREAD 3/8 INCH



Fig. 1262

SURFACE TYPE
 2 wire only

Each	Diam. Inches	Height Inches	Weight Pounds
\$4.50	3	1 1/8	2 1/4

Watertight Junction Boxes
 CAST BRONZE—SURFACE TYPE

With rubber gasket.
 For 4 way tapping.

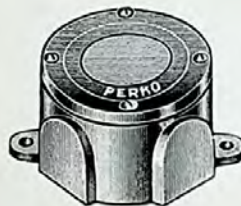


Fig. 1257

No.	Each	Inside Diam. Inches	Weight Pounds
1	\$3.25	2 1/4	1
2	4.00	3	1 1/8

Watertight Connection Box
 CAST BRONZE—SURFACE TYPE

With 4 wire phenolic connection block and rubber gasket.

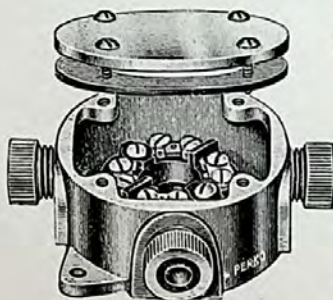


Fig. 1252

Complete Each	Spare Blocks Each
\$5.25	\$1.50

Inside Diam. Inches	Inside Depth Inches	Weight Pounds
3	1 3/8	1 3/4

Price does not include packing glands in illustration.

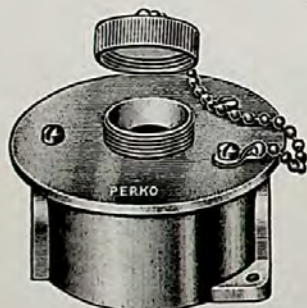


Fig. 1263

FLUSH TYPE
 2 wire only

Each	Diam. Box Inches	Diam. Flange Inches	Depth Inches	Weight Pounds
\$7.00	3	4	1 3/8	2 1/2

Watertight Fuse Box
 CAST BRONZE—SURFACE TYPE

With fuse block for 2 glass fuses up to 30 amp., and rubber gasket.

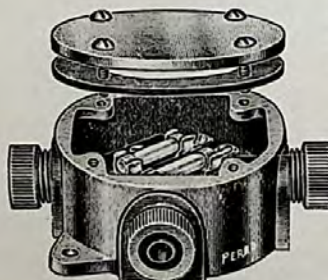


Fig. 1255

Complete Each	Spare Fuse Blocks Each
\$6.25	\$2.00

Inside Diam. Inches	Inside Depth Inches	Weight Pounds
3	1 3/8	1 3/4

Price does not include fuses or packing glands in illustration.

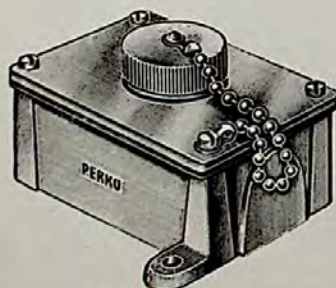


Fig. 1264

RECTANGULAR TYPE

2 and 3 wire	
	Each
2 wire	\$5.25
3 wire	7.25
Size Box Inches	Weight Pounds
4 1/8 x 3 x 2	3

NOTE — ALL BOXES ABOVE CAN BE FURNISHED WITH PACKING GLANDS FOR CABLE ENTRANCE AND ILLUSTRATED ON FIG. 1255. ADD \$1.50 FOR EACH GLAND. STATE NUMBER AND POSITION. TAPPING ONLY, ADD \$.30 PER HOLE.

YACHT SIZE RECEPTACLES AND PLUGS

WATERTIGHT — CAST BRONZE BOXES — VOLTAGE 6 TO 125

SMALL AND COMPACT AS PRACTICABLE FOR INSTALLATION WHERE SPACE IS LIMITED
FLUSH TYPE WITHOUT BOX

5 AMP.—2 WIRE

HEAVY DUTY TYPE—10 AMP.—2 WIRE
DOUBLE



Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$6.80	\$3.00	2 1/4	3/4



Complete With Plugs Each	Plugs Only Each	Length Inches	Width Inches	Depth Inches
\$13.50	\$3.00	3 1/4	2 1/4	1 1/8

Fig. 972

Fig. 968

FLUSH TYPE WITH BOX
5 AMP.—BOTTOM INLET—2 WIRE

HEAVY DUTY TYPE—10 AMP.—2 WIRE
WITH TURN SWITCH



Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
\$8.00	\$3.00	2 1/4	1 1/2	1 1/8



Complete With Plug Each	Plug Only Each	Length Inches	Width Inches	Depth Inches
\$13.25	\$3.00	3 1/4	2 1/4	1 1/8

Fig. 973

Fig. 969

HEAVY DUTY TYPE—10 AMP.—2 WIRE

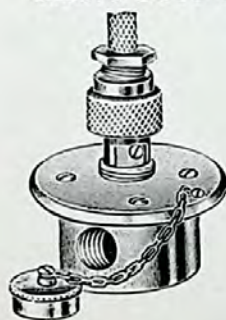


Fig. 970
Flush Type

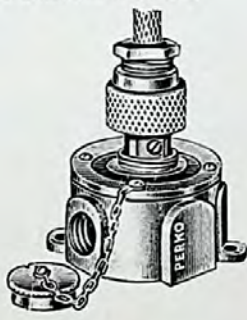


Fig. 971
Surface Type

Fig. 970 Complete Each	Fig. 971 Complete Each
\$10.00	\$9.00

Plug Each	Diam. Plate Inches	Diam. Box Inches
\$3.00	3 1/2	2 3/4

Figs. 970 and 971 can be supplied for 3 wire circuit, add \$8.50 each.

3 wire plugs only, \$6.00 each.

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
\$4.80	\$6.00	2 3/8

Watertight Snap Switch

FLUSH TYPE OR SURFACE TYPE—10 AMP.
2 WIRE

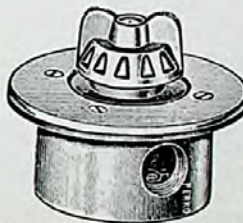


Fig. 974

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

	Flush Type	Surface Type
Single Pole Switch	\$9.75	\$8.00
Double Pole Switch	10.25	8.80

Watertight Push Buttons

CAST BRONZE



Fig. 975

Tapped one way for 1/4 inch conduit.

Each	Height Inches	Width Inches	Weight Pounds
\$6.50	1 3/4	2 1/4	1 1/4

Note — Above are only tapped to order, add \$.30 for each hole.



Watertight Connection

DOUBLE CONTACT

Deck Socket

All Metal Plug



Fig. 423



Fig. 425

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.

	Polished Brass Each	Chromium Plated Each	Dimensions Inches
Socket Only	\$1.65	\$2.60	1 1/2 x 1 3/8
Plug Only	1.65	2.60	1 1/2 x 1

Spare electric sockets only, see fig. 747.

Medium Screw Sockets

PHENOLIC—250 VOLTS—660 WATTS
APPROVED BY U. S. C. G. AND U. S. M. C.



Fig. 346

With 1/8 or 3/8 inch I. P. S. thread.

No.	Each	Size Thread Inches	Height Inches	Extreme Diameter Inches	Weight Dozen Pounds
1	\$.50	1/8	1 7/8	1 3/8	1
2	.50	3/8	1 7/8	1 3/8	1

Watertight Connection

BRASS—DOUBLE CONTACT



Fig. 477

Complete as illustrated, with rubber cork inside cap for cable.

Polished Brass Each	Chromium Plated Each	Composition Interiors Only Per Set	Size Inches
\$3.00	\$4.00	\$1.00	1 1/2 x 1 1/4

Medium Screw Socket

PHENOLIC—NAVY DRAWING 9-S-4836-L



Fig. 565

Each	Height Inches	Diameter Overall Inches	Mounting Slots Inches	C to C of Slots Inches	Weight Dozen Pounds
\$.60	1 3/8	2 1/4	3/4	1 3/8	1 1/2

Watertight Cable Outlet

BRASS—FOR 1/4 INCH CABLE



Fig. 424

Has rubber cork for watertight passage of cable through deck or bulkhead, also prevents chafing of cable insulation.

Polished Brass Each	Chromium Plated Each	Extreme Diameter Inches
\$1.00	\$2.00	1 1/4

Medium Screw Sockets

PORCELAIN—250 VOLTS—660 WATTS



Fig. 222

No.	Complete Each	Rings Only Each	Gaskets Only Each	Height Inches	Size Base Inches	C to C of Slots Inches
1	\$.60	\$.18	\$.10	1 3/8	2 x 1 1/4	1 1/2
2	.90	.18	.10	1 3/8	1 3/4 x 1 1/4	1 1/2

No. 1 size is standard.

No. 2 size has special small size base for Figs. 488 and 489 mast lights.



Mogul 3 Wire Socket

PHENOLIC—NAVY DRAWING 9-S-4779-L
600 VOLTS—1500 WATTS



Fig. 270

For use with double filament bulb Fig. 532.

Each	Height Inches	Outside Diam. Inches	C to C of Mounting Holes Inches	Weight Ounces
\$2.25	2 ³ / ₈	2 ¹ / ₈	1 ³ / ₈	6

With white metal mounting cap tapped ³/₈ inch I. P. S. add \$.30 each.

Candelabra Screw Socket

PHENOLIC—125 VOLTS—75 WATTS



Fig. 13

With brass base tapped ³/₈ inch 24 S. A. E. thread.

Each	Height Inches	Diameter Inches	Weight Dozen Ounces
\$.35	1 ⁵ / ₈	1 ¹ / ₈	8

Candelabra Screw Socket

PHENOLIC—NAVY DRAWING 9-S-2036-L



Fig. 15

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.35	1 ¹ / ₈	1 x 1 ¹ / ₂	12

Socket Supports

BRASS—³/₈ INCH I. P. S. THREAD



Fig. 341

Used in Fig. 1150 series Navigation Lights for sockets Fig. 270 and 346.

No. 1 for Lights Sizes No. 1 and 2.

No. 2 for Lights Size No. 3.

No.	Each	Height Inches	Size Base Inches	C to C of Holes Inches	Weight Ounces
1	\$.90	1	⁷ / ₈ x 2 ³ / ₄	2 ¹ / ₄	1 ¹ / ₂
2	1.20	2 ¹ / ₄	⁷ / ₈ x 2 ³ / ₄	2 ¹ / ₄	3

Bayonet Double Contact Socket

PHENOLIC—NAVY DRAWING 9-S-4634-L



Fig. 76

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.60	1 ¹ / ₈	1 x 1 ¹ / ₂	16

Bayonet Double Contact Socket

BRASS CASE—TAPPED ¹/₈ INCH I. P. S.



Fig. 276

Used in our de-lite motor boat lights, classes 1, 2 and 3, and various types of dome lights.

No.	Each	Length Overall Inches	Weight Per Dozen Ounces
0	\$.60	1 ³ / ₈	7
1	.60	1 ⁵ / ₈	8
2	.65	2	11
3	.65	2 ³ / ₈	14

Bayonet Sockets

PHENOLIC—SINGLE AND DOUBLE CONTACT



Fig. 472

No.	Each	Type	Height Inches	Diam. Base Inches	Weight Dozen Ounces
20	\$.70	Double contact } Single contact }	1	1 ³ / ₈	9
21	.70				

Socket Support

BRASS—FOR FIG. 276 SOCKET



Fig. 277

Threaded ¹/₈ inch I. P. S. Complete with screws for installing

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.60	³ / ₈	³ / ₈ x 1 ¹ / ₂	6

Bayonet Double Contact Socket

BRASS CASE—HARD RUBBER INSULATION

No.	Each	Length Inches	Diam. Inches	Weight Dozen Ounces
1	\$.35	7/8	1 1/16	5
2	.35	1	1 1/16	5
3	.35	1 1/4	1 1/16	6
4	.35	1 1/4	1 1/16	6
5	.35	1 1/4	1 1/16	6

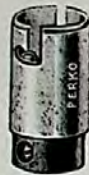


Fig. 747

- No. 1 Wires enter side, screws in bottom.
- No. 2 Wires enter bottom, screws in opposite sides.
- No. 3 Wires enter bottom, screws in opposite sides.
- No. 4 Wires enter bottom, screws in same side.
- No. 5 Wires enter side, screws in bottom.

Note—No. 1 used with rebulbing feature in streamline lights such as Figs. 1138, 1139, 1140, etc.

Bayonet Double Contact Socket

FLANGED TYPE—BRASS AND HARD RUBBER



Fig. 377

Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$.50	1 1/4	1 1/8	9

Size Flange Inches: 1 1/8 x 1 1/2
C to C of Holes Inches: 1 1/8

Bayonet Double Contact Adapter

ALL BRASS

For adapting oil lights to combination oil and electric. 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.

Per Set, Complete.....\$1.45



Fig. 458

Bayonet Double Contact Adapter

BRASS AND HARD RUBBER

For adapting oil fount to electricity. Screw adapter in place of oil burner and punch hole in bottom of fount for cable entrance.

Each	Overall Length Inches	Diam. Thread Inches	Weight Dozen Ounces
\$.70	1 1/4	7/8	8



Fig. 355

Electric Adapters

- No. 650 Bayonet double contact to medium screw, each\$.70
- 670 Medium screw to bayonet double contact, each\$.80
- 680 Medium screw to bayonet single contact, each\$.80
- 830 Medium screw to foreign bayonet double contact, each\$.90
- X12 Mogul to medium screw, ca. \$.95



Fig. 405

Brass Dagger Connectors

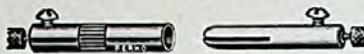


Fig. 283

These are very handy "pull apart" connectors for many uses. Dimensions 1 1/2 x 1/8 inches.

Each Set (as illustrated).....\$.25

Double Contact Connectors

HARD RUBBER—BRASS CONTACTS

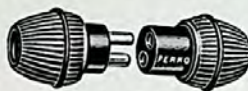


Fig. 749

Each	Size Inches	Weight Dozen Ounces
\$.75	1 1/8 x 2 1/2	10

Double Contact Plug and Socket



Fig. 399

Plug and socket insulation is hard rubber.

All metal parts are brass.

Per Set	Size Flange In.	Outside Diam. Socket In.	Length Socket In.	Wt. Doz. Oa.
\$1.00	1 1/8 x 1 1/2	1 1/8	1 3/8	14

Bayonet Double Contact Plugs

ALL METAL OR HARD RUBBER



All Metal

Fig. 383



Hard Rubber

Fig. 746

With flush type contact screws, used with sockets Figs. 76, 276, 377, 472, 747.

Fig. 383 all metal plug has large opening for 1/2 inch cable.

Fig. 383 Each	Fig. 746 Each	Length Inches	Diam. Fig. 383 Inches	Diam. Fig. 746 Inches	Weight Dozen Ounces
\$.50	\$.30	1 1/2	3/4	1 1/8	8

Brass Cable Straps

FOR CABLE, TUBING, CONTROL WIRE, ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Width Inches
1/8	\$1.65	1 1/8	1/2
1/4	1.85	1 1/4	1/2
3/8	2.00	1 3/8	1/2
1/2	2.00	1 1/2	1/2
5/8	2.10	1 5/8	1/2
3/4	2.30	1 3/4	1/2
7/8	2.50	1 7/8	1/2
1	3.00	1 7/8	1/2
1 1/8	3.30	1 7/8	1/2

FOR LEAD COVERED CABLE



Fig. 1076

Per 100	Size Inside Inches	Length Inches	Width Inches
\$3.25	1 1/8 x 1 1/8	1 1/8	1/2



"Perko" Zinc Marine Oilers

SPRING BRASS BOTTOM



Fig. 326

Heavy gauge zinc with spring brass bottom, cut threads. Spouts are interchangeable.

No.	Complete Per Gross	Extra Spouts Per Gross	Capacity Ounces	Diam. Inches	Length Spout Inches	Weight Per Gross Pounds
3	\$120.00	\$40.00	8	4	4	40
4	150.00	46.00	12	4½	6	48

Bread Breaker Caps

CAST BRONZE



Fig. 72

Complete with rubber gasket and ring for fitting to tank, cut threads.

Per Set	Extra Gaskets Each	Outside Diam. Cover Inches	Inside Diam. Opening Inches	Weight Each Pounds
\$5.50	\$.30	5¾	4¾	2

Brass Axe Brackets

18 GAUGE—POLISHED

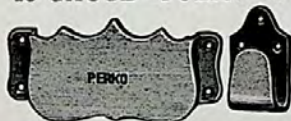


Fig. 325

A set consists of one blade socket and one handle bracket as illustrated.

Complete Sets Per Dozen	Blade Sockets Only Per Dozen	Handle Brackets Only Per Dozen	For Blade Width Inches	Weight Per Set Ounces
\$16.50	\$11.40	\$5.10	6	8

Calcium Water Light

SELF LIGHTING—COPPER CASE



Fig. 843

Lights automatically and immediately on striking the water, gives a 250 candle power white light and burns for 45 minutes.

Each	Size Overall Inches	Weight Pounds
\$12.00	5x8	3

Hand Flares

MOISTURE PROOF—APPROVED

Will burn for not less than 2 minutes giving a brilliant flare of not less than 500 candle-power.



Fig. 281

No.	Color	Per Dozen
1	Red	\$5.75
2	Blue	7.25
3	White	7.25
4	Green	7.25

Watertight Distress Outfits

APPROVED—COPPER CASE—BRASS CAP



Fig. 844

Consists of twelve red signals, each capable of burning two minutes with an intense brilliancy, clearly discernible for over five miles at sea.

Per outfit, complete \$13.00
Cans Only — Each 9.25

Case is 10½ inches high.

Ditty Bags

COMPLETE



Fig. 85

A waterproof canvas bag containing sailmaker's palm, needles, sail twine, marline, marline spike, and wax.

Complete, Each \$4.80

One box matches sewed in waterproof canvas, add \$.65.

Steel Boat Bailers

GAVANIZED—RIVETED HANDLE



Fig. 180
Diameter Inches 8¼

Each \$2.25

Weight Pounds 1



“PERKO” SEALED BEAM SEARCHLIGHTS

POLISHED BRASS OR CHROMIUM PLATED

WITH CLEAR LENS — NOT FLUTED

6 OR 12 VOLT — 40 WATT — RANGE, ABOUT 1/3 MILE — 115000 BEAM CANDLEPOWER

A “SEALED BEAM” unit consisting of the bulb, reflector and lens all in one piece is the most practical for marine searchlights. It is absolutely watertight and vibration proof.

A watertight packing gland is installed around control rod to prevent entrance of water where rod passes thru pilot house roof.

DECK CONTROL



Fig. 436

6 Volt					
Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
\$19.00	\$23.00	6	4	8 5/8	2 1/2

12 Volt, add \$1.50 each

WITH CLAMP-ON BRACKET



Fig. 438

For clamping to windshield, stanchion or any other vertical mounting. The light can readily be detached for portable operation.

The clamp is cast bronze and will fit a mounting up to 1 1/2 inches in diameter.

Light is same size as Fig. 436.

6 Volt	
Polished Brass Each	Chromium Plated Each
\$21.00	\$25.00

12 Volt, add \$1.50 each

PILOT HOUSE CONTROL



Fig. 437

6 Volt					
Polished Brass Each	Chromium Plated Each	Lens Diam. Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
\$28.00	\$33.00	6	4	10	3 1/4

12 Volt, add \$1.50 each

Length control below base 8 1/2 inches.

WITH SCREW-ON BRACKET



Fig. 439

For mounting on side of cabin or deck house. The light can readily be detached for portable operation.

The bracket is cast bronze.

6 Volt		Dimen-
Polished Brass Each	Chromium Plated Each	sions Inches
\$20.00	\$24.00	2 1/8 x 3/4

12 Volt, add \$1.50 each

SEALED BEAM UNIT

6 OR 12 VOLT — 40 WATT — 115000 BEAM CANDLEPOWER



Fig. 433

The sealed all glass unit used in the searchlights on this page. The lens is hermetically sealed to the reflector. Dirt and moisture are positively excluded. The reflector cannot tarnish.

6 Volt Each	12 Volt Each	Diameter Inches	Weight Ounces
\$3.00	\$4.50	5 3/8	15

"Pathfinder" Searchlights

WITH CHROMIUM PLATED REFLECTOR
6 OR 12 VOLTS—50 CANDLEPOWER
BAYONET DOUBLE CONTACT SOCKET
WATERTIGHT GLAND
RANGE—ABOUT 1/3 MILE



Fig. 1022

Pilot House Type



Fig. 1023

Deck Type
with Switch

Fig.	Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck
1022	\$33.75	\$43.00	7	6 1/4	7 1/4	12
1023	26.00	33.50	7	6 1/4	7 1/4	13 1/2

Fig. 1022 length control rod below base 8 1/2 inches.

"Perko" "Beam" Searchlights

WITH CHROMIUM PLATED REFLECTOR
6 OR 12 VOLTS—50 CANDLEPOWER
BAYONET DOUBLE CONTACT SOCKET
ENCASED WIRING—FOCUSING DEVICE
WATERTIGHT GLANDS AT CABLE
AND CONTROL ROD ENTRANCES
RANGE—ABOUT 1/2 MILE
For higher power see notes below.

Sunbeam

WITH PILOT HOUSE CONTROL—NO SWITCH



Fig. 306

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
3	70.00	84.00	8	7 7/8	14	5 1/2
4	90.00	104.00	8	7	14	5 1/2

Length control rod below base, 10 inches.

No. 4 has mangin mirror reflector and 100 C. P. bulb, range about 3/4 mile.

Combination Light and Searchlight

POLISHED BRASS OR CHROMIUM PLATED
SEALED BEAM SEARCHLIGHT
6 or 12 VOLT — 40 WATT — RANGE 1/2 MILE



Fig. 416

The searchlight is our 6 inch diameter sealed beam type. The combination light is our Fig. 1140 with re-bulbing feature.

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Size Base Inches	Weight Pounds
\$23.00	\$27.25	10	3 3/4 x 6 1/4	3 1/4

Sunbeam

DECK TYPE—WITH SWITCH

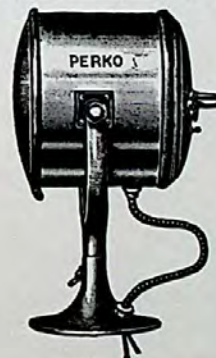


Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
3	48.00	58.00	8	7 7/8	14	5 1/2
4	58.00	68.00	8	7	14	5 1/2

No. 4 has mangin mirror reflector and 100 C. P. bulb.
Note—Figs. 305 and 306 with 6 or 12 Volt 100 C.P. bulb, add \$1.75 each. With 32 Volt 50 C.P. bulb, add \$1.75 each. 32 Volt 100 C.P. bulb, add \$2.50 each.
Spare lenses, reflectors, bulbs, etc., see pages 33 and 49.

"Perko" High Power Searchlights

WITH MIRROR REFLECTOR—MEDIUM SCREW SOCKET

VOLTAGE—6, 12, 32, AND 120 VOLTS

PACKING GLANDS AT CABLE AND CONTROL ROD ENTRANCES

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 great distance.

CONTROLLING DEVICE—of patented design, containing no wires to twist or break; very easy to control.

HOUSE CONTROLS—are of the wheel or lever type, both having their distinct advantages.

WIRING—enclosed in flexible metal hose, fully protected from weather.

BULBS—Bulbs furnished as standard equipment in various voltages are as follows—6 volts, 18 amps.; 12 volts, 18 amps.; 32 volts, 8 amps.; 120 volts, 500 watt. Can also furnish 32 volt, 400 watt and 120 volts, 250, 400 or 1000 watt bulbs for additional price. See notes below.

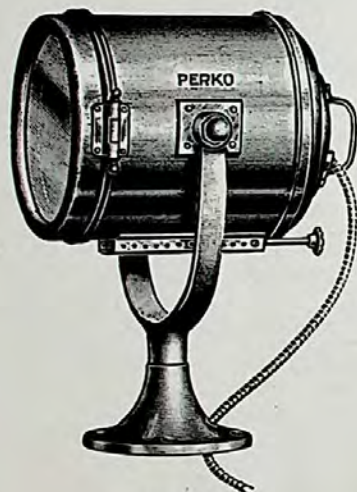


Fig. 480

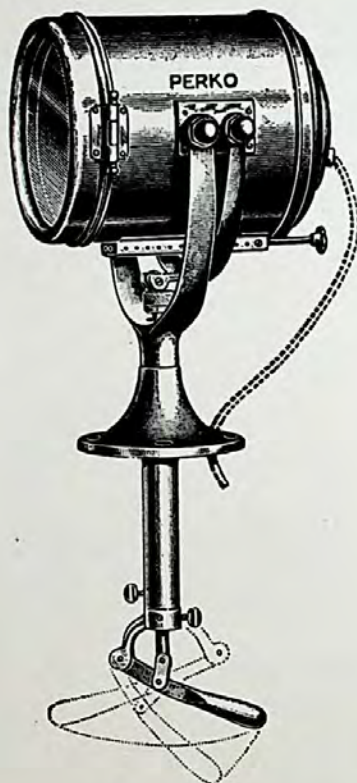


Fig. 297

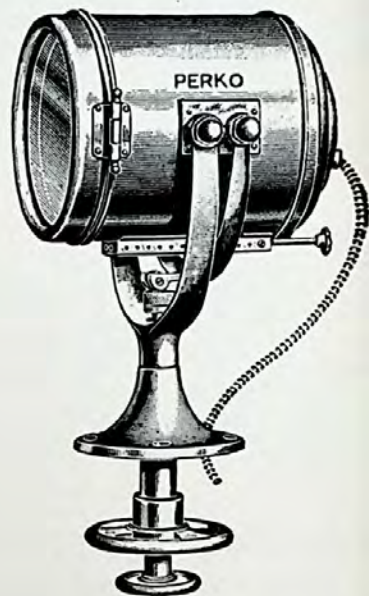


Fig. 529

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Above Deck Inches	Weight Pilot House Type Pounds	Diameter of Base Inches
8	8	up to ¾ mile	350,000	12¾	7¾	19	30	6½
10	10	up to 1 mile	590,000	14¾	9½	21	34	6½
12	12	up to 1½ miles	700,000	17	11¾	24	41	6½
14	14	up to 2 miles	850,000	19	13½	26	56	8½

Fig. 480

Fig. 297

Fig. 529

Size Inches	Fig. 480		Fig. 297		Fig. 529	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
8	\$145.00	\$165.00	\$165.00	\$195.00	\$185.00	\$215.00
10	165.00	190.00	190.00	220.00	205.00	235.00
12	205.00	235.00	225.00	260.00	240.00	275.00
14	255.00	285.00	275.00	310.00	295.00	330.00

NOTES

With 32 volt 400 watt bulb, add \$2.00 each.

With 120 volt 250 or 400 watt bulb, add \$1.25 each.

With 120 volt 1000 watt bulb (special construction) price on application.

Spare bulbs, reflectors, lenses, etc. See pages 33 and 49.

Special length of pilot house control to order, price on application.

Spare medium screw sockets, \$.80 each.

Mirror Reflectors FOR SEARCHLIGHTS



Fig. 427

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

Diam. Inches	Each	Style	For Searchlights Fig. and Size
7	\$10.00	Mangin	305-306 No. 4
8	20.00	Parabolic	297-480-529-8 inch
10	22.00	Parabolic	297-480-529-10 inch
12	27.50	Parabolic	297-480-529-12 inch
14	37.50	Parabolic	297-480-529-14 inch

Metal Reflectors FOR SEARCHLIGHTS BRASS—CHROMIUM PLATED



Fig. 428

Extreme Diam. Inches	Each	For Searchlights Fig. and Size
7	6.50	1022-1023
7 7/8	7.25	305-306 No. 3

Cork Gaskets for Reflectors, \$.55 each.

Front Lens FOR SEARCHLIGHTS



Fig. 429

Diam. Inches	Each	Style	For Searchlights Fig. and Size
7	1.85	Convex	1022-1023
7 3/4	2.00	Convex	305-306 Nos. 3 & 4
8 3/8	2.25	Flat	297-480-529-8 inch
10 1/4	2.60	Flat	297-480-529-10 inch
12 1/4	3.25	Flat	297-480-529-12 inch
14 1/4	4.25	Flat	297-480-529-14 inch

Floodlights

ENCLOSED — WEATHERPROOF

An economically priced line with choice of types to fill most requirements.

CLAMP TYPE
with Mogul Socket

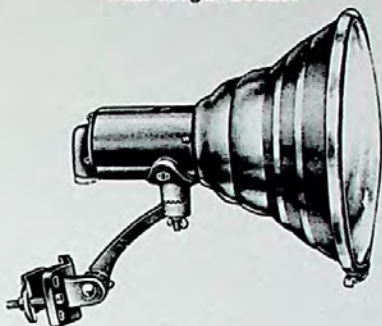


Fig. 227

With polished spun aluminum reflector and heat resisting glass lens. Cast aluminum bracket, spun aluminum housing.

For mounting on wall, cross arm or pipe up to 2 3/4 inches.

Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$22.00	12	14	500	7

DECK TYPE
with Medium Screw Socket



Fig. 228

With glossy white enameled reflector and weatherproof sealed lens, gray tone enamel exterior. 6 foot approved cord and plug.

Each	Diam. Lens Inches	Length Housing Inches	Diam. Base Inches	Maximum Wattage	Weight Pounds
\$7.00	7 1/2	8	4 1/4	100	3

UTILITY TYPE
with Medium Screw Socket



Fig. 229

With ball bearing casters for use in boat yards, shops, docks, etc.

Glossy white enameled reflector, sealed lens, lens guard and 20 feet of service cord with plug.

Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$10.00	7 1/2	8	100	5 1/2

"Star" Oil Compasses

WITH DIAMOND POLISHED JEWEL BEARING



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 Card Inches	Diam. Inches	With Box Each	Outside Diam. Inches	Gimbal Inches	Outside Meas. Box Inches
2	2 1/16		\$12.10	3 3/8		4 1/4 Diam.
2 1/2	2 3/16		13.75	4 1/4		5 3/8 x 5 3/8
3	3 1/16		18.70	4 3/4		6 1/8 x 6 1/8
4	4		24.20	6		7 1/8 x 7 1/8
5	4 3/4		31.35	6 7/8		8 1/2 x 8 1/2
6	5 1/4		39.60	7 7/8		9 3/8 x 9 3/8

NOTE—2 inch size in round bakelite box. All other sizes in square mahogany box.

"Star" Spherical Dome Oil Compass

WITH REDUCED BLACK DIAL—MAGNIFIED COMPLETE WITH MAHOGANY BOX



Fig. 463

The "Star" Spherical Dome Oil Compass gives to the marine field an inexpensive compass embodying many practical features not found in more expensive types.

The small diameter magnified card assures steadiness under all sailing conditions, reduced surface friction and liquid drag. It is easy to read at 15 foot distance in a standing or sitting position within a range of 130 degrees.

Diameter Dial Inches	With Box Each	Outside Diam. Inches	Gimbal Inches	Outside Meas. Box Inches
3	\$30.00	4 3/4		6 1/8 x 6 1/8
4	36.00	6		7 1/8 x 7 1/8
5	43.00	6 7/8		8 1/2 x 8 1/2
6	53.00	7 7/8		9 3/8 x 9 3/8

"Star" Semi-Dome Oil Compass

MAGNIFYING



Fig. 823

Trade Size Inches	With Box Each	Diam. Card Inches	Outside Diam. Inches	Gimbal Inches	Outside Meas. Box Inches
3	\$30.00	3 1/16	4 3/4		6 1/8 x 6 1/8
4	36.00	4	6		7 1/8 x 7 1/8
5	43.00	4 3/4	6 7/8		8 1/2 x 8 1/2
6	53.00	5 1/4	7 7/8		9 3/8 x 9 3/8

"Ritchie" Spirit Compasses

REGULAR FLAT TOP—WITHOUT BOX



Fig. 987

Marked to 360 degrees with cardinal and intercardinal points.

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under-lighted Type Each	With Mahogany Box Add Each	Diam. Gimbal Ring Inches
4	4	\$42.00	\$61.00	\$11.50	6
5	4 1/2	47.00	71.00	15.00	6 7/8
6	5 1/4	56.00	81.00	18.00	8 3/8

"Star" Pathfinder Compasses

WITH MAGNETIC COMPENSATOR
INDIRECT ILLUMINATION
MAGNIFIED DIAL



Bulkhead Type
Fig. 33



Shelf Type
Fig. 34

Fig.	Each	Diam. Face Inches	Depth Inches	Height Overall Inches	Size Base Inches	Weight Ounces
33	\$13.25	2 1/4	2 1/4	4	3	11
34	13.25	2 1/4	2 1/4	4 1/2	2 5/8	12

Cruiser Binnacle

WROUGHT BRASS—TWO PIECE

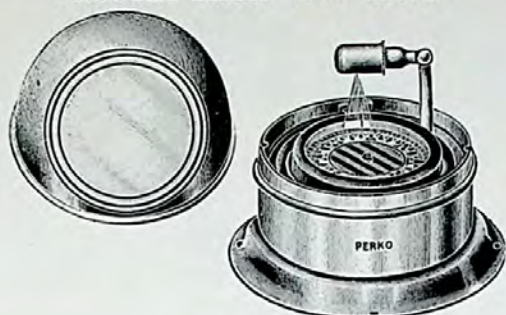


Fig. 401

Removable head allows easy access to compass. Furnished complete with double contact electric fixture for illuminating compass at night. Head is held fast to base by internal catch.

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 3/8	10	7 3/8	2 3/4

For Size Compass Inches	Without Polished Brass Each	Compass Chromium Plated Each	With Oil Polished Brass Each	Compass Chromium Plated Each
3	\$25.50	\$30.00	\$42.70	\$47.20
4	28.00	33.50	50.50	56.00
5	31.50	38.00	60.50	67.00

The Observoscope

AN "EASY TO USE PELORUS" AND DIRECTIONAL INSTRUMENT
POLISHED BLACK PLASTIC
ALL BRASS METAL PARTS

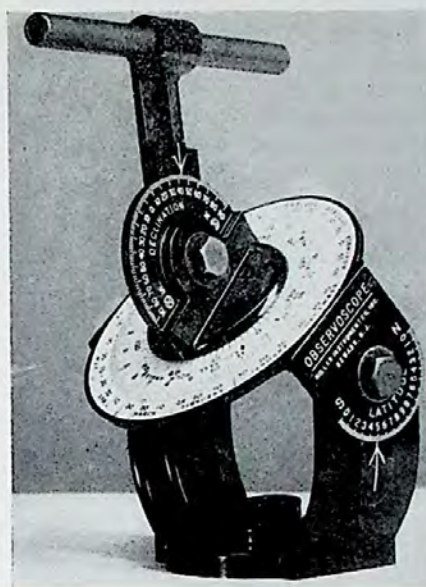


Fig. 946

Each \$14.00

Skylight Binnacle

BRASS



Fig. 534



Night Hood

Extra heavy brass throughout. Complete with night hood and double contact electric fixture.

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 Polished Brass Each	Compass Chromium Plated Each	With Oil Polished Brass Each	Compass Chromium Plated Each
1	\$57.50	\$69.50	\$80.00	\$92.00
2	62.00	74.50	91.00	103.50

ALL ABOVE BINNACLES REGULARLY FURNISHED WITH OIL COMPASS FIG. 487. IF OTHER TYPES OF COMPASSES ARE DESIRED, ADD DIFFERENCE IN PRICE BETWEEN FIG. 487 AND OTHERS.

Boat owners whose craft equipment includes a compass will be interested in the OBSERVOSCOPE.

This uninvolved and easy to use instrument serves as a PELORUS, and it will aid in determining when their compass requires adjustment. It is a directional device which will also perform other functions — as explained in the simple and complete instructions that are packed with each instrument.

This is a fine piece of equipment that cannot be fully appreciated until it has been seen and used.

SOME OF ITS MANY USES

Identifies any listed celestial object in the visible sky.

Establish approximate local civil time.

Visibly explains astronomical terms such as declination, sidereal hour angle or right ascension.

Act as a celestial slide rule to check angles, bearings and meridian lines, etc., etc.

Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE
TRANSPARENT

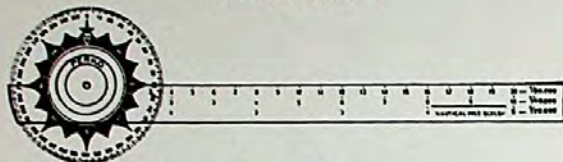


Fig. 706

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
\$3.00	21 1/2	6 3/8

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 Over All Inches
\$3.25	\$3.90	8



Fig. 697

String Protractor

TRANSPARENT

For use where space is limited.

Size, 4x4 inches.

Each\$1.00

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's Practical Navigator on symbols for weather, state of sea, cloud formations, force of wind, etc.

- No. 1 Binding: Imitation leather, pebble finish, sea board green color, gold letters, without gold border. Each\$
- No. 2 Binding: Imitation leather, pebble finish, blue color, gold letters and gold border. Each\$

Parallel Rules

NATURAL EBONY FINISH



Fig. 686

Furnished in natural ebony finish with brass bars and finger grips.

Length Closed Inches	Each
12	\$4.25
15	5.00
18	6.00

Dividers

BRASS—NICKEL-PLATED



Fig. 693

Length, 6 inches, each.....\$2.50

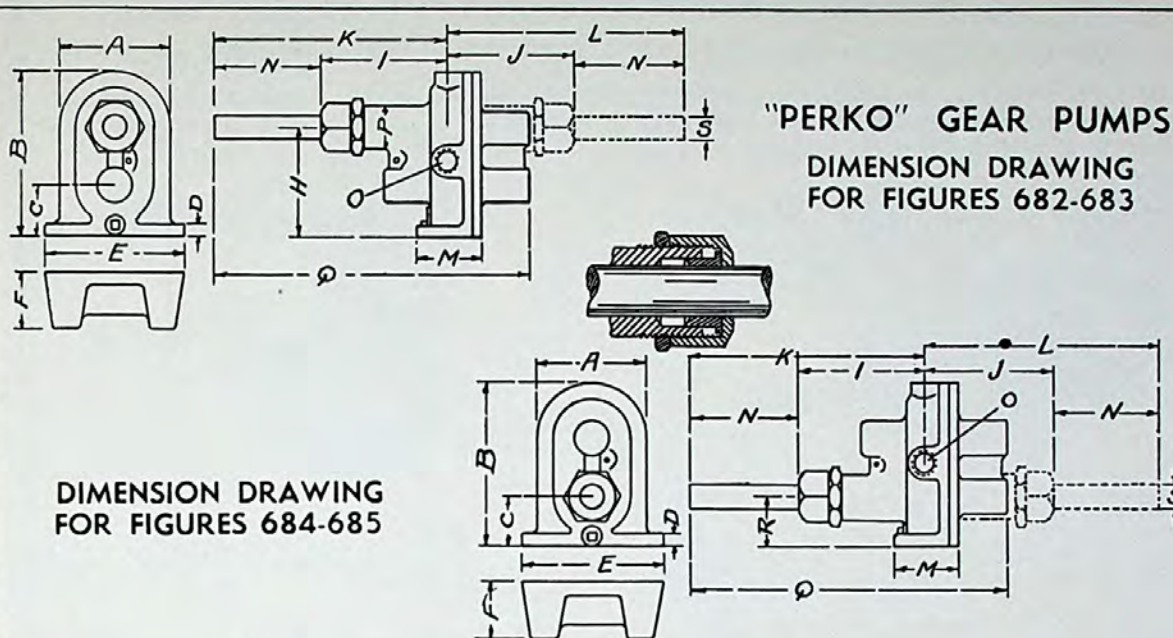
Chart Cases



Fig. 372

Made of galvanized iron or sheet copper, water-tight cover, folding handle on side for carrying.

Diam. Inches	Length Inches	Galv. Each	Copper Each
3	36	\$6.50	\$12.00
4	36	8.00	13.75



"PERKO" GEAR PUMPS
DIMENSION DRAWING
FOR FIGURES 682-683

DIMENSION DRAWING
FOR FIGURES 684-685

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 $\frac{3}{4}$	3 $\frac{1}{2}$	1 $\frac{3}{4}$	$\frac{3}{8}$	2 $\frac{7}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	4 $\frac{5}{8}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{1}{4}$	1 $\frac{1}{8}$	6 $\frac{7}{8}$	1 $\frac{1}{8}$	$\frac{1}{2}$
3	2 $\frac{3}{4}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{5}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{4}$	2 $\frac{1}{8}$	2 $\frac{1}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{4}$	2 $\frac{1}{2}$	$\frac{3}{8}$	1 $\frac{1}{4}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
4	2 $\frac{3}{4}$	3 $\frac{7}{8}$	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{5}{8}$	1 $\frac{3}{8}$	2 $\frac{3}{4}$	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 $\frac{1}{4}$	7 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
7	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{3}{8}$	$\frac{1}{4}$	4 $\frac{1}{8}$	1 $\frac{3}{8}$	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 $\frac{3}{8}$	7 $\frac{1}{2}$	1 $\frac{1}{8}$	$\frac{5}{8}$
9	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{3}{8}$	$\frac{1}{4}$	4 $\frac{1}{8}$	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 $\frac{1}{8}$	2 $\frac{1}{2}$	1	1 $\frac{3}{8}$	7 $\frac{1}{2}$	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	$\frac{1}{2}$	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 $\frac{3}{4}$

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	1*	12.*	1 $\frac{1}{2}$ *	10.8* ¹	1 $\frac{1}{2}$ *
9	20.*	$\frac{3}{4}$	18.75* ¹	1*	17.7* ¹	1 $\frac{1}{2}$ *	16.5* ²	1*	15.3* ²	1*

*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" 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

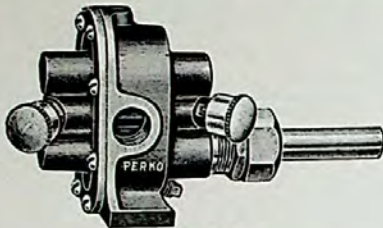


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$14.00	1/4	1/2	3 3/4
3	13.25	16.25	3/8	3/8	5 1/2
4	14.50	17.75	1/2	3/8	6
7	19.00	21.50	3/4	3/8	9
9	20.25	23.00	1	3/8	9 1/2

Single Upper Drive Shaft

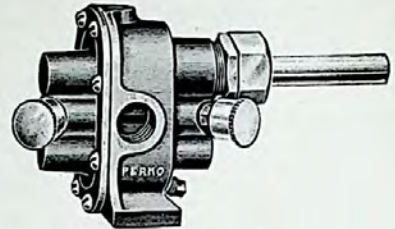


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$14.00	1/4	1/2	3 3/4
3	13.25	16.25	3/8	3/8	5 1/2
4	14.50	17.75	1/2	3/8	6
7	19.00	21.50	3/4	3/8	9
9	20.25	23.00	1	3/8	9 1/2

Double Lower Drive Shaft

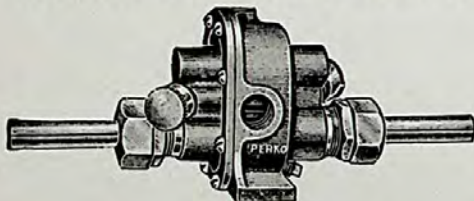


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$13.25	\$16.00	1/4	1/2	4 1/2
3	15.75	18.00	3/8	3/8	6 1/4
4	17.00	19.50	1/2	3/8	6 3/4
7	22.25	24.00	3/4	3/8	9 1/2
9	23.50	26.25	1	3/8	9 3/4

Double Upper Drive Shaft

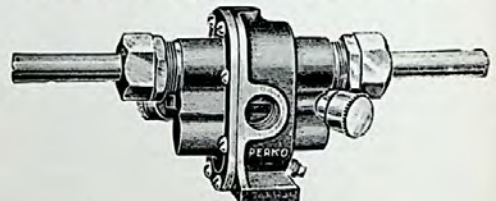


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$13.25	\$16.00	1/4	1/2	4 1/2
3	15.75	18.00	3/8	3/8	6 1/4
4	17.00	19.50	1/2	3/8	6 3/4
7	22.25	24.00	3/4	3/8	9 1/2
9	23.50	26.25	1	3/8	9 3/4

For special lengths of shafts add \$.65 each, and then \$.60 for every six inches or fraction thereof beyond standard length.

NOTE—Don't fail to state figure and pump number desired, also direction when herringbone gears are ordered.

"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	\$2.90	\$1.80	\$4.15	\$4.85	\$1.40	\$.95	\$.50	\$.95	\$.90
3	3/8	3.15	2.10	4.65	4.95	1.40	1.20	.65	1.05	.90
4	1/2	3.75	2.60	6.00	5.85	1.65	1.20	.65	1.05	1.35
7	3/4	4.35	4.00	8.25	7.20	1.65	1.20	.65	1.05	1.35
9	1	5.85	4.25	9.30	7.70	1.65	1.20	.65	1.05	1.35



"Perko" Ford Gear Pumps

ALL BRONZE
FOR MODEL A FORD MOTOR CONVERSIONS

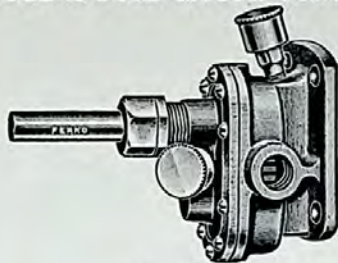


Fig. 530

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	Herringbone Gears Each	Size Pipe Connections Inches	Diam. Shaft Inches	Weight Pounds
\$19.00	\$23.00	3/8	1/2	4 1/2

"Perko" Star Gear Pump

ALL BRONZE
FOR STAR MARINE MOTOR CONVERSIONS

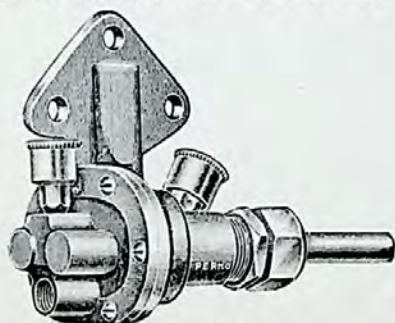


Fig. 804

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
\$18.50	\$22.50	3/8	1/2	4

"Perko Rotoflex" Pump

SYNTHETIC NEOPRENE COMPOUND ROTOR
ALL BRONZE BODY—MONEL SHAFT
BRASS GREASE CUPS

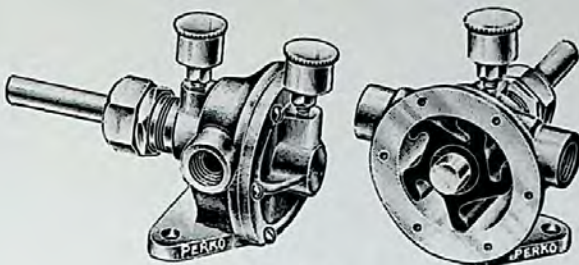


Fig. 696

Quiet operation — long continuous service — large capacity at low speed — for use with salt water, oil and tars. — Self priming. — Will pump in either direction.

