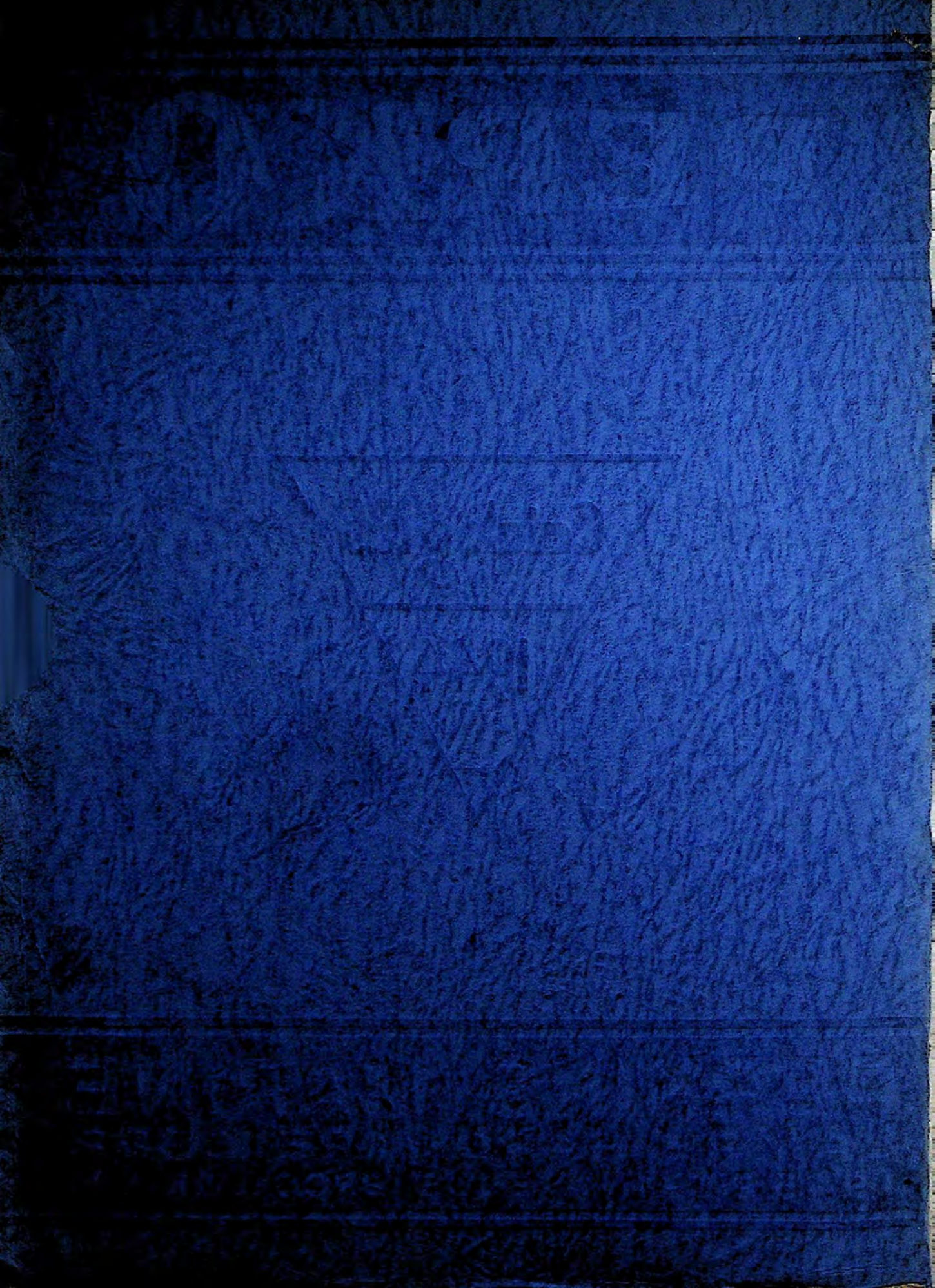


PERKO

Catalog 105

1944

**PERKINS MARINE
LAMP & HARDWARE CORP.
1943 PITKIN AVENUE • BROOKLYN, N.Y.**



Perkins Marine Lamp And Hardware Corp.

(Incorporated 1917)

1943 Pitkin Ave., Brooklyn, N. Y.
157 Snediker Ave., Brooklyn, N. Y.

Manufacturers of

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

Catalog No. 105

1944



Branch Offices

51 FREMONT ST.
SAN FRANCISCO 5, CAL.

P. O. BOX 34
BOYNTON BEACH, FLA.

35 BROOKVALE ST.
DORCHESTER 24, MASS.

1212 VENICE BLVD.
LOS ANGELES 6, CAL.

1005 MAGAZINE ST.
NEW ORLEANS 13, LA.

72 MARION ST.
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. We have added a number of new items to our fast growing line which are shown in this catalog. Certain other items shown in our previous catalog No. 100 and not herein have been temporarily discontinued for the duration of the war, many of them will be restored to production at a later date and as the demand warrants. As usual we are adhering strictly to our most stringent rule of high quality, and considering the difficulties encountered in wartime conditions we are proud to say our delivery record is excellent.