The rotor is a synthetic compound of neoprene and other chemicals resulting in high resistance to abrasion or wear, is impervious to oil and other impurities. The vanes of the rotor are highly flexible yet tough enough to resist the wear encountered by the passage of sand and other foreign matter, produce the necessary high vacuum and stand the continuous flexing as the rotor revolves.

Lift in feet, 25 to 30.

Head in feet, 30 to 40.

Not to be used with synthetic solvents such as gasoline, naphtha, etc.

No.	Each	Spare Rotors Each	Size Pipe Connection Inches	Diam. Shaft Inches	Extreme Height Inches	Extreme Width Inches
2	\$12.00	\$1.50	3/8	1/2	3 1/2	3 1/2
3	15.75	2.25	1/2	3/8	3 3/4	4
4	18.25	3.50	3/4	3/8	4	4 1/2
5	24.00	3.50	1	3/8	4	5
6	48.50	6.50	1 1/4	3/8	5	7 1/4

No.	Extreme Length Inches	Dimensions Base Inches	Capacity G.P.M.			Weight Pounds
			600 R.P.M.	*1000 R.P.M.	1500 R.P.M.	
2	6 1/4	3 x 1 3/4	4.1	4.9	6.4	2 3/8
3	6 7/8	3 3/8 x 2 1/8	7.1	8.5	11.0	3 3/4
4	8 3/8	4 x 3	13.0	16.5	22.0	3 3/4
5	8 3/8	4 1/8 x 3	15.7	19.2	26.0	6
6	9 1/2	5 1/2 x 3 1/2	19.5	33.5	48.0	14

*Recommended maximum for continuous duty. Capacity shown based on 0 lbs. pressure. with special length of shaft, price on application. Motor recommended 1/4 to 1/2 H.P. for sizes No. 2-3-4-5 and up to 3/4 H.P. for size No. 6.

"Perko Rotoflex" Pump with V Belt Pulley

SHAFT SEAL—BALL BEARING PULLEY

Side pull absorbed by ball bearing and body, not by shaft. A large, double shielded, grease packed, lifetime ball bearing is mounted inside the pulley and on the pump body. Only torque is applied to the shaft. All sizes are supplied with double packed shaft seals which minimize shaft leakage and avoid necessity of tightening stuffing box. Supplied with brass grease cups.

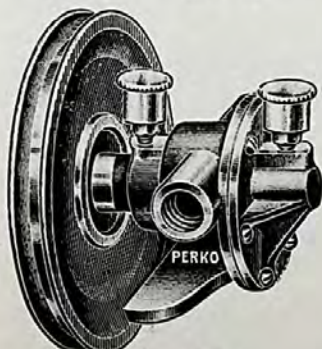


Fig. 703

No.	Each	Diameter Pulley Inches	No.	Each	Diameter Pulley Inches
2	\$21.00	4	5	\$34.00	6
3	25.75	6	6	58.50	6
4	28.25	6			

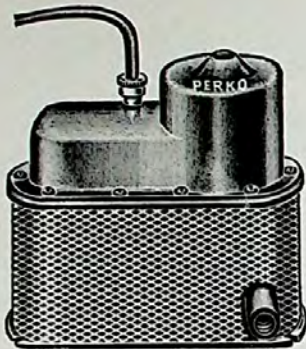
For dimensions, capacity and other data, see Fig. 696 above.



“Perko Watertite” Electric Bilge Pumps

ALL CAST BRONZE—6-12-32 and 110 VOLTS

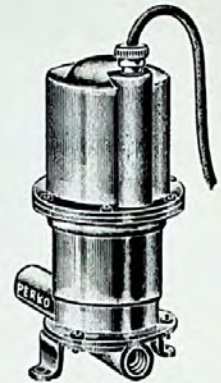
WATERTIGHT—VAPORPROOF—WILL OPERATE ENTIRELY SUBMERGED



Automatic
Fig. 724



Non-Automatic
Fig. 725



Non-Automatic
with Pipe Inlet
Fig. 726

A decided improvement in electric bilge pumps. The heavy duty motor is sealed in a watertight and vaporproof cast bronze housing, complete submergence will have no ill effect. Water from the lower pump section cannot enter the upper motor section. The pump shaft is sealed where it passes through the partition.

FIG. 724 AUTOMATIC PUMP—Has a 3½ inch diameter copper float protected by 80 square inches of heavy brass strainer. The float is adjustable to operate at various depths. Outlet for ½ inch pipe or 1 inch hose.

FIG. 725 NON-AUTOMATIC PUMP—Has a large diameter base for good support. Intake is through under part of base which has heavy gauge brass strainer. Outlet threaded for ½ inch pipe.

FIG. 726 NON-AUTOMATIC PUMP—Intake and outlet is through threaded ½ inch pipe connection. A ½ inch pipe nipple can be used if hose is preferred. This unit especially designed for use when it is desirable to locate the pump elsewhere than in the bilge.

Fig.	Voltage				Height Overall Inches	Size Base Inches	Weight Pounds	Motor Specifications			R.P.M.
	6 Volts Each	12 Volts Each	32 Volts Each	110 Volts D.C. Each				Volts	Amps.	H.P.	
724	\$39.50	\$41.50	\$44.50	\$47.50	7½	8¾x4¼	12	6	7.0	1/40	2500
725	27.00	29.00	32.00	35.00	8½	5¼	7½	12	3.5	1/40	2500
726	28.00	30.00	33.00	36.00	9	4¼	6½	110 D.C.	.32	1/60	2000

NOTE — All above can be supplied with 110 Volt A.C. motors, add \$2.00 each to price of 110 Volt D.C.

CAPACITY—Forces water up to 8 feet above pump level, 500 gallons per hour at 1 foot, 360 gallons at 4 feet, 240 gallons at 6 feet. At this capacity, motor will operate for hours consecutively without overheating.

Perko "Flexo-Shaft" Electric Bilge Pump

PATENT APPLIED FOR
ALL BRONZE EXCEPT THE MOTOR
FLEXIBLE BRONZE SHAFT IN
FLEXIBLE BRONZE CASING

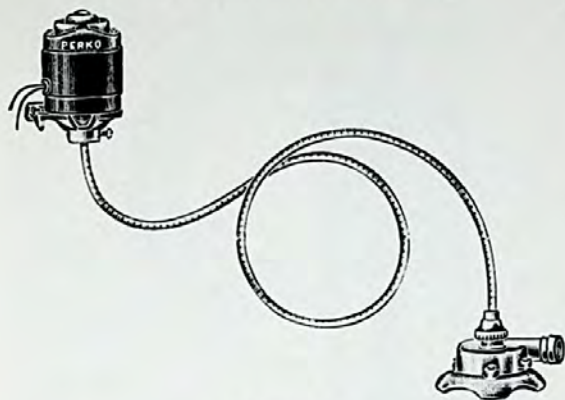


Fig. 666

Why didn't someone think of this before. Its utility is obvious at a glance.

Tie the shaft in a knot, it operates. Pass it around corners, over or under bulkheads, ribs or any other obstructions and it still operates.

Mount the motor anywhere, in a cabin, pilot house, or out in the cockpit far removed from gasoline fumes that usually settle in low places; place the pump where it is needed at the moment, at the lowest point of the bilge, under the engine, under low decking or any place other types of pumps cannot reach.

Inlet is through base which has heavy gauge brass strainer. Outlet is illustrated and is for 1 inch rubber hose.

CAPACITY—500 gallons per hour at 1 foot,
MAXIMUM HEAD—7 feet.

MOTOR IS LOW AMPERAGE 1/40th H.P. AT 2500 R.P.M.

Height Pump Inches	Diam. Base Inches	Weight Pounds	110 D.C. Volts Each			
			6 Volt Each	12 Volt Each	32 Volt Each	110 D.C. Volts Each
4 1/4	4 3/8	7				
With 3 ft. shaft			\$30.00	\$33.00	\$36.00	\$38.00
With 6 ft. shaft			32.00	35.00	38.00	40.00

Note — Can be supplied with 110 Volt A.C. motors. Add \$2.00 each to price of 110 Volt D.C.

Spare 3 foot shafts 5.00 each.
Spare 6 foot shafts 7.00 each

Special lengths of shaft can be supplied, price on application.

"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE
FOR MARINE, INDUSTRIAL AND DOMESTIC USE
IMPROVED VALVES HOLD PRIME

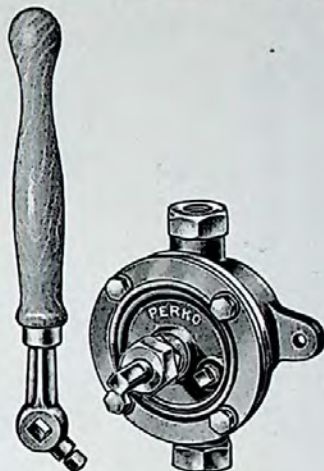


Fig. 681

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.

Intake valves have been greatly improved and priming is unnecessary even after several weeks of disuse.

EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$38.00	1/2	5 1/8	5	11 1/2
1	42.00	3/4	5 3/4	7	14
2	49.00	1	6 3/8	9 3/4	19 1/2

"Champion" Navy Bilge Pump
BRASS CYLINDER—CAST BRONZE PARTS
WITH WEIGHTED LEATHER VALVE



Fig. 1016

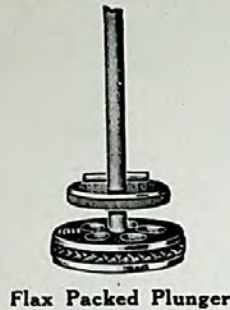


Fig. 147
Weighted Leather Valve

CAPACITY—13 STROKES—5 GALLONS

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$18.75	24	2 3/4	1 1/4	1 1/2	1/2

Fig. 147—Weighted leather valve only, each.....\$1.00

"Improved" Navy Bilge Pump
BRASS CYLINDER—CAST BRONZE PARTS
WITH ALL BRONZE POPPET VALVE



Fig. 497

CAPACITY—13 STROKES—5 GALLONS

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$21.00	24	2 3/4	1 1/4	1 1/2	1/2

Fig. 158—Poppet type valve only, each.....\$5.00



Fig. 158
All Bronze Poppet Type Valve

"Super" Navy Bilge Pump
FOR HOSE OR PIPE
WITH WEIGHTED LEATHER VALVE

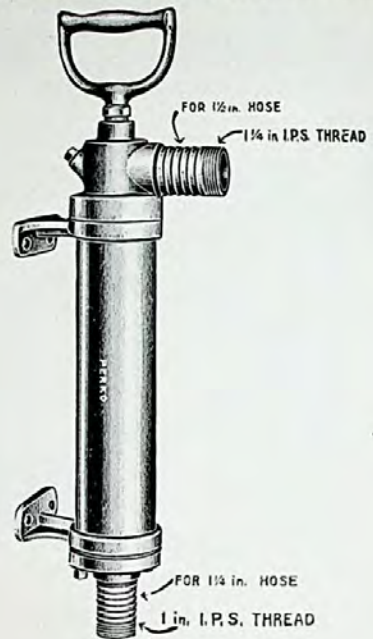


Fig. 701

This is our very popular "Champion" Pump improved by cast bronze integral fittings at inlet and outlet end for connecting hose or pipe.

Each	Extreme Length Inches	Inlet Sizes		Outlet Sizes	
		Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$21.50	27	1	1 1/4	1 1/4	1 1/2

"Midget" Navy Bilge Pumps
FOR HOSE OR PIPE
WITH WEIGHTED LEATHER VALVE

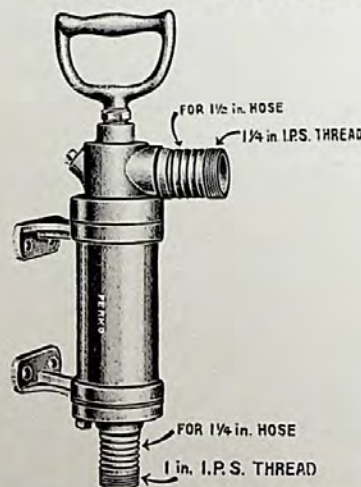


Fig. 702

Our Fig. 701 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
\$20.00	18 1/4	2 3/4	1	1 1/4	1 1/4	1 1/2

Fig. 108—Plunger Assembly Only, Each.....\$6.75



Fig. 108

Brass Bilge Pumps DOUBLE ACTION

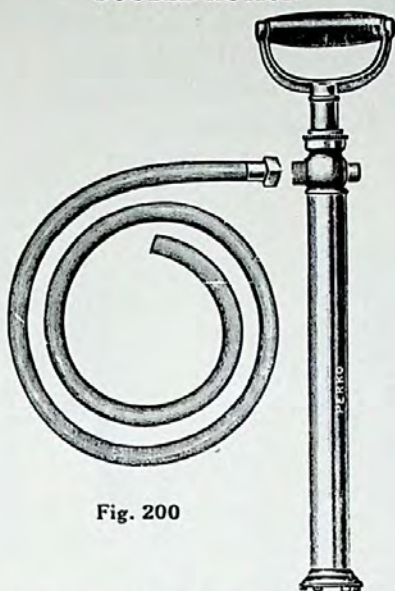


Fig. 200

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	\$8.50	17 3/8	1 1/8	6	2 1/4
2	10.00	20	1 1/2	12	3 1/4
4	12.50	29	1 1/2	16 1/2	4

Without hose, deduct \$. 50 each.

Brass Bilge Pumps WITH SUCTION HOSE AND STRAINER

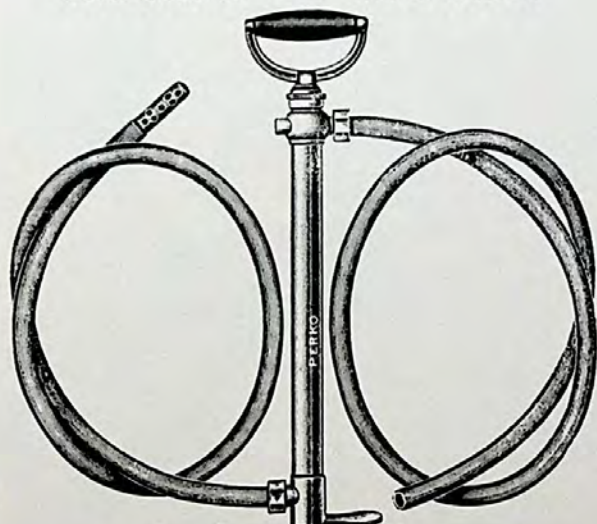


Fig. 202

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	\$11.25	18 3/8	1 1/8	6	3
6	13.25	21	1 1/2	12	4
8	17.50	30	1 1/2	16 1/2	5

Without hose, deduct \$1.00 each.

Brass Bilge Pump

SINGLE ACTION—WITH 5 FT. RUBBER HOSE

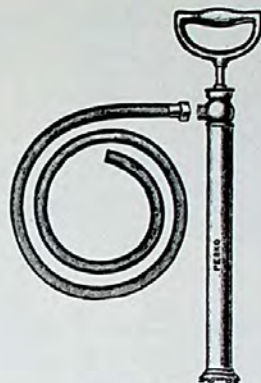


Fig. 723

CAPACITY—15 STROKES 1 GALLON

No.	With Hose Each	Without Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
0	\$7.50	\$7.00	1 1/8	17 3/8	2

Galvanized Steel Bilge Pumps

WITH LEATHER PLUNGER AND VALVE
WOOD ROD AND T HANDLE
FUNNEL TOP



Fig. 156

Overall Length Feet	Diameter, Inches			
	2 1/2	3	3 1/2	4
3	\$6.25	\$7.00	\$7.25	\$8.75
4	6.25	7.00	7.25	8.75
5	6.25	7.00	7.25	8.75
6	7.50	8.40	8.70	10.50
7		9.80	10.15	12.25
8		11.20	11.60	14.00
9			13.05	15.75
10			14.50	17.50

Longer lengths supplied to order.

Crating Charge — \$2.50 net per crate regardless of quantity of pumps it contains.



Brass Bilge Pump
WITH BULKHEAD BRACKETS
THREADED FOR 3/8 INCH PIPE

No.	Diam. Barrel Inches	Length Overall Inches	Weight Pounds
2	1 1/2	21	3
4	1 1/2	31	4

No.	Without Tall Pieces Each	With Tall Pieces Each
2	\$13.50	\$15.00
4	15.50	17.00

Fig. 345

Crank Case Pump
DOUBLE ACTION—ALL BRASS
Capacity per minute—2 Gallons



Fig. 146

For draining the crank case through filler opening, with outlet spout for attaching rubber hose. Intake is brass flexible metal hose.

Complete Each	Spare Intake Hose Each	Length Overall Inches	Length Intake Hose Inches	Diam. Pump Inches	Weight Pounds
\$8.25	\$2.75	17 1/2	12 1/2	1 1/8	2 1/2

Crank Case Pump

DOUBLE ACTION—ALL BRASS



Fig. 1029

This pump is equipped with a cast bronze intake tube 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	Spare Intake Tube Each	Length Overall Inches	Diam. Pump Inches	Weight Pounds
\$7.75	\$1.40	20	1 1/8	2 1/2

Crank Case Pump

SINGLE ACTION—ALL BRASS
WITH FLEXIBLE METAL HOSE INTAKE



Fig. 388

Complete Each	Spare Intake Hose Each	Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Pounds
\$6.60	\$2.20	1 1/2	12	15 1/2	2

Galley and Lavatory Pumps

POLISHED BRONZE OR CHROMIUM PLATED
BRASS BALL CHECKS IN PLUNGER
AND INLET VALVES

WITH BRONZE T HANDLE

LOW OR GOOSENECK SPOUT
FLARED FLANGE



Fig. 144



Fig. 1040

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.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds
144	1 1/2	13 1/2	3	0	3
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	\$12.00	\$14.00
1040	13.00	15.00

ANGLE TYPE

DOUBLE ACTION—SWIVEL SPOUT
EFFORTLESS OPERATION



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.

Capacity, 10 strokes per quart.

Polished Bronze Each	Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
\$11.25	\$14.00	3/8	4	4 1/4	2 1/4

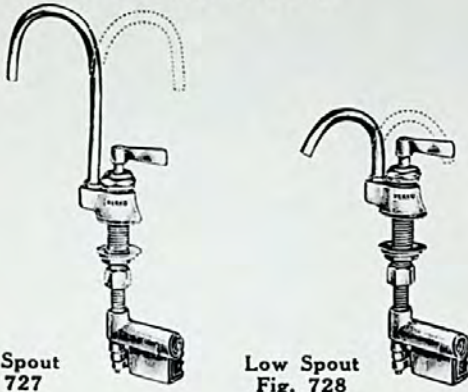
"Perko" Electric Water Faucets

ALL CAST BRONZE—WITH ADJUSTABLE SPOUT—6-12-32 AND 110 VOLTS

TURN THE HANDLE OR PRESS THE FOOT SWITCH AND THE WATER STARTS TO FLOW. NO HAND PUMPING OR PRIMING NECESSARY.

Connect one or several of the faucets to our new Figure 726 electric pump. (See bottom of page for suggested installation.) Water is then supplied to your sink or lavatory as easily as in your home. All connections are threaded for 1/2 inch pipe.

WITH HAND SWITCH

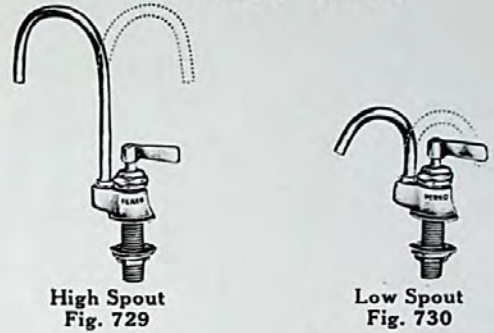


High Spout
Fig. 727

Low Spout
Fig. 728

Fig.	Polished Brass Each	Chromium Plated Each	Height Above Drain Board Inches	Length Below Drain Board Inches	Weight Pounds
727	\$24.00	\$27.00	8 1/4	5 1/2	2 1/2
728	23.50	26.50	3 3/8	5 1/2	2 1/4

FOR FOOT SWITCH



High Spout
Fig. 729

Low Spout
Fig. 730

Fig.	Polished Brass Each	Chromium Plated Each	Height Above Drain Board Inches	Length Tail Piece Inches	Weight Pounds
729	\$16.00	\$19.00	8 1/4	2 1/4	1 1/2
730	15.50	18.50	3 3/8	2 1/4	1 1/4

Foot Switch

CAST BRONZE—WATERTITE
FOR USE WITH FAUCETS, FIGS. 729 AND 730

For convenient location in galley or lavatory.

A spring type switch requiring very slight pressure. Can also be operated by knee or hand.

Size Box, inches, 3 1/2 x 2 1/2 x 1 1/2.



Fig. 731

Polished Bronze Each	Chromium Plated Each	Weight Pounds
\$8.00	\$9.50	1

Electric Pump

CAST BRONZE—WATERTITE
6-12-32 AND 110 VOLTS

For use with all faucets shown above.

Threaded for 1/2 inch pipe.

1/40 H.P. low amp. motor.

500 G.P.M. at 1 foot lift.

Additional data shown on page 56.

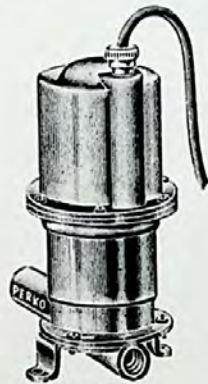
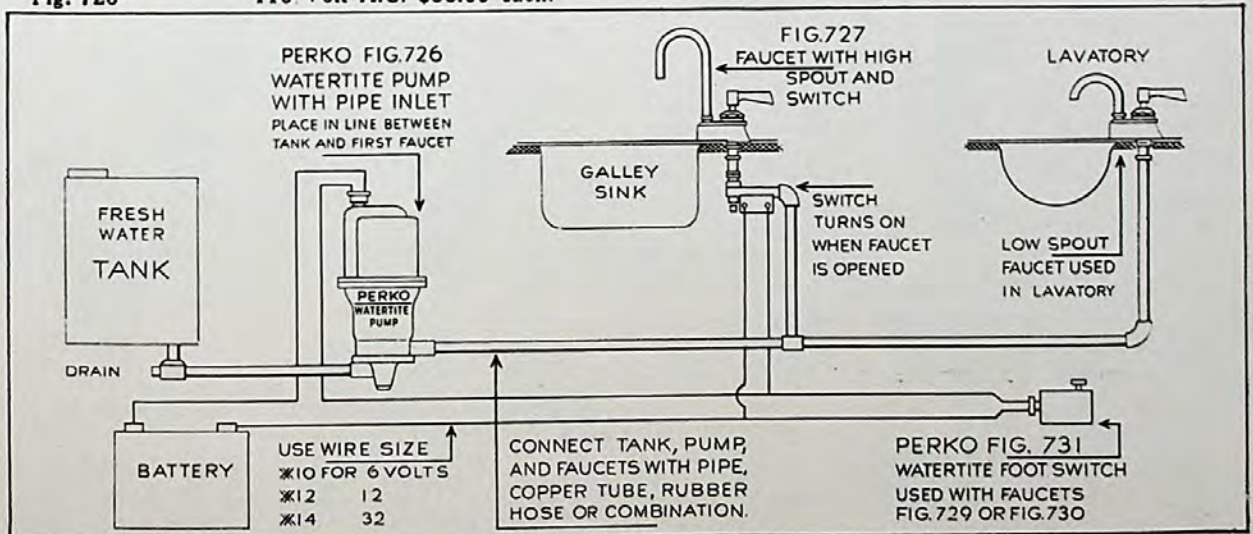


Fig. 726

6 Volts Each	12 Volts Each	32 Volts Each	110 D.C. Volts Each
\$28.00	\$30.00	\$33.00	\$36.00

110 Volt A.C. \$38.00 each.



Galley and Lavatory Pumps

POLISHED BRONZE OR CHROMIUM PLATED
IMPROVED INLET VALVE TO HOLD PRIME
BRASS BALL CHECK VALVE IN PLUNGER
WITH ADJUSTABLE MAHOGANY HANDLE
HIGH OR LOW SPOUT
STRAIGHT OR FLARED BASE



Fig. 473 Straight Base
Fig. 478 Flared Base

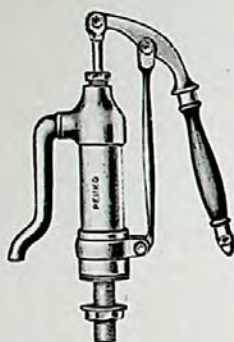


Fig. 474 Flared Base
Fig. 479 Straight Base

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	3 1/2

Fig.	Polished Bronze Each	Chromium Plated Each	Mahogany Handle Only Each
473-478	\$19.75	\$23.00	\$.75
474-479	23.00	26.50	.75

WITH ADJUSTABLE ALL METAL HANDLE
HIGH SPOUT—FLARED BASE

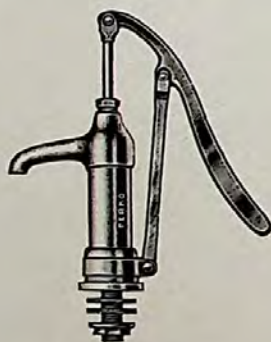


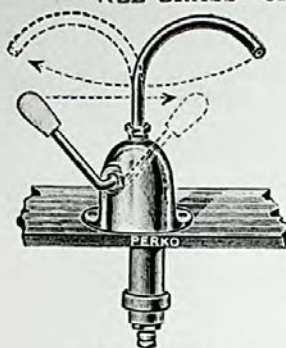
Fig. 467

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	Chromium Plated Each	Bronze Handle Only Each	Chromium Plated Handle Only Each
\$17.50	\$21.00	\$2.25	\$3.25

New "Ezy-Flo" Galley Pump

ALL BRASS—CHROMIUM PLATED



Finger tip control, easy operation, self priming.

Handle operates with short rocking strokes so effortless a child can work it.

Spout swivels to any direction desired.

Inlet fits 3/8" rubber hose or 3/8" metal tubing.

Capacity—20 strokes per quart.

Fig. 177

Each	Extreme Height Above Drain Board Inches	Dimensions Mounting Base Inches	Weight Pounds
\$14.75	8	4 x 1 3/8	2 1/4

Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED WHITE



Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit, 1 1/2 inch tail piece.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs.
2	\$8.00	10 1/2 x 16	12 3/4 x 18	4 3/4	4

"Sea Maid" Monel Sink

DEEP DRAWN, SEAMLESS CONSTRUCTION
19 GAUGE MONEL—NATURAL FINISH

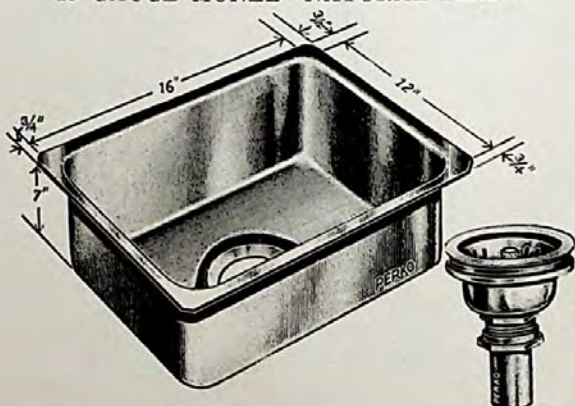


Fig. 356

Fig. 357

Corrosion resistant and immune to rust. No crevices for dirt or bacteria to collect. No painted or coated surface to crack or wear off. Fig. 357 Cup strainer is all stainless steel.

Sink Only Each	Strainer Only Each	Outside Diameter Strainer Inches	Outside Diameter Tail Piece Inches	Weight Sink Pounds	Weight Strainer Pounds
\$19.75	\$5.00	4 1/2	1 1/2	7 1/2	1 1/2

Corner Lavatory WHITE VITREOUS CHINA



Fig. 830

With integral back and round basin with overflow, fitted with chromium plated waste plug, chainstay, chain and stopper. Size of outlet $1\frac{1}{4}$ inches outside diameter. Inlet to pump $\frac{1}{2}$ inch inside diameter.

No.	Without Pump or Faucet Each	With Faucet Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$23.00	\$27.00	12x12	10	2½
2	29.75	33.75	14x14	11	2½

NOTE—Pumps for above, see Figs. 144, 467, 473, 474, 478, 479 and 1040.

Folding Lavatories

VITREOUS ENAMELED ENTIRELY
CHROMIUM PLATED PUMP AND FITTINGS

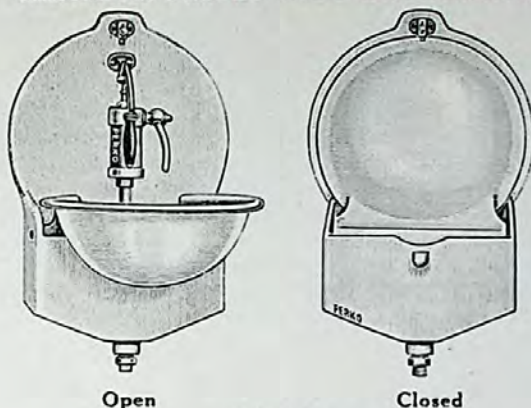


Fig. 732

Basin is held in closed position by a spring catch. Inlet and outlet fittings are threaded for $\frac{3}{8}$ inch pipe.

With Pump Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches	Depth Basin Inches	Weight Pounds
\$75.00	20	13¾	14	10	4½	42

Pump only for above, each \$25.00

Flat Back Lavatories WHITE VITREOUS CHINA

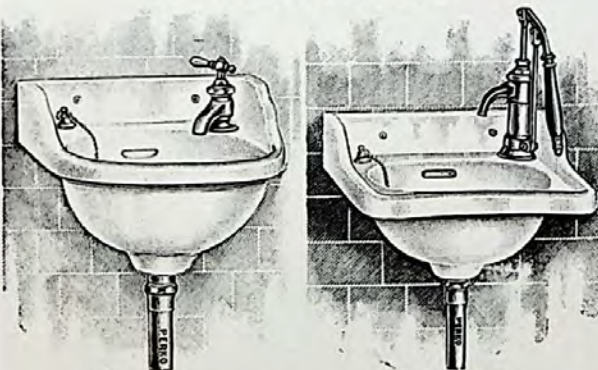


Fig. 831

Fig. 832

With integral back and round basin. Complete with chromium plated waste plug, chainstay, chain, and stopper. Size of outlet $1\frac{1}{4}$ inch outside diameter.

Fig.	Without Pump or Faucet Each	With Faucet Each	Size Inches	Diam. Basin Inches	Height Back Inches
831	\$20.00	\$24.00	12x12	10	2½
832	23.00	27.00	14x14	11	2½

NOTE—Pumps for above, see Figs. 144, 467, 473, 474, 478, 479 and 1040.

Faucets supplied are chromium plated compression type.

ALL ABOVE FURNISHED WITHOUT PUMP OR FAUCET UNLESS OTHERWISE SPECIFIED.

Improved Folding Lavatory

WITH DRAIN AND ALUMINUM SPLASH GUARD
WHITE PORCELAIN ENAMEL BOWL
POLISHED ALUMINUM CASTINGS

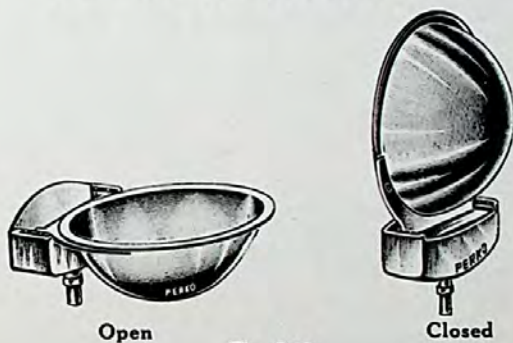


Fig. 342

For drainage, the lavatory bowl is tilted back, and the water runs down the drain.

Automatically locks in closed or open position.

A funnel which is an integral part of the splash guard directs the water through an orifice when emptying the bowl.

All castings have been improved and made more substantial.

Drain tapped for $\frac{1}{2}$ inch pipe. Bowl capacity 1 gallon.

Each	Diam. Bowl Inches	Width Mounting Plate Inches	Height Closed Inches	Extension Open Inches	Wt. Lbs.
\$14.00	12	8¾	15	13¾	4½



“PERKO” MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE

WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH
BIRCH SEATS AND COVERS—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 1½ inch I. P. S. with tail piece for lead pipe or hose connection.

INLET is ¾ inch I. P. S. with tail piece for lead pipe or hose connection.

SEAT AND COVER, closed front as illustrated.

DIMENSIONS OVERALL, side to side, 19 inches; front to back, 16 inches; height, 14½ inches, base 11 x 11 inches.

The Boatman

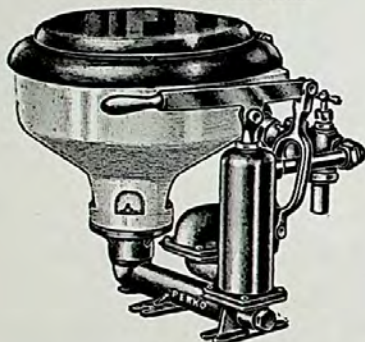


Fig. 828

With Horizontal Handle and Hand Valve

With White Seat and Cover, Closed Front

Each
\$65.00

The Cruiserman

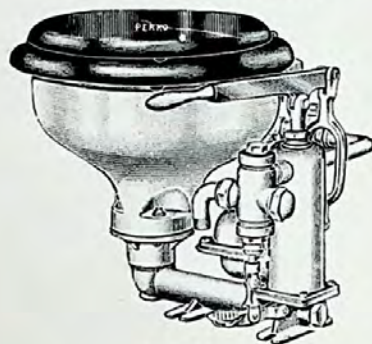


Fig. 1121

With Horizontal Handle and Foot Valve

With White Seat and Cover, Closed Front

Each
\$67.50

The Seaman

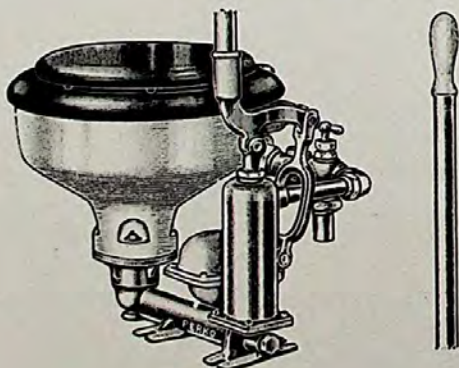


Fig. 1026

With Vertical Handle and Hand Valve

With White Seat and Cover, Closed Front

Each
\$67.50

The Yachtsman

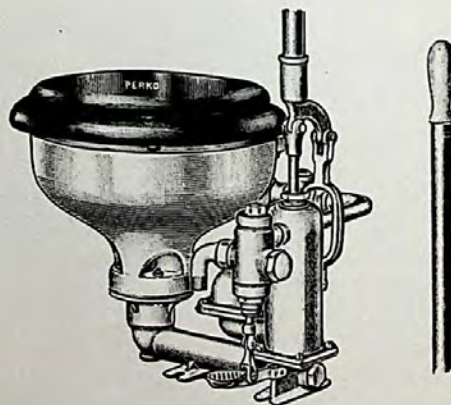


Fig. 829

With Vertical Handle and Foot Valve

With White Seat and Cover, Closed Front

Each
\$70.00

NOTE— All furnished with pump on right or left hand side. Right hand facing furnished unless otherwise specified.

The Guardsman

3 1/4 INCH PUMP—CAST BRONZE—WHITE FINISH
FELT PACKED PISTON
VERTICAL HANDLE AND FOOT VALVE

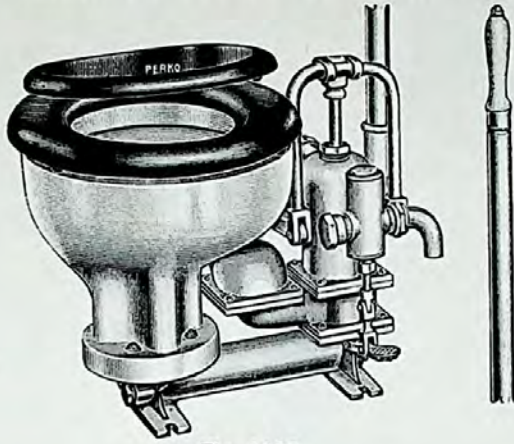


Fig. 1122

With White Seat and Cover, Closed Front Each \$105.00

REPAIR KITS for above consisting of all necessary gaskets, washers, packing, clack valves, etc. Ea. \$6.75.

DIMENSIONS OVERALL—Side to side, 20 1/4 inches; front to back, 16 1/2 inches; height, 17 inches; base, 16x7 inches.

CONNECTIONS—Outlet, 2 inches; inlet, 1 inch, I.P.S.

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

WHITE FINISH



Fig. 1127
Closed Front

These are made of birch wood, finished in several coats of white enamel.

White Each	Outside Diam. Inches	Outside Depth Inches	Centers of Bolts Inches
\$12.00	14	14	5 3/8

White Vitreous China Bowls WITH FLUSHING RIM

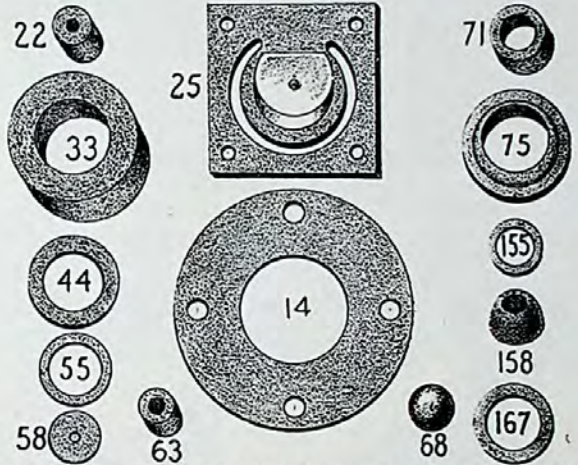


Fig. 1125

No. 1 for closet Figs. 828-829-1026-1121.
 No. 2 for closet Figs. 1122.

No.	Each	Height Overall Inches	Diam. Base Inches	Outside Diam. Top Inches	Centers of Bolt Holes Inches
1	\$16.50	8	4 1/4	12 1/2	3 3/8
2	24.00	12	7	12 1/2	4 1/2

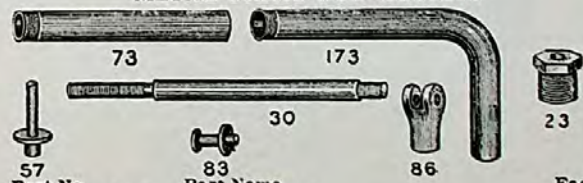
Repair Parts for "Perko" Closets



Repair kits for 828 and 1026 consisting of parts No. 14 to 75 inclusive Each \$5.00
 Repair kits for 829 and 1121 consisting of all parts No. 14 to 167 inclusive Each \$5.75

Part No.	Part Name	Each
14	Rubber Gasket for Bowl Flange	\$.85
22	Graphite Packing for Piston Rod	.50
25	Leather Clack Valve, Weighted	1.00
33	Felt Packing for Piston	1.00
44	Rubber Washer for Rising Main Coupling	.25
55	Rubber Washer for Hand Valve Coupling	.25
58	Rubber Disc for Hand Check Valve	.25
63	Graphite Packing for Hand Valve Stem	.25
68	Rubber Ball for Return Check Valve	.25
71	Graphite Packing for Flush Elbow	.25
75	Rubber Gasket for Bowl Spud	.50
155	Rubber Washer for Foot Valve Coupling	.20
158	Rubber Washer for Foot Valve Seat	.50
167	Rubber Washer for Foot Valve Cap	.25

METAL PARTS FOR CLOSETS



Part No.	Part Name	Each
23	Cylinder Packing Nut	\$.75
30	Pump Piston Rod	1.40
57	Intake Valve Stem	.75
73	Flush Pipe for Fig. 828 and 1026	1.10
83	Pin for Piston Rod Yoke	.50
86	Piston Rod Yoke	.80
173	Flush Pipe for Fig. 829 and 1121	1.20

Bronze Sea Cocks

WITH DRAIN PLUGS—ROUND WAY



Fig. 834



Fig. 835

Size Inches	Fig. 834 Each	Fig. 835 Each	With Fig. 86 Strainer Add Each	Size Strainer Inches	Without Hull Connection Deduct Each
3/4	\$11.50	\$11.20	\$.60	3 1/2	\$1.35
1	14.65	14.40	.60	3 1/2	1.70
1 1/4	19.35	19.00	.80	4	2.50
1 1/2	22.50	22.00	1.35	5	3.00
2	35.00	34.00	1.60	6	4.75
2 1/2	120.00	115.00	3.60	8	5.80

Tail Pieces

CAST BRONZE—FOR SEACOCKS

For lead pipe or hose connections, furnished complete with leather washer.



Fig. 67 Straight
Fig. 78, 90 Degree

I. P. S. Size Inches	Fig. 67 Each	Fig. 78 Each
3/4	\$.95	\$1.15
1	1.15	1.50
1 1/4	1.60	2.00
1 1/2	1.90	2.25
2	2.75	4.00
2 1/2	4.85	

Thru-Hull Connections

CAST BRONZE—WITH LOCKNUT WITH AND WITHOUT TAIL PIECE



Fig. 64



Fig. 322

Size Pipe Inches	Fig. 64 Each	Fig. 322 Each	Length Neck Inches	O.D. Tail Piece Inches	Diam. Flange Inches	Wt. Fig. 64 Lbs.	Wt. Fig. 322 Lbs.
1/4	\$1.85	\$1.20	1 3/4	3/8	1 1/4	1/3	3/8
3/8	1.90	1.25	2 3/8	1/2	1 3/8	1/2	1/2
1/2	2.10	1.35	2 3/8	1/2	1 5/8	3/4	1/3
3/4	2.65	1.70	2 3/8	3/4	2	1	1/2
1	3.45	2.30	2 7/8	1	2 1/4	1 1/4	3/4
1 1/4	4.75	3.20	3 1/2	1 1/4	2 7/8	1 3/4	1
1 1/2	5.85	3.90	3 3/4	1 1/2	3	2 1/4	1 1/4
2	8.60	5.90	4	2	3 1/2	3 1/2	2
2 1/2		9.10	4		4 1/2		2 3/4

Water Outlet CAST BRONZE



Fig. 332

No.	Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight 12 oz.	Weight 1 lb.
1	3/4	2 1/4	2 1/4		
2	1	3	3 1/4		
No.	Polished Bronze Each			Chromium Plated Each	
1	\$3.15			\$4.00	
2	4.00			5.00	

Speedboat Strainers CAST BRONZE—ONE PIECE



Fig. 65

Designed to prevent clogging. Will admit full supply of water at all speeds.

Pipe Size Inches	Each	Length Pipe Inches	Size Strainer Inches	Weight Pounds
1/2	\$2.35	2 1/4	2 1/2 x 3 1/2	5/8
3/4	2.75	2 1/4	3 x 4	3/8
1	3.35	3	3 1/8 x 4 1/4	1 1/8
1 1/4	4.50	3 3/8	3 3/8 x 4 1/2	1 3/4
1 1/2	5.50	3 5/8	3 1/2 x 5	2

Scoop Strainers CAST BRONZE

CAST BRONZE



Fig. 66

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. No. 4 up to 2 inches.

No.	Each	Outside Dimensions Inches	Weight Each
1	\$.40	3 1/2 x 2 1/2	4 oz.
2	.65	5 x 3 1/4	7 oz.
3	1.20	6 1/4 x 4 1/4	1 lb.
4	2.60	8 1/4 x 5 1/4	2 lbs.

Round Strainers PLAIN CAST BRONZE



Fig. 86

Size Pipe Inches	Fig. 64 Each	Fig. 322 Each	Length Neck Inches	O.D. Tail Piece Inches	Diam. Flange Inches	Wt. Fig. 64 Lbs.	Wt. Fig. 322 Lbs.	Outside Diam. Inches	Each	Inside Diam. Inches	Weight Each
1/4	\$1.85	\$1.20	1 3/4	3/8	1 1/4	1/3	3/8	2 1/2	\$.35	1 3/4	2 oz.
3/8	1.90	1.25	2 3/8	1/2	1 3/8	1/2	1/2	3	.40	2	4 oz.
1/2	2.10	1.35	2 3/8	1/2	1 5/8	3/4	1/3	3 1/2	.60	2 3/8	5 oz.
3/4	2.65	1.70	2 3/8	3/4	2	1	1/2	4	.80	3	6 oz.
1	3.45	2.30	2 7/8	1	2 1/4	1 1/4	3/4	5	1.35	3 3/4	12 oz.
1 1/4	4.75	3.20	3 1/2	1 1/4	2 7/8	1 3/4	1	6	1.60	4 1/2	1 lb.
1 1/2	5.85	3.90	3 3/4	1 1/2	3	2 1/4	1 1/4	8	3.60	6	2 lbs.
2	8.60	5.90	4	2	3 1/2	3 1/2	2	10	5.80	8 1/4	3 lbs.
2 1/2		9.10	4		4 1/2		2 3/4				

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 for numbers 0-1 and 5 bilge pumps. / Page 57
 No. 2 for numbers 2, 4, 6 and 8 bilge pumps. }

		Outside Diam. Inches	Each
	Flange Washer {No. 1 Fig. 203	1 1/4 1 1/4	\$.35 .40
	Cup Washer {No. 1 Fig. 204	1 1 1/8	\$.35 .40
	Split Washer {No. 1 Fig. 205	1 1/8 1 1/8	\$.10 .15
	Hollow Ball {No. 1 Fig. 206	1/2 3/8	\$.50 .65
	Valve Fitting For Plunger {No. 1 Fig. 456		\$.90 1.00
	Packing Nut {No. 1 Fig. 457		\$1.00 1.25

Bottom Valves

FOR BRASS BILGE PUMPS—CAST BRONZE



Fig. 549

For Fig. 200
Single Hose Pump

Furnished complete with hollow brass ball and strainer.