PRICES AND TERMS

Prices in this catalog are subject to change without notice and are all F. O. B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.

GUARANTEE

Every item bearing our trade-mark is guaranteed free from defects at time of shipment. In case of defect, adjustments will gladly be made, provided the material is returned to our factory and repairs have not been attempted by other than our own workmen.

RETURN GOODS

Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a 10% handling charge.

WEIGHTS

The weights given in this catalog are not guaranteed, but have been carefully determined and should be sufficient for general purposes.

RATING

Orders from firms unknown to us and having no satisfactory commercial rating must be accompanied by cash or satisfactory references. C. O. D. shipments will be made if a 25% deposit is sent with order.

SHIPPING INSTRUCTIONS

Customers should send specific shipping instructions. But if this is not done, we will use our own judgment in selecting route.



Frederick Perkins - President

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

REGULATIONS OF MOTOR BOATS

DEPT. OF COMMERCE
BUREAU OF MARINE INSPECTION
AND NAVIGATION

DEPT. CIRCULAR NO. 286
APRIL 27, 1940

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

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

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

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

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

Class A. Less than sixteen feet in length.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



"Perko" De-Lite Combination Lights

TURRET TOP

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

OIL AND ELECTRIC, DOUBLE CONTACT

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9 3/4 inches

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

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

Weight, 3 pounds

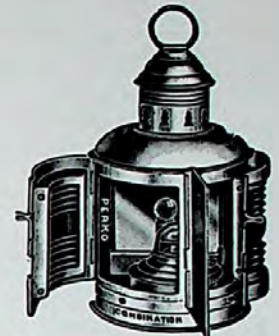


(Closed)

Galvanized
Each
\$6.00

Polished
Brass
Each
\$7.50

Chromium
Plated
Each
\$8.75



(Opened)

Fig. 0-1

De-Lite Combination Lights

FLAT TOP

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 6 1/2 inches

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

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

Weight, 2 1/2 pounds

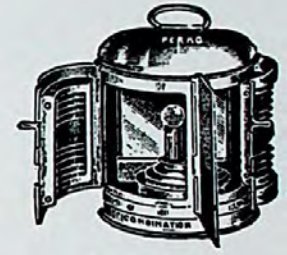


(Closed)

Galvanized
Each
\$5.50

Polished
Brass
Each
\$7.00

Chromium
Plated
Each
\$8.25



(Opened)

Fig. 0-10

Old Style Combination Lights

FOR CLASS 1 BOATS

WITH RED AND GREEN LENSES

Height less Ring, 9 inches.

Meas. of Base, 4 3/4 x 4 1/2 inches.

Size of Lenses, 3 3/8 x 3 3/8 inches.

Weight, 3 3/4 pounds.



Fig. 1

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

Electric Socket is Double Contact.

Old Style Combination Lights

FLAT TOP

FOR CLASS 1 BOATS

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

WITH RED AND GREEN LENSES

Height less Ring, 6 1/4 inches.

Meas. of Base, 4 3/4 x 4 1/2 inches.

Size of Lenses, 3 3/8 x 3 3/8 inches.

Weight, 2 pounds.



Fig. 3

	Galvanized Each	Polished Brass Each
	\$4.65	\$5.85

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

SPARE PARTS

	Each
Lenses, fig. 259, Class 1 Combination	\$.90
Oil Founts, fig. 582, Brass, for fig. 01	.75
Oil Founts, fig. 733, Brass, for fig. 1	.75
Oil and Electric Founts, fig. 733, Brass, for fig. 1	1.65
Oil Burners, fig. 246, No. 0, Brass	.16
Oil Wicks, fig. 302 No. 0	.03
Electric Sockets, Double Contact fig. 276	.40
Electric Sockets, Medium Screw fig. 222	.40



“Perko” De-Lite Anchor Lights

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



Fig. 0-2

Height
Less Ring
Inches
8 3/8

Diam.
Base
Inches
4 1/2

Size of
Lens
Inches
3 1/4 x 3 1/4

Weight
Each
Pounds
2

OIL OR ELECTRIC ONLY

Galv. Each \$3.85	Polished Brass Each \$5.25	Polished Copper Each \$9.25	Chromium Plated Each \$6.35
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OIL AND ELECTRIC COMBINED

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

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



Fig. 735



Fig. 0-6

Height
Less Ring
Inches
11 3/4

Diam.
Base
Inches
5 3/8

Size of
Lens
Inches
4 1/4 x 4

Weight
Each
Pounds
3

OIL OR ELECTRIC ONLY

Galv. Each \$4.95	Polished Brass Each \$7.15	Polished Copper Each \$10.75	Chromium Plated Each \$8.60
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OIL AND ELECTRIC COMBINED

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

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

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

JUNIOR



Fig. 11

Height
Less Ring
Inches
6

Diam.
Base
Inches
4 1/2

Size of
Lens
Inches
3 1/4 x 3 1/4

Weight
Each
Pounds
1 1/2

Galv. Each \$3.35	Polished Brass Each \$4.75	Polished Copper Each \$8.75	Chromium Plated Each \$5.85
-------------------------	-------------------------------------	--------------------------------------	--------------------------------------

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

SENIOR



Fig. 12

Height
Less Ring
Inches
9

Diam.
Base
Inches
5 3/8

Size of
Lens
Inches
4 1/4 x 4

Weight
Each
Pounds
2 1/2

Galv. Each \$4.45	Polished Brass Each \$6.65	Polished Copper Each \$10.25	Chromium Plated Each \$8.10
-------------------------	-------------------------------------	---------------------------------------	--------------------------------------

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

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

SPARE PARTS

Lenses, fig. 261, Clear, for figs. 02 and 11	Each	\$.85
Lenses, fig. 261, Clear, for figs. 06 and 12	Each	1.25
Oil Founts, fig. 287, Brass, for fig. 02	Each	.75
Oil Founts, fig. 286, Brass, for fig. 06	Each	.75
Oil Burners, fig. 246, No. 0, Brass, for fig. 02	Each	.16
Oil Burners, fig. 246, No. 1, Brass, for fig. 06	Each	.18
Other parts, see page 5		

"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
\$9.40

Polished
Brass
Per Pair
\$12.00

Chromium
Plated
Per Pair
\$14.50



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP

CLASS 2—OIL AND ELECTRIC, DOUBLE CONTACT

Height, less ring, 10½ inches
Size of lens, 4¾ inches x 6¾ inches
Measurements of base, 5 inches x 5½ inches
Weight, each, 3 pounds

Fig. 0-5



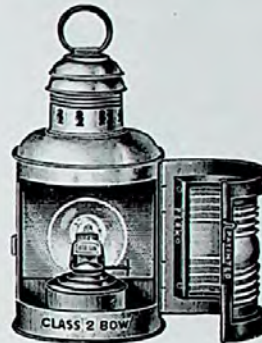
(Closed)

With clear lens
With colored lens

Galvanized
Each
\$4.70
5.70

Polished
Brass
Each
\$6.00
7.00

Chromium
Plated
Each
\$7.25
8.25



(Opened)

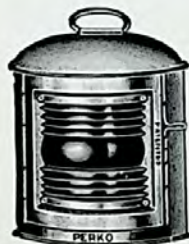
"Perko" De-Lite Side Lights

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¼ inches
Measurements of base, 5¾ inches x 5½ inches
Size of lens, 4¼ inches x 4¾ inches
Weight, per pair, 5½ pounds

Fig. 0-40



(Closed)

Galvanized
Per Pair
\$8.40

Polished
Brass
Per Pair
\$11.00

Chromium
Plated
Per Pair
\$13.50



(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, 4¾ inches x 6¾ inches
Weight, each, 2¾ pounds

Fig. 0-50



(Closed)

With clear lens
With colored lens

Galvanized
Each
\$4.20
5.20

Polished
Brass
Each
\$5.50
6.50

Chromium
Plated
Each
\$6.75
7.75



(Opened)

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

Lenses, fig. 259 Class 2, for figs. 04 and 0-40	Each	\$1.25
Lenses, fig. 260 Class 2, for figs. 0-5 and 0-50	Each	1.25
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5	Each	.75
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-4 and 0-5	Each	.18
Oil Wicks, fig. 302 No. 1	Each	.03
Electric Sockets, Double Contact fig. 276	Each	.40
Electric Sockets, Medium Screw fig. 222	Each	.40



"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, $5\frac{1}{2}$ inches x $5\frac{1}{2}$ inches
Weight, per pair, 8 pounds



(Closed)



(Opened)

Fig. 0-8

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

"Perko" De-Lite Bow Lights

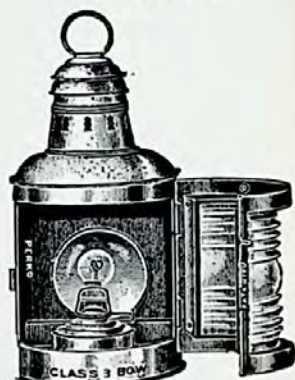
TURRET TOP

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 $6\frac{1}{8}$ inches
Weight, each, 4 pounds



(Closed)



(Opened)

Fig. 0-9

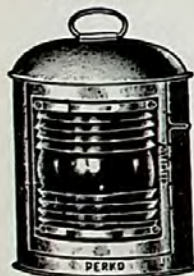
	Galvanized Iron Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$5.80	\$8.10	\$ 9.50
With colored lens	6.80	9.10	10.50

"Perko" De-Lite Side Lights

FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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



(Closed)



(Opened)

Fig. 0-80

Galvanized Iron Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$10.60	\$15.20	\$18.00

"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 $6\frac{1}{8}$ inches
Weight, each, 4 pounds



(Closed)



(Opened)

Fig. 0-90

	Galvanized Iron Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$5.30	\$7.60	\$ 9.00
With colored lens	6.30	8.60	10.00