For Pump Size No.	Each
0	\$1.85
1	2.00
2	2.80
4	2.80



Fig. 550

For Fig. 202
Double Hose Pump

For Pump Size No.	Each
5	\$2.80
6	3.50
8	3.50

Fig. 549 for pump size No. 0 fits special bilge pump, Fig. 723.

Rubber Hose and Strainer

FOR FIGS. 200, 202 and 723 BRASS BILGE PUMPS

Heavy moulded rubber hose, durable and lasting. 3/4 inch inside diameter.

Standard 5 ft. lengths **\$1.30**
 Cast Bronze Strainer **.65**

Other lengths of hose can be furnished. Price on application.



Fig. 208 Fig. 209

Pump Valves



Fig. 237

Galvanized iron with oak leather clapper, galvanized iron weights on both sides of leather riveted together and screwed to casting.

Diameter, in.	1 1/2	2	2 1/2	3	4
Wgt., per dz. lbs.	3	4	6	7	11
Per doz.	\$4.85	\$4.85	\$6.00	\$6.50	\$8.50

Leather Plungers

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Per Dozen	Weight Per Dozen Lbs.
2	\$4.00	3/4
2 1/2	4.50	1 1/4
3	5.00	1 1/2
3 1/2	6.00	1 3/4
4	8.00	1 3/4

Bronze Navy Pump Strainers

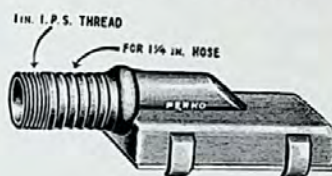


Fig. 704



Fig. 705



Fig. 721



Fig. 722

Fig.	Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$2.40	1	1 1/4	7	2 3/4	2
705	2.40	1	1 1/4	4 3/4	2 3/4	1 1/2
721	2.40	1 1/4		5	2 3/4	1 1/2
722	2.40	1 1/4		4 3/4	2 3/4	1 3/8

Utility Check Valve

ALL BRONZE
 WITH BRASS BALL CHECK AND STRAINER



Fig. 265

Ideal for holding prime in the inlet line of galley and lavatory pumps, bilge pumps, etc. Threaded both ends.

Each	Pipe Size Inches	Length Inches	Weight Ounces
\$1.20	1/2	1 7/8	3 1/2

NEW "PERKO" ALCOHOL STOVE

2 BURNER — PRESSURE TYPE — WITH REMOVABLE TRAY
 MONEL METAL BODY AND TRAY — NATURAL FINISH

CAST BRONZE BURNERS — BRASS, CHROMIUM PLATED GUARD RAIL

CONSTRUCTION — of heavy gauge monel metal. Satin finish.

BURNERS — Cast bronze with slotted manifold producing intense heat.

TRAY — An integral part of front apron, readily removable for cleaning but will not rattle. It insulates the fuel tank from heat. Sheet asbestos is affixed to its bottom.

GUARD RAIL — Brass, chromium plated. Front section is removable to accommodate large pots and pans.

AIR PRESSURE GAUGE — Accurate and easy to read; it shows best working pressure.

FILLER CAP AND AIR ESCAPE VALVE — Inside of front apron, but readily accessible.

FUEL TANK — 1½ gallon capacity, rectangular shape and hidden by front apron, fully insulated from heat by burners.

FUEL CONSUMPTION — Using a good grade of "Burning Alcohol", both burners will operate continuously 14 hours on one gallon of fuel and one pound of air pressure.

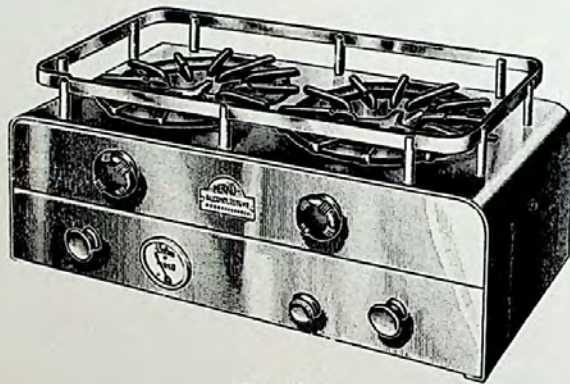


Fig. 364

Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$60.00	20½	12	8½	27

Funnel

HEAVY GAUGE ZINC-BRASS STRAINER



Fig. 365

Designed primarily for filling our stoves, this funnel is a handy one for various purposes on a boat, at home or in a garage.

Each	Capacity Ounces	Diam. Mouth Inches	Diam. Spout Inches	Weight Ounces
\$1.00	3	3	¾	2

Pot Holders

ALL BRASS—CHROMIUM PLATED

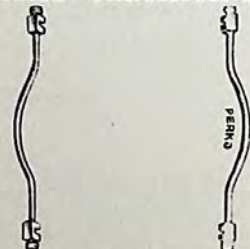


Fig. 369

Made for attachment to our alcohol stove (fig. 364). Adjustable on the stove for various sizes of pots, pans, etc.

Per Pair	Length Overall Inches	Weight Per Pair Ounces
\$2.50	10½	8

"Perko" Alcohol Burner

CAST BRONZE



Fig. 367

Burner with Needle Valve, Control Handle, no Fittings or Filter.....	Each	\$7.00
Wire Brush Filters Only.....		1.50
Pre-Heating Pan Only.....		1.00
Packing Nut for Valve Stem.....		.25

Alcohol Stove Parts

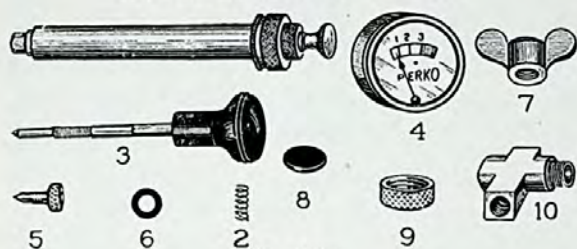


Fig. 368

No.	Each	
1 Fuel Tank Pump Complete.....	\$2.00	
2 Pump Check Valve Spring.....	.30	
3 Needle Valve with Control Handle.....	1.50	
4 Pressure Gauge.....	2.00	
5 Screw for Air Escape Valve.....	.25	
6 Lead Gasket for Wing Nut No. 7.....	.20	
7 Wing Nut for Filter Entrance.....	.50	
8 Lead Gasket for Filler Cap No. 9.....	.20	
9 Filler Cap for Fuel Tank.....	.30	
10 Fitting for Pressure Stove Fuel Line.....	.80	

Hot Air Cabin Heater

CAST IRON PLATE — CAST ALUMINUM BODY
6-12-32 AND 110 VOLTS

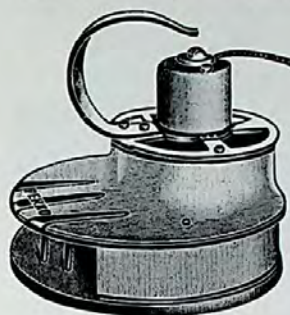


Fig. 595

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.

This 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.

Volts	Each	Amperes	Diam. Inches	Height Inches	Weight Pounds
6	\$23.00	1.5	8 1/2	7	9 1/2
12	27.00	.75	8 1/2	7 1/4	9 3/4
32	30.00	.28	8 1/2	7 3/4	10 1/4
110 D.C.	34.00	.08	8 1/2	8	11

The 110 volt heater furnished for D.C. current only.
Specify Voltage When Ordering.

Water Deck Irons

GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Each	Outside Diam. of Neck Inches	Diam. Flange Inches	Weight Pounds
2 1/2	\$3.25	2 3/4	6 1/2	1 3/4
3	3.50	3 3/8	7 1/2	4
3 1/2	4.35	3 3/8	8 1/2	5
4	4.75	4 3/8	9 1/4	6 1/4
4 1/2	4.95	4 7/8	10	8
5	5.50	5 3/8	10 1/2	9
5 1/2	6.00	5 7/8	11	9 3/4
6	6.85	6 1/2	11 1/4	11 1/4
7	8.75	7 3/8	12 3/4	13 1/4
8	12.50	8 3/8	13 3/8	19

Liverpool Smoke Heads

SHEET STEEL OR BRASS—RIVETED



Fig. 347

Size Inches	Galv. Each	Brass Each	Overall Dimensions Inches	Weight Pounds
3	\$ 9.30	\$14.50	11 1/2 x 4	2
3 1/2	9.60	15.00	12 x 4 1/2	2 1/2
4	10.00	16.00	13 x 5 1/2	2 3/4
4 1/2	10.75	17.00	14 x 6	3 1/4
5	11.90	18.70	15 x 7	4 1/2
5 1/2	13.20	21.00	16 x 7 1/2	4 3/4
6	14.90	23.00	17 x 8	5 1/2

Larger sizes made to order, price on application.

If required for mounting on water deck iron, specify 1/2 inch larger size.

Round Portlights

CAST BRONZE

NEW STYLE—IMPROVED

GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

Size Inch	Diam. Glass in Clear Inches	Outside Diam. Frame Inches	Thickness of Glass Inches
7.15	4	7 ³ / ₈	1/4
8.50	5	8 ³ / ₄	1/4
10.50	6	9 ³ / ₄	1/4
14.50	7	11	3/8
16.50	8	12 ¹ / ₄	3/8
27.00	9	14 ³ / ₈	1/2
10 32.00	10	14 ⁷ / ₈	1/2
12 39.50	12	17 ¹ / ₈	1/2

Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Diameter Clear Glass Inches	Plain Bronze Each	Polished Bronze Each	Thickness Glass Inches	Outside Diam. Frame Inches	Weight Pound
3 ³ / ₈	\$5.25	\$6.75	1/4	5 ¹ / ₄	1 ³ / ₄
4	5.50	7.50	1/4	6 ¹ / ₄	2
5	6.25	8.60	3/8	7 ¹ / ₂	3 ³ / ₈
6	7.00	9.35	3/8	8	3 ⁷ / ₈
8	12.85	16.00	1/2	11	9 ⁵ / ₈

All sizes are recessed for screens.

9 and 10 inch have Two Fastenings.

12 inch have Three Fastenings.

MORE-AIR PORTLIGHTS

INSIDE PATTERN—FOR WOOD HULLS

CAST BRONZE—PLAIN

COMPLETE WITH OUTSIDE FINISHING RING

GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE RECESSED FOR SCREENS

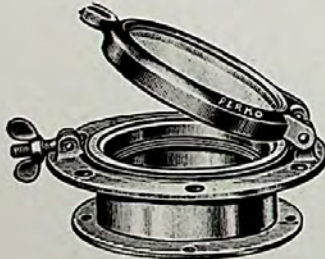


Fig. 157

Showing
Screen
in Place



Opening Inches	For Thickness of Wood			
	1 ¹ / ₂ Inch Plain Bronze Each	3 Inch Plain Bronze Each	4 ¹ / ₂ Inch Plain Bronze Each	6 Inch Plain Bronze Each
4	\$ 9.40	\$10.65	\$11.85	\$13.10
5	11.00	12.25	13.45	14.70
6	13.10	14.30	15.90	17.75
7	18.80	20.80	22.90	24.90
8	21.25	23.50	26.20	29.50
9	28.65	31.00	34.80	38.50
10	38.50	42.00	47.50	53.00
12	47.50	53.00	59.75	67.50

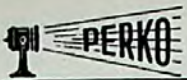
For 1 inch wood, use 1¹/₂ inch price. For 2 or 2¹/₂ inch wood use 3 inch price, etc.

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	\$.60	\$.70	\$.85	\$1.10	\$1.35	\$2.15	\$2.70	\$3.35

Note — Screens for all portlights above see Fig. 434.



Marine Windows

WITH SPIGOT

PLAIN BRONZE OR ALUMINUM
WATERTIGHT—TWO FASTENINGS

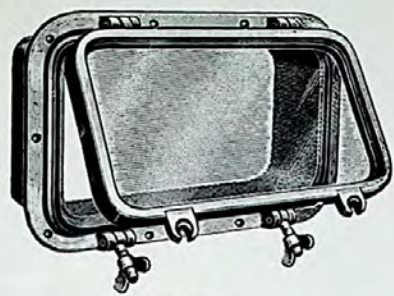


Fig. 796

Furnished complete with removable screen and outside finishing frame.

Designed to supply the maximum amount of air and light possible while keeping bulk and weight to a minimum.

The aluminum is of a salt water resistant alloy. Light weight is very often a desirable or necessary feature.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Without Finishing Frame Deduct Each	Size Glass in Clear Inches
1	5x12	\$21.50	\$19.00	\$1.65	5x12
2	7x16	26.00	23.00	2.25	7x16

No.	Dimensions Outside of Frame Inches	Length Spigot Inches	Thickness Glass Inches	Bronze Weight Pounds	Aluminum Weight Pounds
1	7 3/4 x 14 3/4	2	1/4	16	7
2	10 x 19 1/4	2	1/4	22	10

Marine Windows

WITHOUT SPIGOT

PLAIN BRONZE OR ALUMINUM
WATERTIGHT—TWO FASTENINGS

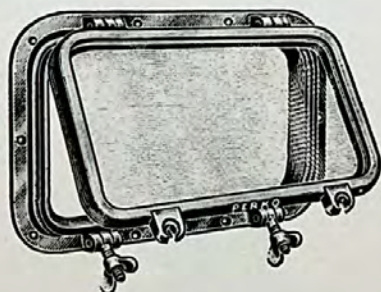


Fig. 803

Furnished complete with removable screen. Without finishing frame.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Bronze Weight Pounds	Aluminum Weight Pounds
3	5x12	\$19.00	\$17.50	11 1/2	5
4	7x16	23.00	21.00	16	7

All other dimensions are the same as Fig. 796 above.

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	\$3.60	\$5.75	\$5.75	\$8.00
4	4.40	6.00	6.60	8.80
5	5.00	6.85	7.20	9.40
6	5.80	7.60	8.00	10.20
7	6.60	8.25	8.80	11.00
8	7.20	9.00	9.40	11.50

Larger sizes made to order—Price on Application.
Screens are soldered into scoops.

Shallow Portlight Screens

SPUN BRASS FRAME—COPPER MESH
FOR RECESSED PORTLIGHTS, FIG. 157, 317



Fig. 434

Size Portlight Inches	Each	Size Portlight Inches	Each
4	\$2.20	8	\$3.60
5	2.50	9	3.85
6	2.75	10	4.75
7	3.30	12	5.50

Exact size of screen. Add 1/8 inch to above sizes.
Larger sizes made to order—Price on Application.

Wing Nuts

BRASS—U. S. S. THREAD



Fig. 453

For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each	For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each
1/4	20	\$.15	1/2	13	\$.35
3/8	18	.18	5/8	11	.45
1/2	16	.18	3/4	10	.75
5/8	14	.30			

Rubber for Portlights



Fig. 461

Size	Per Foot
1/4 inch square	\$.15
3/8 inch square	.17
1/2 inch square	.20

Supplied only in 12 1/2 foot lengths

Cowl Ventilators

GALVANIZED STEEL OR BRASS
WITH BRONZE SCREW DECK PLATE



Fig. 510

Size Deck Plate Inches	Galv. Steel Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
2	\$13.50	\$18.50	4	5
2½	14.50	19.75	5	6
3	15.75	21.00	6	7
3½	17.75	22.00	7	10
4	19.25	24.00	8	11
4½	27.50	32.00	9	12
5	32.00	37.00	10	14
6	43.00	48.00	12	15
8	80.00	95.00	16	21

Cowl Ventilator

GALVANIZED STEEL OR BRASS
WITH BRONZE SWIVEL DECK PLATE



Fig. 513

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
3	\$17.00	\$22.50	6	7½
4	21.75	27.00	8	10
5	32.00	38.00	10	12½
6	43.00	49.00	12	15
8	65.00	80.00	16	20

Ship and Yacht Cowl Ventilators

SEAMLESS STEEL—HEAVY GAUGE
HOT DIPPED GALVANIZED
SWIVEL TYPE DECK FLANGE



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.

Diam. Bottom Opening Inches	Cowl Only With Band Each	Cowl With Galvanized Deck Flange Each	Diam. Mouth Inches	Height Overall Inches
10	\$ 90.00	\$105.00	20	26
12	115.00	130.00	24	30
14	150.00	175.00	28	36
16	170.00	200.00	32	42
18	190.00	225.00	36	48
20	210.00	250.00	40	52
24	250.00	295.00	48	60

Cast Bronze Cowl Ventilators

WITH SCREW DECK PLATE—ROUND MOUTH



Fig. 421

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Weight Pound
3	\$21.50	\$27.50	6	7¾	4½
4	27.00	35.50	8	9¾	8½

ALL ABOVE SIZES ARE STANDARD; SPECIAL SIZES AND EXTRA HEIGHT MADE TO ORDER. COVERS FOR SWIVEL DECK PLATES CAN BE SUPPLIED, PRICE ON APPLICATION.

Oval Mouth Ventilators

CAST BRONZE

SCREW TYPE

SWIVEL TYPE



Fig. 509



Fig. 515

Swivel type Fig. 515 is supplied with cover for use when ventilator is removed.

Deck Plate Size Inches	Fig. 509		Fig. 515		Weight Pounds
	Pol. Bronze Each	Chrom. Plated Each	Pol. Bronze Each	Chrom. Plated Each	
3	\$22.50	\$29.00	\$26.50	\$33.00	6
4	30.00	38.00	34.00	42.00	8

Space Saver Ventilator

CAST BRONZE

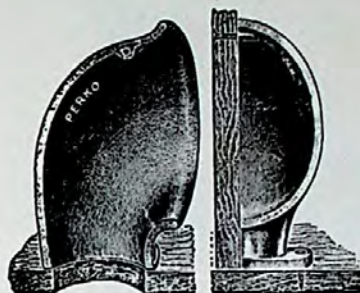


Fig. 782

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 Inches	Inside Measurements at Mouth Inches	Extreme Height Inches	Weight Per Pair Pounds	Price Per Pair	
					Plain Bronze	Polished Bronze
1	2 1/2	2 3/8 x 5	6 3/4	3 3/4	\$ 9.00	\$12.50
2	3 1/2	3 1/8 x 7 1/2	9	6	13.00	16.50

Midget Ventilator

CAST BRONZE—OVAL MOUTH
BRONZE SWIVEL DECK PLATE AND COVER



Fig. 634

No.	Polished Bronze Each	Chromium Plated Each	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches
1	\$12.75	\$16.75	2	6 1/8	2 1/4 x 4 1/2
2	13.00	17.00	2	8	2 1/4 x 4 1/2

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.

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Overall Inches	Weight Pounds
\$15.00	\$17.00	7x7	3 1/2	4 3/4

Transom Ventilators

CAST BRONZE



Fig. 1069

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.25	\$2.00	\$3.00	6 3/4 x 2 1/4	3/4	3/4

With bronze screen soldered in, add \$.65 each.

Clam Shell Ventilators

CAST BRONZE



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Oz.
4	2 1/4	1 1/4	3 3/8 x 8 3/4	11
5	3 1/4	2	4 x 8 3/4	14
No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight
4	\$1.35	\$2.00	\$2.75	
5	1.55	2.35	3.00	

Ice Box Ventilators

CAST BRONZE—POLISHED



Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$4.75	\$6.85	1 3/8	2 1/2 x 2 1/2
2	5.00	7.15	2 1/2	3 1/4 x 3 1/4
3	6.25	8.50	3	4 1/8 x 4 1/8
4	7.75	10.25	3 3/8	4 7/8 x 4 7/8

Streamline Ventilator

CAST BRONZE



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Ounces
2	1 3/4	1	2 5/8 x 3 3/8	6
3	2 1/8	1 1/8	3 3/8 x 4 3/4	12
No.	Polished Bronze Each	Chromium Plated Each	Weight	
2	\$2.00	\$2.75		
3	2.25	3.00		

Ventilator Deck Plates

CAST BRONZE—POLISHED—SCREW TYPE



Fig. 527

Complete with key and extra ring for cowl.

Diameter Opening Inches	Polished Each	Chromium Plated Each	Diameter Plate Inches	Weight Each
2	\$ 5.50	\$ 7.70	3 3/8	12 oz.
2 1/2	6.00	8.25	4 1/2	1 lb.
3	7.20	9.35	4 7/8	1 1/4 lbs.
3 1/2	8.80	11.00	5 1/2	1 3/4 lbs.
4	10.50	12.00	5 3/4	2 1/4 lbs.
4 1/2	12.00	14.30	6 3/8	3 1/4 lbs.
5	15.50	18.20	7 1/8	3 3/4 lbs.
6	19.25	22.50	8 1/4	4 1/2 lbs.
8	43.00	51.00	10 1/4	7 1/2 lbs.

Streamline Ventilator

CAST BRONZE



Fig. 476

No.	Polished Bronze Each	Chromium Plated Each	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Pounds
6	\$4.70	\$5.75	3 1/2	2 3/4	5x6	1
7	5.80	7.20	4 3/8	3 1/4	6x7	2
8	8.25	10.00	5 3/4	3 1/2	7x8	2 3/4

New Streamline Ventilator

CAST BRONZE



Fig. 310

A ventilator with graceful lines that will enhance the appearance of any boat.

Polished Bronze Each	Chromium Plated Each	Size Opening Inches	Size Base Inches	Weight Pounds
\$4.40	\$6.00	3x1	7 1/2 x 4	1 1/2

Swivel Deck Plates

CAST BRONZE—FOR COWL VENTILATORS

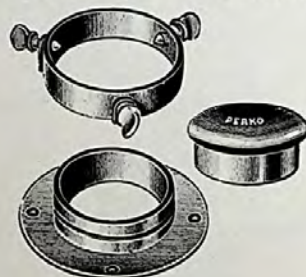


Fig. 419

Permits cowl to be turned to any direction.

For Size Ventilator Inches	Opening in Base Inches	Each	For Size Ventilator Inches	Opening in Base Inches	Each
3	2 1/4	\$ 8.50	8	7	\$25.30
4	3 1/2	12.90	9	8 1/4	29.50
5	4 1/2	16.00	10	9 1/2	42.00
6	5	19.00	12	11 1/4	51.00
7	6	21.00			

Price does not include cap, if cap is desired add 25% to above prices.

Regular Deck Plates

CAST BRONZE—WITH KEY



Fig. 526

Diam. Opening Inches	Machine Finish Complete Each	Polished Bronze Complete Each	Polished Chromium Plated Complete Each	Keys Only Each	Outside Diam. Plate Inches
1	\$ 1.70	\$ 1.95	\$ 3.15	\$.30	2 1/2
1 1/2	2.15	2.40	3.75	.30	3 3/8
2	3.25	3.60	4.80	.40	3 3/8
2 1/2	3.75	4.20	5.50	.45	4 1/2
3	4.25	4.80	6.00	.45	4 7/8
3 1/2	5.50	6.00	7.50	.55	5 1/2
4	6.50	7.40	9.00	.65	5 3/4
4 1/2	8.25	9.20	11.00	.70	6 3/8
5	9.75	11.00	13.25	.80	7 1/8
6	11.50	13.00	15.75	1.40	8 1/4
8	30.00	34.00	40.00	2.00	10 1/4

Covers only, price is 50% of complete plate.

Pipe Deck Plates

CAST BRONZE—WITH KEY—I. P. S. THREAD



Fig. 528

Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes 1 inch to 2 1/2 inch inclusive.

Pipe Size Inches	Machine Finish Complete Each	Polished Bronze Complete Each	Polished Chromium Plated Complete Each	Keys Only Each	Outside Diam. Plate Inches
3/4	\$ 2.00	\$ 2.25	\$ 3.50	\$.30	2 3/8
1	2.30	2.50	4.00	.30	2 7/8
1 1/4	2.80	3.20	4.70	.40	3 1/8
1 1/2	3.10	3.60	5.20	.40	3 3/4
2	4.00	4.60	6.30	.45	4 1/4
2 1/2	4.80	5.45	7.30	.45	4 3/8
3	6.50	7.40	9.20	.55	5 3/8

Covers only, price is 50% of complete plate.

Deck Plate Key

CAST BRONZE
ADJUSTABLE TO ALL SIZES OF DECK PLATES
IMPROVED UNBREAKABLE PINS

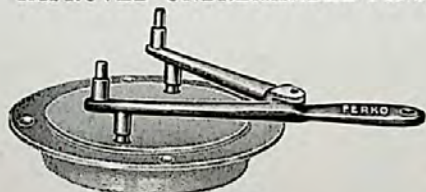


Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate.

Each	Length Overall Inches	Weight Pounds
\$1.80	8 1/2	1

Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTINGS
BALL TYPE—STREAMLINE

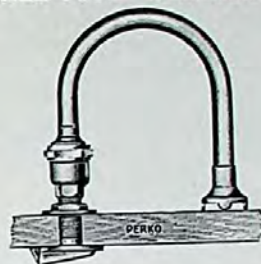


Fig. 397

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	\$11.50	8	3/4	up to 1 1/2	2
2	15.50	15 1/2	1 1/8	up to 2 1/4	4

Diameter rubber ball, Size No. 1 is 1 1/4". Size No. 2 is 1 1/2".

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	\$1.25	1/2	2	3/8	3
124	2.50	1	3 1/8	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 1 1/4 inches, No. 14 thread.

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches	Diam. Ball Inches
\$4.40	\$1.35	\$3.00	1 1/4	3 3/8	1 1/2

Marine Exhaust Blowers

ELECTRIC 6—12—32—OR 110 VOLTS
ENCLOSED MOTOR—CAST ALUMINUM HOUSING

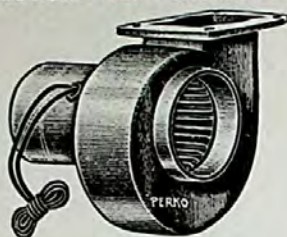


Fig. 778

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.

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	2½	7½x6x6	90		3½x3½	
2	4	4	8½x8x8	186		4½x4½	

Volts	No. 1 Each		No. 2 Each		Amperes		Horsepower	
	No. 1	No. 2	No. 1	No. 2	No. 1	No. 2	No. 1	No. 2
6	\$17.00	\$30.00	5.5	7.0	1/75	1/40		
12	18.00	31.00	2.7	4.0	1/75	1/40		
32	20.00	33.00	1.0	1.3	1/75	1/40		
110 D.C.	23.50	35.00	.30	.32	1/40	1/60		
110 A.C.		37.00		.32		1/60		

A caution plate is furnished with every Blower.

Exhaust Blowers and Ventilators

WITH ROUND OR OVAL MOUTH VENTILATOR AND NO. 1 BLOWER, 3 INCH INTAKE

Round Mouth

Oval Mouth

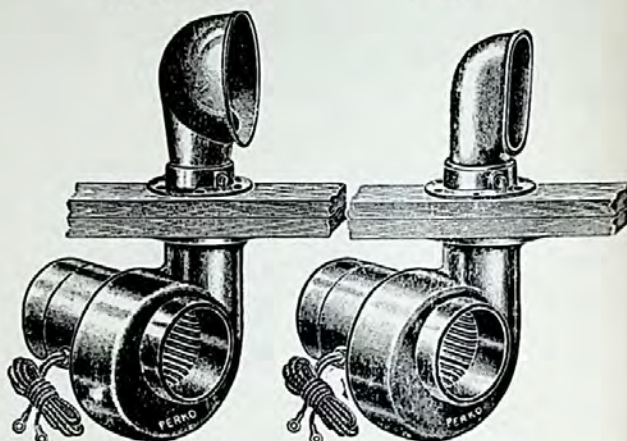


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 2½ inch bottom opening, 5 inch mouth, 7 inches high overall.

Fig. 781 has a cast bronze ventilator 2 inch bottom opening, 2¼x4½ inch mouth, 6½ inches high overall.

6 Volt		
Fig. 780 Brass Complete Each	Fig. 780 Copper Complete Each	Fig. 781 Bronze Complete Each
\$38.50	\$42.60	\$34.00

For 12 volt Blower, add \$1.10 each.

For 32 volt Blower, add \$3.30 each.

For 110 volt D.C. Blower, add \$7.15 each.

Improved

Blower and Ignition Switches

CAST BRONZE — FLUSH TYPE



Water-tite
Enclosed Switch
Fig. 149



Non-Water-tite
Switch
Fig. 155

With these improved switches the engine cannot be started before the blower has been turned on, then before the engine can be stopped the blower must again be started thus clearing out any remaining fumes before and after engine operation.

Fig.	Polished Bronze Each	Chromium Plated Face Plate Each	Diam. Inches	Diam. Box Inches	Depth Inches	Weight Pounds
149	\$8.75	\$10.00	4¼	3¼	1¾	1¾
155	7.75	9.00	4¼	...	1¾	¾

Turbine Ventilators

FOR MARINE USE
IMPROVED BEARING RUNNING IN OIL
GALVANIZED STEEL OR 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.

Inside Diam. Inches	Galv. Steel Each	Copper Each	Height Overall Inches	Diam. Overall Inches	Capacity C.F.M.
4	\$13.00	\$19.00	8	10	125
5	13.25	19.25	9	10½	135
6	13.25	19.25	11	11½	175
7	13.25	21.00	12	11½	225
8	15.00	21.50	14	14	280
10	19.00	27.50	16	15½	445
12	24.00	36.00	18	17½	650

Galvanized vents are painted green.

Runabout Steerers

DASHBOARD TYPE—FOR TILLER ROPE
15 INCH WHEEL—BLACK 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

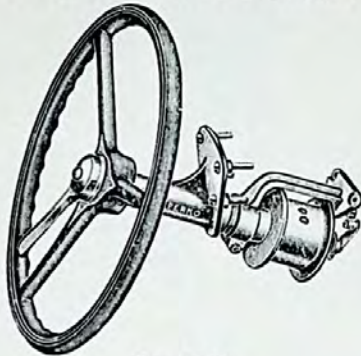


Fig. 1131

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Diam. Drum Inches	Weight Pounds
\$17.50	\$21.50	6 1/2	13	3	8

WITH 40 DEGREE BRACKET



Fig. 1149

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Diam. Drum Inches	Weight Pounds
\$18.50	\$22.50	10 1/2	17	3	9 1/4

Handles and Bolts FOR STEERING WHEELS



Fig. 553

Handles Only Length Inches	Each
3	\$.25
3 1/2	.35
4	.60



Fig. 554

Galvanized Bolts Only Size Inches	Each
3/8 x 3 1/2	\$.25
1/2 x 4 1/4	.35

Bronze Bolts Only Size Inches	Each
3/8 x 3 1/4	\$.35
1/2 x 4	.45
1/2 x 4 1/2	.70

Racing Outboard Steerers

WITHOUT CONTROLS



Fig. 737

All metal parts are aluminum alloy castings for light weight. Wheel is 3 spoke hard rubber in black finish with steel core.

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$13.50	15	6 1/4	5 1/8	3	6 1/2

Racing Outboard Steerers

WITH REMOTE THROTTLE CONTROL AND CUTOUT

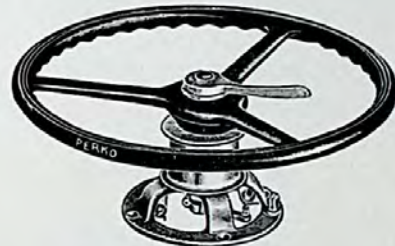


Fig. 447

Cast aluminum alloy with black finish hard rubber steel cored wheel, complete with 10 feet control wire and casing.

Each	Diam. Wheel Inches	Diam. Base Inches	Overall Height Inches	Diam. Drum Inches	Weight Pounds
\$19.80	15	7 1/8	6	3	7 1/2

Drum Steerers

GALVANIZED MALL. IRON OR CAST BRONZE FOR TILLER ROPE



Fig. 661

Overall Diam. Inches	Galv. Each	Polished Bronze Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 7.50	\$10.00	3 3/8 x 3 3/8	2 3/8	3
16	10.25	15.50	4 x 4	2 3/8	3 3/8
20	17.75	26.50	5 1/8 x 5 1/8	3 3/8	4 3/8
25	30.00		5 3/4 x 5 3/4	4	6



Worm Geared Steerer

ALL BRONZE—WITHOUT WHEEL OR FITTINGS
MODEL A-1—FOR WHEEL BOX MOUNTING
FOR 1 INCH DIAMETER VERTICAL SHAFT

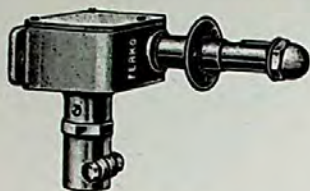


Fig. 512

Steering ratio, 10½ to 1. 1¼ turns equals 45 degree rudder angle.

For rudder of 4 square foot area.

Each	Diam. Wheel Shaft Inches	*Length Wheel Shaft Inches	Length For Hub Inches	Size Box Overall Inches	Weight Pounds
\$43.50	1	3¾	2½	7¼x2½	15½

Model E—With reversed shaft for thru-bulkhead mounting to order, use above price.

Larger sizes with larger shaft for rudder up to 10 square feet to order, price on application.

*Length between box and wheel.

WITH WHEEL AND FITTINGS
ALL BRONZE—WITHOUT VERTICAL SHAFT

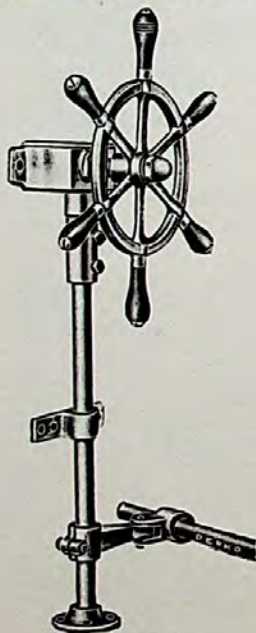


Fig. 820

	Each
Complete with 16 inch bronze wheel.....	\$80.00
Complete with 20 inch bronze wheel.....	85.00
Complete with 24 inch bronze wheel.....	96.00

SPARE PARTS

Bronze wheels only, see Fig. 976, Sizes 4, 5 and 6.	
Lower lever with clevis, Fig. 865, Nos. 1 and 5....	\$9.90
Bulkhead Bracket, Fig. 865, No. 8.....	4.90
Floor plate, Fig. 865, No. 8.....	4.80

Note: Regular lever supplied is 6 inch centers, can be supplied with 8 or 10 inch levers, add \$2.00 each.

Chain Type Steerers

ALL BRONZE—WITH ROLLER CHAIN
FOR WHEEL BOX MOUNTING

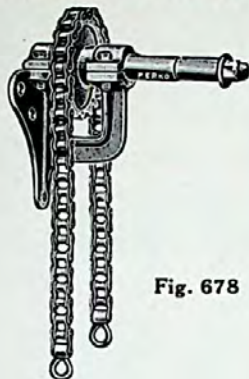


Fig. 678

Sprocket, 4¾ inch diameter, 21 teeth.

Chain, 36 inches long, ¾ inch pitch.

Shaft machined for hub 2½ inches thick.

Wheel End of Shaft Inches	Each	*Length Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
¾	\$37.00	2¾	6x5½	11
1	40.00	2¾	6x5½	11½

*Length between bracket and wheel.

Chain only, per foot.....	\$3.50
Chain Shackles, each.....	1.30
Acorn Nuts, each.....	1.00
Sprocket only, each.....	6.50

Wheels for above see Figs. 657, 914 and 976, Sizes 4, 5 and 6.

Special machining of shaft, on application.

Supplied with reversed shaft for thru-bulkhead mounting to order, on application.

WITH POLISHED BRONZE WHEEL



Fig. 674
For Wheel Box Mounting



Fig. 675
For Thru-Bulkhead Mounting

Outside Diameter Wheel Inches	Polished Bronze Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$46.00	\$53.00	¾	1
20	53.00	60.00	¾	1
24	63.00	70.00	1	1

Wheel, shaft and nut only are polished or plated, balance of steerer is plain bronze.

Wheel only, see figs. 914 and 976, sizes 1, 2 and 3.

Chain Type Steerers

WITH INLAID MAHOGANY WHEEL



Fig. 676

Diameter Wheel Inches	Each	Wheel End of Shaft Inches
20	\$75.00	$\frac{3}{8}$
24	83.00	1
28	95.00	1

Steerer only, see Fig. 678.

Wheel only, see Fig. 657.

Steering Wheels

BRASS—WOOD GRIPS—ROUND SPOKES



Fig. 914

With Short Hub for steerers Figs. 674 and 675

No.	Overall Diam. Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Keyway Inches
1	16	\$20.00	\$24.00	$\frac{3}{8}$	1	$\frac{1}{4}$
2	20	23.00	28.50	$\frac{3}{8}$	1	$\frac{1}{4}$
3	24	28.50	34.00	1	1 $\frac{1}{4}$	$\frac{1}{4}$

With Long Hub for steerers Figs. 512 and 678

4	16	\$23.00	\$27.00	$\frac{3}{8}$ or 1	2 $\frac{1}{8}$	$\frac{1}{4}$
5	20	26.50	32.00	$\frac{3}{8}$ or 1	2 $\frac{1}{8}$	$\frac{1}{4}$
6	24	32.00	37.50	1	2 $\frac{1}{8}$	$\frac{1}{4}$

Mahogany Steering Wheels

INLAID RIM—CAST BRONZE HUB

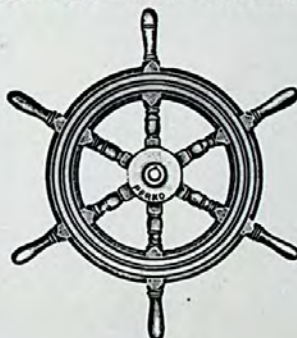


Fig. 657

Diam. Overall Inches	Each	For Diam. Shaft Inches	Thickness of Hub Inches	Size Keyway Inches
18	\$36.00	$\frac{3}{8}$	2 $\frac{1}{8}$	$\frac{1}{4}$
20	38.50	$\frac{3}{8}$ or 1	2 $\frac{1}{8}$	$\frac{1}{4}$
24	43.50	1	2 $\frac{1}{8}$	$\frac{1}{4}$
28	55.00	1	2 $\frac{1}{8}$	$\frac{1}{4}$
30	69.00	1	2 $\frac{1}{8}$	$\frac{1}{4}$
36	105.00	1 $\frac{1}{4}$	2 $\frac{1}{2}$	$\frac{3}{8}$
42	116.00	1 $\frac{1}{4}$	2 $\frac{1}{2}$	$\frac{3}{8}$
48	126.00	1 $\frac{3}{8}$	2 $\frac{1}{2}$	$\frac{3}{8}$

With bunged rim to order, price on application.

Steering Wheels

CAST BRONZE—WOOD GRIPS



Fig. 976

With Short Hub for steerers Figs. 674 and 675

No.	Overall Diam. Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Keyway Inches
1	16	\$11.00	\$15.00	$\frac{3}{8}$	1	$\frac{1}{4}$
2	20	16.50	22.00	$\frac{3}{8}$	1	$\frac{1}{4}$
3	24	27.50	33.00	1	1 $\frac{1}{4}$	$\frac{1}{4}$

With Long Hub for steerers Figs. 512 and 678

4	16	\$17.00	\$21.00	$\frac{3}{8}$ or 1	2 $\frac{1}{8}$	$\frac{1}{4}$
5	20	22.00	27.50	$\frac{3}{8}$ or 1	2 $\frac{1}{8}$	$\frac{1}{4}$
6	24	33.00	38.50	1	2 $\frac{1}{8}$	$\frac{1}{4}$

New Electrolysis Eliminators

PURE ZINC

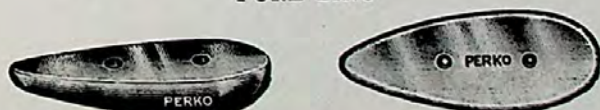


Fig. 244

A necessity if the boat is used in salt water. Streamlined for mounting on the deadwood or planking. Arrests electrolysis of under water brass fittings.

Most boats require two, in some cases larger boats require more.

Each	Length Inches	Width Inches	Depth Inches	Weight Pounds
\$1.80	5 $\frac{1}{4}$	2 $\frac{1}{8}$	1	1 $\frac{1}{2}$

Columbian Propellers

MANGANESE BRONZE—AILSAS CRAIG TYPE

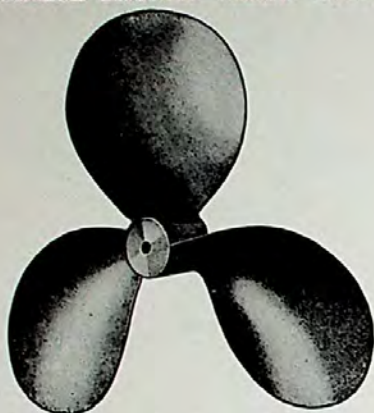


Fig. 809—1st Quality

Fig. 739—Peerless Quality

Diam. Inches	Fig. 809 3 Blade Each	Fig. 739 3 Blade Each	Boring Each	Maximum Standard Bore Inches
10	\$ 13.30	\$ 11.30	\$ 2.75	7/8
11	13.85	11.80	2.75	1
12	14.75	12.50	3.00	1 1/8
13	16.20	13.80	3.00	1 1/8
14	17.80	15.35	3.25	1 1/4
15	20.20	17.20	3.75	1 1/4
16	22.65	19.25	3.95	1 3/8
17	25.20	21.50	4.75	1 3/8
18	27.75	23.60	4.75	1 3/8
19	33.85	28.80	5.00	1 1/2
20	39.95	33.95	5.00	1 1/2
21	48.30	41.25	5.50	1 3/4
22	55.40	47.00	5.50	1 3/4
23	61.00	51.95	6.25	1 3/4
24	66.55	56.60	6.25	1 3/4
25	72.00	61.45	6.90	2
26	80.95	68.80	7.50	2
27	88.55	75.35	8.00	2
28	96.80	82.25	8.00	2
30	114.40	97.25	9.40	2 1/4
32	140.00	126.00	11.25	2 1/2
34	162.80	146.75	12.50	2 3/4
36	196.00	176.00	15.00	2 3/4
38	226.00	203.50	17.50	3
40	262.00	235.40	20.00	3
42	298.00	268.40	23.75	3 1/4
44	336.00	302.50	27.50	3 1/4
46	380.00	342.10	31.25	3 1/2
48	437.00	392.70	35.00	3 1/2
50	470.00	423.50	42.50	4

With larger hub for larger bore—on application.

2 blade and special styles—on application.

Speed Boat Rudders

CAST MANGANESE BRONZE



Fig. 813

Furnished complete with tiller, collar, nut and rudder port. Standard length stock above blade 12 inches.

No.	Complete Each	Rudder Only Each	Blade Size Inches	Diam. Stock Inches	Length Tiller Inches
1	\$36.50	\$20.00	9x14	1	12
2	41.00	24.50	10x16	1	12
3	47.00	27.50	11x18	1 1/8	14
4	63.00	35.20	12x20	1 1/4	16

With stock longer than standard, price on application.

Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

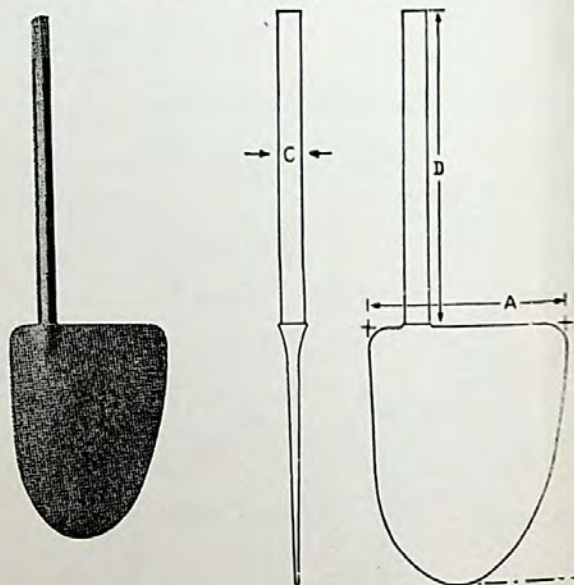


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats all boats not carrying a skag.

DIMENSIONS, INCHES

For Diam. Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weight Ounces	No.	Each	Longer Stock Add per Inch	A	B	C
1	\$2.00	1 3/4	1/8	7	1	\$21.45	.22	9	12	1
1 1/8	2.00	1 3/4	1/8	6 1/2	2	26.15	.28	10 1/2	14	1 1/8
1 1/4	2.65	2 1/8	1/8	11	3	27.50	.39	12	16	1 1/4
1 3/8	3.25	2 1/2	1/8	19	4	36.85	.44	13 1/2	18	1 3/8
1 1/2	3.50	2 1/2	1/8	19	5	52.00	.50	15	20	1 1/2
					6	76.50	.66	16 1/2	22	1 3/4
					7	104.00	.83	18	24	2
					8	141.00	1.00	20	26	2 1/4

Bronze Rudder Collars



Fig. 815

Cruiser Rudders

CAST MANGANESE BRONZE



Fig. 816

Blade Size Inches	Each	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock Inches	Longer Stocks Per Inch
12x12	\$18.50	1/4	|	12	\$.22
13x13	20.00	1/4	|	12	.22
14x14	24.20	1/4	|	12	.22
15x15	27.50	1/4	|	12	.22
16x16	30.80	1/4	|	12	.22
18x16	32.20	1/4	|	12	.22
18x18	35.20	1/4	|	12	.22
20x18	39.90	1/4	1/4	18	.39
20x20	46.00	1/4	1/4	18	.39
22x18	47.85	1/4	1/4	18	.39
22x20	60.00	3/8	1/4	18	.39
22x22	61.60	3/8	1/4	18	.39
24x20	61.60	3/8	1/4	18	.39
24x22	63.00	3/8	1/4	18	.39
24x24	64.65	3/8	1/4	18	.39

Quadrant Tillers

GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam. Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 4.35	3/8	5/16 to 3/4	3
10	7.80	3/8	5/16 to 1	5 1/4
12	10.90	3/8	3/4 to 1 1/4	8 1/2
15	16.50	1/2	3/4 to 1 1/4	13
18	27.25	5/8	1 to 1 3/8	27
24	56.50	3/4	1 1/2 to 1 3/4	46

Note: 7 inch size is galv. cast iron.