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

SPARE PARTS

Lenses, fig. 259 Class 3, for figs. 0-8 and 0-80	Each	\$1.50
Lenses, fig. 260 Class 3, for figs. 0-9 and 0-90	Each	1.50
Oil Founts, fig. 582, Brass, for figs. 0-8 and 0-9	Each	.75
Oil Burners, fig. 246 No. 1, Brass, for figs. 0-8 and 0-9	Each	.18
Oil Wicks, fig. 302 No. 1	Each	.03
Electric Sockets, Double Contact fig. 276	Each	.40
Electric Sockets, Medium Screw, fig. 222	Each	.40

Old Style Class 2 Side Lights

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



Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{8}$ inches
Extreme Height, $10\frac{1}{2}$ inches
Size of Base, $4\frac{3}{4} \times 5\frac{1}{2}$ inches
Weight, per pair, $5\frac{1}{2}$ lbs.

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

Fig. 17

Old Style Class 3 Side Lights

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



Size of Lenses, $5\frac{1}{8} \times 5\frac{1}{8}$ 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	\$ 9.90	\$14.50
Oil and Electric	10.50	15.00

Fig. 19

Old Style Flat Top Side Lights

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



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

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

Fig. 4

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
2	\$6.70	\$ 9.50	\$11.50
3	8.90	13.50	16.50

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

Old Style Class 2 Bow Lights

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



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

WITH CLEAR LENS

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

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

Fig. 18

Old Style Class 3 Bow Lights

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



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

WITH CLEAR LENS

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

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

Fig. 20

Old Style Flat Top Bow Lights

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



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

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

Fig. 5

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$3.35	\$4.75	\$5.75
3	4.45	6.75	8.25

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

Navy or Life Boat Lantern

OIL ONLY



Fig. 49

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

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

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

Engineer's Hand Lantern

OIL ONLY



Fig. 50

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

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

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

Portable Staff Light

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



Fig. 16

Polished Brass Each	Polished Copper Each	Size Lens Inches	Height Less Balls Base Inches	Diam. Base Inches	Weight Pounds
\$12.00	\$15.00	4 1/4 x 4	8 1/4	5 5/8	2 1/2

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

Royal Combination Lights

HEAVY GALVANIZED IRON AND BRASS ELECTRIC ONLY

FOR CLASSES A AND 1 BOATS

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



Fig. 89

Height Inches	Width Inches	Size Lens Inches	Weight Lbs.
3 3/4	4 1/4	3 5/8 x 3 5/8	1 1/4

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$3.90	\$4.50	\$5.50

Royal Side Lights

ELECTRIC ONLY

FOR CLASS 2 AND 3 BOATS

Same construction as above.



Fig. 91

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

Class	Galv. Per Pair	Pol. Brass Per Pair	Chrom. Plated Per Pair
Class 2	\$5.25	\$7.50	\$ 9.70
Class 3	6.60	8.80	11.00

Royal Bow Lights

ELECTRIC ONLY

FOR CLASS 2 AND 3 BOATS

Same construction as above.



Fig. 92

Class	Height Inches	Size Lens Inches	Weight Each Lbs.
Class 2	5	4 1/4 x 6 3/8	1 1/2
Class 3	6	5 3/8 x 7 1/8	2

Class	Galv. Each	Pol. Brass Each	Chrom. Plated Each
Class 2	\$2.65	\$3.75	\$4.85
Class 3	3.30	4.40	5.50

Royal Anchor Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS



Fig. 90

Class	Height Inches	Size Lens Inches	Weight Each Lbs.
Junior	4 1/2	3 5/8 x 3 3/8	1 1/4
Senior	5 1/2	4 1/4 x 4	2

Class	Galv. Each	Pol. Brass Each	Chrom. Plated Each
Junior	\$2.75	\$3.85	\$5.00
Senior	3.85	5.00	6.00

Above lights cannot be equipped with medium screw sockets

De-Lite Side Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE

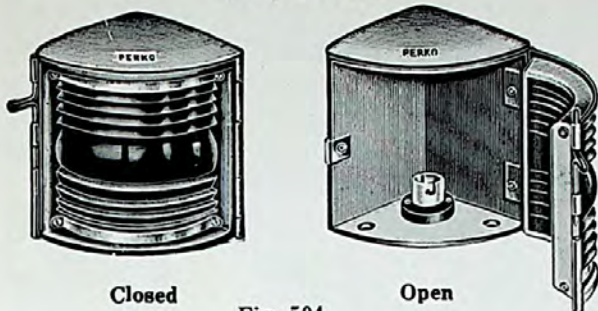


Fig. 504

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

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

Class	Height Inches	Angle Inches	Lens Inches	Weight Per Pair Lbs.
2	5 1/2	3 3/4 x 3 3/4	4 1/4 x 4 7/8	6 1/2
3	6	4 x 4	5 3/16 x 5 9/16	8

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$12.00	\$14.50	\$1.25	\$.50
3	15.50	18.25	1.50	.50

With medium screw sockets to order—no extra charge
Double contact sockets furnished unless otherwise specified

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

De-Lite Bow Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE



Fig. 505

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

Class	Height Inches	Width Inches	Lens Inches	Weight Lbs.
2	5 1/2	5 1/2	4 1/4 x 6 3/8	3 1/4
3	6 1/2	6	5 3/16 x 7 1/8	4 1/4

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$6.00	\$7.25	\$1.25	\$.50
3	7.75	9.25	1.50	.50

With medium screw sockets to order—no extra charge
Double contact sockets furnished unless otherwise specified

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

Watertight Side Lights

CAST BRONZE—DOUBLE CONTACT
FOR CLASS 2 BOATS

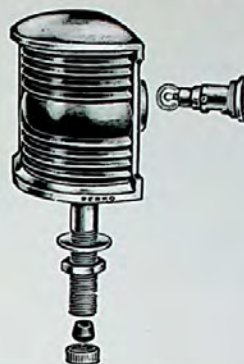


Fig. 1250

Complete with threaded rebulbing plug and thru deck stuffing tube for cable entrance. A pair consists of 2 lights, green for starboard side and red for port side. 112 1/2 degrees.

Polished Per Pair	Lens Inches	Height Light Inches	Length Tube Inches	For Diam. Cable Inches	Weight Per Pair Pounds
\$20.00	4 1/4 x 4 3/4	5 1/4	4 1/4	1/2	7

Equipped with Candelabra Socket if required.
Spare red or green lenses, fig. 259, \$1.25 Each
Spare Sockets, fig. 747, .20 Each

Watertight Bow Lights

CAST BRONZE—DOUBLE CONTACT
FOR CLASS 2 BOATS



Fig. 1251

Complete with Rebulbing Plug in back (illustrated with Fig. 1250) and thru deck Stuffing Tube. 180 degree clear Fresnel Lens.

Polished Each	Lens Inches	Height Light Inches	Length Tube Inches	For Diam. Cable Inches	Weight Each Pounds
\$10.00	4 1/4 x 6 3/8	5 1/4	4 1/4	1/2	4

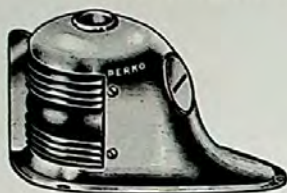
Equipped with Candelabra Socket if required.
Spare clear lenses, fig. 260, \$1.25 Each
Spare Sockets, fig. 747, .20 Each

COMBINATION LIGHTS—ELECTRIC

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

Lightweight Streamline Pattern

WITH REBULBING FEATURE
HEAVY GAUGE STAMPED BRASS



Rear view showing method of changing bulb

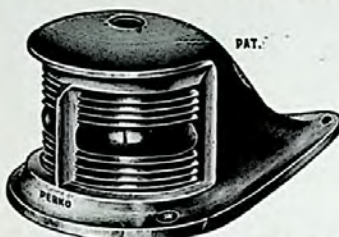
Fig. 1140

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	
\$3.60	\$4.25	\$.60	\$1.00	

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 5 3/4	2 1/8 x 3	3/4	1 1/4
2	3 3/4	4 7/8 x 8	2 1/8 x 3	3/4	2 1/2
3	4 3/8	5 1/2 x 8 3/4	3 1/8 x 3 5/8	1	4 3/4
No.	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
1	\$ 6.50	\$ 7.50	\$.60	\$.20	
2	7.50	8.50	.60	.20	
3	11.00	12.50	.90	.20	

Wrought Brass Type

FOR PERMANENT MOUNTING



Fig. 485

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

Height Overall Inches	Diam. Body Inches	Diam. Base Inches	Size Lens Inches	Weight Lbs.
4 1/2	2 1/2	2 1/2	2 1/8 x 3	3/4
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
\$2.75	\$3.25	\$.60	\$.45	

FOR TEMPORARY MOUNTING
WITH REMOVABLE BRACKET



Fig. 486

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

Height Inches	Diam. Inches	Lens Inches	Weight Lbs.
4	2 1/2	2 1/8 x 3	1
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$3.00	\$3.50	\$.60	\$.75
			Spare Brackets Each
			\$.35

Lightweight Type

FOR LARGE CLASS 1 MOTORBOATS
STAMPED SHEET BRASS

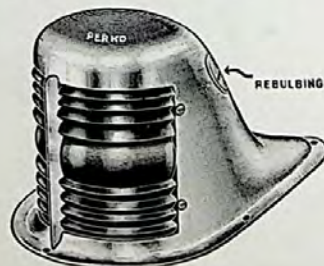


Fig. 1141

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

Furnished with red and green fresnel lenses and double contact electric socket. With or without flagpole 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 1/4	1	2
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
\$6.25	\$7.25	\$1.50	\$.20	

With Flag Pole Socket add \$.50 each.