Galvanized Rudders

GALVANIZED FORGED STEEL



Fig. 647

Size No.	Galv. Each	Size Plate Inches	Square End of Post Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Each Pounds
00	\$ 5.25	6x 8x 1/8	3/8	25	3/4	3
0	8.70	12x12x1/8	3/8	40	3/4	11
1	10.50	14x14x1/8	3/8	42	3/4	13
2	15.40	16x16x1/8	3/4	48	1	25
3	19.00	18x18x1/8	3/4	52	1	35

Rudder Skags

DROP FORGED STEEL OR BRONZE



Fig. 649

Size No.	Galv. Each	Plain Bronze Each	Dimensions Inches	For Rudder Post Inches	Weight Each Pounds
0	\$3.25	\$ 7.00	24x1 1/2x3/8	3/4	4 1/2
1	4.75	11.00	30x1 3/4x1/2	3/4	9
2	8.75	23.00	42x2 x5/8	1	17

Straight Tillers

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 650

With square hole and set screw for Fig. 647 rudder.

Length Inches	Galv. Each	Plain Bronze Each	Size of Square Hole Inches	Weight Each (Iron) Pounds
8	\$2.15	\$4.20	5/8x5/8	1
10	2.40	4.80	3/4x3/4	1 3/4
12	3.60	5.10	3/4x3/4	2 1/8
15	4.50	9.50	7/8x7/8	3 1/2

Bronze Tillers

CAST MANGANESE BRONZE



Fig. 810

For round stock rudders Figs. 813, 816, 818.

No.	Each	Length Inches	For Rudder Stock Inches	Size Keyway Inches	Weight Pounds
1	\$ 8.80	12	1	1/4	3 1/4
2	12.00	14	1 1/8	1/4	4 1/2
3	19.25	16	1 1/4	1/8	7



Rudder Ports with Stuffing Box

CAST BRONZE—PLAIN
WITH BRASS GREASE CUPS

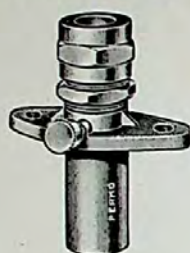


Fig. 1089

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	\$8.00	4 x2	5 1/8	1 1/8	3
7/8	8.25	4 1/4 x2 1/4	5 3/8	3/8	3 1/4
1	8.60	4 1/4 x2 1/2	5 1/4	3/8	3 1/2
1 1/8	9.25	5 x2 3/8	5 1/4	1/2	3 3/4
1 1/4	11.45	5 3/4 x3	6 3/8	1/2	5 1/2
1 3/8	12.50	6 1/4 x3 1/4	6 3/4	1/2	6 1/2
1 1/2	13.60	6 1/2 x3 1/2	6 3/4	1/2	6 3/4

Rudder Brace Pintles

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 1071

Size No.	Galv. Each	Plain Bronze Each	Between Straps Inches	Length Straps Inches	Width Straps Inches	Galv. Weight Ounces
00	.50	.60	3/8	2 7/8	3/4	4
0	.55	.70	3/4	3 1/2	7/8	6
1	.80	.90	7/8	4 1/4	7/8	7
2	.95		1	4 1/2	1	10
3	1.25		1 1/4	4 3/4	1	11
4	1.65		1 1/2	5 1/2	1 1/4	23

Rudder Brace Gudgeons

GALVANIZED MALLEABLE IRON OR BRONZE
STRAP TYPE



Fig. 1070

Size No.	Galv. Each	Plain Bronze Each	Between Straps Inches	Length Straps Inches	I. D. Hole Minimum Inches	Galv. Weight Ounces
00	.35	.45	3/8	2	1 1/8	2 1/2
0	.40	.50	3/4	2 1/2	1 1/2	3 1/2
1	.55	.65	7/8	3	1 1/2	4 1/2
2	.65	.75	1	3	1 3/8	5
3	.75	.90	1 1/4	3 1/4	5/8	7
4	.90	1.00	1 1/2	3 3/4	3/4	12

Rudder Brace Gudgeons

GALVANIZED MALLEABLE IRON OR BRONZE
NARROW PLATE TYPE



Fig. 1072

Size No.	Galv. Each	Plain Bronze Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Galv. Weight Ounces
00	\$.40	.45	1 7/8	1	1 1/8	2
0	.45	.50	2	1 1/8	1 1/8	3
1	.50	.55	2 1/8	1 3/8	1 1/2	3 1/2
2	.60		2 3/8	1 1/4	1 3/8	4

WIDE PLATE TYPE



Fig. 1073

Size No.	Galv. Each	Plain Bronze Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Galv. Weight Ounces
00	.40	.45	3 3/8	3/4	1 1/8	3 1/2
0	.45	.50	3 1/2	7/8	1 1/8	4
1	.50	.55	3 3/8	7/8	1 1/2	6
2	.60	.65	4 1/4	1	1 1/4	7
3	.75	.80	4 1/2	1 1/8	3/4	8
4	.85	.90	4 3/4	1 1/4	1 1/8	10

SCREW TYPE

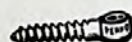


Fig. 1074

Size No.	Galv. Each	Plain Bronze Each	Diam. Shank Inches	I. D. Hole Minimum Inches	Galv. Weight Ounces
00	\$.20	.20	3/8	1 1/8	1
0	.25	.25	3/8	1 1/8	1
1	.35	.40	1/2	1 1/8	1
2	.40		1/2	1 1/8	2

Sliding Rudder Fittings

CAST BRONZE

For use on dinghys and small sail boats. The rudder slides on a cast bronze track which has a stop at the bottom.

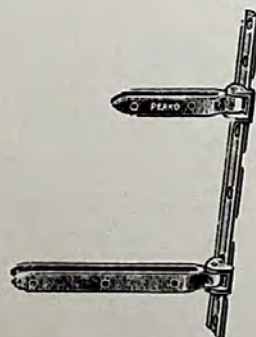


Fig. 552

Between Straps Inches	Width Track Inches	Length Track Inches	Weight Per Set Lb.
7/8	1	18	4

Complete Per Set \$8.75 Track Only Each \$3.90
Length inside short strap 5 1/2", long strap 10".

"Perko" Reverse Gear Controls

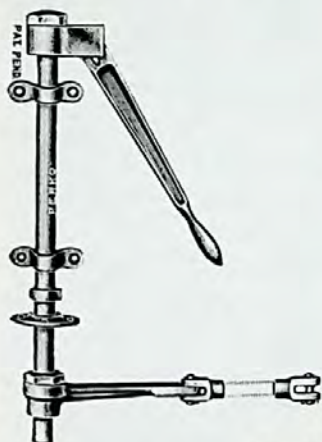
HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/4 INCH SHAFT

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.

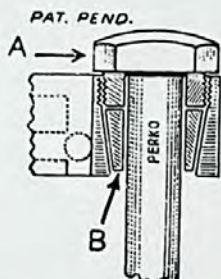


Fig. 663

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..... \$32.00
 Handle complete with tapered bushing and nut..... 19.50
 1 inch bronze shaft—per foot..... 3.50
 1 1/8 inch bronze shaft—per foot..... 4.00

Chromium plated, add 40% to above prices.

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 1/2 inches. Length of throw is 8 1/2 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches
\$27.00	\$35.00	25	8



Fig. 720

"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.

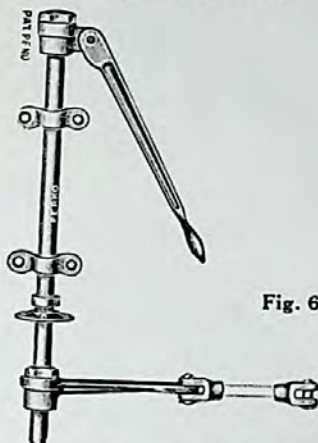


Fig. 664

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

Fittings complete—except shaft..... \$26.50

Handle complete with tapered bushing and nut..... 14.00

1 inch bronze shaft—per foot..... 3.50

Chromium plated, add 40% to above prices.

Clutch Control

CAST BRONZE—FOR 1 INCH SHAFT

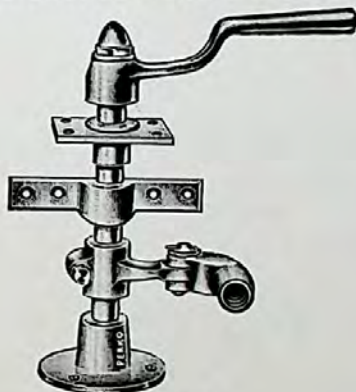


Fig. 822

Supplied with bulkhead bracket or shelf plate (please specify). Shaft is not included.

With 8" Handle		With 10" Handle		With 12" Handle	
Polished Chromium Bronze Per Set	Plated Per Set	Polished Chromium Bronze Per Set	Plated Per Set	Polished Chromium Bronze Per Set	Plated Per Set
\$32.00	\$39.50	\$33.00	\$40.50	\$34.00	\$42.00

SPARE PARTS

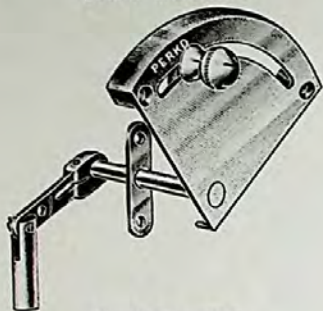
8 inch handle	\$ 8.00	Chromium Plated Each	\$11.25
10 inch handle	9.00	Chromium Plated Each	12.25
12 inch handle	10.00	Chromium Plated Each	13.50
Acorn nuts	2.00	Chromium Plated Each	2.65

Balance of parts, see Fig. 865, Nos. 3, 4, 6, 9, 11.

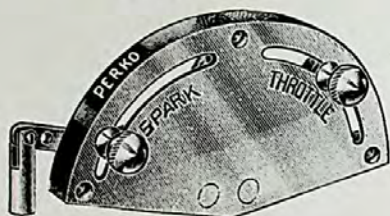
NOTE — Spare parts for Figs. 663 and 664 see Fig. 865, Nos. 2, 7, 10, 12.

New Spark and Throttle Controls

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE



Single Fig. 687



Double Fig. 688

Modern in design, the clean polished surface with all parts enclosed is very attractive. An internal ratchet holds the control at the setting required.

For $\frac{1}{4}$ or $\frac{5}{16}$ inch rod, the former is supplied unless otherwise specified.

For wood up to 2 $\frac{1}{4}$ inches thick.

Fig.	Polished Bronze Each	Chromium Plated Each	Dimensions Frame Inches	Weight Pounds
687	\$5.25	\$ 7.00	5x3 $\frac{3}{4}$	$\frac{7}{8}$
688	9.50	11.75	7x3 $\frac{1}{2}$	1 $\frac{5}{8}$

Spark and Throttle Control

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE—ADJUSTABLE



Fig. 904

Position can be changed by loosening one screw. Sockets are tapped for $\frac{1}{4}$ or $\frac{5}{16}$ inch rod.

	Polished Bronze Each	Chromium Plated Each	Dimensions of Base Inches	Dimensions of Frame Inches	Weight Ounces
Single	\$4.00	\$6.75	2x $\frac{7}{8}$	4 $\frac{1}{2}$ x 3 $\frac{3}{4}$	10
Double	6.25	9.25	2x $\frac{7}{8}$	4 $\frac{1}{2}$ x 3 $\frac{3}{4}$	13

Specify size of rod when ordering, otherwise $\frac{1}{4}$ inch rod sockets will be supplied.

Spark and Throttle Controls

FRICITION TYPE FOR CONTROL ROD
CAST BRONZE

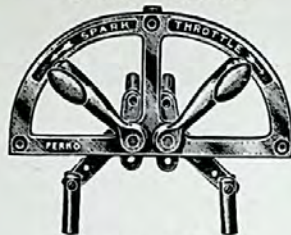


Fig. 653

Control rod sockets are tapped for $\frac{1}{4}$ or $\frac{5}{16}$ 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
\$8.00	\$11.75	6 $\frac{1}{2}$ x 3 $\frac{1}{4}$	1 $\frac{1}{4}$

Sockets for $\frac{1}{4}$ inch rod furnished unless otherwise specified.

Spark and Throttle Controls

FRICITION TYPE—FOR BOWDEN WIRE
CAST BRONZE

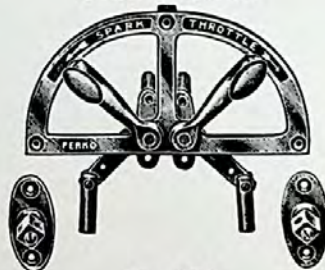


Fig. 654

Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$10.00	\$13.75	6 $\frac{1}{2}$ x 3 $\frac{1}{4}$	1 $\frac{1}{2}$

Spark and Throttle Controls

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE



Single Fig. 690



Double Fig. 691

Rod connections are inside bulkhead out of sight. Can be mounted on bulkhead up to 1 $\frac{1}{2}$ inches thick. Rod sockets are for $\frac{5}{16}$ inch rod. Furnished for $\frac{1}{4}$ inch rod to order.

Fig.	Polished Bronze Each	Chromium Plated Each	Size Frame Inches
690	\$4.25	\$6.00	4 $\frac{1}{4}$ x 3 $\frac{1}{2}$
691	8.00	11.75	6 x 3



"Sea-Husky"

Spark and Throttle Control

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE

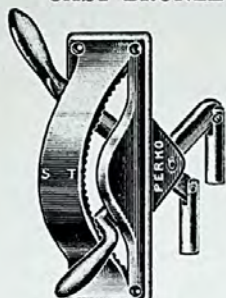


Fig. 331

Specify whether for $\frac{1}{4}$ or $\frac{5}{16}$ inch rod.

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$12.00	\$14.50	6	2½	2¾

Throttle Controls

FOR ROD OR CONTROL WIRE
CAST BRONZE—RATCHET TYPE



Fig. 715

For Control Wire



Fig. 716

For Control Rod

Handle is black bakelite. Fig. 716 supplied for $\frac{1}{4}$ or $\frac{5}{16}$ inch rod. Please specify.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$8.75	\$11.00	\$12.50	6	2¾	2

Spark and Throttle Control

RATCHET TYPE—FOR CONTROL WIRE
CAST BRONZE

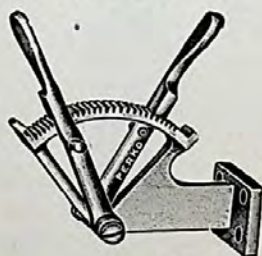


Fig. 409

	Polished Bronze Each	Chrom. Plated Each	Length Arc Inches	Extreme Projection Inches	Mounting Plate Inches	Weight Pounds
Single	\$5.50	\$9.00	2¾	5	1¾ x 1¾	¾
Double	8.00	12.00	2¾	5	1¾ x 1¾	1

"Sea-Way" Throttle Control

RATCHET TYPE—FOR $\frac{3}{8}$ INCH ROD
CAST BRONZE

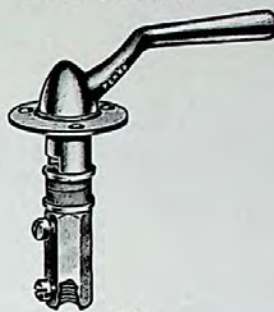


Fig. 847

A powerful control with a man sized handle. For mounting on top of wheel box or shelf.

A spring type ratchet inside handle hub holds control at desired position.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	For Rod Diam. Inches	Diam. Flange Inches	Weight Pounds
\$8.00	\$9.50	4½	¾	2½	1

"Sea-Prince" Throttle Control

RATCHET TYPE—FOR $\frac{1}{4}$ INCH ROD
CAST BRONZE



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
\$9.00	\$10.00	4½	3½	2¾	1

Sea-Horse Throttle Control

DUAL LEVERS FOR BOAT WITH FLYING BRIDGE
RATCHET TYPE—FOR $\frac{1}{4}$ INCH ROD
CAST BRONZE



Fig. 836

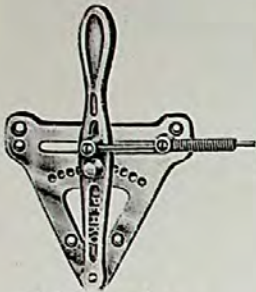
Dual levers are adjustable to any position. This control is suggested for use in pilot house or cabin to operate with control on flying bridge.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Levers Inches	Diam. Flange Inches	Weight Pounds
\$10.25	\$11.25	4½	3½	2¾	1¼

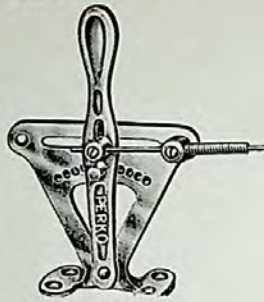


Improved Throttle Controls

RATCHET TYPE—FOR CONTROL WIRE
CAST BRONZE



Side Mounting
Fig. 350



Floor Mounting
Fig. 351

A decided improvement over the old style controls. A straight push and pull of the control wire gives smooth action and no kinks.

The spring type ratchet holds the control at the speed desired, non slip.

Fig.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Height Overall Inches	Weight Ounces
350	\$2.90	\$5.50	\$6.50	4 1/2 x 4	6 1/2	12
351	3.00	6.00	7.00	4 1/2 x 3 3/4	6 1/2	13

Control Levers

CAST BRONZE—PLAIN



Fig. 354

No.	Each	Length Overall Inches	For Shaft Inches	For Clevis Pin Inches	Weight Ounces
1	\$.60	2 1/2	1 1/8	3/8	1
2	1.00	3 3/4	1 1/8	3/8	1 1/2

Control Cranks

CAST BRONZE—PLAIN—1/4 OR 1/8 INCH ROD
SIDE OR UPRIGHT TYPES

Side Type

Upright Type

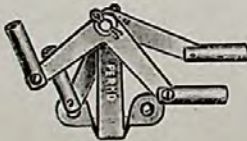


Fig. 636



Fig. 637

Length Arms Inches	Height Overall Inches	Size Base Inches	Weight Single Ounces	Weight Double Ounces
2	2 5/8	2 1/4 x 3/8	5	7

SIDE OR UPRIGHT TYPE

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Each
1/4	\$1.50	\$2.45	\$.50	\$.55
1/8	1.75	2.70	.50	.55

Spare Sockets, see Fig. 328, Standard Type.

Specify size of rod when ordering, otherwise 1/4 inch rod sockets will be supplied.

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
\$2.75	\$3.00	\$3.30	\$4.00

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
\$3.35	\$3.85	\$4.65	\$6.00

With chromium plated handle, add \$.25 per set.

Bowden Wire and Casing

TINNED STEEL OR BRASS
STRONG—FLEXIBLE



Fig. 353

Wire and casing furnished in lengths up to 50 feet each.

	Complete Per Foot	Casing Only Per Foot	Wire Only Per Foot	O. D. Casing Inches	Diam. Wire Inches
Steel	\$.12	\$.09	\$.03	1/4	.072
Brass	.24	.18	.06	1/4	.072

Improved Control Wire Handles

ALL BRASS

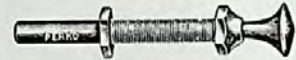


Fig. 692

Control wire and casing can be easily attached. No soldering necessary, wire held by set screw in knob casing threaded into tube. For use on a dash or bull head up to 2 inches thick.

Polished Brass Each	Chromium Plated Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$1.75	\$2.00	4 1/2	3/8	3

Bowden Casing Clamp

FORGED BRONZE—SWIVEL TYPE—PLAIN



Fig. 352

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at an angle.

Each	Size Base Inches	Weight Ounces
\$.60	2 1/4 x 1	3



Control Rod Sockets

PLAIN BRASS



Fig. 328

Fig. 295

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Length Jaws Inches
1	\$.25	1/4	1/8	1 5/8	1/8	3/4
2	.25	5/8	1/8	1 5/8	1/8	3/4
Standard Fig. 328						
Heavy Duty Fig. 295						
3	.30	1/4	1/2	1 5/8	1/4	1 1/8
4	.30	5/8	1/2	1 5/8	1/4	1 1/8
5	.50	3/8	1/2	1 5/8	1/4	1 1/8

Length jaws measured to center of pin.

Control Rod Sockets

EXTRA HEAVY TYPE—BRASS—PLAIN

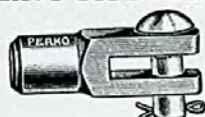


Fig. 298

Made from 1/2 inch square brass rod.

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Length Jaws Inches
6	\$.50	1/4	1/8	1 1/2	3/8	1/2
7	.55	5/8	1/8	1 1/2	1/4	1/2

Length jaws measured to center of pin.

Control Wire Sockets

PLAIN BRASS



Fig. 679

Complete with brass cotter pin and brass set screw.

Each	Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Weight Ounces
\$.30	1	3/8	1/8	1/2	1/2

Length jaws measured to center of cotter pin.

Brass Ball Joints



Fig. 792



Fig. 793

Fig. 793 is adjustable for wear. Spring tension around ball with screw for adjusting.

No.	Fig. 792 Each	Fig. 793 Each	Thread Inches	Length Thread Inches	O. D. End Inches	Weight Ounces
1	\$.35	\$.55	1/4-20	1/2	1/8	1/2
2	.50	.70	1/4-18	1/2	1/8	1

Steerer and Control Parts

CAST BRONZE



PERKO

Fig. 865

No.	Plain Bronze Each	Length Center of Holes Inches	Extreme Length Inches	For Rod Diam. Inches	Tapped For Pipe Inches	Diam. Bolt Inches	Size Jaws Inches
1	\$6.30	6	8	1	1/2	1/2	3/16
2	2.30		2 1/4	3/4	3/4	1/2	3/16
*2A	3.00		4				
3	6.00	2 3/4	4 1/2	1	3/4	1/2	3/16
4	4.50		3 1/2	1	3/4	1/2	3/16
5	3.60	1 3/4	3	1	3/4	1/2	3/16

*No. 2-A is same style as No. 2.

No.	Polished Bronze Each	Width Inches	Length Inches	Outside Diam. Inches	For Rod Diam. Inches	Depth to Center of Bore Inches
6	\$4.90	7	1 1/4		1	1 1/8
7	4.90	4 1/2	1 1/4		1 or 1 1/8	2 1/8
8	4.80			3 3/4	1	
9	4.00	4	3 3/8		1	
10	4.25			4	1 or 1 1/8	
11	4.25 Plain			4 3/4	1 Height	2 1/8
12	1.60			1 1/2	1 or 1 1/8	
13	6.60 Pl. 6		8		1	

Bronze Universal Joints

CAST BRONZE—PLAIN



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$5.50	3/4	1/2	4 1/2	1
2	8.50	1	3/4	6	2 1/4

Stuffing Boxes CAST BRONZE—REGULAR



Fig. 320

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
5/8	\$3.55	3 7/8 x 1 3/4	1 1/8	2 3/8	2 1/8	1 1/8
3/4	3.65	4 x 1 3/4	3/8	2 5/8	2 1/8	1 1/8
7/8	3.75	4 1/8 x 1 7/8	1 1/8	3	2 5/8	1 1/2
1	4.50	4 1/4 x 2 1/8	1 1/8	3	2 5/8	1 3/4
1 1/8	5.20	4 7/8 x 2 1/8	1/2	3 3/8	2 7/8	2 1/4
1 1/4	6.15	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	3
1 3/8	7.15	6 1/4 x 3	1/2	4 3/4	3	3 1/4
1 1/2	8.15	6 1/2 x 3	1/2	5	3	3 1/2
1 3/4	12.65	7 x 3 3/4	3/8	5 1/2	4	5 3/4

Stuffing Boxes and Stern Bearings CAST BRONZE—HEAVY



Fig. 631



Fig. 632

Shaft Size Inches	Fig. 631 Each	Fig. 632 Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Fig. 631 Weight Pounds
1	\$8.80	\$4.55	5 3/4 x 3	1/2	4 5/8	4 1/2	4 1/2
1 1/8	9.10	5.20	6 3/8 x 3 1/4	1/2	5 1/4	4 1/2	5
1 1/4	10.40	6.20	7 x 3 1/2	3/8	5 3/8	4 3/4	6 1/2
1 3/8	11.70	7.80	7 5/8 x 3 3/4	3/8	6 1/4	5 1/4	7 1/2
1 1/2	14.00	9.10	8 x 4	3/8	6 1/2	5 5/8	9
1 3/4	19.80	12.70	9 1/8 x 4	3/4	7 1/2	7	11 1/2
2	23.40	16.25	10 1/8 x 4 1/2	3/4	8 5/8	7 5/8	12

Stern Bearings CAST BRONZE—REGULAR



Fig. 321

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
3/8	\$1.75	3 7/8 x 1 3/4	3/8	2 3/8	2 1/8	3/4
3/4	1.95	4 x 1 3/4	3/8	2 5/8	2 1/8	3/4
7/8	2.15	4 1/8 x 1 7/8	1 1/8	3	2 5/8	1
1	2.40	4 1/4 x 2 1/8	1 1/8	3	2 5/8	1 1/4
1 1/8	2.90	4 7/8 x 2 1/8	1/2	3 3/8	2 7/8	1 1/2
1 1/4	3.60	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	2
1 3/8	4.55	6 1/4 x 3	1/2	4 3/4	3	2 1/4
1 1/2	5.10	6 1/2 x 3	1/2	5	3	2 1/2
1 3/4	7.15	7 x 3 3/4	3/8	5 1/2	4	3 3/4

Extra Heavy Stuffing Boxes RECTANGULAR FLANGE—CAST BRONZE



Fig. 819

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1	\$10.25	5 x 3	1/2	3 3/4 x 1 3/4	4	5 1/2
1 1/8	11.00	5 1/2 x 3 3/8	1/2	4 1/4 x 2 1/4	4 1/4	6 1/2
1 1/4	11.70	5 5/8 x 3 3/8	1/2	4 3/8 x 2 1/4	4 3/4	7
1 3/8	13.00	6 x 4	1/2	4 1/8 x 2 1/2	5	9
1 1/2	15.60	6 x 4 3/8	1/2	4 1/2 x 3	5 1/2	10
1 3/4	22.00	6 1/2 x 4 1/2	3/8	5 1/8 x 3 1/4	7	13 1/2
2	26.00	7 3/4 x 5	3/8	5 7/8 x 3 3/8	7 3/8	15 1/2

Stuffing Boxes and Stern Bearings THREADED FOR PIPE—CAST BRONZE



Fig. 711



Fig. 712

Size Shaft Inches	Fig. 711 Stuffing Box Each	Fig. 712 Stern Bearing Each	Size Flange Inches	Tapped for Pipe Inches	Drilled for Fastening Inches
3/4	\$4.75	\$3.00	4 x 2 1/8	3/4	3/8
7/8	4.95	3.25	4 3/4 x 2 3/8	1	7/8
1	5.70	3.60	4 3/4 x 2 3/8	1	1 1/8
1 1/8	6.45	4.15	5 3/4 x 3	1 1/4	1 1/2
1 1/4	7.50	4.90	6 x 3	1 1/4	1 1/2
1 3/8	8.45	5.85	6 1/2 x 3 3/8	1 1/2	1 1/2
1 1/2	9.55	6.50	6 3/4 x 3 3/4	1 1/2	1 1/2

Extra Heavy Stern Bearings RECTANGULAR FLANGE—CAST BRONZE



Fig. 906

For Diam. Shaft Inches	Plain Each	Weight Pounds
1	\$ 6.20	4
1 1/8	6.85	5
1 1/4	7.50	5 1/2
1 3/8	9.00	6 3/4
1 1/2	10.75	8
1 3/4	15.00	10 1/2
2	18.75	12

All other dimensions same as fig. 819 above.

NOTE—LENGTH BEARING SHOWN DOES NOT INCLUDE PACKING NUT OR SPACE FOR PACKING.



Self Aligning Stuffing Boxes

CAST BRONZE—RECTANGULAR FLANGE

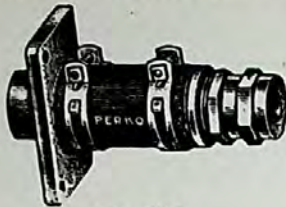


Fig. 734

No.	Each	For Shaft Inches	Size Flange Inches	Length from Flange to End of Box Inches	Weight Pounds
1	\$9.50	3/4	5x3 1/4	6 1/2	5
2	9.75	7/8	5x3 1/4	6 1/2	5
3	10.00	1	5x3 1/4	6 3/4	5
4	12.00	1 1/8	6x4 1/4	7 3/4	9
5	14.00	1 1/4	6x4 1/4	7 3/4	9 1/2
6	16.00	1 3/8	7x4 1/2	8	12 1/2
7	18.00	1 1/2	7x4 1/2	8 1/4	13

Flax Packed Stuffing Boxes and Stern Bearings

WITH RECTANGULAR FLANGE

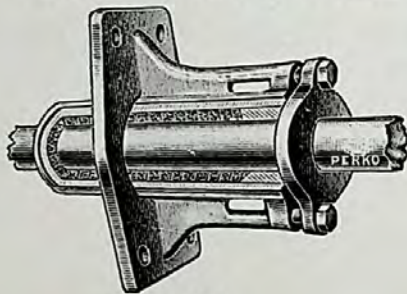


Fig. 811

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$12.00	5 3/4 x 3	5 1/4
1 1/8	14.00	6 x 3	5 1/2
1 1/4	16.50	6 3/4 x 3 1/2	5 3/4
1 3/8	17.50	7 x 3 7/8	5 3/4
1 1/2	24.00	7 1/2 x 4 1/4	6 1/2
1 3/4	34.00	8 1/2 x 4 3/4	6 1/2
2	44.00	9 1/2 x 5 1/4	8 1/8
2 1/4	69.00	12 x 6	11 1/8
2 1/2	85.00	13 1/4 x 6 3/8	12 1/4

Midget Adjustable Strut

CAST BRONZE—FOR SMALL INBOARD ENGINES



Fig. 660

Maximum drop is 5 inches, can be reduced to 3 inches. Adjustable to any angle of shaft.

Each	Diam. Shaft Inches	Size of Base Inches	Length Bearing Inches	Weight Pounds
\$6.00	3/8 or 3/4	3 1/2 x 2 1/4	2 1/4	2

Adjustable Struts

ALL CAST BRONZE
MARINE BABBITT BEARING

Side View

End View

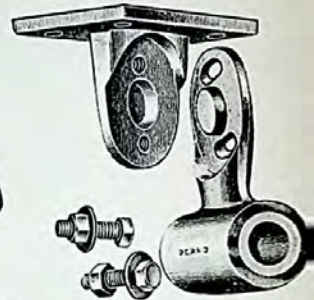


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by two 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.

Lgth. Drop In.	Size Shaft Inches					For Diam. Bolt Inches
	3/4	7/8	1	1 1/8	1 1/4	
5	\$19.25	\$19.25	\$19.25	\$19.25		1 3/8
6	19.75	19.75	19.75	19.75	\$27.00	1 3/4
7	20.35	20.35	20.35	20.35	27.50	2
8	21.00	21.00	21.00	21.00	28.00	2 1/8
9	21.50	21.50	21.50	21.50	28.50	2 1/4
10	22.00	22.00	22.00	22.00	29.70	2 3/8
11	23.00	23.00	23.00	23.00	31.00	2 3/4
12				25.00	33.00	3

Specify Size Shaft and Length of Drop, When Ordering

Adjustable Struts

FOR 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

Prices below do not include rubber bearing. For bearings see page 88, Fig. 1021. Use bearings having the smallest outside diameter listed.

Lgth. Drop In.	Size Shaft Inches				
	3/4	7/8	1	1 1/8	1 1/4
5	\$20.00	\$20.50	\$21.00	\$21.50	
6	20.50	21.00	21.50	22.00	\$30.00
7	21.00	21.50	22.00	22.50	30.75
8	21.50	22.00	22.50	23.00	31.50
9			23.50	24.00	32.50
10			24.50	25.00	33.50
11					35.00
12					37.00

Specify Size Shaft and Length of Drop, When Ordering

Midget Self Aligning Shaft Log

CAST BRONZE—FOR SMALL INBOARD ENGINES

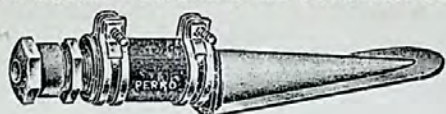


Fig. 695

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip. Base is undrilled to allow drilling as required.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degree of Pitch	Weight Pounds
0	\$8.00	3/8	9 3/8 x 2 1/2	15	10	3 3/4
1	8.00	3/4	9 3/8 x 2 1/2	15	10	3 3/4

This unit uses stuffing box Fig. 672 size 0 reamed out for either 3/8 or 3/4 inch shaft.

Adjustable Shaft Logs

CAST BRONZE—EXTRA HEAVY

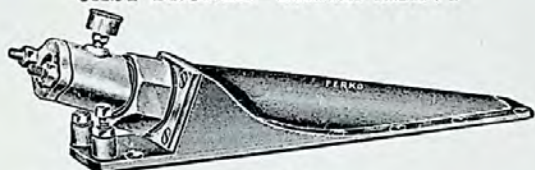


Fig. 627

Furnished complete with grease cup and rubber gasket for installing.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
1	\$27.00	3/4	16	3 1/2	14
2	27.75	7/8	16	3 1/2	14
3	28.50	1	16	3 1/2	14
4	40.00	1 1/8	22	4 1/4	19
5	41.00	1 1/4	22	4 1/4	19
6	60.00	1 3/8	26	5	30
7	61.00	1 1/2	26	5	30
8	80.00	1 3/4	28	5 1/2	57
9	81.00	2	28	5 1/2	57

Adjustable Shaft Logs

CAST BRONZE



Fig. 577

Cast Bronze Ball and Socket arrangement gives ample adjustment in all directions.

Range of adjustment between 12 and 25 degrees.

Flange bolts are locked with set screws.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$21.50	3/4	17 3/4	14	3 5/8	11
2	21.50	7/8	17 3/4	14	3 5/8	11
3	21.50	1	17 3/4	14	3 5/8	11
4	35.00	1 1/8	25	20	4 1/2	21
5	36.00	1 1/4	25	20	4 1/2	21
6	55.00	1 3/8	28 1/2	23	5 1/4	28
7	56.00	1 1/2	28 1/2	23	5 1/4	28

Self Aligning Shaft Logs

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.

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	\$ 8.00	3/8	9x4	10	14	3 1/2
1	10.00	3/4	11x5	12 1/4	14	6
2	10.25	7/8	11x5	12 1/4	14	6
3	10.50	1	11x5	12 1/4	14	6

Self Aligning Shaft Logs

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	12x3 1/2	18	11	7
2	10.25	7/8	12x3 1/2	18	11	7
3	10.50	1	12x3 1/2	18	11	7
4	18.00	1 1/8	17x4 1/4	23 1/2	11	12
5	21.50	1 1/4	17x4 1/4	23 1/2	11	12
6	27.00	1 3/8	19x5	28	11	20
7	28.50	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

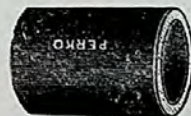


Fig. 673

For Log No.	Size Shaft Inches	Stuffing Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
*0	5/8	\$3.25	\$.70	\$.80	1 1/4	1 3/4	3 1/4
1	3/4	3.90	1.00	1.20	1 3/4	2 3/8	4
2	7/8	4.25	1.00	1.20	1 3/4	2 3/8	4
3	1	4.50	1.00	1.20	1 3/4	2 3/8	4
4	1 1/8	5.50	1.65	1.70	2 3/8	3	5
5	1 1/4	6.50	1.65	1.70	2 3/8	3	5
6	1 3/8	8.00	2.75	2.60	2 3/8	3 1/2	5
7	1 1/2	9.00	2.75	2.60	2 3/8	3 1/2	5

*Size 0 also supplied for 3/8 inch shaft; same is used on Shaft Log Fig. 695.

Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam. Bolt Holes Inches	Weight Pounds
5/8	\$2.50	4 x 1 1/8	3 1/8	1/4	1
3/4	2.50	4 1/4 x 1 1/8	3 1/2	1/8	1 1/8
7/8	2.50	4 1/4 x 1 1/4	3 3/8	1/8	1 1/4
1	2.50	4 7/8 x 1 1/2	3 3/4	3/8	1 1/2
1 1/8	3.40	5 1/4 x 1 3/8	4 1/4	3/8	2 1/3
1 1/4	3.40	5 1/2 x 1 3/4	4 1/4	3/8	2 3/8
1 3/8	4.10	5 5/8 x 1 3/8	4 3/8	3/8	3 1/2
1 1/2	4.10	6 1/4 x 2	4 7/8	1/2	4 1/4
1 3/4	4.85	6 3/4 x 2 1/4	5 3/8	1/2	6
2	6.50	7 1/2 x 2 1/2	5 3/4	1/2	7 1/4

Larger and intermediate sizes supplied to order.

Thrust Ball Bearings

Flat Race
Bronze Retainers

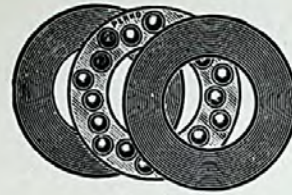


Fig. 786

Diameter Shaft Inches	Fig. 786 Each
5/8	\$2.20
3/4	2.35
7/8	2.55
1	2.65
1 1/8	2.90
1 1/4	3.00
1 3/8	3.40
1 1/2	3.75
1 3/4	4.25
2	4.80
2 1/4	5.60
2 1/2	7.30
	9.25

Grooved Race
Steel Retainers

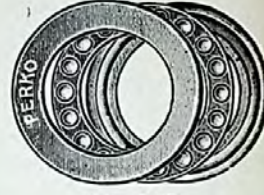


Fig. 942

Outside Diameter Inches	Thickness Inches	Fig. 942 Each
1 1/8	1/8	\$1.60
1 1/4	1/8	1.70
1 1/2	1/8	1.80
1 3/4	1/8	1.95
2	1/8	2.05
2 1/8	1/8	2.20
2 1/4	1/8	2.40
2 1/2	1/8	2.90
2 3/4	1/8	3.30
3	1/8	3.50
3 1/8	1/8	4.25
3 1/4	1/8	4.85
3 1/2	1/8	6.60

Intermediate Shaft Bearings

BALL BEARING TYPE—SELF ALIGNING
WITH GREASE RETAINING SEAL
STANDARD DUTY

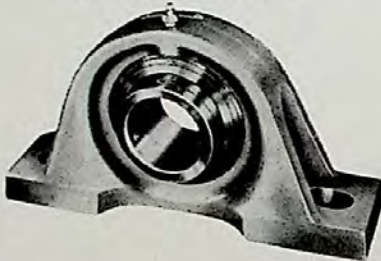


Fig. 790

For Shaft Size In.	Each	For Bolt In.	A In.	B In.	C In.	D In.	H In.	Shipping Wt. Lbs.
7/8	\$10.50	1/2	1 3/4	7	5 3/8	2	3 1/8	3 1/2
1	10.50	1/2	1 3/4	7	5 3/8	2	3 1/8	3 1/2
1 1/8	12.50	1/2	2	7 1/2	5 3/4	2	3 3/8	5
1 1/4	15.00	3/8	2 3/8	8 1/4	6 1/4	2 1/4	4 1/2	6 1/2
1 3/8	15.00	3/8	2 3/8	8 1/4	6 1/4	2 1/4	4 1/2	6 1/2
1 1/2	16.50	3/8	2 3/8	8 1/2	6 1/2	2 3/8	4 3/8	7 1/2
1 3/4	17.75	3/8	2 3/8	8 3/4	6 1/2	2 3/8	4 3/8	8
2	27.00	3/8	3 1/8	11 1/4	8 1/2	2 3/4	6	15
2 1/4	31.00	3/4	3 1/8	11 1/2	8 5/8	3	6	16
2 1/2	36.00	3/4	3 3/4	12 3/8	10	3 3/8	7 1/8	21

Thrust Ball Bearings

GROOVED RACES
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Each	Outside Diam. Inches
5/8	\$1.30	1 1/8
3/4	1.55	1 1/4
7/8	1.65	1 1/2
1	1.75	1 3/4
1 1/8	1.85	2
1 1/4	2.00	2 1/8
1 3/8	2.20	2 1/4
1 1/2	2.60	2 3/4
1 3/4	3.50	3 1/8
2	4.00	3 1/4
2 1/4	4.80	3 3/4
2 1/2	5.50	3 3/4
	6.50	4 1/8

Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Fig. 787

Shaft Size Inches	Each	Outside Diameter Inches	Width Inches
5/8	\$.48	1 1/8	1/8
3/4	.52	1 1/4	3/4
7/8	.62	1 1/2	1/8
1	.68	1 3/4	1/8
1 1/8	.78	2	1 1/8
1 1/4	.88	2 1/8	1 1/8
1 3/8	1.00	2 1/4	1 1/4
1 1/2	1.10	2 3/4	1 1/4
1 3/4	1.30	3	1 1/4
2	1.50	3 3/8	1 3/8

Iron Shaft Couplings

CAST IRON



Fig. 327

No.	Each	For Diameter Shaft Inches	Diam. Flange In.	Lgth. Overall In.	Wt. Lbs.
0	\$4.75	5/8, 3/4	3	2 5/8	2 1/2
1	6.25	5/8, 3/4, 7/8, 1, 1 1/8	4	3 1/2	5 1/2
2	6.75	3/4, 7/8, 1, 1 1/8, 1 1/4, 1 3/8, 1 1/2	4 1/2	4 1/8	8
3	8.25	1 1/8, 1 1/4, 1 3/8, 1 1/2	5	4 3/4	10 3/4
14	12.50	1, 1 1/8, 1 1/4, 1 3/8, 1 1/2, 1 3/4, 2	6	6 1/2	19 1/2

For divided sizes such as 1 x 1 1/8, add \$1.10 each.

For special boring, not listed, add \$2.25 each.

For 1/2 coupling add \$.55 to half of above prices. No bolts furnished.

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Keyway Inches	Size Shaft Inches	Keyway Inches
5/8 - 3/4 - 7/8	3/8	1 3/8 - 1 1/2	3/8
1 - 1 1/8	1/4	1 3/8 - 1 3/4	1/2
1 1/4	3/8	1 3/8 - 2	1/2

Bronze Shaft Couplings

CAST BRONZE

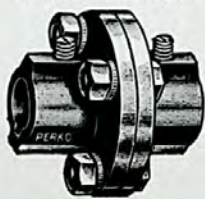


Fig. 389

Set screws, bolts and washers are all bronze.

Each	For Diameter Shaft Inches	Keyway Inches	Diam. Flange Inches	Length Overall Inches	Weight Pounds
\$5.50	5/8, 3/4, 7/8, 1	3/8	2 3/4	2 3/4	1 1/2

For divided sizes such as 3/4 inch one end, 1 inch the other end, add \$.50 each.

Brass Grease Cups



Fig. 961

No.	Height Closed Inches	Outside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	1 1/8	7/8	1/8	1/4
2	1 3/4	1 1/8	1/8	1/2
3	2	1 1/8	1/8	3/4

No.	Each
1	\$.40
2	.50
3	.65

Rubber Engine Mountings

OIL RESISTING SYNTHETIC RUBBER FOR MARINE ENGINE INSTALLATION

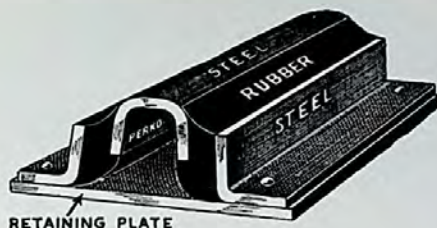


Fig. 455

Capacity 40 lbs. per lineal inch.

Made of 3 metallic members securely bonded to 2 resilient rubber elements arranged in such a manner that the loads are carried in a combination of shear and compression, the central inverted metal "U" carries the load and the extended metal flanges on either side are bolted to the engine bed, thus the rubber connector strips absorb and stop vibration created by the engine, eliminating vibrational noises, and increasing the mechanical efficiency of the engine.

The adhesion of the rubber to the metal is over 500 pounds per square inch.

Furnished with or without a steel plate riveted to the flanges, the steel plate permits the fastening of the mounting to the engine before installing so that engine can be properly lined up.

Length, Inches	Extreme Width Inches	Height with Retaining Plate Inches	Height without Retaining Plate Inches		
			2	3	4
2	4 1/8	1 1/2	\$3.60	\$4.75	\$5.80
3			\$3.30	\$4.40	\$5.40
4			\$2.20	\$3.30	\$4.40
5			80	120	160
6			200	240	240

Can be supplied in additional lengths up to five feet. Price on application.