Streamline Side Lights

CAST BRONZE
CLASSES 2 AND 3—ELECTRIC

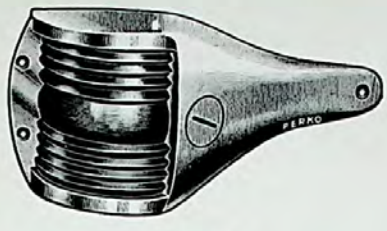


Fig. 563

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	9 1/4	5 1/8 x 5 1/8	7
Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$14.50	\$16.50	\$1.25	\$.20
3	20.00	22.50	1.50	.20

Lightweight Streamline Side Lights

STAMPED SHEET 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
Polished Brass Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
\$10.25	\$12.50	\$1.25	\$.20

Streamline Bow Lights

CAST BRONZE
CLASSES 2 AND 3—ELECTRIC

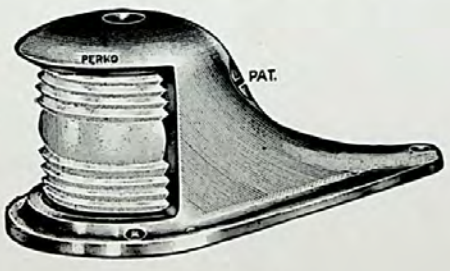


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Base Inches	Lens Inches	Weight Pounds	Flagpole Socket Inches
2	5	5 5/8 x 9 7/8	4 1/4 x 6 3/8	6	1
3	6 3/8	6 5/8 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	Flagpole Socket Each
2	\$13.25	\$16.00	\$1.25	\$.20	
3	19.00	22.00	1.50	.20	

Lightweight Streamline Bow Lights

STAMPED SHEET BRASS
CLASS 2—ELECTRIC

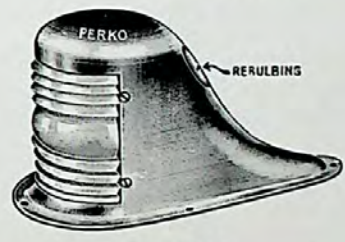


Fig. 1139

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 5/8	5 5/8 x 9 1/2	4 1/4 x 6 3/8	1	2
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	Spare Sockets Each
\$6.00	\$7.25	\$1.25	\$.20	\$.20

With Flag Pole Socket add \$.50 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
 FOUR COATS VARNISH—HAND RUBBED



Fig. 531

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

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

Globe will accommodate bulb up to 50 C. P.

Length Pole Inches	Polished Brass Each	Chromium Plated Each	Diam. Base of Pole Inches
24	6.50	7.50	1¼
30	6.75	7.75	1¼
36	7.00	8.00	1¼
42	7.50	8.50	1¼
48	8.00	9.00	1¼

Spare-clear globes (2½ or 3 inch), \$.85 Each
 Spare electric bulb sockets fig. 747, .20 Each
 Electric connectors only, (male and female) \$1.00 per set
 Complete except F. P. socket, deduct \$1.00 Each
 With Red, Green or Blue Globe, add .25 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	\$5.75	\$6.75	1
24	6.00	7.00	1 1/6
30	6.25	7.25	1 1/4

Complete except F. P. socket—deduct \$.75 Each
 Spare clear globes, .60 Each
 Spare electric bulb sockets, fig. 747, .20 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	\$5.00	\$6.00	¾
24	5.25	6.25	¾
30	5.50	6.50	¾

Complete except F. P. socket, deduct \$.50 Each
 Spare clear globes, .60 Each
 Spare electric bulb sockets fig. 747, .20 Each



Combination Flag Pole and Light

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



Fig. 492

Length Overall Inches	Diameter Base Inches
24	1¼
30	1¼
36	1¼
42	1¼
48	1¼

Length Overall Inches	Polished Brass Each	Chromium Plated Each
24	3.85	4.60
30	4.00	4.75
36	4.25	5.00
42	4.75	5.50
48	5.25	6.00

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

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) \$.85 Each

Spare electric bulb sockets Fig. 747, .20 Each

With Red, Green or Blue Globe, add .25 Each

Junior Flag Pole Lights

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



Fig. 603

Wires concealed in pole and passing through socket under deck.

Length Overall Inches	Polished Brass Each	Chromium Plated Each	Diam. Pole Inches	Weight Oz.
20	\$3.60	\$4.60	¾	11
24	3.85	4.85	¾	12
30	4.25	5.25	¾	16

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



Fig. 496

Junior Flag Pole Lights

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



Fig. 602

Length Overall Inches	Diam. Base Inches	Weight Oz.
20	¾	7
24	¾	8
30	¾	9

Height Inches	Polished Brass Each	Chromium Plated Each
20	\$3.25	\$4.00
24	3.50	4.25
30	3.75	4.50

Globe will accommodate 6 C. P. bulb.

Spare clear globes, \$.60 Each
 Spare electric sockets Fig. 747, \$.20 Ea.

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

With 1 inch diam. base,
 With brass ferrule,

add \$.25 Each
 add .25 Each

Pole Lights

BRASS—WITH THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET—5 FEET OF CABLE

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



Fig. 600



Fig. 601

No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each	Height Inches	I. D. Neck Inches	Wt. Oz.
1	\$2.50	\$3.00	\$.60	\$.20	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	\$2.65	\$3.25	\$.85	2½	5	¾	12
2	2.65	3.25	.85	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	\$3.90	\$4.50	\$.85	2½	5	¾	1
2	3.90	4.50	.85	3	5¾	¾	1½

NOTES

Figs. 484, 491 and 600 wired through bottom
Figs. 482, 498 and 601 wired through side
With Red, Green or Blue Globe, add \$.25 Each

Pole or Mast Light

HEAVY BRASS—THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET—FOR ½ INCH PIPE



Fig. 362

With 2½ 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	\$3.00	\$3.25	\$3.75	2½	3½	2¼	1
2	3.00	3.25	3.75	3	4	2¼	1½

Stern Lights

BRASS—WITH THREADED FRESNEL GLOBE
DOUBLE CONTACT SOCKET

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	\$3.30	\$4.30	2½	5½	2¾	12
2	3.30	4.30	3	6	2¾	14

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	\$4.50	\$5.50	2½	5½	2¾	18
2	4.50	5.50	3	6	2¾	20

NOTES

Spare clear globes for Figs. 362, 422 and 506, \$.85 Each
Spare sockets Fig. 747, \$.20 Each
With Red, Green or Blue Globe, add \$.25 Each

Stern Lights

CAST BRONZE



Fig. 375

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

Height Inches	Diam. Base Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.
7	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
\$7.00	\$7.75	\$8.75	\$.85	\$.20

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

With medium screw socket fig. 346 for 15 watt bulb, add \$1.00 each.

Mast Lights

CAST BRONZE



Fig. 521

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

Height Inches	Diam. Body Inches	Size Lens Inches	Inside Length Neck Inches	Inside Diam. Neck 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	
\$6.75	\$7.25	\$8.25	\$.85	\$.20	

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

With medium screw socket fig. 346 for 15 watt bulb add \$1.00 each.

Stern Lights

CAST BRONZE

WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 75 WATTS



Fig. 112

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

Height Overall Inches	Diam. Base Inches	Size of Globe Inches
8 3/4	3 1/8	5 x 3 1/2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
\$5.00	\$5.50	\$6.60

Spare globes, \$1.35 each.
Spare sockets, \$.40 each.

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

With double contact socket fig. 276, add \$.40 each.

Mast Lights

CAST BRONZE

WITH FIG. 106 THREADED GLOBE FOR BULB UP TO 75 WATTS



Fig. 113

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

Height Overall Inches	For Mast Inches	Inside Length Neck Inches	Size of Globe Inches
9	2 1/8	2 1/2	5 x 3 1/2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	
\$5.50	\$6.50	\$7.75	

Spare globes, \$1.35 each.

Spare sockets, \$.40 each.

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

With double contact socket fig. 276, add \$.40 each.

Stern Light

WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height desired.

Overall Height Inches	Diam. Base Inches	Diam. Neck Inches	Size Lens Inches
10	3 1/2	7/8	3 1/8 x 3 1/8
Polished Brass Each	Chromium Plated Each		
\$4.25	\$5.25		

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

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

Spare clear lens fig. 261, \$.85 each.
Spare socket fig. 276, .40 each.



Fig. 1119

Mast Light

MEDIUM SCREW SOCKET
CAST BRONZE—THREADED GLOBE

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



Fig. 309

Height Overall Inches	Size Globe Inches	Opening in globe Inches
6 1/2	5 x 3 1/2	2 3/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
\$4.75	\$5.25	\$6.50

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

Spare clear globes fig. 106, \$1.35 each.

Spare sockets fig. 222, \$.40 each.

With double contact socket fig. 276, add \$.40 each.



Mast Light

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



Fig. 103

Will accommodate 15 watt A-17 bulb.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Globe Inches	Threaded I. P. S. Inches	Weight Pounds
\$4.50	\$5.50	6	3	1/2	2

With red, green or blue globe, add \$.60 each.

Spare clear globes fig. 249, \$1.00 each.

Spare sockets fig. 222, \$.40 each.

With double contact socket fig. 276, add \$.40 each.

Truck and Yardarm Fixture

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



Fig. 104

Will accommodate 15 watt A-17 bulb.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Globe Inches	Extreme Width Inches	Weight Pounds
\$5.00	\$6.00	5 3/8	3	4 1/4	2

With red, green or blue globe, add \$.60 each.

Spare clear globes fig. 249, \$1.00 each.

Spare sockets fig. 222, \$.40 each.

With double contact socket fig. 276, add \$.40 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.

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

Spare clear globes fig. 77, \$.90 each.

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

Special porcelain electric sockets only fig. 222, \$.60 each.

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



Fig. 489

Anchor and Boom Lights

CAST BRONZE—PLAIN—WATERTIGHT
B. OF ENG. DRAWING NO. 9-S-4889-L
TYPES E AND F

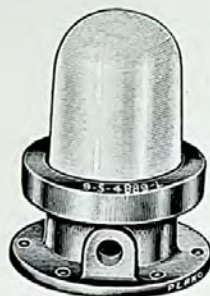


Fig. 4889

Complete with White Diffusing Globe Flare Lip Type, Drawing No. 9-S-2034-L and Bakelite Edison Socket for 50 watt single filament bulb.