Gy-A-Liner Engine Aligners

CAST IRON—PAINTED

Patent No. 2123484

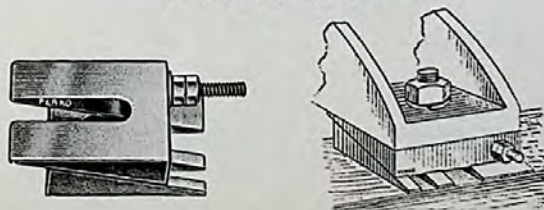


Fig. 1097

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	Normal Height Inches	Height of Adjustment Inches	Weight Each Pounds
\$1.65	2 1/2 x 2 1/2	1/2	3/8	1/8	3/4

Maxim Silencers

WET TYPE—MODEL M3
CAST IRON

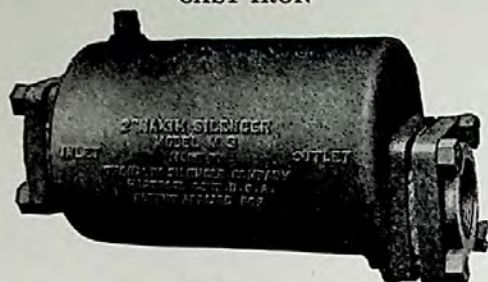


Fig. 334

For Exhaust Pipe Inches	*Fig. 334 Each	**Fig. 334-A Each	***Fig. 334-B Each	Diameter Inches	Length Overall Inches
1½	\$18.00	\$16.50	\$14.00	4¾	9¾
2	21.00	19.00	16.50	6¼	11
2½	27.50	24.50	21.00	7½	12¾
3	32.00	28.50	25.00	9⅞	13½
3½	43.00	39.50	36.00	11	14¾
4	50.00	47.00	43.00	12¾	15¾
5	141.00			14	23
6	164.00			14 ⅞	27½

- *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

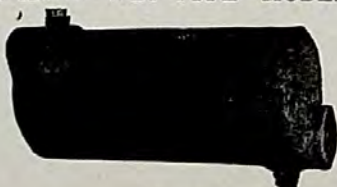


Fig. 755

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
½	\$6.00	3¼	7¾	4
¾	7.00	3½	8¼	5
1	8.50	3¾	9	6
1¼	9.50	4¼	9½	10

Exhaust Pipe Flanges

CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2 ⅞	4	11 oz.
2½	2 ⅞	4½	14 oz.
3	3½	5½	1¼ lb.
3½	4	6	1½ lb.
Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$1.55	\$2.50	\$3.10
2½	1.90	2.75	3.40
3	2.20	3.45	4.25
3½	2.35	3.60	4.55

Exhaust Tube Flanges

CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 ⅞	4	11 oz.
2½	2 ⅞	4½	14 oz.
3	3 ⅞	5½	1 ¼ lb.
3½	3 ⅞	5½	1½ lb.
4	4 ⅞	6	1 ½ lb.
Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$1.15	\$2.15	\$2.80
2½	1.55	2.50	3.10
3	1.90	2.75	3.40
3½	2.20	3.45	4.25
4	2.35	3.60	4.55

Gasoline Funnels

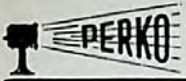
GALVANIZED—WITH STRAINER



Fig. 81

Made of galvanized sheet steel with No. 100 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Quarts	Weight Ounces
1	\$1.30	6 ⅝	7	1	6
2	1.50	8	8½	2	8½



Gasoline or Oil Strainers

PLAIN BRONZE—WOVEN BRASS SCREEN

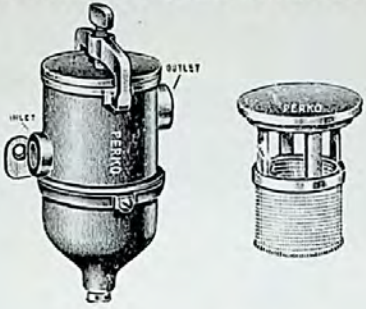


Fig. 299

With Yoke, Thumbscrew and Supporting Bracket.
Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pipe plug in bottom for draining. Side bracket supports the strainer, relieving the fuel pipes of all weight.

Size No.	Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Pounds
1	\$ 7.50	5 1/2	2 3/8	1/4 or 3/8	3
1 1/2	10.50	6 1/4	3 1/8	3/8 or 1/2	5
2	14.00	7 1/4	3 3/8	1/2 or 3/4	7

With 20 x 100 mesh screen for gasoline.
With 24 x 24 mesh screen for oil.
Gasoline strainers supplied unless otherwise specified.
With special mesh screen, price on application.

Intake Water Strainers

CAST BRONZE
MONEL SCREEN—LUCITE CYLINDER



Fig. 493

For installation between inlet connection and water pump to the engine.
Lucite cylinders are difficult to break even when struck with hammer. Gaskets are coprene, (neoprene and cork) waterproof and resilient.

No.	Complete Each	Pipe Size Inches	Overall Height Inches	Overall Width Inches	Weight Pounds
1	\$17.50	1/2	7	4 3/8	5
2	27.50	3/4	10 1/4	5 3/8	7 1/2
3	28.50	1	10 1/4	5 3/8	7 1/2
4	30.00	1 1/4	10 1/4	5 3/8	7 1/2
5	41.50	1 1/2	13 1/4	7	14 1/2
6	58.00	2	19	9	22

Mounting brackets for bulkhead can be supplied as an extra.

Wrought Brass Fog Bells

PRESSED BELL METAL



Fig. 159

	6 in.	8 in.
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	\$4.00	\$4.65	\$6.50
8	5.75	6.50	8.60
Wall Plates only	.65	.80	1.15
Arms only	1.25	1.45	1.95

Cast Bronze Fog Bells

LIGHTWEIGHT



Fig. 581

Cast from bell metal. With removable bracket.

	6 in.	8 in.
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	3 lbs.	5 lbs.

Diam. Inches	Polished Each	Chromium Plated Each	Wall Plates Only Polished Each	Chromium Plated Each
6	\$10.00	\$14.50	\$1.10	\$1.65
8	13.75	18.00	1.10	1.65

MEDIUM WEIGHT



Fig. 420

Cast from high grade bell metal. Highly polished detachable bracket.

	6 in.	8 in.
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	Wall Plates Only Polished Each	Chromium Plated Each
6	\$13.00	\$17.50	\$1.40	\$1.90
8	21.00	25.00	1.90	2.75

HEAVY WEIGHT



Fig. 150

Cast from extra heavy bell metal. Complete with removable bracket.

Bottom Diam. Inches	Pol. ished Each	Chrom. Plated Each	Pol. ished Each	Chrom. Plated Each	Hgt. Inches	Wt. Lbs.
8	\$33.00	\$41.00	\$1.90	\$2.75	8	10
10	64.00	74.00	3.30	4.50	10 1/2	22
12	86.00	98.00	4.00	5.00	12	38



Fog Horns

WITH ADJUSTABLE REED
GALVANIZED STEEL OR BRASS



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. Steel Per Doz.	Pol. Brass Per Doz.
18	Without Bell	\$21.50	\$33.00
20	With Bell, as illustrated	25.75	39.00
24	With Bell, as illustrated	29.50	42.00

Triplex Motor Boat Whistle

ALL BRASS—NICKEL PLATED
WITH CHAIN AND BUTTON RING



Fig. 168

Per Dozen	Length Overall Inches	Diameter Inches	Length Chain Inches	Weight Per Dozen Pounds
\$16.20	5 3/4	1 1/8	12	2 1/4

Police or Signal Whistle

BRASS—NICKEL PLATED



Fig. 349

Per Dozen	Length Inches	Width Inches	Weight Per Doz. Ounces
\$7.50	2	3/4	17

Remote Control Relays

CHROMIUM PLATED—6-12-32 VOLTS
FOR HORNS, SEARCHLIGHTS, ETC.



Fig. 273

Very necessary on low voltage battery hook ups to horns, searchlights, motors, etc., especially where the unit is some distance from battery. A relay eliminates line loss in such cases.

6 Volts Each	12 Volts Each	32 Volts Each	Height Inches	Width Inches	Weight Ounces
\$1.75	\$2.25	\$2.85	1 5/8	3 1/4	4 1/2

Specify voltage when ordering.

Brass Electric Horns

VIBRATORY TYPE—6, 12 OR 32 VOLTS
POLISHED OR CHROMIUM PLATED
COAST GUARD MODEL

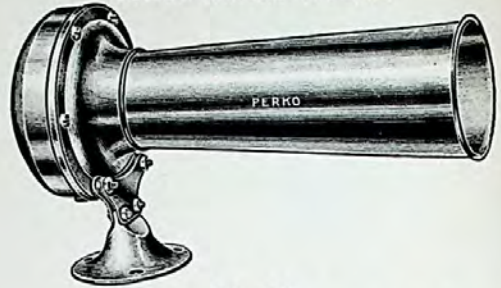


Fig. 75

Complete with button, cable, mounting bolts, screw etc.

Internal steel parts treated against corrosion.

No.	6 Volt		Length Overall Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
	Pol. Brass Each	Chrom. Plated Each				
1	\$16.00	\$17.50	13	7 1/4	3 7/8	4
2	22.50	25.00	15 3/4	8 1/2	3 7/8	6

For 12 volt add \$2.00.

For 32 volt add \$3.50.

Size No. 2 meets U. S. Coast Guard specification No. CR—23075.

Blaster Horn

WITH PUSH BUTTON, CABLE AND RELAY



Fig. 989

Pol. Brass Each	Chrom. Plated Each	Length Inches	Width Inches	Height Inches	Wt. Lbs.
\$20.00	\$22.50	22	5 1/2	9	7

For 12 volt add \$2.00.

For 32 volt add \$3.50.

Super-Blaster Twin Horns

WITH PUSH BUTTON, CABLE AND RELAY

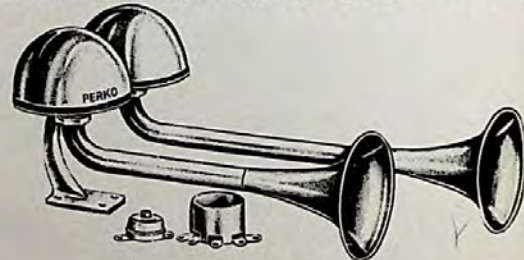


Fig. 990

Pol. Brass Per Pair	Chrom. Plated Per Pair	Length Inches	Width Inches	Height Inches	Wt. Lbs.
\$32.50	\$35.00	22	11	9	11

For 12 Volt, add \$4.00 — For 32 Volt, add \$7.00

New "Sea-Tone" Horn

ALL BRASS — CHROMIUM PLATED
WATERTIGHT — WEATHERPROOF
VOLTAGES 6—12—32—110 D. C.

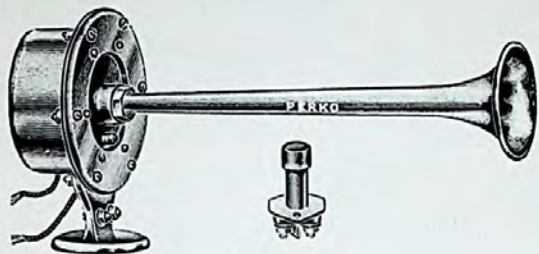


Fig. 576

A Horn manufactured for marine use. It has great volume and distinctive tone. It answers the demand for a high quality marine horn that can be heard at great distance and stand the arduous test of use on salt water.

Supplied complete with heavy duty push button and 16 feet of cable in two eight-foot lengths.

Volts	Each	Extreme Length Inches	Extreme Height Inches	Weight Pounds
6	\$40.00	19	8 3/4	8
12	40.50	19	8 3/4	8
32	41.00	19	8 3/4	8
110 D.C.	42.00	19	8 3/4	8

Packed in individual cartons.

Heavy Duty Marine Siren

DIE CAST WHITE METAL — CHROMIUM PLATED
6, 12 OR 32 VOLTS
THE YACHTSMAN

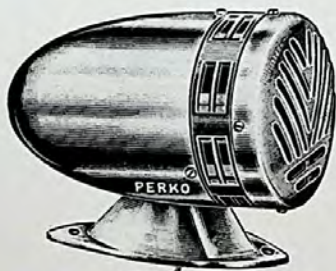


Fig. 1118

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.

Furnished complete with long cable and heavy duty push button.

Volts	Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$45.00	10 1/8	7 1/2	5 3/4	10

For 12 or 32 Volts Add \$2.50 Each

Marine Sirens

DIE CAST WHITE METAL — CHROMIUM PLATED
6, 12 OR 32 VOLTS
THE SEA-MITE



Fig. 1117

A siren of fine tone quality, dependability and performance.

Furnished complete with 10 ft. cable and heavy duty push button.

Volts	Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$25.00	7	5 3/4	4 1/2	5 1/4
12	26.00	7	5 3/4	4 1/2	5 1/2
32	27.00	7	5 3/4	4 1/2	5 1/2

Combination Light and Siren

COMBINED
FOR CLASS 1 MOTOR BOATS
ALL BRASS — CHROMIUM PLATED
6 OR 12 VOLTS
THE SIRO-LITE

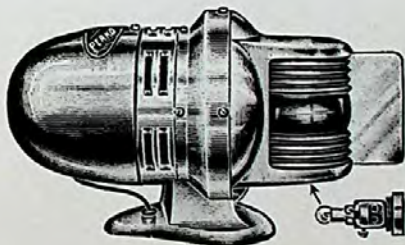


Fig. 597

An attractive 2-in-1 unit consisting of our Sea-Mite Siren and a regulation Class One Combination Light with two fresnel lenses, one red, one green.

The light portion contains our patented rebulbing feature illustrated above.

Furnished complete with 10 feet of cable and heavy duty push button.

Volts	Each	Overall Length Inches	Overall Height Inches	Size Lenses Inches	Weight Pounds
6	\$52.00	11 3/4	6 1/2	3 1/8 x 3 3/8	8 1/2
12	53.00	11 3/4	6 1/2	3 1/8 x 3 3/8	8 1/2

Boat Cleats

GALVANIZED IRON OR BRONZE



Fig. 544

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each
*3			\$.65	\$1.05
3 1/2	\$.25	\$.18		
*4	.30	.20	.85	1.25
*5	.38	.30	.95	1.45
*6	.60	.36	1.30	1.75
8	1.15	.70	1.95	2.50
10	1.85	1.40	2.85	4.15
12	2.50	1.95	4.20	5.50
14	4.10	2.50		
18	6.75	4.25		

Cast iron cleats supplied unless otherwise specified.
*These sizes are of forged bronze, not cast.

Streamline Fender Cleat

DIE CAST, POLISHED OR CHROMIUM PLATED



Fig. 566

Length Inches	Polished Each	Chrom. Plated Each	Size Base Inches	For Diam. Rope Inches	Weight Ounces
3	\$.60	\$.80	2 3/8 x 1 3/8	3/8	2 1/2

Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

Length Inches	Per 100 Pieces	Wt. Per 100 in Lbs.
4 1/2	\$7.75	4 3/8
6	10.50	8 3/4
8	17.50	13 3/4

Hollow Cleats

CAST BRONZE—CLOSED ENDS



Fig. 572

Length Inches	Polished Bronze Each	Chromium Plated Each	Weight Pounds
4 1/2	\$1.85	\$2.35	1/2
5 1/2	1.95	2.45	3/8
6 1/2	2.10	2.65	3/4
8	2.75	3.60	1 1/4
10	5.00	6.00	2
12	6.75	8.25	3

Ship Cleats

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pound
8	\$1.25	4 1/4 x 2 1/8	1/8	3
10	2.10	4 3/4 x 2 1/2	1/2	5 3/4
12	3.40	6 7/8 x 3	3/8	10
15	4.70	7 1/4 x 3 1/2	3/4	14
18	6.75	7 1/2 x 4	3/4	20 1/2
24	17.00	8 1/2 x 4 3/8	7/8	35
30	26.50	10 3/4 x 5 1/2	1	73
36	44.00	13 x 7 1/4	1 1/4	117

Improved Cleats

CAST BRONZE—HEAVY DUTY



Fig. 384

Length Inches	Polished Bronze Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$1.25	\$1.90	1/4	1/2
5	1.60	2.25	3/8	3/4
6	2.10	2.75	1/2	1
8	3.90	4.65	3/4	1 3/4

Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

Length Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Width Inches	For Di. Rope Inch
3	\$.45	\$1.70	\$2.60	3/8	1/4
4	.50	1.95	3.25	3/4	1/2
5	.65	2.60	4.45	7/8	3/4
6	1.30	4.10	6.40	1 1/8	3/8
8	2.05	5.85	8.40	1 1/4	1
10	3.10	9.90	14.00	1 3/4	1 1/4
12	8.00	16.50	20.00	2	1 1/2
15	18.00			3 1/2	1 3/4

Fender Cleats

FORGED BRONZE



Fig. 583

Length Inches	Dull Finish Each	Polished Each	Chromium Plated Each	Size Base Inches	Weight Ounces
2 1/4	\$.40	\$.50	\$1.05	1 3/8 x 1	1 1/2

Straight Stern Chocks

GALVANIZED AND CAST BRONZE



Fig. 119

Length Inches	Galv. Iron Each	Polished Bronze Each	Chromium Plated Each	Width Inches	For Diam. Rope Inches
4	\$.25	\$1.10	\$1.75	7/8	1/2
5	.40	1.45	2.35	1	5/8
6	.65	2.10	3.20	1 1/4	3/4
8	1.30	3.25	4.55	1 5/8	1
10	1.55	5.15	7.10	1 7/8	1 1/4
12	3.25	8.75	11.00	2 3/8	1 5/8
15	7.10			3 3/8	1 3/4
18	9.75			3 1/2	2

Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Opening Inches	Weight Pair Pounds
1	\$ 2.85	\$ 4.40	4 1/2	7/8	3/4	3/4
2	4.30	6.05	5 1/2	1 1/8	1	1 1/2
3	7.15	9.10	7 3/4	1 1/2	1 1/4	3 3/4
4	10.00	12.35	8 1/2	1 5/8	1 1/2	5
5	15.00	18.00	10 1/2	2	2	8

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	\$ 1.30	\$ 1.95	4	7/8	5/8	1/2
12	2.15	3.25	5 1/2	1 3/8	1	1
13	4.55	5.85	7	1 3/4	1 1/2	2
14	8.50	10.50	9	2 1/4	2	4

Skene Bulwark Bow Chocks

CAST BRONZE



Fig. 751

Lgth. In.	Pol. Bronze Per Pair	Chrom. Plated Per Pair	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Pair Lbs.
6	\$7.65	\$11.25	1	1 1/4	2 1/4	2 3/4
7	11.00	14.25	1 1/4	1 1/2	2 3/4	4 1/4

Bulwark Bow Chocks

CAST BRONZE



Fig. 768

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$14.50	\$17.50	10	1	1 7/8	1
2	18.00	22.00	11 1/4	1 1/4	2 1/4	1 1/4
3	22.00	27.50	11 1/4	1 1/2	2 1/2	1 1/2

Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

Lgth. In.	Pol. Bronze Each	Chrom. Plated Each	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Each Lbs.
6	\$6.25	\$8.50	1 1/4	1 1/2	2 3/4	2

Bulwark Stern Chocks

CAST BRONZE



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$9.75	\$11.50	9 1/4	1 3/8	2 3/8	1 1/2
2	11.00	13.75	11 1/2	1 3/4	3	1 3/4

Comb. Bitt and Rope Deck Pipes

CAST BRONZE

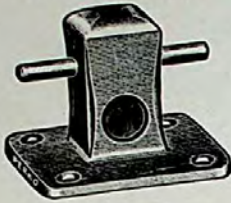


Fig. 431

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	\$7.00	\$ 8.50	4 1/2 x 4 1/2	3 1/2	3/4
2	13.50	16.50	6 x 6	5	1

Rope Deck Pipes

GALVANIZED CAST IRON OR CAST BRONZE



Fig. 741

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

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$3.25	\$6.50	\$8.45	\$10.00
2	4.85	8.10	10.40	12.00

Mooring Bitts

CAST BRONZE

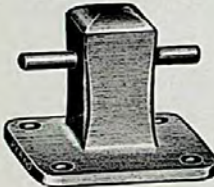


Fig. 608

No.	Size Base Inches	Height Inches	Weight Lbs.
1	3 x 3	2 1/2	7/8
2	4 1/2 x 4 1/2	3 1/2	1 1/8
3	6 x 6	5	5 3/8
4	7 x 7	6 1/2	12

No.	Polished Bronze Each	Chromium Plated Each
1	\$4.00	\$ 5.75
2	5.50	7.25
3	11.00	14.00
4	17.00	20.00

Fender Hooks

GALV. MALLEABLE IRON OR FORGED BRONZE



Fig. 547

No.	Galv.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches
1	\$.20	.25	.45	\$.80	5/8	1 3/8 x 1 1/4
2	.60	.60	.85	1.35	1/2	2 1/4 x 1 3/4

Note—Bronze fender hooks in both sizes are forged bronze, not cast.

Riding Bitts

GALVANIZED CAST IRON



Fig. 926

Size No.	Galv. Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches	Weight Pounds
00	\$3.00	3 1/2	2 1/2 x 2 1/2	1/4	1 1/2
0	3.50	4 1/2	3 x 3	3/8	2 1/4
01	4.60	5 3/4	3 1/2 x 3 1/2	3/8	4
1	5.10	6 3/4	5 x 5	1/2	6
1 1/2	9.30	8 1/4	5 1/2 x 5 1/2	3/8	9
2	12.75	10	5 1/2 x 7 1/2	3/8	18

Ring Buoy Holders

CAST BRONZE



Fig. 1017

The natural spring tension of the hook holds the buoy fast but ready for instant use.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Height Overall Inches	Weight Pounds
\$1.10	\$1.85	\$2.50	3	4 1/2	1/2

Flush Flag Pole Socket

GALVANIZED CAST IRON—CAST BRONZE

Bow



Fig. 218

Stern



Fig. 219

Inside Diam. Inches	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Diam. Flange Inches	Depth Socket Inches	Wt. Ozs.
3/4	\$.45	\$1.10	\$1.65	2	1 1/2	4 1/2
1	.50	1.25	1.85	2 3/8	1 3/4	6
1 1/4	.65	1.65	2.20	2 3/8	2	10
1 1/2	1.00	2.25	2.95	3 1/8	2 3/8	16

Upright Flag Pole Socket

ROUND BASE
CAST BRONZE

Bow



Fig. 220

Stern



Fig. 221

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$1.50	\$2.10	2 1/8	1 3/4	7
1	2.10	2.70	2 1/2	2	8 1/2
1 1/4	2.60	3.20	2 3/4	2 1/8	11
1 1/2	3.50	4.20	3	3	16

Upright Flag Pole Socket

GALVANIZED CAST IRON
SQUARE BASE

Bow



Fig. 570

Stern



Fig. 571

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Ounces
3/4	\$.60	1 3/4	2 x 2	5 1/2
1	.80	2 1/4	2 1/4 x 2 1/4	11
1 1/4	1.25	2 3/4	2 3/4 x 2 3/4	13
1 1/2	1.75	3 1/2	3 x 4	24

Outrigger Pole Sockets

BRASS



Fig. 1100

A well made heavily constructed socket of heavy brass with cast bronze brackets for mounting on rail or deck house.

No.	Pol. Brass Each	Chrom. Plated Each	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Wt. Lbs.
1	\$ 9.80	\$11.80	1 7/8	10 1/4	3 3/8	3
2	10.50	12.50	2 3/8	12	4	3 1/4

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.

Each	Inside Diam. Socket Inches	Length Socket Inches	Diam. Plate Inches	Weight Pair Pounds
\$11.00	1 7/8	10	3	6 3/4

Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

Each	Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
\$4.50	12 3/4	5	2 1/2 x 10	1 1/3

Ribbed Socket Rowlocks
GALVANIZED—CAST IRON



Fig. 638

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.65	\$.45	\$.30	1 3/4	1 1/8
1	.70	.50	.30	2	1 1/4
2	1.00	.70	.45	2 1/4	1 3/4

Davis Pattern Rowlocks
GALVANIZED MALLEABLE IRON OR BRONZE

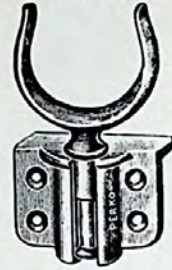


Fig. 641

Size No.	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.95			1 3/4	2
1	2.00	\$3.00	\$5.30	2	2
2	3.00			2 1/4	2 3/4

Standard Socket Rowlocks
GALVANIZED MALLEABLE IRON



Fig. 639

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.00	\$.75	\$.35	1 3/4	1 1/8
1	1.00	.75	.35	2	1 1/4
2	1.60	1.25	.50	2 1/4	1 3/4
3	2.45	1.90	.70	2 1/2	2 3/8

Round Socket Rowlocks
GALVANIZED IRON



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	\$1.00	\$.85	\$.35	2	1 1/8
1	1.05	.90	.35	2 1/4	1 1/4
2	1.55	1.10	.50	2 1/2	1 1/2

GALVANIZED CAST IRON

1	.75	.55	.30	2 1/4	1 1/4
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North River Rowlocks
GALVANIZED MALLEABLE IRON



Fig. 843

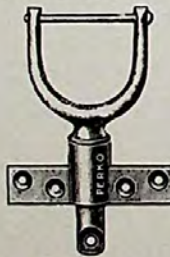


Fig. 644

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
643	\$1.35	\$1.10	\$.35	2 1/8	1 1/2
644	1.65	1.10	.70	2 1/8	1 1/2

Boston Socket Rowlocks
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 545

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$1.00	\$.85	\$.35	1 3/4	7/8
1 Galv.	1.00	.85	.35	2	1
0 Pl. Bronze	1.95	1.50	.65	1 3/4	7/8
1 Pl. Bronze	2.00	1.55	.65	2	1
0 Pol. Bronze	3.30	2.30	1.20	1 3/4	7/8
1 Pol. Bronze	3.40	2.40	1.20	2	1

With Chain add \$.30 per pair to above prices.

Boston Side Plate Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 646

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$1.70	\$.85	\$1.00	2	1 1/2
0 Pl. Bronze	2.60	1.50	1.25	1 3/4	1 1/4
1 Pl. Bronze	2.70	1.55	1.30	2	1 1/2
0 Pol. Bronze	4.20	2.30	2.30	1 3/4	1 1/4
1 Pol. Bronze	4.40	2.40	2.40	2	1 1/2

With Chain add \$.30 per pair to above prices.

Side Plate Rowlocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 645

Size No.	Complete Per Pair	GALVANIZED		Opening Inches	Weight Per Pair Pounds
		Horns Only Per Pair	Sockets Only Per Pair		
0	\$1.35	\$.75	\$.70	1 3/4	1 3/8
1	1.35	.75	.70	2	1 1/4
PLAIN BRONZE					
1	2.95	1.85	1.20	2	1 3/4
POLISHED BRONZE					
1	4.30	2.65	1.70	2	1 3/4

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.....	\$1.45
Leathers Only—7x6 1/2 Inches.....	1.00
Buttons Only—1/2x13 Inches.....	.50

Copper Oar and Paddle Tips



Fig. 794



Fig. 788

Made of soft sheet copper, will fit any oar and paddle.

Fig. 794 Oar Tips—per Pair.....	\$.50
Fig. 788 Paddle Tips—Each.....	.25

Boat Hooks

GALVANIZED MALLEABLE IRON AND BRONZE

SHARP POINTS



Fig. 223

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
0	\$.90	\$2.00	\$3.00	1	7 1/4
1	1.10	2.25	3.25	1 1/4	8 1/4
2	1.50	3.00	4.00	1 1/2	9 3/8
3	2.25			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	\$1.00	\$2.25	\$3.75	1	7 3/8
4	1.20	2.40	4.00	1 1/4	8 1/4
5	1.50	3.20	4.75	1 1/2	9 3/8
6	2.25			2	9 1/2

Boat Hook Holders

SPRING BRASS

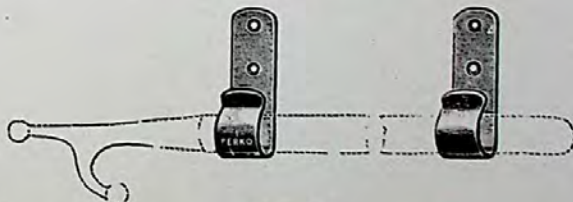


Fig. 490

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
\$.75	\$1.10	3 1/2	1	1 1/2



Bow Plates
CAST BRONZE



Fig. 181

	Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Diam. Eye Inches	Weight Ounces
	\$1.90	\$3.00	4 1/8 x 4 3/8	3/4	10

Combination Bow Plates
CAST BRONZE



Fig. 543

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Diam. Rope Inches
1	\$4.40	\$5.50	3 1/4	4 1/4	Up to 3/8
2	5.25	6.60	3 3/4	4 3/4	Up to 1

Bow Eyes
CAST BRONZE



Fig. 303

No.	Metal in Eye Inches	Length of Straps Inches	Extreme Length Inches	Inside Diam. Eye Inches	Wt. Ozs.
1	3/8	1 3/4	3	3/4	3 1/2
2	1/2	2 3/8	3 7/8	7/8	5
No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
1	\$.55	\$.90	\$1.50		
2	.85	1.25	1.90		

Bow Rings
CAST BRONZE

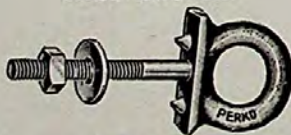


Fig. 238

For towing or mooring small boats. Points under shoulder prevent turning or twisting of eye.

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	I. D. Eye Inches	Lgth. Shank Inches	Diam. Shank Inches	Wt. Ozs.
\$.75	\$1.25	\$1.60	1	3 1/8	3/8	6

Ring on Plate
GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 10 in Lbs
1	\$.85	1 1/2	2 x 2 x 1/4	33
2	1.00	2	2 1/4 x 2 1/4 x 1/4	50

Ring on Plate
CAST BRONZE—STREAMLINE PATTERN



Fig. 182

No.	Polished Bronze Each	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches
1	\$1.60	\$2.30	2 3/4	1 1/2	1 1/2
2	1.85	2.60	3 1/4	1 7/8	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
\$.70	\$1.20	\$1.80	1 1/2	3 1/2	3/4

Straps only, see Fig. 882.

Rings with Straps
GALVANIZED MALLEABLE IRON OR CAST BRONZE—HEAVY PATTERN



Fig. 1020

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Strap Inches
1	\$.60	\$.70	\$1.20	\$1.80	1 1/2	4 1/8
2	.75				1 3/4	4 1/8

Bow Lifting Handle

CAST BRONZE

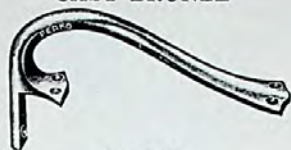


Fig. 363

A strong good looking handle for small boats, with integral stem band for appearance and additional lifting ability.

Pol. Bronze Each	Chromium Plated Each	Length Overall Inches	Height Above Deck Inches	Length Stem Band Inches	Wt. Ozs.
\$1.90	\$3.00	6½	2	1½	9

Lifting Handle

FOR BOW OR TRANSOM
CAST BRONZE



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	Weight Oz.
6¾	2	1¼	3¾ x 1½	12
Polished Bronze Each			Chromium Plated Each	
\$1.50			\$2.10	

Lifting Handles

FOR TRANSOM
CAST BRONZE

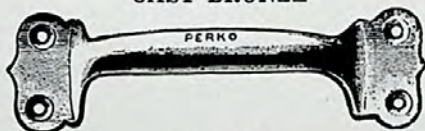


Fig. 775

No.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length Inside Inches	Weight Ounces
1	\$.60	\$.80	4¼	2¾	2
2	.95	1.35	5¾	3¾	4

Hatch or Lifting Handle

CAST BRONZE



Fig. 185

Polished Bronze Each	Chrom. Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$1.20	\$1.90	5	1½	3¼ x 1	6

Lifting Rings and Keel Plates

CAST BRONZE



Fig. 415



Fig. 446

Keel plate is fastened to inside of keel by bolts and connected to ring on deck by tie rod.

Polished Bronze Each	Chromium Plated Each	I. D. Eye Inches	Stock in Eye Inches	Threaded for Rod Inches	Size Flange Inches
\$4.50	\$5.50	1¾	½	¾	3 x 2¼

Fig. 415

Plain Bronze Each	Size Base Inches	Height Inches	Threaded for Rod Inches	Weight Oz.
\$1.40	3 x 1¾	1½	¾	7

Fig. 446

Flush Hatch Lifting Handle

CAST BRONZE--SAFETY TYP



Fig. 774

No recess to catch heels, chair or table legs, etc.

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Inside Handle Inches	Weight Ounces
\$2.50	\$3.75	3 x 2¼	1¾ x 1	6

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
\$1.50	1¾	3	¾	6

Windshield Brackets

FOR RUNABOUTS & OUTBOARD MOTOR BOATS
CAST BRONZE OR DIE CAST ZAMAC METAL

All grooved for 1/4 inch glass, end brackets beveled to match the crown of most decks. All center brackets are two piece for quick assembly and easier installation. All brackets are open at the top.

CAST BRONZE—50 DEGREE ANGLE

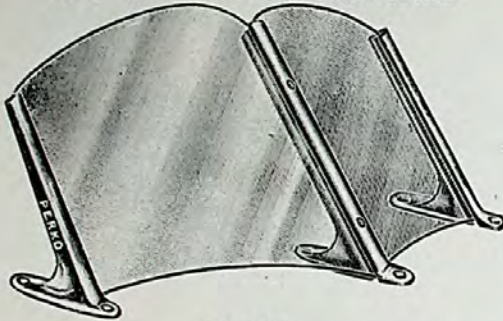


Fig. 665

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Center Base Inches	Wt. Per Set Lbs.
\$17.50	\$22.50	8 3/4	7	6	4 1/2

ZAMAC METAL (Zinc and Aluminum)

50 DEGREE ANGLE

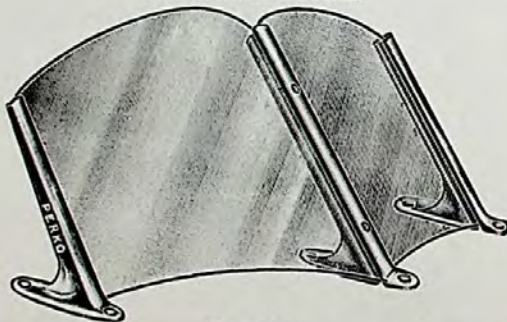


Fig. 750

Chromium Plated Each	Height Center Bracket Inches	Height End Brackets Each	Length Center Base Inches	Weight Per Set Pounds
\$16.50	8 3/4	7	6	4

CAST BRONZE—60 DEGREE ANGLE

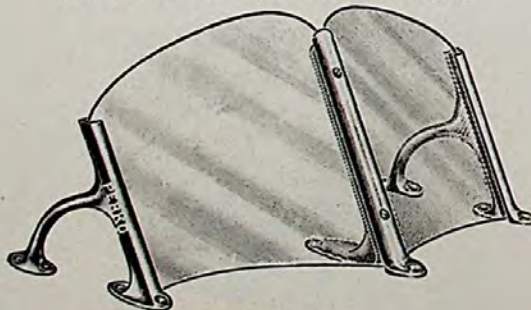


Fig. 930

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Side Base Inches	Weight Per Set Pounds
\$17.50	\$22.50	9 1/4	6 5/8	10	5

Note—Prices do not include glass or rubber insulation.

Improved Windshield Cleaners

ELECTRIC—6 OR 12 VOLTS
BRASS MOTOR COVER—STAINLESS STEEL
ARM AND SHAFT—CHROMIUM PLATED

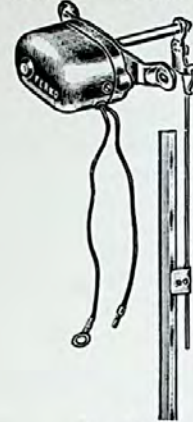


Fig. 395

Inside mounting, for swing out windshields. 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
\$14.00	\$16.00	6	11	2 1/2	1 1/4

Supplied for outside mounting to order. Prices same as above.

Windshield Adjusters

CAST BRONZE

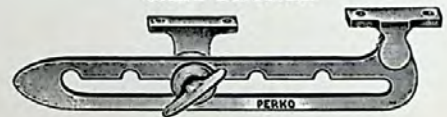


Fig. 82

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches
1	\$8.50	\$11.50	6 1/2	5
2	10.00	12.75	9	7
3	14.30	17.50	12	9 1/2

Note—When ordering 1/2 pair, specify whether for right or left side.

Rubber Insulation for Windshields



Fig. 667



Fig. 668

Live moulded rubber for glass 1/4 inch thick.

Fig. 667—For bottom of windshields—per foot.....\$.30

Fig. 668—For windshield brackets—per foot..... .20

Fig. 667—Supplied only in 11 ft. lengths.

Fig. 668—Supplied in lengths of 20 feet or longer.



Letters and Figures

CAST BRONZE
REGULAR PATTERN

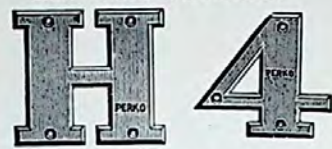


Fig. 348

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
2	\$.40	\$.70	\$1.00	6 1/2
3	.40	.70	1.00	24 1/4
4	1.00	1.50	2.00	36

GOTHIC PATTERN



Fig. 313

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$.40	\$.70	\$1.00	18

Sail Makers Needles

FORGED CAST STEEL—POLISHED
LONG SQUARE



Fig. 410

No.	Per 100	Length Inches	No.	Per 100	Length Inches
17	\$6.00	2	12	\$9.50	3 1/4
16	6.00	2 1/4	11	11.00	3 1/2
15	6.00	2 1/4	10	13.00	3 3/4
14 1/2	6.60	2 1/2	9	16.00	4
14	6.60	2 3/4			
13	7.20	3			

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	\$ 9.50	\$10.00
5	Seaming—Half Hide—Adjustable Buckle	17.00	17.50
6	Roping—Half Hide	16.00	16.50
7	Seaming—Heavy Hide—Adjustable Buckle	28.00	28.50
10	Seaming—U. S. Navy Type—Full Hide	31.00	31.50
11	Roping—U. S. Navy Type—Full Hide	34.00	34.50

Non Skid Step Plates

WITH MOULDED RUBBER STEP PADS
CAST BRONZE—CHROMIUM PLATED

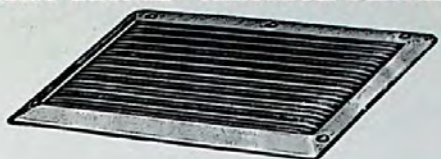


Fig. 1043

No.	Complete Each	Frames Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$5.50	\$4.00	\$1.40	8 1/2 x 3 1/2	3/4
2	7.00	5.50	1.65	11 1/2 x 5 1/2	1 3/4

New Rubber Step Plates

HEAVY CORRUGATED RUBBER WITH MONEL METAL FRAME AND MONEL METAL SCREWS



Fig. 1044

A good item for use on runabouts, cruisers, sailboats, etc.

No.	Complete Each	Extreme Dimensions Inches	Thickness Inches	Weight Pounds
3	\$3.00	8 1/2 x 3 1/2	1/4	1/2
4	3.50	10 x 4	1/4	3/4
5	4.50	13 x 5	1/4	1

Special Shapes Rubber Step Plates and Pads

HEAVY CORRUGATED RUBBER WITH MONEL METAL FRAME AND MONEL METAL SCREWS



Fig. 1057

We can supply the above in almost any practical shape or size, for use as step plates, stair cushions, deck pads, transom plates, etc.

Send drawing or template. State quantity. Price on application.



Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Of 5/8 inch best grade manila rope with oil treated hickory rungs. Rungs are 1 1/4 x 14 inches and spaced 12 inches apart.

Furnished complete with lanyards 6 feet long for making fast on board and thimbles with light lanyard on lower end for lashing down.

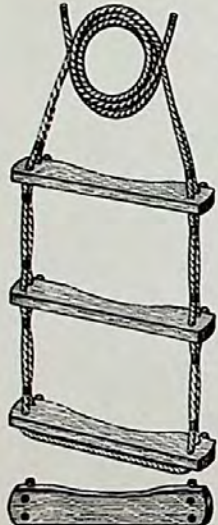
Ladders	Each
2 rung	\$6.00
3 rung	7.25
4 rung	9.00
5 rung	10.50
6 rung	12.50

Additional rungs add \$1.90 each.

Fig. 991

Rope Swimming Ladders

WITH FLAT WOOD STEPS CUT OUT FOR TOES AND HAND HOLD.



Steps are 3/4 x 3 3/4 x 20 inches and spaced 12 inches apart.

Of 5/8 inch best grade manila rope with ash steps, varnished.

Furnished complete with lanyards 6 feet long for making fast on board.

Ladders	Each
2 step	\$9.75
3 step	12.00
4 step	14.50
5 step	17.00
6 step	20.00

Additional steps add \$2.75 each.

Fig. 992

Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS



Each rung is 1 1/4 x 14 inches and steps are spaced 12 inches apart.

Of first grade 5/8 inch manila rope. Selected ash sides and steps.

Furnished complete with lanyards 6 feet long for making fast on board, and thimbles with light lanyard on lower end for lashing down.

Ladders	Each
2 step	\$16.00
3 step	20.00
4 step	26.00
5 step	31.00
6 step	36.50

Additional steps add \$5.75 each.

Fig. 993

Ladder Locks

FOR COMPANIONWAY OR UPPER BERTH
CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Ounces Per Set
1 1/4	1	1 3/4	12
Plain Bronze Per Set	Polished Bronze Per Set	Chromium Plated Per Set	
\$2.25	\$3.75	\$6.00	

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 1/2 x 3 3/8	4
Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$11.50	\$15.50	\$3.50	\$5.00

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 3/4	3 1/4 x 2	4
Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$11.25	\$15.25	\$3.00	\$4.25



Folding Boarding Ladder

MAHOGANY WITH CAST BRONZE FITTINGS
OPENS FROM 3 STEPS TO 6 STEPS

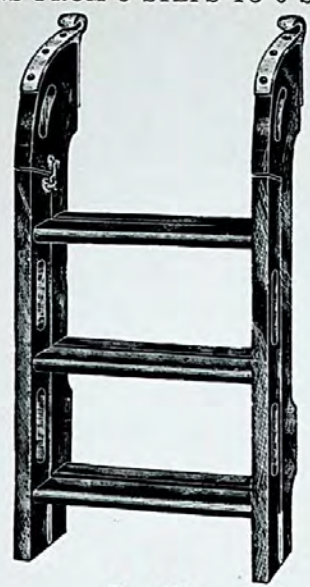


Fig. 558

Made of high quality mahogany, varnished. Supplied complete with plates for hanging and polished bronze or chromium plated fittings.

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
\$40.00	\$48.00	51	30	15	12 1/2

Spare hinges, polished bronze \$6.00. Chromium plated \$7.00 per pair.

Swivel Fishing Chair

MAHOGANY WITH CAST BRONZE FITTINGS
DEMOUNTABLE—WITH COVER FOR DECK PLATE

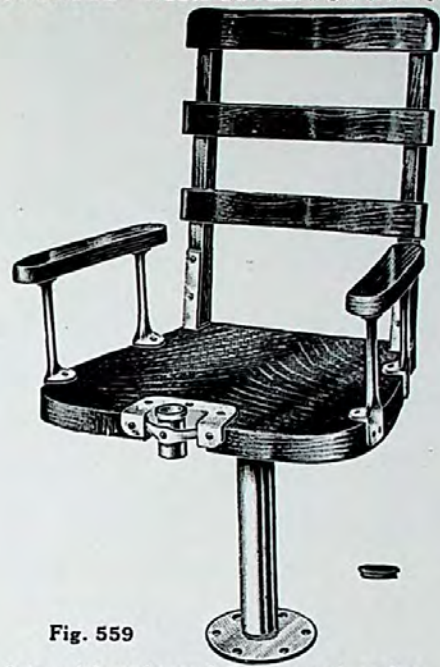


Fig. 559

Complete with universal fishing rod socket.

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Height of Seat Inches	Dimensions of Seat Inches	Diam. Deck Flange Inches	Weight Pounds
\$90.00	\$100.00	18	19x22	7	45

"Yacht" Ash Tray

DIE CAST ZAMAC METAL (Zinc and Aluminum)
CHROMIUM PLATED



Fig. 378

A very attractive nautical ash tray for a boat, yacht club or home.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$3.25	5 3/4	1 3/4	12

Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Each	Length Inches	Weight Per 100 In Pounds
\$.55	5	31

Folding Stools

VARNISHED SEAT—CAST BRONZE BRACKET

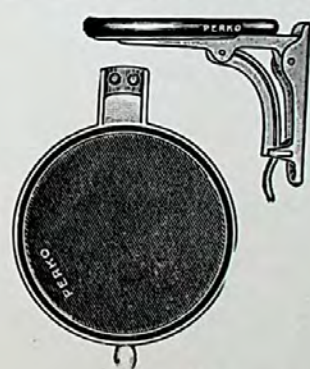


Fig. 1009

No.	Each	Diam. Seat Inches	Projection Inches	Length Bulkhead Bracket Inches	Weight Pounds
1	\$12.00	12	12 1/2	8 1/4	5 1/4
2	14.75	14	14 1/2	11 1/4	8

Dart Shank

IRON SHANK—CAST BRONZE SOCKET



Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.
Each \$2.25



Stanchion Posts

GALVANIZED CAST IRON OR BRONZE



Fig. 614—For End
Fig. 615—For Center



Fig. 616—For Corner
Fig. 617—For Bow

Size No.	Galv. Each	Polished Bronze Each	Chromium Plated Each	Extreme Height of Post Inches	Bored For
1	\$.60	\$1.10	\$2.10	2	5/8" Rod
1 1/2	.60	1.10	2.10	2	1/4" Pipe
2	.75	1.30	2.30	2 1/2	5/8" Rod
2 1/2	.75	1.30	2.30	2 1/2	1/4" Pipe
3	.90	1.50	2.50	3	5/8" Rod
3 1/2	.90	1.50	2.50	3	3/8" Pipe
5	1.75	3.50	4.50	4	3/4" Rod
5 1/2	1.75	3.50	4.50	4	1/2" Pipe

Hand Rail Sockets

CAST BRONZE



Fig. 215

Made for end or center of rail. 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	5/8 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	\$1.90	\$1.90	\$3.00	\$3.00
1 1/4	2.85	2.85	4.00	4.00

Please specify center or end and size when ordering.

Grab Rails

CAST BRONZE POSTS—BRASS TUBING



Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1 1/4 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$6.00	\$8.00	\$6.50	\$8.50
8	6.25	8.25	6.75	8.75
12	6.50	8.50	7.00	9.00
18	6.75	8.75	7.25	9.25
24	7.50	9.50	8.00	10.00
30	8.25	10.25	8.75	10.75
36	9.00	11.00	9.50	11.50
42	9.75	11.75	10.25	12.25

Can be furnished with middle post and in special lengths if desired. Price on application.

Posts only, see Fig. 380.



Fig. 380

No.	Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Each Pounds
1	2 1/2	3 3/8	1 or 1 1/8	3 3/8
2	3	3 1/2	1 1/4	1 3/4

No.	Polished Bronze Each	Chromium Plated Each
1	\$2.50	\$3.60
2	5.00	6.50

Furnished for center mounting when desired, please specify.

Rail Hinge

CAST BRONZE



Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$6.25	\$7.75	1 1/2 x 2 1/2	5	1 7/8
2	6.75	8.25	1 3/8 x 3	3 3/8	1 3/4

Flush Rail Lock

CAST BRONZE

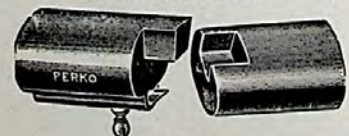


Fig. 123

Lies flush with top of rail when closed. Strong spring catch on bottom to hold rail end in position

No.	Polished Bronze Per Set	Chromium Plated Per Set	Size Rail Inches	Length Inches	Weight Pounds
1	\$6.75	\$8.25	1 1/2 x 2 1/2	5	1 7/8
2	7.25	8.75	1 3/8 x 3	3 3/8	1 3/4

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	Length Inches	Polished		Thickness Inches
		Brass Each	Chromium Plated Each	
1 1/4	60	\$2.85	\$3.50	.045
1 1/4	60	3.00	3.60	.040
1 1/4	72	3.50	4.40	.040
1 1/2	60	3.20	3.90	.040
1 1/2	72	3.60	4.60	.040
2	60	3.35	4.40	.040
2	72	4.00	5.25	.040

Special widths and lengths made to order. Price on application.

Flat Hatch Trim

WROUGHT BRASS—DRILLED



Fig. 243

For finishing around edges of hatch. Drilled and countersunk off center for No. 6 flat head screws.

Width Inches	Length Inches	Polished		Thickness Inches
		Brass Each	Chromium Plated Each	
1 1/4	60	\$2.30	\$2.80	.045
1 1/4	60	2.50	3.00	.040
1 1/4	72	3.00	3.60	.040
1 1/2	60	2.80	3.30	.040
1 1/2	72	3.40	4.00	.040

Supplied in special lengths to order, price on application.

Supplied undrilled and unpolished, price on application.

Dock Rollers

FOR CANOES AND BOATS

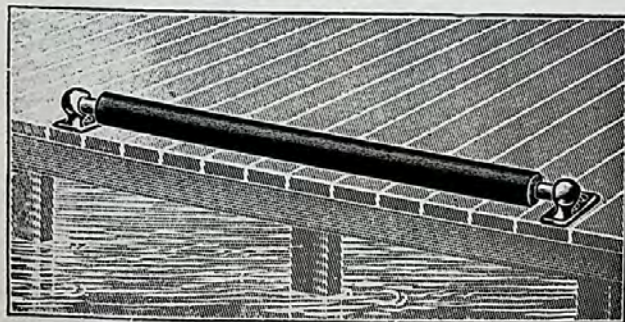


Fig. 400

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

Each	Diam. Shaft Inches	Diam. Rubber Inches	Height Inches	Length Inches
\$17.00	1	1 3/4	2 1/4	30

Fender Moulding

18-8 STAINLESS STEEL, .045" THICK
POLISHED

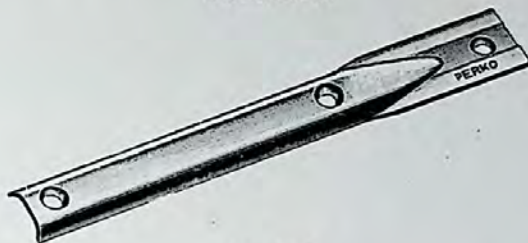


Fig. 110

For all classes of boats. A strong moulding with ends formed as illustrated. 6 foot lengths have both ends formed; 12 foot lengths have one end formed, the other end cut for splicing. All punched and countersunk for No. 7 oval head wood screws, 8 inch centers.

6 Foot Lengths Each	12 Foot Lengths Each	Width Outside Inches	Width Inside Inches	Weight Per Ft. Ounces
\$3.25	\$6.50	7/8	3/4	3

Moulding Ends

CAST BRONZE—CHROMIUM PLATED

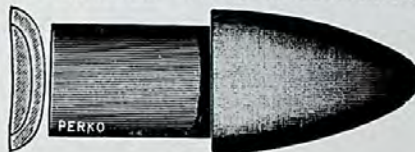


Fig. 111

For finishing cut end of moulding Fig. 110.

Each	Length Overall Inches	Length Head Inches	Width Neck Inches	Weight Ounces
\$1.25	2 3/8	1 1/8	3/4	1 1/2

Hatch Moulding

EXTRUDED BRASS—PLAIN FINISH



End View Full Size

Fig. 232

This type moulding insures a smooth and neat surface, as it is fastened to hatch on side, screws heads are invisible when hatch is closed.

Per Foot	Width Surface Inches	Depth Inches	Weight Per Foot Ounces
\$.86	3/4	1 1/2	9

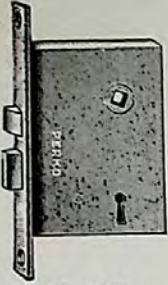
Supplied only in standard lengths of 12 feet.

Mortise Locks

CAST BRONZE

Rim Locks

CAST BRONZE



Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

Fig. 944

Fig. 1045

No.	Pol. Bronze Each	Chrome Plated Each	Case Inches	Facing Inches	Back set Inches	Spindle Hub Inches
1	\$5.50	\$8.00	2 3/4 x 2 x 1/2	4 1/8 x 1 1/4	1 1/2	1 1/8
2	6.50	9.75	3 1/2 x 2 3/4 x 1 1/8	5 x 3/4	2 1/4	1 3/8

No.	Pol. Bronze Each	Chrome Plated Each	Size Case Inches	Spindle Backset Inches	Hub Backset Inches
1	\$6.50	\$9.50	2 1/2 x 2 x 1/2	1 1/8	1 1/8
2	7.50	10.50	3 3/4 x 2 1/2 x 3/8	1 3/8	1 1/2

Mortise Lock Sets

CAST BRONZE

Rim Lock Sets

CAST BRONZE

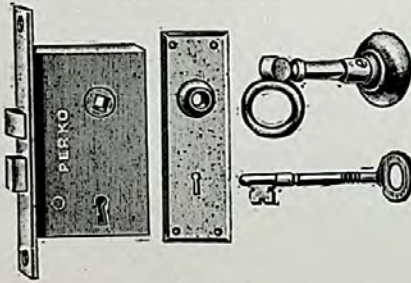


Fig. 945

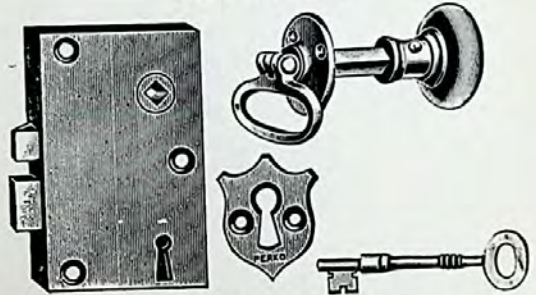


Fig. 1046

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

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

SET A

With Combination Escutcheons, Round Knob and Drop Handle

	Pol. Bronze	Chrom. Plated
Size No. 1, Price Per Set.....	\$10.00	\$13.75
Size No. 2, Price Per Set.....	11.50	16.00

	Pol. Bronze	Chrom. Plated
Size No. 1, Price Per Set.....	\$11.00	\$14.50
Size No. 2, Price Per Set.....	12.00	16.00

SET B

With Shield Escutcheons, Round Knob and Drop Handle

SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set.....	\$ 9.00	\$12.75
Size No. 2, Price Per Set.....	10.50	14.50

Size No. 1, Price Per Set.....	\$10.50	\$14.00
Size No. 2, Price Per Set.....	11.00	15.00

SET C

With Shield Escutcheons and Two Round Knobs

SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set.....	\$ 9.50	\$13.00
Size No. 2, Price Per Set.....	11.00	15.00

Size No. 1, Price Per Set.....	\$11.00	\$14.50
Size No. 2, Price Per Set.....	11.50	15.75

SET D

With Combination Escutcheons and Two Round Knobs

SET D

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set.....	\$10.50	\$14.00
Size No. 2, Price Per Set.....	12.00	16.00

Size No. 1, Price Per Set.....	\$11.25	\$14.75
Size No. 2, Price Per Set.....	12.25	16.50

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 1/2

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 1/2

All of the above sets can be furnished with oval knobs if desired—Price on application.

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

Extra keys for above locks furnished to order.

Tubular Lock Sets

ALL BRASS—FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

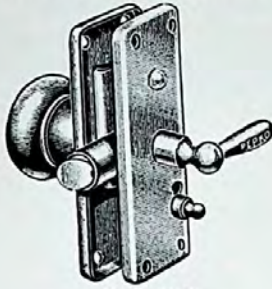


Fig. 567

Polished Brass Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back-set Inches
\$3.50	\$4.75	7/8 to 1 1/8	4 3/8 x 1 5/8	1 3/4	1 3/8

Door Knobs

CAST BRASS

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs

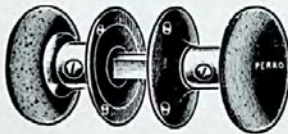


Fig. 1048

Diam. Knob Inches	Polished Brass Per Set	Chromium Plated Per Set	Size Spindle Inches
1 3/4	\$3.85	\$4.85	1/16

Round Knob and Drop Handle

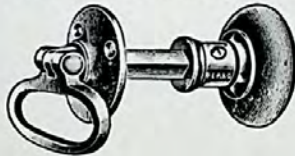


Fig. 1049

Diam. Knob Inches	Polished Brass Per Set	Chromium Plated Per Set	Size Spindle Inches
1 3/4	\$3.50	\$4.50	1/16

Knobs for Rim Locks have One Rosette

Knobs for Mortise Locks have Two Rosettes

Drawer Knobs

BRASS—FOR DRAWERS UP TO 1 1/2" THICK

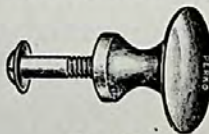


Fig. 925

No.	Polished Brass Per Dozen	Chromium Plated Per Dozen	Diameter Inches	Weight Per Dozen Ounces
1	\$4.20	\$6.00	1	12
2	6.00	7.50	1 1/4	18

Cupboard Catches

CAST BRASS

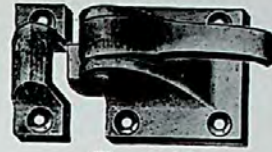


Fig. 1102

Furnished complete with screws.

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.40	\$2.00	1 1/2 x 1 1/2	1 1/2
2	1.40	2.00	1 1/2 x 1 1/2	1 3/4

No. 2 has 3/8 inch offset.

Cupboard Turns

WROUGHT BRONZE

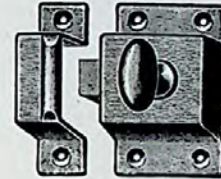


Fig. 1105

Furnished complete with screws.

Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
\$1.25	\$1.75	2 1/4 x 1 1/2	3

Cupboard Turns

CAST BRASS

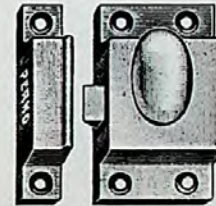


Fig. 949

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.50	\$1.85	1 3/4 x 1 1/8	2 1/2
2	1.75	2.50	2 1/8 x 1 1/2	3 3/4

Cupboard Catches

CAST BRASS

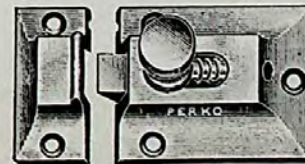


Fig. 950

Polished Brass Each	Chromium Plated Each	Without Strike Inches
\$1.15	\$1.50	1 1/2 x 1
1.15	1.50	1 3/8 x 1 1/4
1.30	1.80	1 3/8 x 2

Flush Ring Catch CAST BRASS



Fig. 1051

Size
Inches
1 3/4 x 1 1/4

Polished Brass Each	Chromium Plated Each
\$1.15	\$1.50

Weight
Ounces
1 1/2

Flush Ring Pulls CAST BRASS



Fig. 841

No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$.70	\$.90	1 1/4 x 1 1/2	1
2	.75	.95	1 1/2 x 2	1 1/2
3	.95	1.50	1 7/8 x 2 1/2	2 3/4
4	1.30	1.95	2 1/4 x 2 3/4	5

Cabinet Latches CAST BRASS



Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

Polished Brass Each	Chromium Plated Each	Length Overall Inches	Length Lever inches
\$.90	\$1.15	2 1/2	2

Refrigerator Fasteners CAST BRASS



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.

No.	Pol. Brass Each	Chrom. Plated Each	Lgth. Over- all In.	Size Lever In.
1	\$1.75	\$2.50	5	4

Barrel Bolts CAST BRASS

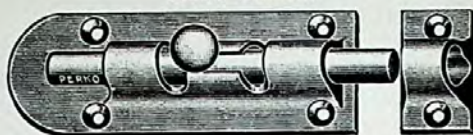


Fig. 947

No.	Pol. Brass Each	Chrom. Plated Each	Length Rod Inches	Size Base Without Strike Inches	Weight Per Dozen Pounds
1	\$.95	\$1.10	2 1/4	2 x 1	1 1/2
2	1.30	1.60	3	3 x 1 1/8	2
3	1.45	1.85	4	3 1/2 x 1 1/4	3

Flush Bolts CAST BRASS—POLISHED

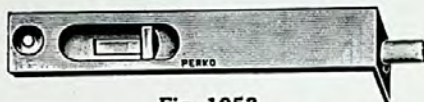


Fig. 1052

No.	Each	Size Inches	Weight Ounces
1	\$1.50	3/8 x 2 1/2	1 1/2
2	1.50	3/8 x 3	2

Ship Bolts CAST BRASS



Fig. 1053

No.	Polished Brass Each	Chromium Plated Each	Size Without Strike Inches
1	\$.95	\$1.30	2 3/8 x 1 1/8
2	1.40	1.95	3 3/8 x 1 3/8
3	1.70	2.25	4 3/4 x 1 5/8

Square Neck Bolts CAST BRASS

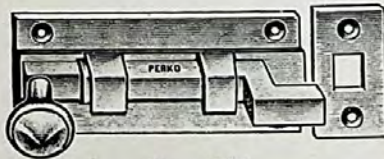


Fig. 1054

No.	Polished Brass Each	Chromium Plated Each	Size Inches
1	\$1.55	\$2.35	3 x 1 1/4
2	1.70	2.60	4 x 1 7/8

Window Bolts CAST BRONZE SPRING TYPE



Fig. 1055

No.	Polished Bronze Each	Chromium Plated Each
1	\$1.25	\$1.75

Base
Inches
1 1/8 x 1 1/4

Boston Hinged Hasps

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 954

Length Opened Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
4	\$.85	\$1.60	\$2.30	\$3.20
6	1.25	2.25	3.50	4.50

Safety Hasps

EXTRA HEAVY CAST BRONZE



Fig. 1060

Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches
\$3.25	\$4.85	4 1/2	1 3/8

Anti-Rattle Door Fastener

CAST BRASS

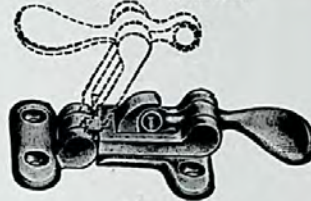


Fig. 1108

Has 1/4 inch hole in lever for padlock.

Polished Brass Each	Chromium Plated Each	Size Base Inches	Weight Ounces
\$1.95	\$3.00	3x2	6

Security Hinged Hasps

CAST BRONZE

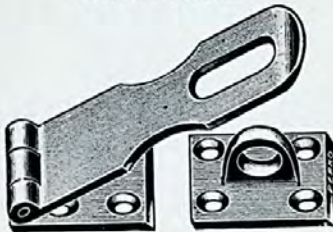


Fig. 955

Length Closed Inches	Polished Bronze Each	Chromium Plated Each	Width Inches	Weight Ounces
3	\$1.50	\$1.75	1	2 1/2
3 3/4	2.00	2.25	1 1/8	4 1/2

Door Holders

SIDE PATTERN
CAST BRONZE

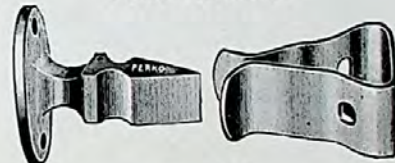


Fig. 1065

Polished Bronze Per Set	Chromium Plated Per Set	Base of Holder Inches	Base of Clip Inches	Projection Inches
\$1.75	\$2.25	1 3/4 x 7/8	2 1/8 x 3/4	2

FLOOR PATTERN

Cabin Door Hooks

CAST BRASS



Fig. 956

Lgth. Hook In.	Pol. Brass Each	Chrom. Plated Each	Wt. Ozs.	Lgth. Hook In.	Pol. Brass Each	Chrom. Plated Each	Wt. Ozs.
1 1/2	\$.60	\$1.00	1	3 1/2	\$.95	\$1.40	2 1/2
2	.65	1.05	1 1/2	4	1.00	1.50	3
2 1/2	.70	1.10	1 3/4	5	1.20	1.70	3 1/2
3	.80	1.20	2	6	1.40	2.00	4



Fig. 1066

Polished Bronze Per Set	Chromium Plated Per Set	Height Holder Inches	Base of Holder Inches	Base of Clip Inches
\$2.10	\$2.60	1 3/4	2 3/8 x 1 3/4	2 1/8 x 3/4

Cupboard Door Holder

BRASS PLATED



Fig. 1178

A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall—1 1/2 x 1 3/8 inches.
Per Dozen \$1.00

Cabin Door Hooks

DOUBLE JOINTED
CAST BRASS



Fig. 957

Lgth. Hook In.	Pol. Brass Each	Chrom. Plated Each	Lgth. Hook In.	Pol. Brass Each	Chrom. Plated Each
2	\$1.20	\$1.60	4	\$2.00	\$2.50
2 1/2	1.25	1.65	5	2.35	2.95
3	1.35	1.70	6	2.50	3.25

Strap Hinges

GALVANIZED MALLEABLE IRON OR BRASS
BRASS PINS



Fig. 120

Length Opened Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.85	\$1.75	\$3.50	\$4.00	$\frac{1}{16}$
6	1.40	2.00	3.75	4.25	$\frac{3}{8}$
8	2.00	2.50	4.25	4.75	$\frac{7}{8}$
10	2.40	3.60	4.80	6.00	$1\frac{1}{8}$
12	3.60	4.80	6.60	8.00	$1\frac{5}{8}$

Port Hinges

GALVANIZED MALLEABLE IRON OR BRASS
BRASS PINS



Fig. 109

Length Opened Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$1.40	\$2.25	\$3.25	\$4.00	$\frac{1}{2}$
6	1.75	3.00	4.50	5.50	$\frac{7}{8}$
8	3.35	4.75	6.60	7.75	$1\frac{1}{2}$
10	4.80	6.00	9.00	10.50	2
12	6.35	11.50	14.50	16.00	$2\frac{5}{8}$

Cuddy Door Hinges

CAST BRASS

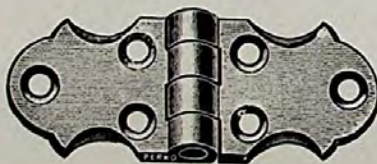


Fig. 951

Length Opened Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$1.50	\$2.10	\$2.50
$3\frac{1}{2}$	1.35	2.60	3.00
4	2.25	3.00	3.50
5	2.60	4.00	4.50

Fast Pin Butt Hinges

CAST BRASS—BRASS PINS

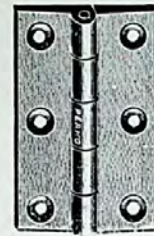


Fig. 952

Size Open Inches	Emery Finish Per Dz. Pairs	Pol. Chrom. Plated Per Dz. Pairs	Size Open Inches	Emery Finish Per Dz. Pairs	Pol. Chrom. Plated Per Dz. Pairs
$1\frac{1}{2} \times 1\frac{1}{4}$	\$9.60	\$18.50	$2\frac{1}{2} \times 2\frac{1}{2}$	\$22.20	\$42.00
$1\frac{1}{2} \times 1\frac{1}{2}$	10.20	13.75	3 x 2	24.60	44.50
2 x $1\frac{1}{4}$	10.80	20.00	3 x $2\frac{1}{2}$	28.20	48.00
2 x $1\frac{1}{2}$	12.00	24.50	3 x 3	31.20	54.00
2 x $1\frac{3}{4}$	13.20	29.00	$3\frac{1}{2} \times 3$	39.60	68.00
2 x 2	15.00	31.00	$3\frac{1}{2} \times 3\frac{1}{2}$	43.80	76.00
$2\frac{1}{2} \times 1\frac{3}{4}$	21.00	37.00	4 x 3	52.20	88.00
$2\frac{1}{2} \times 2$	21.50	38.00	4 x 4	61.80	98.00

Polished Brass, Price on Application
Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—BRASS PINS

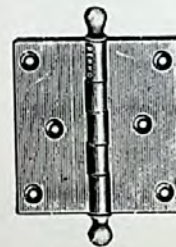


Fig. 953

Size Open Inches	Pol. Brass Per Pair	Chrom. Plated Per Pair	Size Open Inches	Pol. Brass Per Pair	Chrom. Plated Per Pair
$1\frac{1}{2} \times 1\frac{1}{2}$	\$ 1.75	\$ 2.25	3 x $2\frac{1}{2}$	\$ 4.00	\$ 5.10
2 x $1\frac{1}{2}$	2.15	2.85	3 x 3	4.25	5.40
2 x 2	2.60	3.25	$3\frac{1}{2} \times 3$	5.35	6.60
$2\frac{1}{2} \times 2$	2.95	3.85	$3\frac{1}{2} \times 3\frac{1}{2}$	6.00	7.50
$2\frac{1}{2} \times 2\frac{1}{2}$	3.25	4.10	4 x $3\frac{1}{2}$	7.80	9.80
3 x 2	3.85	4.85	4 x 4	10.00	12.50

Skylight or Hatch Hinges

CAST BRASS



Fig. 376

Length Between Joints Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$4.25	\$6.00	\$7.50	$11\frac{1}{4}$
3	5.25	7.00	8.50	$12\frac{1}{4}$
4	6.00	8.00	10.00	13
5	7.50	10.50	13.00	$16\frac{1}{4}$
6	8.00	11.50	14.00	17



Butterfly Hinges

WROUGHT BRASS—PLAIN



Fig. 1058

No.	Per Pair	Length Open Inches	Width at Pin Inches	Weight Per Pair Ounces	Thickness Inches
1	\$.30	2 1/4	3/4	1/2	.035
2	.40	3 1/8	1 1/8	1 1/2	.040

Spring Hinges

WROUGHT BRASS—PLAIN

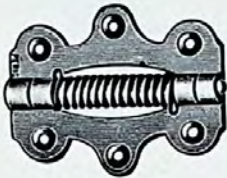


Fig. 1059

No.	Per Pair	Length Inches	Width Open Inches	Weight Per Pair Ounces
1	\$.70	2 3/8	1 1/8	3
2	1.00	3	2 3/8	5

Spring Hinges

CAST BRONZE

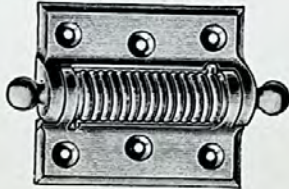


Fig. 1107

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Weight Per Pair Ounces
\$4.25	\$5.50	3	2 1/2	12

Hatch Hinges

CAST BRONZE



Fig. 773

For use with flush hatch cover.

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Weight Per Pair Pounds
\$7.25	\$9.00	3 1/8	2 3/8	1 3/4

Illustration shows one half pair.

Cabinet Hinges

BRASS—POLISHED OR CHROMIUM PLATED
FLUSH OR OFFSET

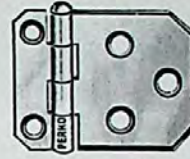


Fig. 772

Packed one dozen pairs per box, complete with screws. Offset is 3/8 inch.

Polished Brass Per Doz. Pairs	Chrom. Plated Per Doz. Pairs	Size Open Inches	Gauge	Weight Per Pair Ounces
\$8.50	\$11.00	2x1 1/2	14	2

Flush or offset, same price, please specify.

Skylight Quadrants

CAST BRONZE



Fig. 449

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches	Weight Per Pair Pounds
1	\$8.75	\$11.00	5	3 1/8	1/2
2	10.50	13.00	8	6 1/2	1 1/2
3	12.65	15.50	10 1/4	8 1/2	2 1/8
4	13.75	17.00	12	10 1/2	2 1/4

Hatch Adjusters

CAST BRONZE

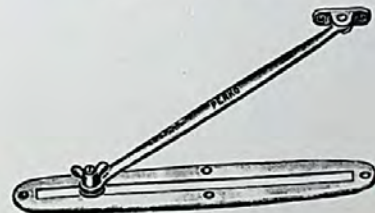


Fig. 797

Polished Bronze Each	Chrom. Plated Each	Length Arm Inches	Length Adjustment Inches	Length Plate Inches	Weight Ounces
\$4.20	\$5.50	10	9 1/2	10 3/4	13

Casement Adjuster

ALL BRASS—HEAVY PATTERN

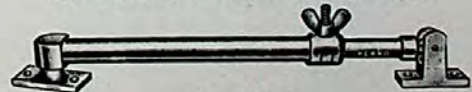


Fig. 1179

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
\$3.85	\$5.25	11	20	1/2

Sash Hinges
CAST BRONZE



Fig. 418

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

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 1/4 x 3/8	2 1/2 x 1 1/4	6	3/8	\$2.50	\$3.90
2	1 1/4 x 3/8	3 1/4 x 1 1/4	7	3/8	3.00	4.50

Combination Sash Hinges
WITH CURTAIN ROD SOCKETS
CAST BRONZE

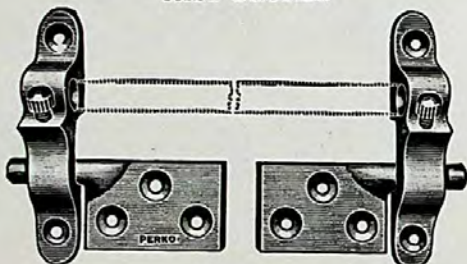


Fig. 960

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 1/4 x 3/8	2 3/4 x 1/2	7	3/8	\$3.00	\$4.50

Sash or Skylight Fastener
CAST BRONZE



Fig. 770

Size Inches	Emery Finish Each	Polished Bronze Each	Chromium Plated Each
3/8 x 4	\$2.75	\$3.50	\$4.50

Wardrobe Hooks
CAST BRASS



Fig. 635

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Inches	Weight Ounces
\$.40	\$.60	1 3/4	1	1

Sash Anti Rattlers
CAST BRONZE

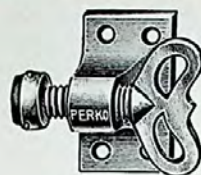


Fig. 839

Furnished with leather tip to prevent defacing of woodwork. Size of base 1 1/8" x 1".
Polished Bronze, Each.....\$1.50
Chromium Plated, Each.....2.20

Sash Lifts
CAST BRONZE



Fig. 776

No.	Size of Plate	Polished Bronze Each	Chromium Plated Each	Weight Ounces
1	1/2 x 1 1/2	\$.40	\$.75	1/2
2	3/4 x 1 1/4	.40	.75	3/4

Sash Fasteners
LEFT OR RIGHT HAND
CAST BRONZE



Fig. 777

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$.80	\$1.25	1 3/4 x 1	1 1/2

Please specify left or right hand

Coat and Hat Hooks
CAST BRASS



Fig. 959.

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Base Inches	Weight Ounces
\$.50	\$.70	2	1 1/4	2 1/2

Drawer Pulls

CAST BRASS



Fig. 958

Width Overall Inches	Polished Brass Each	Chromium Plated Each	Width Inside Inches	Weight Ounces
3	\$.50	\$.75	2 1/8	2
4	.60	.90	2 7/8	3

Door Buttons

CAST BRASS



Fig. 948

No.	Diam. Inches	Polished Brass Complete Per Dozen		Chromium Plated Without Plate Per Dozen	
		Complete Per Dozen	Without Plate Per Dz.	Complete Per Dozen	Without Plate Per Dz.
1	1 1/2	\$4.50	\$1.65	\$8.50	\$3.25
2	1 3/4	5.25	2.20	9.00	3.65
3	2	6.50	2.50	10.25	4.60

Door Stops

CAST BRONZE RUBBER TIP



Fig. 1109

Furnished complete with screws.

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$1.50	\$1.90	2	1 1/8	4

Elbow Catches

CAST BRASS



Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Weight Ounces
1 1/2 x 3/8	\$.40	\$.60	\$.80	1

Friction Catches

ALL BRASS—ADJUSTABLE TENSION

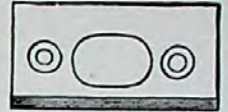
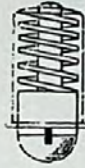


Fig. 178

Above cuts are full size. Supplied complete with either round or oblong strike. Please specify.

Per Gross — \$18.50

Curtain or Grommet Hooks

CAST BRASS



Fig. 1000

Plain Brass Per Dozen	Diam. Flange Inches	Length Screw Inches
\$1.40	3/8	1/2

Grommet Hole Cutters

FORGED STEEL



Fig. 903

No.	Each	Diam. Hole Inches	No.	Each	Diam. Hole Inches
0	\$1.30	1/4	5	\$3.95	3/8
1	1.30	3/8	6	4.30	3/4
2	1.50	1/2	7	4.60	7/8
3	1.50	5/8	8	4.95	1 1/8
4	2.00	3/4			

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 Lb.
0	\$4.80	\$4.50	1 1/4
1	5.50	5.50	1 3/8
2	5.65	5.65	1 3/8
3	5.80	5.80	1 7/8
4	6.20	6.20	2 3/8
5	6.60	6.60	2 3/8
6	8.50	8.50	3 1/2
7	11.25		3 3/4
8	12.25		5

Use a wooden mallet with above dies.

Curtain Fasteners

WROUGHT BRASS



Fastener
Fig. 995



Eyelet
Fig. 996



Washer
Fig. 997

Made of stamped brass, for single and double curtains.

Height Overall Single Inches	Height Overall Double Inches	Size Base Inches
3/4	7/8	1 1/4 x 1/2

Complete Sets, Figs. 995-996-997	Brass Finish		Chromium Plated	
	Single Per 100	Double Per 100	Single Per 100	Double Per 100
Figs. 995-996-997	\$16.75	\$21.00	\$23.00	\$31.00
Fig. 995 Only	14.00	16.00	17.25	19.00
Fig. 996 Only	2.00	2.00	3.50	3.50
Fig. 997 Only	1.00	1.00	2.75	2.75

Note—Double fasteners when ordered complete are supplied with two eyelets and two washers for each fastener.

Hand Punch

FOR ABOVE CURTAIN FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 284

Each	Length Overall Inches	Weight Ounces
\$5.00	4	8

Hand Screw Driver

FOR "LIFT THE DOT" STUDS
STEEL WITH WOOD HANDLE



Fig. 290

Each	Length Overall Inches	Weight Ounces
\$2.30	5	2

"Lift The Dot" Fasteners

BRASS



Single
Stud
Fig. 114



Double
Stud
Fig. 115



Clinch
Plate
Fig. 118



Single
Socket
Fig. 116



Double
Socket
Fig. 117

Above cuts are all full size.

Screws on single and double studs are 1/2" No. 8.

Complete Sets, Figs. 114-116-118	Brass Finish		Chromium Plated	
	Single Per 100	Double Per 100	Single Per 100	Double Per 100
Figs. 114-116-118	\$ 9.25		\$16.00	
Complete Sets, Figs. 115-117-118		\$16.00		\$27.50
Fig. 114 Only	3.50		5.25	
Fig. 115 Only		3.50		5.25
Fig. 116 Only	5.25		9.00	
Fig. 117 Only		5.75		9.50
Fig. 118 Only	.75	.75	2.25	2.25

Note—Double fasteners when ordered complete are supplied with two double sockets and two clinch plates for each stud.

Hand Punch

FOR "LIFT THE DOT" FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 285

Each	Length Overall Inches	Weight Ounces
\$3.00	3 3/4	6



Paint Scraper Set

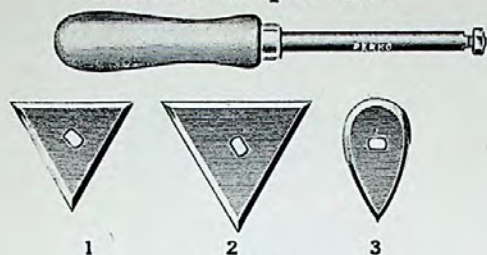


Fig. 1015

Per Set—\$2.50

Set consists of handle with 3 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.

Length Handle—8½ inches.

Paint Scrapers



Triangular
Figs. 625 and 626

Oval
Fig. 918

Fig.	Complete Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Lbs.
625	\$ 9.50	2½x2½	6	2½
626	15.00	3 x 3	9½	5
918	9.50	2½x1½	6	2¾

Ship Scrapers

GIBBS PATTERN—TEMPERED STEEL BLADES



Fig. 920

Each	Blades Only Each	Handles Only Each	Size Blade Inches	Length Inches
\$3.25	\$1.80	\$1.65	4½x½	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
\$12.00	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
\$12.00	15	1	¼	1¾	13

Marline Spikes

POLISHED STEEL
FOR WIRE ROPE



Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$31.00	6
10	33.25	10
12	36.00	12¾
14	38.00	16½
16	44.50	25
18	50.00	30

FOR MANILA ROPE



Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$14.50	5¾
8	14.50	7½
10	16.00	12
12	20.00	17
14	24.00	23½
16	33.00	27
18	42.00	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	\$ 9.00	12x1¾
1	10.50	14x1¾
2	12.00	16x2
3	13.50	18x2
4	21.50	20x2¼
5	33.50	24x3

Caulking Irons

MALLEABLE IRON



Fig. 307

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
00	\$14.25	⅜	5	2	3½
0	14.25	⅝	5½	2½	4½
1	16.00	⅞	5½	2¼	5¼

ANCHOR SHACKLES

DROP FORGED STEEL AND BRONZE

SCREW PIN



Fig. 314

ROUND PIN



Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315.

Size Inches	Galvanized Each	Self Colored Each	Plain Bronze Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Steel Weight Per 100 in Pounds	Steel Approx. Strength in Pounds
$\frac{1}{8}$	\$.36		\$.60	$\frac{7}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	7	3000
$\frac{1}{4}$	.36	\$.34	.60	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	12	4005
$\frac{3}{8}$	.43	.40	.90	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	20	6165
$\frac{1}{2}$	.48	.46	1.35	$1\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	31	7920
$\frac{5}{8}$	.61	.56	1.65	$1\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	47	11925
$\frac{3}{4}$	.73	.67	2.40	2	$\frac{7}{8}$	$\frac{5}{8}$	69	15570
$1\frac{1}{8}$	1.09	.99		$2\frac{1}{2}$	$1\frac{1}{8}$	$\frac{3}{4}$	137	26100
$1\frac{1}{4}$	1.57	1.45		$2\frac{3}{8}$	$1\frac{1}{8}$	$\frac{3}{8}$	219	35280
$1\frac{1}{2}$	2.06	1.82		$3\frac{1}{4}$	$1\frac{1}{2}$	1	319	47700
$1\frac{3}{8}$	2.66	2.31		$3\frac{1}{2}$	$1\frac{3}{8}$	$1\frac{1}{8}$	500	58140
$1\frac{1}{2}$	3.87	3.39		$4\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{4}$	681	68400
$1\frac{3}{4}$	4.84	4.24		$4\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{3}{8}$	950	85500
$1\frac{1}{2}$	6.05	5.32		$4\frac{3}{8}$	$2\frac{1}{4}$	$1\frac{1}{2}$	1218	104400
$1\frac{3}{4}$	7.87	7.02		6	$2\frac{1}{2}$	$1\frac{5}{8}$	1625	124200
2	12.10	10.58		8	3	2	2700	190800
	18.15	15.73		8	$3\frac{3}{8}$	$2\frac{1}{4}$	3725	230400

Bronze Shackles are only furnished with screw pin, Fig. 314.

$\frac{1}{8}$ inch size supplied only with screw pin Fig. 314.

CHAIN SHACKLES

DROP FORGED STEEL

SCREW PIN

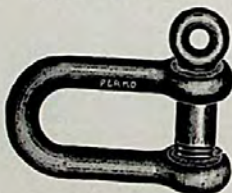


Fig. 338

ROUND PIN



Fig. 339

Prices and Dimensions Below Apply to Both Figs. 338 and 339.

Size Inches	Galvanized Each	Self Colored Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
$\frac{1}{4}$	\$.36	\$.34	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$	10	4700
$\frac{3}{8}$	.43	.40	1	$\frac{1}{8}$	$\frac{3}{8}$	18	7200
$\frac{1}{2}$	.48	.46	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	28	9300
$\frac{5}{8}$	.61	.56	$1\frac{3}{8}$	$\frac{3}{4}$	$\frac{1}{2}$	44	14100
$\frac{3}{4}$	.73	.67	$1\frac{5}{8}$	$\frac{7}{8}$	$\frac{3}{8}$	70	18300
$1\frac{1}{8}$	1.09	.99	2	$1\frac{1}{8}$	$\frac{3}{4}$	130	30800
$1\frac{1}{4}$	1.57	1.45	$2\frac{3}{8}$	$1\frac{1}{4}$	$\frac{7}{8}$	212	41600
$1\frac{1}{2}$	2.06	1.82	$2\frac{3}{4}$	$1\frac{1}{2}$	1	300	56000
$1\frac{3}{8}$	2.66	2.31	$3\frac{1}{8}$	$1\frac{5}{8}$	$1\frac{1}{8}$	470	68800
$1\frac{1}{2}$	3.87	3.39	$3\frac{3}{8}$	$1\frac{7}{8}$	$1\frac{1}{4}$	600	81000
$1\frac{3}{4}$	4.84	4.24	$3\frac{1}{2}$	2	$1\frac{3}{8}$	800	100800
$1\frac{1}{2}$	6.05	5.32	$4\frac{1}{2}$	$2\frac{1}{4}$	$1\frac{1}{2}$	1150	123000
$1\frac{3}{4}$	7.87	7.02	$5\frac{1}{8}$	$2\frac{1}{2}$	$1\frac{5}{8}$	1480	146000
2	12.10	10.58	6	3	2	2340	225000
	18.15	15.73	$6\frac{3}{4}$	$3\frac{3}{8}$	$2\frac{1}{4}$	3200	272700



Wire Rope Thimbles

GALVANIZED FORGED STEEL
FORGED BRONZE AND STAINLESS STEEL



Fig. 466

For Size Rope Inches	Galvanized		Stainless Steel		Length Overall Inches	Width Inside Inches	Wt. Per 100 in Lbs.
	Per 100	Per Dozen	Per Dozen	Per Dozen			
1/8	\$5.30	\$1.35	\$1.80		1 3/4	5/8	2 3/8
3/16	5.30	1.35	1.80		1 3/4	1 1/8	2 3/8
1/4	5.30	1.60	2.00		2	3/4	4 3/8
5/16	6.60	2.15	2.50		2 1/8	1 1/8	5 1/2
3/8	7.90	3.50	3.90		2 3/8	1 1/4	10 3/8
7/16	9.25				2 1/2	1	11 3/4
1/2	10.55				2 7/8	1 1/8	15 1/2
5/8	14.50				3 3/8	1 1/4	27 1/2
3/4	17.15				3 7/8	1 1/2	40
7/8	39.50				5 1/8	1 7/8	84
1	52.80				6 1/2	2 1/8	106
1 1/8	72.50				6 1/2	2 1/2	125
1 1/4	110.00				7	2 3/4	138
1 1/2	182.00				7 1/2	3	250
1 3/4	366.00				10	3 1/2	512
2	366.00				10	3 1/2	600

Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

For Dia. Rope Inches	Galvanized Per 100	I. D. Hole Inches	O. D. Edge to Edge Inches	Weight Per 100 in Lbs.
1/8	\$8.25	3/8	3/4	1 1/2
3/8	8.25	1/2	5/8	2
1/4	10.15	5/8	1	3
1/2	10.45	3/4	1 1/4	5 1/2
5/8	12.65	7/8	1 1/2	9
3/4	14.85	1	1 3/4	17
7/8	19.80	1 1/8	2	25 1/2
1	24.20	1 3/8	2 1/4	34
1 1/8	26.40	1 1/2	2 1/2	38
1 1/4	39.60	1 5/8	2 3/4	48
1 3/8	53.25	2	3	70
1 1/2	66.00	2 3/8	3 1/2	108
1 3/4	165.00	2 3/4	4	150
2	300.00	3	5	180

Sail Thimbles

GALVANIZED MALLEABLE IRON



Fig. 469

*Size Inches	Per Dozen	Diam. Rope Inches	I. D. Hole Inches	Weight Per Doz. in Lbs.
3/4	\$.75	1/4	1/2	1/4
1	.90	5/8	3/4	3/8
1 1/4	1.20	3/8	3/4	5/8
1 1/2	1.55	1/2	1 1/8	7/8
1 3/4	1.95	1/2	1 3/8	1 1/8
2	2.30	5/8	1 1/2	1 1/2
2 1/4	3.15	3/8	1 5/8	2
2 1/2	4.00	3/4	1 3/4	2 3/4
2 3/4	4.75	3/4	2	3
3	5.50	7/8	2 1/8	4 1/4

*Size is from edge to edge across hole.

Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS



Without Shoulder
Fig. 766

With Shoulder
Fig. 767

Size No.	Galv. Per 100	Plain Brass Per Dozen	Pol. Brass Per Dozen	I. D. of Eye Inches	Length Under Eye Inches	Wt. Per 100 in Lbs.
1	\$6.35	\$.90	\$2.70	1/8	1	2 1/2
2	9.65	1.15	3.30	3/8	1 1/4	4 1/2
3	11.65	1.55	7.20	1/2	1 1/2	8
4	17.50	2.00	9.90	3/8	2	12

Wire Rope Clips

MALLEABLE IRON SADDLE
STEEL U-BOLT AND NUTS
GALVANIZED



Fig. 333

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.
3/8	\$10.50	8 1/2	3/8	\$66.00	149
1/4	12.30	16 1/2	1	79.00	190
5/8	13.60	19	1 1/8	125.00	310
3/8	19.00	25	1 1/4	148.00	375
1/2	21.30	32	1 3/8	264.00	560
5/8	24.00	40	1 1/2	283.00	645
3/4	32.40	62	1 3/4	547.00	1085
	46.20	101	2	726.00	1620

Tiller Rope Clamps

GALVANIZED IRON AND CAST BRONZE



Fig. 358

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
1/8	\$.18	\$.24	3/4	1 3/8	1 3/4
1/4	.20	.25	3/4	1 3/4	2
1/4	.25	.33	1	1 3/4	3
5/8	.33	.45	1	2	3 1/2
3/8	.40	.65	1 1/8	2 1/4	5

OPEN TURNBUCKLES

DROP FORGED STEEL—HOT GALVANIZED

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

Diameter and Take-up Inches	Fig. 390 Each	Fig. 391 Each	Fig. 392 Each	Fig. 393 Each	Fig. 394 Each	Overall Length Closed Inches	Opening in Hook Inches	Inside Eye Inches	Inside Jaw Inches	Approx Weight Pounds
★ 1/4 x 4	\$.55	\$.55	\$.55	\$.70	\$.83	8	3/8	1/2 x 3/8	1/8 x 3/8	1/3
★ 1/8 x 4 1/2	.70	.70	.70	.86	1.03	9 1/4	1/2	1/2 x 1/2	1/2 x 3/4	1/2
★ 3/8 x 6	.83	.83	.83	1.03	1.21	11 3/4	5/8	3/4 x 1	1/2 x 1 1/8	3/4
★ 1/2 x 6	1.25	1.25	1.25	1.52	1.80	13	1 1/8	3/4 x 1 1/8	3/8 x 1	1 1/2
1/2 x 9	2.00	2.00	2.00	2.35	2.62	16	1 1/2	3/4 x 1 1/8	3/8 x 1	2
1/2 x 12	2.35	2.35	2.35	2.75	3.17	19		3/4 x 1 1/8	3/8 x 1	2 1/2
★ 3/8 x 6	1.59	1.59	1.59	1.80	2.07	14	1 1/8	1 x 1 3/8	1 1/8 x 1 3/8	3
3/8 x 9	2.41	2.41	2.41	2.75	3.17	17	1 1/2	1 x 1 3/8	1 1/8 x 1 3/8	3 1/4
3/8 x 12	2.90	2.90	2.90	3.30	3.72	20		1 x 1 3/8	1 1/8 x 1 3/8	4 1/2
3/8 x 18		3.58		4.27	4.82	26		1 x 1 3/8	1 1/8 x 1 3/8	6
★ 3/4 x 6	2.07	2.07	2.07	2.41	2.75	15 1/2	1 1/8	1 1/8 x 1 1/2	7/8 x 1 1/2	3 1/2
★ 3/4 x 9	3.17	3.17	3.17	3.72	4.13	18 1/2	1 1/2	1 1/8 x 1 1/2	7/8 x 1 1/2	4 1/4
3/4 x 12	3.72	3.72	3.72	4.27	4.82	21 1/2	1 3/8	1 1/8 x 1 1/2	7/8 x 1 1/2	5 1/4
3/4 x 18		4.95		5.78	6.47	27 1/2		1 1/8 x 1 1/2	7/8 x 1 1/2	6 3/4
★ 7/8 x 12	4.49	4.49	4.49	5.15	5.94	23 3/4	1 1/8	1 1/8 x 2	1 1/8 x 1 3/4	7 3/4
7/8 x 18		5.68		6.60	7.59	29 3/4		1 1/8 x 2	1 1/8 x 1 3/4	10
1 x 6		4.51		5.23	5.61	19		1 1/8 x 2	1 1/4 x 2	8 1/2
★ 1 x 12	5.55	5.55	5.55	6.34	7.26	25	1 1/4	1 1/8 x 2	1 1/4 x 2	11 1/4
1 x 18		7.26		8.58	9.57	31		1 1/8 x 2	1 1/4 x 2	13 3/4
1 x 24		8.91		10.56	11.55	37		1 1/8 x 2	1 1/4 x 2	16 1/4
★ 1 1/4 x 12		9.57		11.88	14.52	30		1 1/8 x 2 3/8	1 3/8 x 2	17 3/4
1 1/4 x 18		11.88		14.52	17.16	36		1 1/8 x 2 3/8	1 3/8 x 2	22 3/4
1 1/4 x 24		15.18		17.16	19.80	42		1 1/8 x 2 3/8	1 3/8 x 2	27 3/4
1 1/2 x 12		14.52		17.16	19.80	32		1 1/8 x 2 3/8	2 x 2 3/8	30
★ 1 1/2 x 18		17.82		20.79	23.76	38		1 1/8 x 2 3/8	2 x 2 3/8	35
1 1/2 x 24		22.44		26.40	30.36	44		1 1/8 x 2 3/8	2 x 2 3/8	41

For one lock nut add 5% to above, for two lock nuts add 10% to above.

★ Indicates standard marine lengths. Same will be shipped when no length is specified.

All turnbuckles have right and left hand threads.

3/8 inch diameter and larger in jaw type can be supplied with pin and cotter instead of bolt and nut to order.

Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL WITH LOCK NUTS



Jaw and Eye Fig. 398



Jaw and Jaw Fig. 382

Diam. Thread	Fig. 381 Eye & Eye Each	Fig. 382 Jaw & Jaw Each	Fig. 398 Jaw & Eye Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$1.10	\$1.54	\$1.38	5 1/2	47 1/2
3/8	1.30	1.70	1.60	5 3/4	62 1/2
1/2	1.60	1.98	1.85	6 1/2	102
3/4	2.30	2.86	2.57	8	178
1	3.30	3.96	3.63	10 3/4	369
1 1/4	4.40	5.28	4.95	12	500
1 1/2	5.75	7.26	6.55	15	775
2	7.75	9.24	8.25	15	1025
2 1/4		14.52	13.20	16	2050
2 1/2		26.40	23.76	21	3200

Petite Turnbuckles

CAST BRONZE—S.A.E. THREADS



Fig. 396

No.	Per Dozen	Diam. Ends Inches	Length Extended Inches	Takeup Inches	Weight Per 100 in Lbs.
1	\$3.10	1/8	3	3/4	3
2	3.75	3/16	4	1 1/8	6 1/4
3	5.75	1/4	5	1 1/2	11 1/2
4	6.30	5/16	5 3/4	1 7/8	15
5	8.00	3/8	6 3/8	2 1/4	24 1/2

Note—Nos. 1, 2 and 3 have wire eyes; Nos. 4 and 5 have cast solid eyes.

Swivels

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 624

No.	Galv. Each	Plain Brass Each	Size Inches	I. D. Eye Inches	Inside Width Swivel Inches	Overall Length Inches	Weight Per 100 in Lbs.
1	\$.14	\$.30	3/8	1/8	3/8	1 3/4	4
2	.20	.45	1/2	3/8	1 1/8	2 1/8	7 1/2
3	.30	.55	3/4	1/2	1 1/2	2 1/2	10
4	.45	.75	1	5/8	1 3/4	3 1/4	19 1/2
5	.60	.95	1 1/4	3/4	2 1/4	3 1/2	24 1/2
6	.80	1.15	1 1/2	7/8	3	4 5/8	41

Swivels

DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Weight Per 100 in Pounds	Est. Ult. T. S. Tons
1/4	\$1.15	3 1/4	3/4	19	2 1/2
3/8	1.45	4	1	33	4 1/4
1/2	1.55	4 7/8	1 1/8	53	5 1/2
5/8	2.35	6 1/4	1 3/8	133	9 1/2
3/4	3.95	7 7/8	1 5/8	275	14 3/4
7/8	5.60	9 3/8	1 7/8	456	18 1/2
1	7.15	10 3/8	2 1/8	671	22 1/4
	8.00	12	2 3/8	1000	27 1/2

Swivels with Jaw End

DROP FORGED STEEL



Fig. 623

Size Inches	Galv. Each	Overall Length Inches	Width Between Jaws Inches	Inside Width Swivel Inches	Weight Per 100 in Lbs.
1/4	\$1.55	3	1/2	3/4	16
3/8	1.80	3 3/4	1/2	1	27
1/2	2.00	4 3/4	3/8	1 1/8	60
5/8	3.20	6	7/8	1 3/8	125
3/4	4.45	7 1/4	1	1 5/8	225
7/8	6.20	8	1 1/8	1 7/8	400
1	7.90	10	1 3/8	2 1/8	550
1 1/4	17.25	14	2	2 7/8	1525

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

Jaw and Jaw Swivels

DROP FORGED STEEL



Fig. 481

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Length Inside Inches	Est. Wt. Each in Lbs.
3/8	\$2.20	4 3/4	1 1/8	3/8	1
1/2	3.60	6 1/8	7/8	3/4	1 3/4
5/8	4.80	7 1/2	1 1/8	1	3
3/4	6.75	8 3/8	1 3/8	1 3/8	5

Screw Eye Bolts

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 500

With Shoulder—Fig. 501

Size Inches	Fig. 500 Galv. Each	Fig. 501 Galv. Each	Fig. 501 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.15	\$.15	\$.50	1/2	6
1/4 x 2 1/4	.18	.18	.65	5/8	12
3/8 x 2 1/2	.20	.20	.85	3/4	17
1/2 x 3 1/4	.29	.29	1.60	1	43
5/8 x 4	.51	.51		1 1/4	92
3/4 x 4 1/2	.86	.86		1 1/2	146
7/8 x 5	1.20	1.20		1 3/4	220
1 x 6	1.80	1.80		2	325

Sizes are diameter and length of shank.

Galvanized Screw Ring Bolts

DROP FORGED STEEL



Without Shoulder—Fig. 618

With Shoulder—Fig. 619

Size Inches	Fig. 618 Galv. Each	Fig. 619 Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.38		1 3/4	14
1/4 x 2 1/4	.46		2	25
3/8 x 2 1/2	.53	\$.53	2	40
1/2 x 3 1/4	.75		2 1/2	88
3/8 x 4	1.28	1.28	2 3/4	160
3/4 x 4 1/2	2.03	2.03	3	245
7/8 x 5	3.00	3.00	3 1/4	400
1 x 6	4.35	4.35	3 3/4	590

Nut Eye Bolts

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 522

With Shoulder—Fig. 523

Size Inches	Fig. 522 Galv. Each	Fig. 523 Galv. Each	Fig. 523 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.20	\$.20	\$.60	1/2	7
1/4 x 4	.29	.29	.80	1/2	10
3/8 x 2 1/4	.23	.23	.75	5/8	13
3/8 x 4 1/4	.34	.34	1.10	3/4	17
3/8 x 2 1/2	.25	.25	.95	3/4	21
3/8 x 4 1/2	.40	.40	1.20	3/4	27
3/8 x 6	.47			3/4	32
1/2 x 3 1/4	.37	.37	1.75	1	45
1/2 x 6	.58	.58	2.50	1	65
1/2 x 8	.64	.64		1	75
1/2 x 10	.69			1	85
5/8 x 4	.65	.65		1 1/4	85
5/8 x 6	.86	.86		1 1/4	110
5/8 x 8	.95			1 1/4	135
5/8 x 10	1.04			1 1/4	160
5/8 x 12	1.10			1 1/4	185
3/4 x 4 1/2	1.00	1.00		1 1/2	132
3/4 x 6	1.37	1.37		1 1/2	160
3/4 x 8	1.48			1 1/2	184
3/4 x 10	1.59			1 1/2	208
3/4 x 12	1.71			1 1/2	232
7/8 x 5	1.43	1.43		1 3/4	215
7/8 x 8	1.94	1.94		1 3/4	265
7/8 x 12	2.23			1 3/4	339
1 x 6	2.15	2.15		2	340
1 x 9	2.72	2.72		2	400
1 x 12	2.97			2	463

Sizes are diameter and length of shank.

Special lengths and threading available if ordered in manufacturing quantities.

Bronze eye bolts are drop forged bronze, not cast.

Nut Ring Bolts

GALV. DROP FORGED STEEL OR BRONZE



Without Shoulder—Fig. 620

With Shoulder—Fig. 621

Size Inches	Fig. 620 Galv. Each	Fig. 621 Galv. Each	Fig. 621 Plain Bronze Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.46	\$.46	\$ 1.00	1 3/4	16
1/4 x 4	.53			1 3/4	19
3/8 x 2 1/4	.53	.53	1.15	2	28
3/8 x 4 1/4	.60			2	33
3/8 x 2 1/2	.60	.60	1.50	2	42
3/8 x 4 1/2	.75	.75		2	48
3/8 x 6	.81			2	52
1/2 x 3 1/4	.83	.83		2 1/2	94
1/2 x 6	1.05	1.05		2 1/2	115
1/2 x 8	1.10			2 1/2	131
1/2 x 10	1.17			2 1/2	147
5/8 x 4	1.28	1.28		2 3/4	175
5/8 x 6	1.50	1.50		2 3/4	190
5/8 x 8	1.59	1.59		2 3/4	205
5/8 x 10	1.68			2 3/4	220
5/8 x 12	1.76			2 3/4	235
3/4 x 4 1/2	2.03	2.03		3	275
3/4 x 6	2.40	2.40		3	300
3/4 x 8	2.52			3	334
3/4 x 10	2.63			3	368
3/4 x 12	2.75			3	400
7/8 x 5	3.00			3 1/4	415
7/8 x 8	3.52			3 1/4	465
7/8 x 12	3.82			3 1/4	531
1 x 6	4.34			3 3/4	630
1 x 9	4.95			3 3/4	710
1 x 12	5.21			3 3/4	790

Galvanized Hooks DROP FORGED STEEL—LARGE EYE



Fig. 656

Size Inches	Galv. Each	Length Overall Inches	I. D. of Eye Inches	Throat Opening Inches	Est. Wt. Per 100 in Lbs.
3/8	\$.30	2 7/8	1 1/8	1/8	14
1/2	.35	3 3/8	1	1/8	28
5/8	.55	4 1/2	1 1/4	1/8	50
3/4	.70	5 3/8	1 1/2	1/8	90
7/8	.95	6 1/2	1 3/8	1 3/8	148
1	1.25	7	1 7/8	1 1/4	225

Hooks With Wire Rope Thimbles DROP FORGED STEEL—LARGE EYE



Fig. 610

Size Inches	Galvanized Each	Length Overall of Hook Inches	Score of Thimble Inches	Weight Per 100 in Lbs.
3/8	\$.65	2 7/8	1/8	19
1/2	.70	3 3/8	3/8	36
5/8	1.15	4 1/2	1/2	62
3/4	1.25	5 3/8	1/2	102
7/8	1.75	6 1/2	3/8	170
1	2.15	7	3/4	250

For size of eye and throat opening, see Fig. 656.

Screw Hooks STEEL—GALVANIZED



Fig. 779

Size Inches	Galvanized Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$2.00	3 1/2	3/4
5/16	2.40	4	1
3/8	2.70	4 3/4	2 1/8
1/2	4.80	5 1/2	4 3/4

"S" Hooks GALVANIZED WROUGHT STEEL



Fig. 680

Size Inches	Per Dozen	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/8	\$.65	1 1/2	1/4
1/4	.90	2	1/2
5/16	1.65	2 1/2	1
3/8	2.00	3	1 3/4
1/2	4.70	3 3/4	4

Connecting Links DROP FORGED STEEL WITH INTERLOCKING LUGS



Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensional Inches	Est. Wt. Per Doz. Pounds
1/8	\$2.15	\$1.65	1 1/8 x 3/4	3 3/8
1/4	2.15	1.65	1 1/2 x 1	3 3/4
5/16	2.38	1.71	1 3/4 x 1 1/8	1 3/8
3/8	2.88	2.16	2 1/8 x 1 3/8	2 1/8
1/2	3.45	2.60	2 3/8 x 1 1/2	3 1/8
5/8	4.18	2.88	2 3/8 x 1 3/4	4 1/2
3/4	6.50	4.62	3 3/8 x 2 1/8	8
7/8	8.64	6.49	3 7/8 x 2 1/2	14 1/4
1	13.30	9.72	4 1/2 x 3	22
1 1/8	20.15	15.84	5 x 3 3/8	32
1 1/4	23.75	19.45	5 5/8 x 3 3/4	40
1 1/2	30.96	25.20	6 1/8 x 4 1/4	57
1 3/8	38.90	35.30	6 3/4 x 4 3/4	75

Note: 1/8, 1/4 and 5/16 inch sizes do not have interlocking lugs.

Swing Links

MALLEABLE IRON—WITH BRONZE RIVETS AND INTERLOCKING LUGS



Fig. 784

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Length Overall Inches	Diam. Eye Inches	Weight Per Dozen Pounds
1/8	\$2.40	\$1.85	1 3/4	1/8	7/8
1/4	2.60	2.05	2	3/8	1
5/16	2.90	2.25	2 1/4	1/2	1 3/4
3/8	3.60	2.85	2 3/8	1/2	2 3/4
1/2	5.65	4.40	3 1/4	3/8	4 1/2
5/8	7.50	5.95	3 3/8	3/4	6
3/4	13.20	10.25	4 3/8	7/8	11
1	18.00	13.20	5 1/4	1	17 1/2

Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Per Doz.	Inside Dimensions of Link Inches	Size Inches	Per Doz.	Inside Dimensions of Link Inches
1/8	\$.60	1 x 1/2	3/8	\$1.95	1 1/2 x 1 1/2
1/4	.70	1 1/2 x 1/2	1/2	3.00	2 x 1
5/16	1.35	1 1/2 x 3/8			

Non-Fouling Kedge Anchors GALVANIZED DROP FORGED STEEL

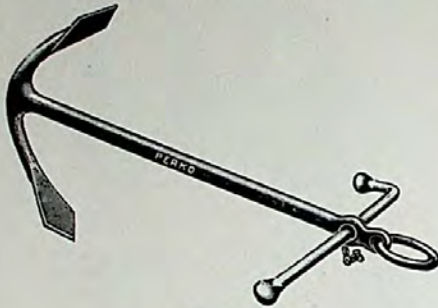


Fig. 236

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	Length Overall Inches	Width Across Flukes Inches
5	\$ 7.40	17	10
10	9.35	25	15
15	10.20	29	18
20	12.00	31	19
25	14.25	35	20
30	16.50	36½	22
35	18.00	40	22
42	21.00	40	22
50	25.25	43	24½
60	30.75	44½	27½
75	36.25	46	28
100	49.50	50	32
125	60.50	57	32
150	71.50	59	34½
200	105.00	65	34½
250	143.00	62½	43½

Navy Type Anchors DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Each	Weight Pounds	Each
5	\$2.75	50	\$19.25
10	4.40	60	22.50
15	6.00	80	33.00
20	7.45	100	44.00
25	9.65	125	52.80
30	12.00	150	61.50
35	13.75	200	79.00
40	15.40		

Grappels GALVANIZED DROP FORGED STEEL FIVE PRONG

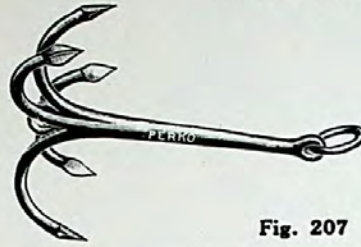


Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$4.50	15	\$7.75
7	5.50	20	12.00
10	6.00	25	22.00

Larger sizes—prices on application.

Fishing Anchors FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$1.90	\$2.40	6	8
11	2.65	3.45	7	9
15	3.40	4.45	8	10

Folding Anchors GALVANIZED MALLEABLE IRON

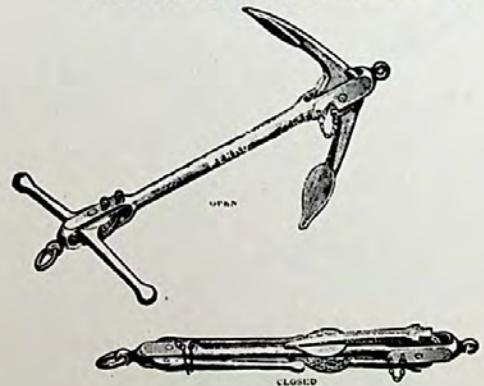


Fig. 226

Weight Pounds	Each	Length Inches	Weight Pounds	Each	Length Inches
6	\$ 6.00	19	30	\$26.50	34
8	8.15	22	35	31.25	36
10	10.00	23	45	40.00	38
12	11.75	25	55	48.75	41
15	14.50	28	76	65.00	44
20	18.75	30			
25	22.75	33			

"Danforth" Anchors

GALVANIZED STEEL



Fig. 700

Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED
NORTHILL HOLDING POWER AT LOW PRICE

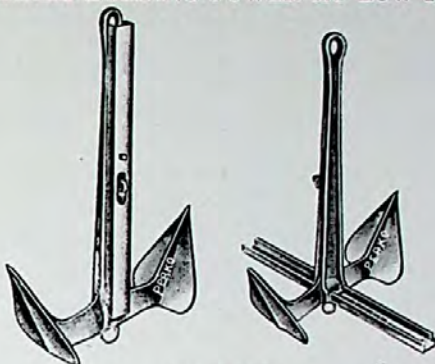


Fig. 1067

Mark III Cast Steel Anchor

Cast steel flukes, drop forged steel shank and seamless drawn steel stock. Holding power from 30 to 200 times its own weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
17	26½	\$19.00	75	47	\$59.00
30	33	32.00	100	51	79.00
50	39	49.00	150	52¼	94.00

Larger sizes—price on application.

Has removable stock for compact stowage. These anchors have tremendous structural strength and the same proven scientific advantages as the original Northhill folding anchors.

Mark IV High Tensile Steel

A Mark IV of the same size and fluke area as a Mark III, weighs only half as much as a Mark III and is much stronger because it is made of forged and rolled steel sections of heat-treated, high-tensile alloy steel.

The Mark IV can be safely used in place of a Mark III twice the weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
5	21	\$ 9.00	18	34¼	\$29.00
12	27½	19.50	28	39½	39.50

Type No.	Galv. Each	Weight Pounds	Comparative Weight Kedge Type Pounds	Comparative Weight Navy Type Pounds
3R	\$ 8.50	6	30	50
6R	14.50	13	65	110
12R	25.50	25	130	225
20R	38.50	47	225	400
30R	56.50	75	350	610
50R	79.50	105	525	918

Mark V Rowboat Anchor

For small sailboats, outboards and rowboats. High ratio of holding power to weight. Made of carbon steel stampings.

Weight Pounds	Length Inches	Each
4½	18¾	\$4.50

SUGGESTED SIZES

The following tables suggest the size of Mark III anchor to be used on boats of average design under average conditions:

Length of Boat	A	B	C
20 ft.		17 lbs.	30 lbs.
30 ft.	17 lbs.	30 lbs.	30 lbs.
40 ft.	30 lbs.	30 lbs.	50 lbs.
50 ft.	30 lbs.	50 lbs.	50 lbs.
60 ft.	30 lbs.	50 lbs.	75 lbs.
70 ft.	50 lbs.	50 lbs.	75 lbs.

A—Anchor weight for normal holding ground, such as clay or sand, under average weather conditions.

B—For poor holding ground—deep soft mud or in anchorages with normal holding ground exposed to heavy seas.

C—Weight as a storm anchor in poor holding ground.

Note: Be sure to mention type number when ordering. Mark III will be shipped unless otherwise specified.

New Northhill Rowboat Anchor

GALVANIZED HEAVY GAUGE STEEL
FOR SMALL SAILBOATS OUTBOARDS
AND ROWBOATS

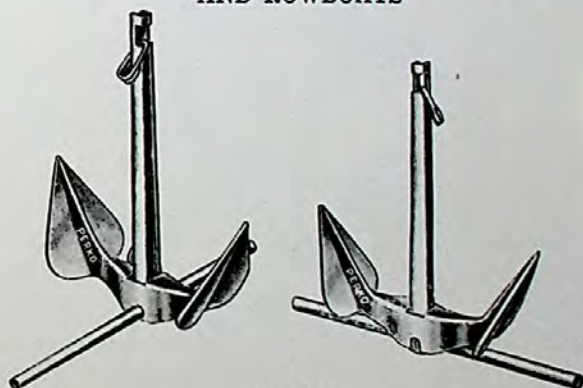


Fig. 548

The arm and fluke assembly pivot on the shank for stowage or to open for use.

Each	Weight Pounds	Inches Length	Width Flukes Inches
\$4.85	3	12	10

ANCHOR CHOCKS

CAST BRONZE—PLAIN

Every decked boat should be equipped with a set or two of these anchor chocks, to prevent the damage caused by a loose anchor on deck especially when a rough choppy stretch of sea is encountered. Repairing gouged decks, ventilators, hatch covers, etc., is wasteful expense if it can be avoided. When the anchor is installed in these chocks no part of it touches the deck.

FOR NAVY TYPE ANCHORS

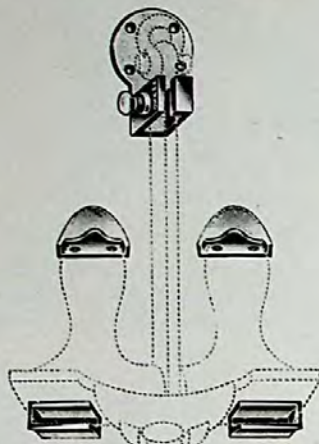


Fig. 938

Consists of five parts illustrated. Head of shank is held in place by an overhang and thumb screw arrangement. For all sizes up to 60 pounds inclusive.

Weight Per Set, 3¾ pounds

Price Per Set \$8.80

FOR KEDGE ANCHORS

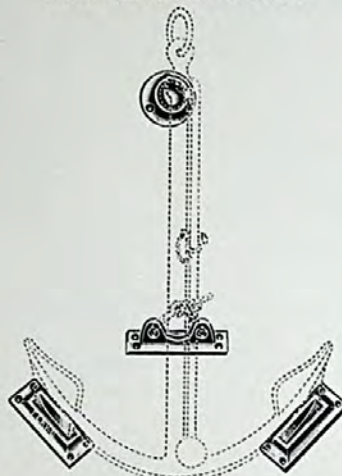


Fig. 939

Consists of four parts illustrated. The lashing piece has two eyes large enough for ¾ inch diameter rope. For all sizes up to 75 pounds inclusive.

Weight Per Set, 2¾ pounds

Price Per Set \$6.50

FOR NORTHILL ANCHORS

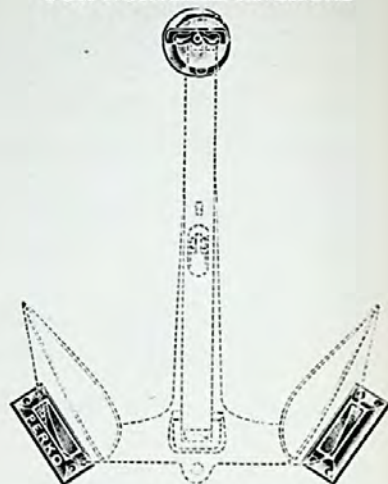


Fig. 941

Consists of three parts illustrated. Part for shank head has threaded bolt to pass through eye of shank, head is fastened down by wing nut and cross bar on bolt. For all sizes up to No. 20-R inclusive.

Weight Per Set, 2¼ pounds

Price Per Set \$6.50

Anchor Lashing Fitting

CAST BRONZE—PLAIN
WITH STRONG VINYLITE STRAP

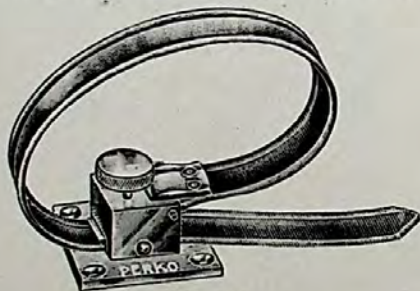


Fig. 964

The anchor cannot bounce out of the anchor chocks when lashed down with this strong unique fitting. The vinylite strap is light and flexible yet very strong and has exceptional wearing ability.

Each	Dimensions Base Inches	Height to Top of Screw Inches	Weight Ounces
\$8.00	2½ x 2½	1¾	12

Round Steel Mooring Buoy

17" DIAM.—18 GAUGE—WELDED—GALVANIZED STEEL ROD THROUGH CENTER—EYE ON TOP—SWIVEL ON BOTTOM WITH 1¾" DIAM. RUBBER BUMPER—SILVER GREY FINISH



Fig. 1068

Body of buoy is grooved to firmly hold rubber bumper in place. The buoy rod passes through a length of pipe and is not attached to body of buoy. All strain is on the rod.

Load capacity, half submerged is 60 pounds, equal to 75 feet of ¼ inch chain or 32 feet of ⅜ inch chain, dead weight.

Each	Diameter Rod Inches	Size Inside Swivel Inches	Weight Pounds
\$35.00	¾	3½ x 2	17

Pick Up Buoys

GALVANIZED SHEET IRON



Fig. 234



Fig. 235

Pick up handle is riveted to body. Eye on bottom for rope. All double seamed and soldered.

Length shown does not include eye and handle.

Fig. 234

No.	Each	Diam. Inches	Length Inches	Weight Pounds
1	\$8.50	9	14	4
2	9.90	12	18	5

Fig. 235

No.	Each	Diam. Inches	Length Inches	Weight Pounds
0	5.50	7	11	3
1	7.15	13	22	5
2	8.80	16	24	6½

Hold Fast Mooring Buoy

GALVANIZED SHEET IRON



Fig. 445

A heavy gauge galvanized sheet iron body, a ½ 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	Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
1	\$22.00	13	22	33½	3	15
2	30.00	17	27	38½	3	24

Junior Mooring Buoy

FOR RUNABOUTS AND ALL SMALL BOATS
GALVANIZED SHEET IRON



Fig. 318

Made of sheet iron with ½ 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 ¼ inch chain.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$14.00	12	15

Cone Mooring Buoy

GALVANIZED SHEET IRON



Fig. 370

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized ¾ inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper which is of heavy 1½ inch outside diameter rubber hose.

No.	Body Size Inches	With Bumper Each	Without Bumper Each
1	16 x 24	\$34.00	\$26.50
2	20 x 30	42.50	34.50
3	24 x 36	51.50	42.50
4	30 x 36	61.50	52.00

Size does not include swivel or eye.

Jib Snaps

GALVANIZED MALLEABLE IRON OR BRASS



Fig. 765

Size No.	Galv. Each	Plain Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 In Lbs.
0	\$.35	\$.40	1 3/8	1/4	4 3/8
1	.40	.45	2	3/8	10
2	.55	.60	2 3/8	3/8	12 1/2
3	.60	.65	2 3/4	1/2	21
4	.85	1.25	3	5/8	23 3/4

Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 612

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$.40	\$.45	\$.70	3/8	2	5
1	.50	.55	.80	3/8	2 3/4	10
2	.55	.65	1.00	3/4	3 1/4	13 1/8
3	.65	.85	1.30	3/4	3 7/8	26 1/4
4	.80	1.35		1	4 1/8	27 1/2
5	1.10	1.85		1 1/8	4 3/8	43 3/4
6	1.25			1 1/4	5 1/4	56 1/4

Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 613

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$.75	\$.80	\$ 1.20	3/8	3 1/4	11
2	.90	.95	1.35	3/4	3 1/4	16 1/4
3	1.10	1.20	1.90	3/8	4 3/4	32
4	1.35	1.45		1	5 1/4	37
5	1.65	1.75		1 1/8	6	60

Baby Snaps

BRASS WITH FAST EYE



Fig. 842

Diam. of Eye Inches	Brass Each	Length Inches
3/8	\$.18	1 3/8

Baby Snaps

WITH OBLONG EYE
ELECTRO GALVANIZED OR BRASS



Fig. 1041

Size of Eye Inches	Galvanized Each	Polished Brass Each	Length Inches
5/8 x 3/8	\$.12	\$.15	1 3/4

Baby Snaps

WITH SWIVEL EYE
MALL. IRON, NICKEL PLATED OR BRASS



Fig. 1042

Diam. of Eye Inches	Nickel Plated Each	Brass Each	Length Inches
3/8	\$.22	\$.30	2 3/8

Swivel Eye Snap

MALLEABLE IRON AND BRONZE



Fig. 659

Cadmium Plated Each	Plain Bronze Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
\$.40	\$.60	3 1/2	3/4	3/8	2

Solid Brass Rings

POLISHED



Fig. 417

Inside Diam. Inches	Thickness Inches	Per Dozen	Inside Diam. Inches	Thickness Inches	Per Dozen
1/2	3/32	\$.90	1 3/4	1/4	\$ 4.50
3/8	3/32	1.00	2	1/4	5.30
3/4	3/32	1.20	2 1/2	1/4	8.20
7/8	3/32	1.35	1 3/4	5/16	6.70
1	3/32	1.75	2 1/4	1/4	7.70
1 1/8	3/32	1.90	2 3/4	1/4	9.00
1 1/4	3/32	2.80	3	1/4	10.20
1 1/2	3/32	3.30			
1 1/2	1/4	3.60			



Improved Tiller Rope Pulley

SWIVEL TYPE—WITH STRAP
FORGED BRONZE—MICARTA SHEAVE



PATENTED

Fig. 585

Light in weight but very strong, the micarta sheave is well known for its ability to withstand shock and is impervious to salt water. It has sleeve bearings for smooth operation. The swivel eye is free turning and patented.

Dull Bronze Each	For Diam. Rope Inches	Length Overall Inches	Diam. Sheave Inches	Length Strap Inches	Weight Ounces
\$1.50	$\frac{1}{8}$	$3\frac{3}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	3

Note: Supplied with bronze sheave if desired, same price as above. Please specify.

Lightweight Tiller Rope Pulleys

BRASS BODY AND SHEAVE
FORGED BRONZE STRAP



Fig. 591

No.	Dull Brass Each	For Diam. Rope Inches	Length Overall Inches	Size Sheave Inches	Length Strap Inches	Wt. Ozs.
0	\$1.45	$\frac{1}{4}$ - $\frac{3}{8}$	2	$1\frac{1}{8} \times \frac{1}{8}$	$1\frac{1}{8}$	$2\frac{1}{2}$
1	2.15	$\frac{3}{8}$	$2\frac{1}{2}$	$1\frac{3}{8} \times \frac{1}{2}$	$2\frac{1}{4}$	$4\frac{1}{2}$

Tiller Rope Pulley

WITH STRAP—FORGED BRONZE



Fig. 579

For Rope Diam. Inches	Length Pulley Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
$\frac{1}{8}$	$1\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$1\frac{1}{8}$	3
Dull Bronze Each		Polished Bronze Each	Chromium Plated Each	
\$1.20		\$1.40	\$2.40	

Tiller Rope Guides

FORGED BRONZE



Upright
Fig. 593

Fig. 593
594

Dull Bronze Each
\$1.00
.95

Pol. Bronze Each
1.10
1.05

Chrom. Plated Each
\$1.85
1.80



Side
Fig. 594

For Rope Diam. Inches
 $\frac{1}{8}$
 $\frac{1}{8}$

Size Base Inches
 $\frac{7}{8} \times 1\frac{1}{2}$
 $\frac{3}{4} \times 2$

Wt. Ozs.
2
 $1\frac{1}{2}$

Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE



Fig. 102

No.	Galv. Iron Each	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	For Diam. Rope Inches	Diam. Base Inches
1	\$.25	\$.50	\$.85	\$2.25	$\frac{1}{4}$	$1\frac{1}{8}$
2	.35	.60	.95	2.40	$\frac{1}{8}$	$1\frac{1}{4}$
3	.50	.70	1.25	2.75	$\frac{3}{8}$	$1\frac{3}{4}$

Tiller Rope Guides

BRONZE



Fig. 359

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.25	\$.45	\$1.00	$\frac{3}{8}$	$1\frac{3}{8} \times \frac{3}{4}$
2	.40	.60	1.20	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{8}$
3	.50	.70	1.40	$\frac{5}{8}$	$1\frac{3}{4} \times 1\frac{1}{4}$

No. 1 size is forged bronze.

Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE
OVAL PLATE



Fig. 599

No.	Galv. Iron Each	Plain Bronze Each	Pol. Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.15	\$.25	\$.50	\$1.00	$\frac{3}{8}$	$1\frac{3}{8} \times \frac{3}{8}$
2	.17	.30	.55	1.10	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{1}{8}$
3	.25	.40	.60	1.30	$\frac{3}{8}$	$1\frac{3}{4} \times 1\frac{1}{4}$

No. 1 size is forged bronze.



Fast Eye Blocks

GALVANIZED MALLEABLE IRON OR BRONZE SINGLE

Without Becket



Fig. 43

With Becket



Fig. 54

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Weight Each Pounds
1	\$.25	\$.35	\$.65	$\frac{3}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{3}{8}$
3	.33	.42	.80	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{3}{8}$
5	.48	.73	1.17	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4}$
7	.64	.81	1.35	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.80	1.25		$\frac{1}{8}$	$1\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{2}$
11	1.15	1.60		$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{5}{8}$
13	1.90			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{8}$
15	2.85			$\frac{3}{4}$	$3 \times \frac{3}{8}$	$1\frac{3}{8}$

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	\$1.25	$1\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$
3	1.30	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	1.40	2	$\frac{1}{8}$	$\frac{1}{8}$
7	1.60	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
9	2.10	3	$\frac{1}{8}$	$\frac{3}{8}$
11	2.80	$3\frac{1}{4}$	$\frac{1}{2}$	1
13	3.60	4	$\frac{5}{8}$	$2\frac{1}{4}$
15	5.25	$4\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$

Size of Sheave same as Fig. 43.

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 Sheaves Inches	Weight Each Pounds
2	\$.33	\$.54	\$1.10	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{8}$
4	.48	.77	1.50	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
6	.75	1.20	2.20	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{1}{8}$	$\frac{3}{8}$
8	.90	1.46	3.15	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{5}{8}$
10	1.25			$\frac{1}{8}$	$1\frac{3}{4} \times \frac{1}{8}$	$\frac{3}{4}$
12	1.65			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1\frac{1}{4}$
14	2.65			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{8}$
16	3.95			$\frac{3}{4}$	$3 \times \frac{3}{8}$	$2\frac{3}{4}$

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	\$1.40	$1\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$
4	1.60	$1\frac{5}{8}$	$\frac{1}{8}$	$\frac{3}{8}$
6	1.85	2	$\frac{1}{8}$	$\frac{1}{2}$
8	2.00	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
10	2.60	3	$\frac{1}{8}$	1
12	3.40	$3\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
14	4.65	4	$\frac{5}{8}$	$2\frac{1}{2}$
16	6.50	$4\frac{3}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$

Size of Sheave same as Fig. 51.



Swivel Eye Blocks

GALVANIZED MALLEABLE IRON OR 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	$\frac{1}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
3	$\frac{1}{4}$	$1\frac{3}{4}$	1	2
5	$\frac{1}{4}$	2	$1\frac{1}{4}$	$2\frac{3}{8}$
7	$\frac{3}{8}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$4\frac{7}{8}$

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
0	\$.32	\$.85	\$1.30
1	.40	.85	1.30
3	.55	1.15	1.60
5	.70	1.40	2.00
7	.85	1.60	2.55

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	Weight Pounds
\$14.00	$\frac{3}{8}$	6	9	$5\frac{1}{2}$

UPRIGHT PATTERN

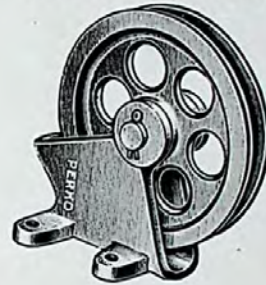


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches	Weight Pounds
\$14.00	$\frac{3}{8}$	6	$7\frac{1}{2}$	$5\frac{1}{2}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON OR 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	$\frac{1}{8}$	$1\frac{1}{4}$	$\frac{3}{4}$	$2\frac{1}{4}$
4	$\frac{1}{4}$	$1\frac{3}{4}$	1	$3\frac{3}{8}$
6	$\frac{1}{4}$	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	\$.55	\$1.15	\$1.60
2	.60	1.25	1.70
4	.75	1.60	2.30
6	.90	3.15	3.85
8	1.55	4.10	5.25

Side Pulleys

GALVANIZED CAST IRON OR BRONZE



Fig. 97

Size No.	Galv. Each	Pol. Bronze Each	Size Base Inches	Diam. Rope Inches	Weight Per Doz. in Lbs.
1	\$.30	\$.80	$\frac{3}{4} \times 2\frac{1}{8}$	$\frac{1}{4}$	$1\frac{3}{8}$
2	.45	.90	$\frac{7}{8} \times 2\frac{1}{4}$	$\frac{1}{2}$	2
3	.55	1.15	$1 \times 3\frac{3}{8}$	$\frac{3}{8}$	$3\frac{1}{4}$

Blocks on Plates

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 107

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$.95	\$1.90	\$2.85	$\frac{1}{4}$	Swivel Eye	20
5	1.10	2.20	3.25	$\frac{1}{2}$	Swivel Eye	35
7	1.55	2.55	3.75	$\frac{3}{8}$	Swivel Eye	66
9	1.95			$\frac{1}{2}$	Fast Eye	72

Deck Blocks

OPEN PATTERN
GALVANIZED IRON OR 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	\$.50	\$.40	\$.90	\$ 1.30	$\frac{1}{8}$	1 1/4 x 3/8
1	.70	.45	1.10	1.45	$\frac{3}{8}$	1 1/2 x 1/2
3	1.20	.70	1.80	2.85	1/2	2 x 5/8
5	2.00	1.30	3.60	4.40	5/8	2 1/2 x 3/4
7	3.00	2.15	4.95	6.60	3/4	3 x 1/2

Cast iron furnished unless otherwise specified.

Deck Blocks

OPEN PATTERN
GALVANIZED IRON OR BRONZE
DOUBLE

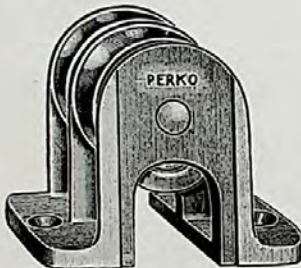


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size of Sheave Inches
2	\$ 1.10	\$.70	\$ 1.60	\$ 2.50	$\frac{3}{8}$	1 1/2 x 1/2
4	2.00	1.40	3.30	4.30	1/2	2 x 5/8
6	3.50	2.55			5/8	2 1/2 x 3/4
8	4.75	3.60			3/4	3 x 1/2

Cast iron furnished unless otherwise specified.

Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
SINGLE



Fig. 95

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
0	\$.65	\$.75	\$ 1.15	1/4	1 x 3/8	1/4
1	.85	.95	1.30	5/8	1 3/8 x 1/4	1/4
2	.95	1.10	1.65	3/8	1 1/2 x 1/2	3/8
3	1.80	1.75	2.60	1/2	2 x 5/8	3/4
4	2.25	2.50	3.50	5/8	2 1/2 x 3/4	1 1/4
5	3.60			3/4	3 x 1/2	2
6	6.25			5/8	3 1/2 x 1	4

Note—Fig. 95 can be supplied in galvanized cast iron at lower prices if desired.

Bell Chain Leaders

CAST BRONZE—PLAIN



Upright Type—
Fig. 912



Flat Type—
Fig. 913

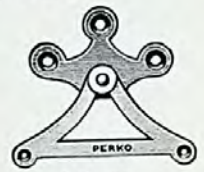
Diam. Sheave Inches	Width of Groove Inches	Single Sheave Each	Double Sheave Each	Triple Sheave Each	Quadruple Sheave Each
2	$\frac{1}{8}$	\$ 2.00	\$ 3.00	\$ 6.75	\$ 6.00
3 1/2	$\frac{1}{8}$	3.75	6.00	8.00	9.50

Bell Cranks

CAST BRONZE—PLAIN



Upright Type—
Fig. 910



Side Type—
Fig. 911

No.	Upright Type Each	Side Type Each	Length of Crank Inches
1	\$ 1.75	\$ 1.60	3
2	2.15	1.90	3 1/4
3	2.85	2.65	3 3/4

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

Per Foot \$	Length of Links Inches	Thickness Overall Inches	Pitch Inches	Weight per Foot Ounces
\$.80	3/4	1/32	3/8	3 1/2

Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Wgt. Lbs.
11	\$ 1.35	\$ 1.85	\$ 2.50	1/4	1 3/8 x 1/4	1/2
12	1.75	2.75	3.00	3/8	1 1/2 x 1/2	1 1/4
13	2.65	4.00	5.00	1/2	2 x 5/8	1 1/2

Deck Blocks

FOR WIRE ROPE

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 139

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.95	\$1.65	1/4 - 3/8	1 1/8 x 1 1/4	3/8
2	1.70	3.00	3/8	3 x 3 1/8	1 3/8
3	3.90	5.25	1/2	4 x 3/8	3
3 1/2	4.70		1/2	4 1/2 x 3/4	4 1/4
4	5.40		5/8	5 x 1/2	5 1/4
5	8.00		3/4	6 x 1	8 1/2

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

SINGLE—SIDE PATTERN



Fig. 194

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$1.25	\$2.40	1/8	2 1/2 x 3/8	1/2
2	1.65	2.80	1/4	3 1/4 x 1/2	1 1/4
3	3.00	4.75	1/2 - 3/8	4 1/2 x 1 1/8	2 3/8

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

SINGLE—UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
10	\$1.25	\$2.40	1/8	2 1/2 x 3/8	5/8
20	1.65	2.80	1/4	3 1/4 x 1/2	1 1/2
30	3.00	4.75	1/2 - 3/8	4 1/2 x 1 1/8	2 1/2

Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON OR BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.85	\$1.70	1/4 - 1/8	1 7/8 x 1 1/8	3/8
2	1.35	3.10	3/8	3 x 1 1/8	1 3/8
3	2.45	5.50	1/2	4 x 3/8	2 3/4
3 1/2	3.10		1/2	4 1/2 x 3/4	4 1/4
4	3.80		5/8	4 x 7/8	5 1/4
5	6.75		3/4	6 x 1	11

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

DOUBLE—SIDE PATTERN



Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
11	\$2.00	\$3.50	1/8	2 1/2 x 3/8	1 1/8
12	2.75	4.10	1/4	3 1/4 x 1/2	2
13	5.00	6.50	5/16 - 3/8	4 1/2 x 1 1/8	4 1/4

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON OR BRONZE

DOUBLE—UPRIGHT PATTERN



Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
110	\$2.00	\$3.50	1/8	2 1/2 x 3/8	1 1/8
120	2.75	4.10	1/4	3 1/4 x 1/2	2
130	5.00	6.50	5/16 - 3/8	4 1/2 x 1 1/8	4 1/4

BRONZE BLOCKS FOR SAIL BOATS

FORGED BRONZE SHELLS AND SHEAVES—PLAIN BUSHED—INTERCHANGEABLE FITTINGS

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.

Block Only With Removable Screw Pin



Fig. 850

NO FITTINGS			
Size No.	Plain Each	Polished Each	For Diam. Rope Inches
0	\$1.76	\$1.95	1/4 - 1/4
1	2.30	2.60	3/8
2	3.25	3.65	1/2

Size No.	Length Overall Inches	Size of Sheave Inches	Weight Ounces
0	2 1/8	1 1/8 x 1/4	3 1/2
1	2 3/8	1 3/8 x 1/2	4 1/2
2	3 1/4	1 7/8 x 3/8	10

Upset Front Shackle Block

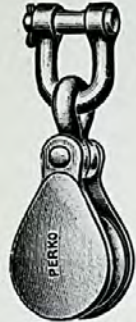


Fig. 852

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.05	\$3.30	\$1.15	\$1.30
1	3.70	4.10	1.30	1.50
2	4.95	5.50	1.60	1.80

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Front Shackle Block



Fig. 851

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.05	\$3.30	\$1.15	\$1.30
1	3.70	4.10	1.30	1.50
2	4.95	5.50	1.60	1.80

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Upset Side Shackle Block



Fig. 855

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.05	\$3.30	\$1.15	\$1.30
1	3.70	4.10	1.30	1.50
2	4.95	5.50	1.60	1.80

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Side Shackle Block



Fig. 854

SINGLE ONLY

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.05	\$3.30	\$1.15	\$1.30
1	3.70	4.10	1.30	1.50
2	4.95	5.50	1.60	1.80

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Side Snap Shackle Block



Fig. 857

SINGLE ONLY

Size No.	Complete Polished Each	Polished Shackle with Link Each
	0	\$5.00	$3.50
1	6.00	4.50

For dimensions and other data, see Fig. 850.

Block With Eye Strap



Fig. 861

SINGLE ONLY

Size No.	Complete		Strap with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$3.05	\$3.30	\$1.15	\$1.30
1	3.70	4.10	1.30	1.50
2	4.95	5.50	1.60	1.80

For dimensions and other data, see Fig. 850.

For straps only, see Fig. 881.

Swivel Deck Leader

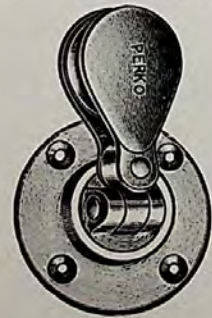


Fig. 864

SINGLE ONLY

Size No.	Complete		Base with Link		Weight Pounds
	Plain Each	Polished Each	Plain Each	Polished Each	
0	\$5.50	\$6.25	\$3.75	\$4.15	1/2
1	6.50	7.25	4.00	4.60	3/4
2	9.00	10.00	5.50	6.15	1 1/2

Size No.	Diam. Base Inches	Weight Pounds
0	2 1/4	1/2
1	2 3/4	3/4
2	3 1/4	1 1/2

Lightweight Block

WITH FRONT SHACKLE
SINGLE ONLY—FOR MANILA ROPE



Fig. 432

No.	Plain Each	For Diam. Rope Inches	Size Sheave Inches	Weight Ounces
0	\$1.75	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8} \times \frac{7}{8}$	3
1	2.50	$\frac{3}{8}$	$1\frac{3}{8} \times \frac{1}{2}$	5

Swivel Eye Bullet Blocks

FORGED BRONZE



Fig. 934

With unique patented swivel arrangement, no wear on rope.
For jib sheets or halyards on small sail boats.

Dull Finish Each	Polished Each	Length Shell Inches	Size Sheave Inches	For Diam. Rope Inches	Weight Ounces
\$1.50	\$2.00	$1\frac{3}{8}$	$\frac{3}{4} \times \frac{3}{8}$	$\frac{1}{8}$	$2\frac{1}{2}$

Bullet Blocks

FOR JIB SHEETS AND LEADERS
FORGED BRONZE



Fig. 869

No.	Dull Finish Each	Polished Each	For Rope Diam. Inches	Size Sheave Inches	Weight Ounces
0	\$.95	\$1.20	$\frac{5}{16}$	$\frac{3}{4} \times \frac{1}{8}$	2
1	1.10	1.50	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$
2	1.40	1.85	$\frac{1}{2}$	$1\frac{1}{8} \times \frac{3}{8}$	5

Swivel Eye Block on Plate

FORGED BRONZE

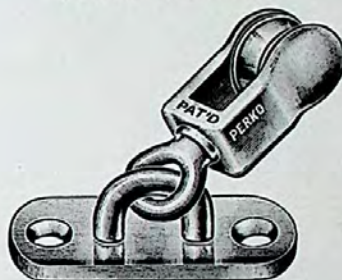


Fig. 935

This is our swivel eye bullet block mounted on brass plate, for deck leads.

Plain Each	Length Plate Inches	Width Plate Inches	Weight Complete Ounces
\$2.00	$2\frac{1}{4}$	$\frac{3}{4}$	$3\frac{1}{2}$

Jib Halyard Blocks on Strap

FORGED BRONZE BLOCK—CAST BRONZE STRAP



Fig. 899

No.	Plain Each	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
0	\$1.35	$\frac{5}{16}$	$\frac{3}{4} \times \frac{1}{8}$	$2\frac{1}{2}$	$3\frac{1}{2}$
1	1.60	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$	4

Swivel Eye Block on Slide

FORGED 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 $\frac{5}{16}$ inch nickel silver track.

Plain Each	Length Slide Inches	Width Slide Inches	Weight Complete Ounces
\$3.50	$1\frac{3}{4}$	1	$7\frac{1}{2}$

Centerboard Blocks

GALVANIZED CAST IRON OR BRONZE



Fig. 827

No.	Galv. Each	Plain Bronze Each	Size Rope Inches	Size Sheave Inches	Weight Pounds
1	\$1.00	\$1.80	3/8	1 1/2 x 1/2	3/4
2	1.80	3.00	1/2	2 x 3/8	1 1/2

Outhaul Cheek Blocks

CAST BRONZE—PLAIN
FOR COTTON OR WIRE ROPE



Fig. 885



Fig. 886

Fig.	Each	For Rope Size Inches	Size Sheave Inches	Weight Ounces
885	\$.45	1/4 Cotton	3/4 x 1/8	1 1/2
886	.85	1/8 Wire	1 1/4 x 1/4	3 1/2

Block Shackles

FORGED BRONZE

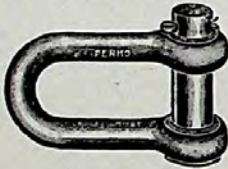


Fig. 893

No.	Size Inches	Plain Each	Pol. Each	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	1/4	\$.58	\$.78	1 1/8	1/8	1/2
1	1/4	.65	.85	7/8	1/8	1
2	1/4	.78	1.10	1 1/8	3/8	1 1/2

Halyard Shackles

CAST MANGANESE BRONZE—PLAIN



Fig. 887

Size Inches	Each	Diam. Pin Inches	Length Inside Inches	Width Inside Inches	Weight Ounces
1/4	\$1.50	1/8	1 3/8	3/8	2 1/2

Fast Eye Snap Shackles

CAST BRONZE—PLAIN



Fig. 873

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$2.75	1/4	3/8	5/16	5/8	1 3/4
1	3.00	5/16-3/8	1/2	3/4	1 1/8	3 1/2
2	3.75	1/2-1/2	3/4	1 1/4	7/8	7 1/2

Swivel Eye Snap Shackles

CAST BRONZE—PLAIN

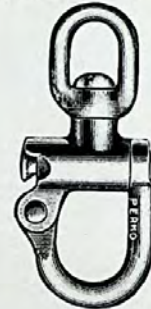


Fig. 874

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$4.25	1/4	3/8	5/16	5/8	2 1/2
1	5.00	5/16-3/8	1/2	3/4	1 1/8	5 1/2
2	5.75	1/2-1/2	3/4	1 1/8	7/8	9

Headboard Snap Shackles

CAST BRONZE—PLAIN

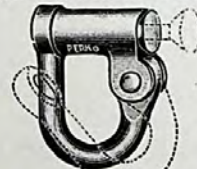


Fig. 875

No.	Each	Length Inside Inches	Width Inside Inches	O. D. Pin Housing Inches	Wt. Ozs.
1	\$2.75	1	3/4	1/2	3 1/2
2	3.50	1 3/8	1 1/8	5/8	6 1/2

Improved Headboard Snap Shackles

CAST BRONZE—PLAIN



Fig. 876

No.	Each	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	O. D. Pin Housing Inches	Wt. Ozs.
1	\$3.00	1/2	7/8	3/8	1/2	3
2	3.75	3/4	1 1/8	1 1/8	3/8	7

Eye Plates CAST BRONZE



Fig. 880

No.	Plain Each	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	\$.75	3 1/8	1 7/8 x 3/4	1 1/8
2	1.25	3 1/2	1/2 x 3/8	1 1/4

Eye Straps FORGED BRONZE



Fig. 881

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
0	\$.25	\$.45	2	1/8	3/8
1	.30	.55	2 1/4	3/8	1/4
2	.40	.60	2 3/4	1/2	1/8
3	.55	.80	3 1/8	3/8	1/8

Deck Straps CAST BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
1	\$.50	\$.80	3 1/2	1/2	1/8
2	.80	1.05	4 1/4	1/8	3/8
3	1.00	1.30	4 3/4	3/8	1/8

Inclinometer

CHROMIUM PLATED



Fig. 29

Instantly indicates the degree of heel. A good feature for sailboat owners and an attractive addition to a sailboat's equipment.

Made of zinc alloy and finished in chromium plate, highly polished.

Complete with chromium plated screws.

Each	Width Inches	Height Inches	Weight Ounces
\$3.00	5	3	4

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
\$.70	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	Weight Ounces
1	\$.25	\$.55	1/2	1 1/2
2	.35	.85	3/8	3

Double Flare Lip Leaders CAST BRONZE



Fig. 889

No.	Plain Each	Polished Each	Opening Inches	Weight Ounces
0	\$.35	\$.60	3/8	3/4
1	.45	.90	1/2	1
2	.60	1.15	3/8	1 1/4

Adjustable Jib Sheet Leaders CAST BRONZE



Fig. 1114

One solid casting with large head thumb screw for fastening with fingers. Furnished complete with 24 inches of 5/8 inch nickel silver track.

Plain Each	Length Inches	Size Eye Inches	Complete Weight Ounces
\$1.60	1 7/8	3/4 x 3/8	6

Automatic Jam Cleats

CAST BRONZE—POLISHED

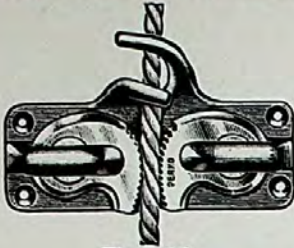


Fig. 895

No.	Each	For Rope Inches	Size Base Inches	Weight Ounces
1	\$5.00	1/4 - 1/4	3 1/2 x 1 1/2	10
2	8.00	3/8 - 1/2	5 1/8 x 1 3/4	16

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
\$2.00	4	up to 1/4	4

Racing Jam Cleats

CAST BRONZE



Fig. 762

No.	Polished Each	Length Inches	For Size Rope Inches	Weight Ounces
1	\$3.25	3 1/2	1/4	5
2	3.50	4	3/8	8
3	3.75	6	1/2	18

Double Jam Cleats

CAST BRONZE—POLISHED



Fig. 1030

No.	Each	Overall Length Inches	Width Inches	Weight Ounces
1	\$1.00	4	1/2	4
2	1.25	5	3/8	6

Roller Jam Cleats

CAST BRONZE



Fig. 894

No.	Polished Each	For Diam. Rope Inches	Extreme Length Inches	Weight Ounces
1	\$2.25	1/8 to 1/4	4	4
2	3.00	1/4 to 3/8	5 1/4	8

Sheet Snubbing Winches

CAST BRONZE—POLISHED



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	\$6.00	\$9.00	2 1/8	1	2 1/8	1
01	7.50	10.50	2 3/4	1 1/4	2 1/8	1 1/4

Ratchet Winches

POLISHED BRONZE—TOP ACTION



Fig. 800

Handle is removable but firmly held into winch by snap action socket. Winch has double ratchet. Power ratio about 8 to 1.

No.	Complete Each	Handle Only Each	For Diam. Rope Inches	Height Inches	Diam. Base Inches	Wt. Lbs.
1	\$22.00	\$4.95	3/8	2 3/4	3 1/2	3
2	30.80	6.05	1/2	3	4 1/4	6

Snipe Centerboards

GALVANIZED IRON



Fig. 134

Each	Size Inches	Weight Pounds
\$16.00	36x21x 1/4	36

Stemhead Plate

CAST BRONZE—STREAMLINED



Fig. 343

Angle is 70 degrees.

Length Straps Inches	Extreme Width Inches	Diam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces
3 3/4	1	1/8	3/4	8
Plain Bronze Each		Polished Bronze Each		Chromium Plated Each
\$1.50		\$2.25		\$3.50

Wind Pennants

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

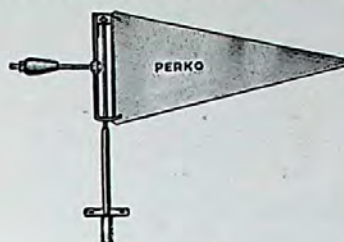


Fig. 435

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.

Head and Jibstay Fittings

CAST BRONZE—PLAIN



Fig. 1032

No.	Without Shackle Each	With Shackle Each	Length Inches	Width Inches	Number of Holes	Weight Ounces
1	\$2.25	\$3.00	5	1 1/2	5	12
2	3.25	4.00	7 3/4	1 3/4	8	28

FURNISHED IN PAINTED FINISH,
EITHER RED OR BLUE

For Mast 1 Inch Diam. at Top, 1/8 Hole

No.	Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$3.00	6 1/2 x 3	6 1/2	2 1/2
2	3.25	9 1/2 x 4 1/2	7 3/4	4

Bob Stay Straps

CAST BRONZE



Fig. 303

No.	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Metal in Eye Inches	Length Straps Inches	I. D. Eye Inches	Wt. Ozs.
1	\$.55	\$.90	\$1.50	3/8	1 1/4	3/4	3 1/2
2	.85	1.25	1.90	1/2	2 3/8	1/2	5

Improved Wind Pennants

ADJUSTABLE COUNTERBALANCE

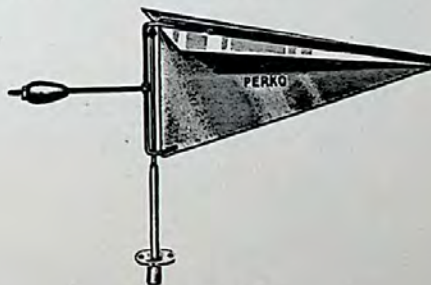


Fig. 837

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 painted finish, either red or blue.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$3.50	6 1/2 x 3	6 1/2	3
6	3.75	9 1/4 x 4 1/2	7 3/4	5

Backstay Levers

CAST BRONZE



Fig. 1098

For quick release of backstay this fitting can't be beat. Turnbuckles are unnecessary. Complete with socket for 1/8 inch rigging. A set consists of fittings for port and starboard. Illustration shows 1/2 set.

Plain Per Set	Pol. Per Set	Length Inches	Base Inches	For Rigging Inches	Weight Pounds
\$9.00	\$13.00	12 1/4	3 1/4 x 2	up to 1/4	1 1/2

Bronze Goosenecks

CAST BRONZE—PLAIN



Fig. 883

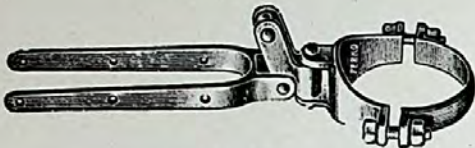


Fig. 884

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	Fig. 3 Weight Pounds
1	\$10.00	\$12.00	3 to 3½	1¾	2¾
2	10.50	12.50	4 to 4½	2¼	3½

Bronze Goosenecks

WITH FLAT PLATE FOR SQUARE MASTS
CAST BRONZE—PLAIN

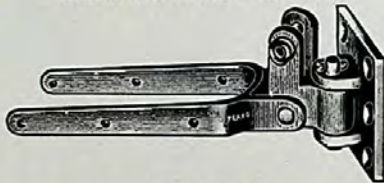


Fig. 1034

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.	Each	Width Plate Inches	Length Plate Inches	Diameter Boom end Inches	Weight Pounds
1	\$10.00	2	3	1¾	2¾
2	10.50	3	4	2¼	3½

"Snipe" Goosenecks

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast
Fig. 888

Plain Brass Each	\$3.00
Plain Plates Only Each	\$1.50

With Plate for Round Mast
Fig. 890

Width Plate Inches	For Boom Inches	Weight Each Pounds
1½	1 to 1½	1

When ordering, specify whether for square or round mast.

Sliding Adjustable Gooseneck

CAST MANGANESE BRONZE

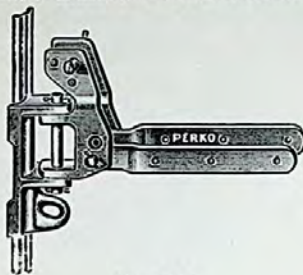


Fig. 915

Has three positions for tack of sail, two positions for boom. Ideal and universal for most small boats. Will accommodate booms up to 1¼ inch thick if necessary.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$4.00	¾	¾ or ⅞	4¾	12

Sliding Gooseneck

NATIONAL ONE DESIGN CLASS
BRONZE

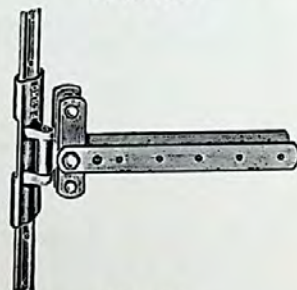


Fig. 452

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
\$4.00	¾	6	¾	¾

Small Boat Goosenecks

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
\$2.75	2¾	3¾	¾	6

Lightweight Sliding Goosenecks

CAST BRONZE—PLAIN



Fig. 916

Straps are adjustable for booms of various thickness. Track not included.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$2.50	$\frac{3}{8}$	up to $1\frac{1}{2}$	$3\frac{1}{2}$	8

Snap Action Clew Outhauls

CAST BRONZE—PLAIN



Fig. 871

Has snap action bolt for clew of sail. Track not included.

No.	Each	For Sail Area Sq. Feet	For Track Inches	Length Overall Inches	Weight Ounces
0	\$3.40	75	$\frac{3}{8}$	2	4
1	3.70	125	$\frac{3}{8}$	3	8

Self Locking Clew Outhaul

CAST BRONZE

INSTANT RELEASE—LIGHTWEIGHT
FOR SMALL BOATS

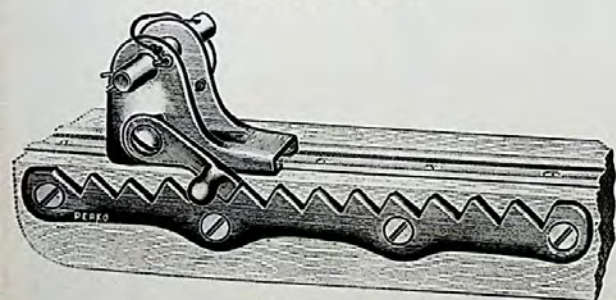


Fig. 817

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
\$5.00	\$2.00	$\frac{3}{8}$	10	$2\frac{1}{2}$	10

Clew Outhaul

CAST BRONZE—PLAIN

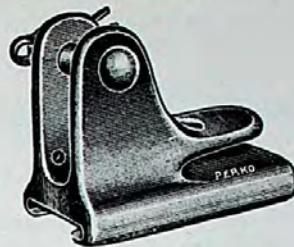


Fig. 1047

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.50	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$3\frac{1}{2}$

Boom Travelers

CAST BRONZE—PLAIN

FOR MAIN SHEET BLOCKS ON BOOMS



Fig. 1112
For Wide Booms



Fig. 1113
For T Booms

Fig.	Each	For Boom Thickness Inches	Weight Ounces
1112	\$.50	$1\frac{1}{2}$ to $1\frac{3}{4}$	$2\frac{1}{2}$
1113	.40	$\frac{3}{4}$ to 1	$1\frac{1}{2}$

Boom Travelers

CAST BRONZE—FOR ROUND BOOMS



Fig. 878

Diam. Boom Inches	Plain Each	Width of Plate Inches	Weight Ounces
2	\$1.50	$1\frac{1}{4}$	3
$2\frac{1}{2}$	1.60	$1\frac{1}{2}$	4
3	1.80	$1\frac{3}{8}$	7

Snipe Travelers

GALVANIZED IRON OR BRASS



Fig. 271

Galv. Each	Plain Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
\$1.75	\$2.50	$\frac{3}{8} \times 18$	6	$1\frac{1}{2}$

Everdur Rigging Turnbuckles

ALL EVERDUR BRONZE
S. A. E. THREADS—HEXAGON BODY
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.

$\frac{1}{4}$ inch, weight 3 $\frac{1}{2}$ oz. Approx. strength 2,500 lbs.
 $\frac{3}{8}$ inch, weight 5 oz. Approx. strength 5,000 lbs.

Size Thread Inches	Plain Each	Length Pin to Pin		Jaw Opening Inches	Diam. Pin Inches
		Open Inches	Closed Inches		
$\frac{1}{4}$	\$2.50	7 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
$\frac{3}{8}$	3.25	9 $\frac{1}{2}$	6	$\frac{1}{4}$	$\frac{1}{4}$

With check nuts, add \$.25 to each turnbuckle.

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	With Two Check Nuts Add	For Diam. Wire Rope Inches	Weight Each Pounds
$\frac{1}{4}$	\$2.25	\$.25	$\frac{1}{8}$	$\frac{1}{4}$
$\frac{3}{8}$	3.50	.25	$\frac{3}{8}$	$\frac{3}{8}$
$\frac{1}{2}$	4.75	.30	$\frac{1}{2}$	$\frac{3}{4}$
$\frac{3}{4}$	6.75	.45	$\frac{3}{8}$	1 $\frac{1}{2}$
$\frac{1}{2}$	8.75	.45	$\frac{1}{2}$	2 $\frac{1}{2}$

$\frac{1}{4}$ inch size is cast manganese bronze.

Size Inches	Jaw Opening Inches	Diam. Pin Inches	Length Center to Center of Pins		Ultimate Strength Pounds
			Extended Inches	Closed Inches	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	8 $\frac{3}{8}$	6 $\frac{1}{8}$	2300
$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	10 $\frac{3}{8}$	7 $\frac{1}{4}$	4200
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	12 $\frac{1}{4}$	8 $\frac{1}{2}$	6900
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	14 $\frac{1}{2}$	10 $\frac{1}{4}$	11000
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	17	12	18000

Combination Release Hook and Turnbuckle

BRONZE



Fig. 1193

Plain Each	Size Thread Inches	Length Closed Inches	Opening in Jaw Inches	Weight Ounces
\$4.25	$\frac{1}{2}$	5	$\frac{1}{4}$	6

Small Boat Chain Plates

CAST BRONZE



Fig. 629

Plain Each	Length Inches	Thickness Inches	Weight Ounces
\$1.00	6	$\frac{1}{4}$	7

"Snipe" Chain Plates

BRASS



Fig. 143

No.	Plain Brass Each	Polished Brass Each	Dimensions Inches	Diameter Pin Hole Inches	Weight Ounces
1	\$.55	\$.85	7 x $1 \times \frac{1}{8}$	$\frac{3}{8}$	4
2	.85	1.35	10 $\frac{1}{2}$ x $1 \times \frac{1}{8}$	$\frac{3}{8}$	6

Chain Plates

GALVANIZED DROP FORGED STEEL OR BRONZE



Fig. 569

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Size of Plate Inches
4	\$.45	\$1.90	$\frac{3}{4} \times \frac{3}{8}$
6	.55	2.35	1 x $\frac{3}{8}$
8	.70	2.85	1 $\frac{1}{8}$ x $\frac{1}{4}$
10	1.50		1 $\frac{1}{8}$ x $\frac{3}{8}$
12	1.65		1 $\frac{1}{8}$ x $\frac{3}{8}$
14	2.00		1 $\frac{1}{8}$ x $\frac{3}{8}$
18	2.90		1 $\frac{1}{8}$ x $\frac{3}{8}$
20	4.00		1 $\frac{1}{8}$ x $\frac{3}{8}$

Foot Rope Plates

GALV. FORGED STEEL OR CAST BRONZE



Fig. 568

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Size Plate Inches	Inside Diam. Eye Inches	Diam. Metal in Eye Inches	Weight Pounds
4	\$.65	\$1.70	$\frac{7}{8} \times \frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
5	.75	1.35	1 x $\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{2}$
6	.95	2.25	1 x $\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{3}{4}$

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
\$.75	$\frac{1}{8}$ - $\frac{3}{8}$	4	$\frac{3}{8}$	2 1/2

"Snipe" Stay Tangs

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	For Diam. Rope Inches	Size Straps Inches	Diam. Bolt Inches	For Wood Thickness Inches	Wt. Each Lbs.
47	\$.85	$\frac{3}{8}$	$\frac{3}{4} \times 4$	$\frac{1}{4}$	2	$\frac{1}{8}$
57	1.40	$\frac{1}{2}$	$\frac{3}{4} \times 4$	$\frac{1}{4}$	2 1/8	$\frac{1}{4}$

Rigging Cleats

CAST BRONZE—PLAIN

For Diam. Mast Inches	Each	Size Overall Inches	Weight Ounces
2 1/2	\$.70	2 1/2 x 1 1/4	2 1/2
3	.85	3 3/8 x 1 5/8	4
4	1.10	4 x 1 7/8	5

Belaying Pins

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 366

Diam. Shank Inches	Galv. Each	Polished Bronze Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
$\frac{3}{8}$	\$.75	\$2.65	3	8	$\frac{3}{8}$
$\frac{1}{2}$	1.20	3.30	3 3/8	9 1/2	$\frac{3}{4}$
$\frac{5}{8}$	1.50	4.50	3 3/4	10 1/4	1
$\frac{3}{4}$	1.80	5.70	4 1/4	11	1 3/4

Bronze Eye Bands

CAST BRONZE—4 EYE



Fig. 253

Inside Diam. Inches	Plain Bronze Each	Width Inches	Diam. Holes Inches	Weight Pounds
1 1/2	\$1.85	3/4	1/4	1/2
1 3/4	1.95	3/4	1/4	3/8
2	2.00	3/4	1/4	3/4
2 1/4	2.15	3/4	3/8	1
2 1/2	2.25	3/4	3/8	

Galvanized Eye Bands

FORGED STEEL—HOT GALVANIZED



Fig. 426

Small sizes up to 2 1/2" diameter have bands 1/4" thick, larger sizes have bands 1/2" thick. All sizes have bands 1 1/4" wide, all eyes are of 3/4" stock with 1/2" inside diameter.

Inside Diam. Inches	1 Eye Each	2 Eye Each	3 Eye Each	4 Eye Each
1 1/4	\$1.95	\$2.30	\$2.65	\$3.00
1 1/2	2.00	2.40	2.75	3.10
1 3/4	2.30	2.65	3.00	3.40
2	2.40	2.75	3.10	3.50
2 1/4	2.55	2.85	3.20	3.55
2 1/2	2.65	3.00	3.40	3.75
3	2.85	3.20	3.55	3.90
3 1/2	3.55	3.90	4.25	4.65
4	3.90	4.25	4.65	5.00
4 1/2	4.25	4.65	5.00	5.40
5	4.65	5.00	5.40	5.75
6	6.40	6.80	7.20	7.60

Special sizes made to order, price on application.

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 Clam Boat Star Atlantic 6 Meter
0	\$2.25	3 7/8 x 3 3/8	3	
1	2.75	4 1/4 x 3 3/8	5	
2	3.75	5 1/2 x 5 1/4	7	

Mast Track and Slides

NICKEL SILVER

Slide

Track



Fig. 98

Fig. 99

Slides Fig. 98		
For Track Inches	Each	Weight Per 100 in Lbs.
5/8	\$.07	2 1/4
3/4	.12	2 3/4

Track Fig. 99		
Size Inches	Per Foot	Weight 100 Feet in Lbs.
5/8	\$.25	14 1/2
3/4	.38	23

Slides will fit any make of track of corresponding design and size.

Stock 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, unless specified otherwise.

Mast Hoops and Jib Rings

GALVANIZED WROUGHT STEEL



Fig. 849

Size Inches	Per 100	Size Inches	Per 100	Size Inches	Per 100
1/4 x 2	\$11.00	5/8 x 1 1/2	\$15.00	1/2 x 3	\$45.00
1/4 x 2 1/2	14.50	5/8 x 2	16.00	1/2 x 3 1/2	50.00
1/4 x 3	15.50	3/8 x 2	20.00	1/2 x 4	60.00
1/4 x 3 1/2	20.00	3/8 x 2 1/2	26.00	1/2 x 5	65.00
1/4 x 4	24.00	3/8 x 3	32.00	1/2 x 6	70.00

Sizes are thickness of metal and inside diameter.

New Masthead Sheave

MICARTA—WITH SLEEVE BEARING
LIGHTWEIGHT—STRONG—DEEP SCORE



Fig. 919

Weight at the peak of the mast is a very important factor. This sheave was designed accordingly, light but very strong. The sleeve bearing assures smooth action and minimum wear.

Each	Diam. Inches	For Diam. Rope Inches	Thickness Inches	Bearing Inches	Weight Ounces
\$.60	1 1/8	1/8	1/8	1/4	1 1/2

Masthead Sheaves FOR MANILA ROPE CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Each	For Diam. Rope Inches	Thickness Inches	Diam. Bearing Inches	Weight Ounces
1 3/4	\$.60	1/8	1/8	1/4	2 1/2
2	.65	1/8	1/8	3/8	3 1/2
2 1/4	.90	3/8	1/2	3/8	5 1/2

Bronze Wire Rope Rockets

CAST BRONZE

Eliminating the necessity of splicing wire rigging, especially the difficult splicing of stainless steel. While lead is commonly used when socketing the wire we recommend the use of zinc.

CLOSED TYPE



Fig. 756

OPEN TYPE



Fig. 757

No.	Plain Bronze Each	Diam. Wire Inches	Width Inside Inches	Length Overall Inches	Weight Ounces	No.	Plain Bronze Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
00	\$.45	1/8	3/8	1 3/4	1	9	\$.75	1/8	1/4	1/4	1 3/4	1
0	.45	1/8	3/8	1 3/4	1	10	.75	1/8	1/4	1/4	1 3/4	1
1	.45	1/8	3/8	1 3/4	1	11	.75	1/8	1/4	1/4	1 3/4	1
2	.55	1/8	1/2	2 1/4	2	12	.85	1/8	3/8	1/8	2 1/4	2 1/2
3	.70	1/4	3/8	2 3/4	3	13	1.10	1/4	3/8	3/8	2 3/4	3 1/2
4	1.25	1/4	3/4	3	4 1/2	14	1.40	1/4	1/2	1/2	3 1/4	5
5	1.35	3/8	1	3 1/4	8	15	2.15	3/8	3/8	3/8	3 1/2	9

Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

Diam. Inches	Per 100 Feet
$\frac{1}{8}$	\$ 8.00
$\frac{1}{4}$	10.00
$\frac{5}{16}$	14.00
$\frac{3}{8}$	16.00

Supplied only in 500 foot coils.

Flexible Wire Tiller Rope

GALVANIZED OR 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 Per 100 Ft.	Bronze Per 100 Ft.
$\frac{1}{8}$	\$ 4.80	\$ 8.50
$\frac{1}{4}$	24.50	21.00
$\frac{5}{16}$	26.00	27.00
$\frac{3}{8}$	28.50	35.00
$\frac{1}{2}$	32.00	45.00
	41.50	70.00

Supplied only in 250 and 500 foot coils.

$\frac{1}{8}$ inch size is constructed the same as Fig. 759 rigging.

Rubber Covered Tiller Rope

PLOW STEEL CENTER

MOISTURE PROOF—CORROSION RESISTANT



Fig. 763

The covering is synthetic rubber, impervious to grease and oil. The wire is $\frac{1}{16}$ inch plow steel, 6 x 7 lay. Tested over a $1\frac{1}{2}$ inch sheave 750,000 times. No noticeable wear in rubber covering.

Diam. Inches	Per 100 Feet	Strength in Pounds	Weight 250 Ft. Coil in Pounds
$\frac{1}{8}$	\$ 8.00	300	8 $\frac{1}{2}$
$\frac{1}{4}$	10.00	350	14 $\frac{1}{2}$
$\frac{5}{16}$	14.00	660	19

Supplied only in 250 foot coils.

Galvanized Iron Rigging

FOR GUY ROPES



Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

Diam. Inches	Per 100 Feet	Circumference Inches
$\frac{1}{8}$	\$4.80	$\frac{3}{8}$
$\frac{1}{4}$	6.60	$\frac{1}{2}$
$\frac{5}{16}$	8.00	$\frac{3}{4}$
$\frac{3}{8}$	13.00	1
$\frac{1}{2}$	16.00	$1\frac{1}{8}$

Supplied only in 250 and 500 foot coils.

Assorted Sheaves

GALVANIZED IRON AND BRONZE

COMMON BUSHED—FOR MANILA ROPE



Fig. 154

GALVANIZED

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
1	\$.18	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
2	.24	1	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
3	.27	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{1}{8}$
4	.30	$1\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$
5	.40	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$
6	.45	2	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{1}{4}$
7	.55	$2\frac{1}{2}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{8}$
8	.65	3	$\frac{7}{8}$	$\frac{3}{4}$	$\frac{1}{8}$

BRONZE

9	.28	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
0	.31	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
1	.35	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$
2	.39	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{3}{8}$	$\frac{1}{8}$
4	.45	$1\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{4}$
5	.52	$1\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
6	.58	$1\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
7	.65	$1\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{8}$
8	.78	$1\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$
9	.84	$1\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{8}$
0	1.17	$2\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$
1	5.20	6	$\frac{7}{8}$	$\frac{5}{8}$	$\frac{3}{4}$

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	\$.25	$\frac{1}{8}$	1	$\frac{1}{4}$	Flat
2	.25	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	Flat
3	.28	$\frac{1}{4}$	$1\frac{1}{8}$	$\frac{1}{4}$	Flat
4	.30	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{3}{8}$	Flat
5	.32	$\frac{1}{8}$	$1\frac{1}{2}$	$\frac{3}{8}$	Flat
6	.36	$\frac{1}{8}$	$1\frac{1}{4}$	$\frac{1}{2}$	Flat
7	.40	$\frac{3}{8}$	$1\frac{1}{8}$	$\frac{1}{8}$	Flat
8	.40	$\frac{3}{8}$	1	$\frac{1}{2}$	Round
9	.45	$\frac{3}{8}$	$1\frac{1}{4}$	$\frac{1}{2}$	Round
10	.50	$\frac{3}{8}$	$1\frac{3}{4}$	$\frac{1}{2}$	Flat
11	.55	$\frac{1}{2}$	1	$\frac{1}{2}$	Flat
12	.60	$\frac{1}{2}$	$2\frac{3}{8}$	$\frac{3}{8}$	Flat
13	.65	$\frac{1}{2}$	$1\frac{1}{8}$	$\frac{5}{8}$	Flat
14	.65	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{5}{8}$	Flat
15	.70	$\frac{1}{2}$	$1\frac{1}{2}$	$\frac{5}{8}$	Flat

NEPTUNE SPECIALTIES PRODUCTS



“Neptune” Kapok Cushions

(PATENTS PENDING)

VINYLITE COVERED — WEATHERPROOF — COLORFUL DESIGNS
U. S. COAST GUARD APPROVAL B-354 — SIZE 15" x 15"

BUILT TO “TAKE IT” — The soft resilient Vinylite plastic covering permits exposure to salt spray, rain, sleet and the broiling heat of the sun. It is unaffected by oil, grease or dirt, can be washed off with a damp rag or soapy water, then it is as good as new.

THE DESIGN “STAYS IN” — The colorful design is permanently bonded to the inner surface of the translucent plastic covering, it cannot be defaced or worn off. The present designs illustrated below have an attractive light blue background, the flags, buoys, compass rose, etc., are in contrasting colors of red, white and royal blue.

APPROVED — By U. S. Coast Guard for use as life preservers on motor boats smaller than class 3, not in Commercial Service.

SIGNAL FLAG SERIES

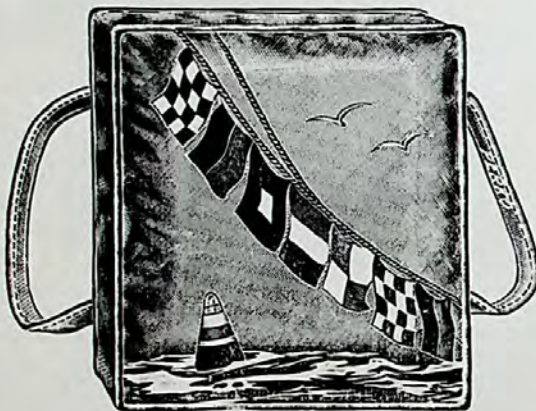


Fig. 192
Each \$5.50

COAST GUARD SERIES

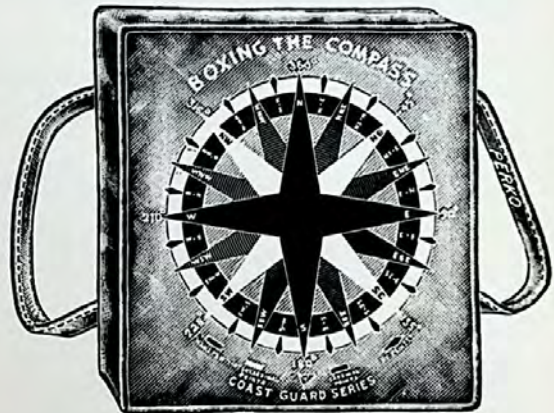


Fig. 193
Each \$5.50

COAST GUARD SERIES



Fig. 196
Each \$5.50

COAST GUARD SERIES



Fig. 212
Each \$5.50

SOLID COLOR CUSHIONS
NO DESIGN

	Each
Fig. 197—All Red with White Piping.....	\$5.50
Fig. 198—All White with Red Piping.....	5.50
Fig. 199—All Light Blue with Red Piping.....	5.50
Fig. 300—All Dark Blue with Red Piping.....	5.50

NEPTUNE SPECIALTIES PRODUCTS

"Neptune" Marked Lead Lines

WITH VINYLITE PLASTIC MARKERS
1-INCH CIRC. ITALIAN HEMP LINE

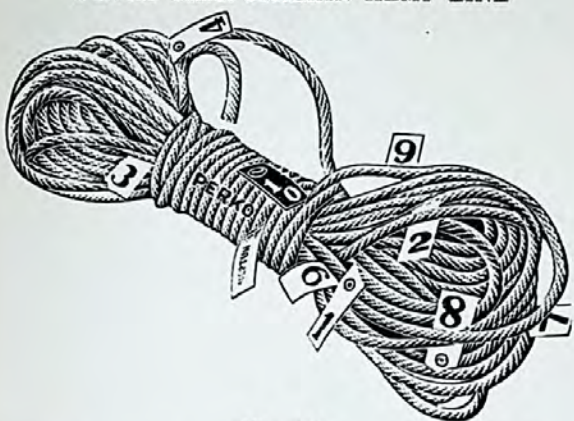


Fig. 190

A lead line that makes sense and can be easily read by anyone using it regardless of experience.

Instead of the old cryptic markings, it makes use of colored Vinylite Plastic Markers printed with numerals in contrasting colors. These markers are soft and resilient, unaffected by salt, grease, oil and sunlight.

The Neptune line was widely used during the war by the Navy, Army and U. S. Maritime Commission.

Length Fathoms	Each	Length Fathoms	Each
7	\$5.00	50	\$20.00
10	6.00	60	28.00
15	8.00	75	36.25
20	9.50	100	55.00
25	11.50	120	62.00
30	13.50	150	75.00
40	18.00		

NOTE MARKINGS, up to 10 fathoms inclusive marked every fathom and half fathom, the latter indicated by yellow strip.

Longer lines marked according to Navy standard IE, 2-3-5-7-10-13-15-17-20 fathoms and every 5 fathoms thereafter.

NOTE—During present scarcity of Italian hemp it may be necessary occasionally to supply long lines of braided cotton.

Sounding Leads



Fig. 940

All weights from 2 to 16 pounds each inclusive carried in stock.

	Per Pound
2 to 5 Pounds.....	\$.50
6 to 14 Pounds.....	.48
15 to 50 Pounds.....	.47

Larger sizes furnished to order.

"Neptune" Plastic Boat Fenders

VINYLITE PLASTIC COVERING
CORK FILLED — THEY FLOAT
COLOR, WHITE



Fig. 191

The Vinylite Plastic Covering is of heavy gauge, mildew-proof and waterproof. It won't crack or dry out. It's so tough that it can take the friction and battering of hull to dock and outlast old-type fenders many times over.

This covering is non-porous and is impervious to grease, oil and water. Easily cleaned with soap and water or alcohol.

Supplied in glistening white. Color cannot be scuffed off. It is a part of the material.

Grommets at both ends.

Size, Inches	Each
4 x 18	\$3.75
5 x 20	5.75
6 x 22	6.85

"Neptune" Plastic Covered Wire Life Line

BRIGHT ALUMINUM COLOR



Fig. 163

A special Vinylite Plastic Covered Cable for lifeline use. Wire cable is $\frac{1}{4}$ inch galvanized, covering increases outside diameter to $\frac{3}{8}$ inch.

Attractive, safe, clean and comfortable to the grip. Cannot tear hands or clothing.

Does away with unsightly applications of canvas, cloth or twine wrappings to wire and saves the cost of such applications.

Supplied only in 250 foot coils, with a half pint of Neptune Lacquer Coating to cover cut ends or splices.

\$0.25 Per Foot

Counter Display for Dealers Will be Provided

NEPTUNE SPECIALTIES PRODUCTS

**“Neptune”
Anchor Cable Depth Markers**

TOUGH—DURABLE WATERPROOF
VINYLITE
NUMBERS CANNOT WASH OFF
RED NUMERALS ON YELLOW MARKERS

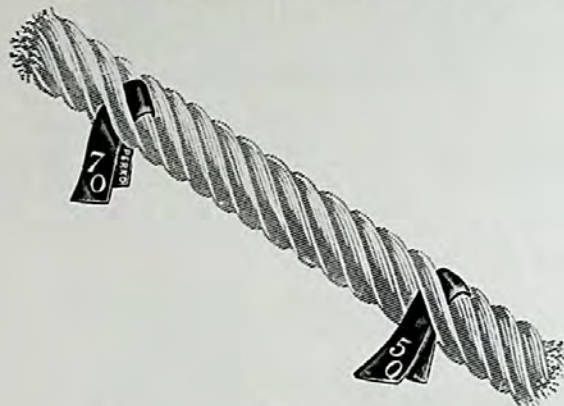


Fig. 164

For the far-sighted yachtsman. Pay out proper scope, at least five times water depth — double in heavy weather.

Know exact scope paid out by applying markers at proper intervals in anchor cable.

Made up in sets on a counter display card, 24 sets per card, a set consists of markers for 30-50-70-100-125-150 and 200 feet.

\$1.50 Per Set

**“Neptune”
No-Chafe Mooring Sleeve**

TOUGH—DURABLE—WATERPROOF
VINYLITE
WITH NON-CORROSIVE ZIPPER

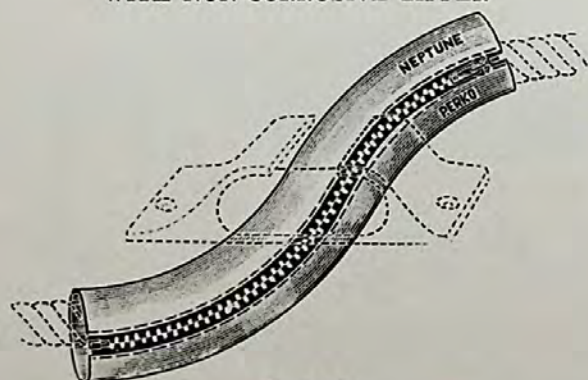


Fig. 165

Play safe with mooring and anchor lines.

Avoid chafe at chocks or jib-boom stays.

Immune to oil, grease or water.

Ample size to fit rope up to 1½ inch diameter.

Wearing ability surprisingly good and much greater than canvas or other makeshift applications.

Length 18 inches — Each \$2.50

**“Neptune”
Aids to Safer Navigation**

LAMINATED VINYLITE—WATERPROOFED
COPYRIGHTED

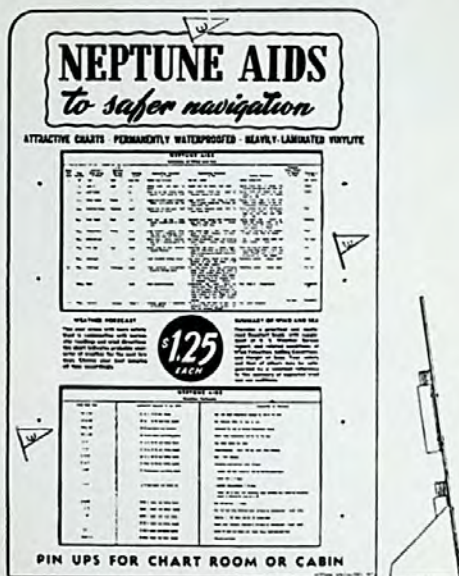


Fig. 166

Above illustration is counter display stand consisting of 12 each “weather forecasts” and “summary of wind and sea”.

These aids will help to safer navigation, they are useful and attractive charts which can be easily pinned up in chart room or cabin for daily reference.

WEATHER FORECAST — Used in combination with barometer readings and wind directions this chart indicates probable character of weather for the next few days. Choose the start of your cruise accordingly.

SUMMARY OF WIND AND SEA — Provides a practical and easily read Beaufort Scale, with supplement of U. S. Weather Bureau reports, and related conditions of wind velocities, sailing conditions and height of seas.

Constant reference to this chart safeguards your safety and that of others.

Dimensions of Chart, 9½ x 6 Inches

\$1.25 Each Chart

Dealers display stand provided on first purchase of 12 each charts.

NEPTUNE SPECIALTIES PRODUCTS

"Neptune"

Mooring Pennants

PATENT APPLIED FOR

ENTIRELY COATED WITH VINYL PLASTIC

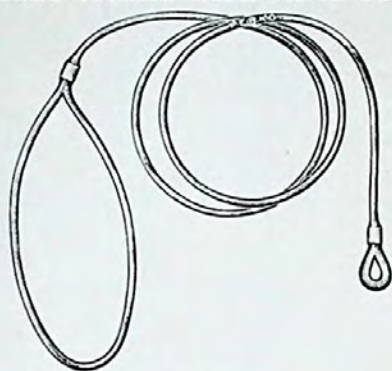


Fig. 167

PRICES ON APPLICATION

A really tough and long-lasting new type of mooring pennant with distinct advantages:

- (1) Galvanized aircraft cable, made to latest U. S. Army, Navy and Naval Aircraft factory specifications, and galvanized improved plow steel in the larger sizes.

GALVANIZED AIRCRAFT CABLE

Diameter	Assembled Length	Wire Construction	Breaking Strength
$\frac{3}{16}$ "	10 feet	7 x 19	4200 lbs.
$\frac{1}{4}$ "	10 feet	7 x 19	7000 lbs.
$\frac{5}{16}$ "	10 feet	7 x 19	9800 lbs.

GALVANIZED IMPROVED PLOW STEEL

$\frac{3}{8}$ "	10 feet	6 x 19	6.3 tons
$\frac{7}{16}$ "	10 feet	6 x 19	8.4 tons
$\frac{1}{2}$ "	10 feet	6 x 19	10.8 tons

- (2) A special process of Vinyl plastic coating applied to the complete mooring pennant and fittings, which seals in the wire lubricant, thereby considerably extending the life of the cable and maintaining its flexibility.
- (3) The plastic coating in the manner applied tends to stop electrolytic action previously encountered in bare wire rope, because it completely insulates the mooring pennant itself from the anchor chain or cable and from the metal fittings on the bow of the boat.
- (4) Nicropress double locks used over each loop in sizes up to $\frac{1}{2}$ " diameter. All splices made the Nicropress way are considered stronger than the cable itself. Hand tucked splices in sizes from $\frac{3}{8}$ " up are expertly made. In addition, the plastic coating applied over both the lock splices and the hand splices completely seals these from salt water deterioration and eliminates injury from fraying wire ends.
- (5) A tough and long-lasting mooring pennant, attractive in appearance, comfortable to handle, resistant to all marine deterioration, oils, grease, and general corrosion.

**This Space Reserved
for New Neptune Items
Now Being Developed**



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