Type E for Steel Staffs and Booms.

Type F for Wood Staffs and Booms.

Type	Complete Each	Spare Globes Each	Extreme Height Inches	Extreme Diam. Inches	Weight Pounds
E	\$12.00	\$1.00	8	6	7 3/4
F	12.00	1.00	6 1/2	6	7

With red globe for use as aircraft warning or break-down light add \$1.50 each.

Spare red globes \$2.00 each.

Mast Lights

CAST BRONZE—WIRE GUARD
DOUBLE CONTACT SOCKET—PLAIN GLOBE
WITH OR WITHOUT REFLECTING HOOD



Fig. 1268



Fig. 1267

Globe is threaded type navy drawing 9-S-3129-L. Hood is spun brass, painted dull black outside white enamel inside.

Socket is double contact fig. 472 No. 20.

Base threaded 1/2 inch I. P. S.

Fig.	Plain Bronze Each	Spare Globes Each	Spare Sockets Each	Height Overall Inches	Diam. Overall Inches	Wt. Lbs.
1267	\$7.50	\$.75	\$.50	6	7	3
1268	5.50	.75	.50	6	4 1/4	2 1/4

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

With medium screw socket fig. 565 for 15 watt bulb, add \$.50 each.

With candelabra screw socket fig. 15, add \$.25 each.

Truck Lights

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



Fig. 1259

Has 4 Candelabra Sockets in top section and 3 Candelabra Sockets in bottom section for 15 Watt Bulbs. Bulbs not included.

Extreme Height Inches	Size Lens Inches	Threaded for Pipe Inches	Weight Pounds
12 3/4	4 1/4 x 4	3/4	9 1/2
Each	Bulbs Only Each	Spare Sockets Each	
\$40.00	\$.70	\$.40	

Spare clear lenses, fig. 261, \$1.25 each.
Spare red lenses, fig. 261, 1.80 each.

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	\$10.00	\$10.50	1 medium screw socket
1-A	11.50	12.00	2 or 3 candelabra sockets
2	12.00	12.75	1 medium screw socket
2-A	13.50	14.25	2 or 3 candelabra sockets
2-B	17.50	18.25	6 light candelabra unit
2-C	14.50	15.25	1 mogul 3 wire socket
3	17.00	20.00	1 medium screw socket
3-A	19.00	22.00	4 medium screw sockets
3-B	20.50	23.50	3 candelabra sockets
3-C	23.00	26.00	6 light candelabra unit
3-D	19.50	22.50	1 mogul 3 wire socket

All above sockets are Phenolic (Bakelite).

6 Light Candelabra unit, see fig. 845.

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, \$.40 each.
120 volt 15 watt T-7 clear for nos. 1-A, 2-A, 2-B, 3-B, and 3-C, \$.70 each.
120 volt 25 watt T-10 clear for no. 3-A, \$.60 each.
120 volt 50/50 watt P-25 clear for no. 2-C, 3-D, \$4.25 each.

Combination Blinker and Loading Light

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



Fig. 1163

Four sockets in lower section for 25 watt tubular bulbs. One socket in upper section for bulb up to 75 watt. Bulbs not included. Base threaded 1 inch I. P. S.

Extreme Height Inches	Size Red Lens Inches	Size Clear Lens Inches	Wt. Lbs.
16 1/2	5 x 3 1/2	5 1/2 x 5 1/4	18
Each	Tubular Bulbs Each	Spare Sockets Each	
\$40.00	\$.60	\$.40	

Spare clear lenses fig. 261, \$3.50 each.

Spare red lenses fig. 106, \$2.35 each.

With larger thread in base up to 1 1/2 inch I. P. S., add \$1.00 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
\$14.50	4 3/8	2 3/4	2 3/8	4

Steering Light

CAST BRONZE—PLAIN
B. OF ENG. DRAWING NO. 9-S-2057-L
TYPE A

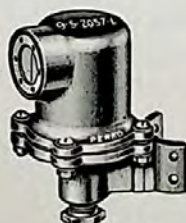


Fig. 2057

Complete with Mounting Bracket for 2 Inch Jack Staff and Candelabra Socket for 2 C. P. Bulb. Bulb not included.

Each	Spare Lens Each	Spare Bulb Each	Extreme Height Inches	Wt. Lbs.
\$12.00	\$.50	\$.50	4 7/8	3



ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG
Waterproof — 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	\$42.00	\$52.00	6¾	11	7¼ x 7¼	18	65 to 150
2	50.00	62.00	7½	13½	9½ x 9½	30	over 150
3	98.00	114.00	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 Each Pounds
1	\$21.00	\$26.00	6¾	11	7⅞ x 7¾	8⅞	10
2	25.00	31.00	7½	13½	9 x 10	10⅞	15
3	49.00	57.00	8½	15¼	10¾ x 11¼	12¾	21

With red or green lens (special purpose) add \$5.00 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	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
1	\$21.00	\$26.00	6¾	11	7 x 7½	8⅞	9
2	25.00	31.00	7½	13½	9 x 10	10⅞	12
3	49.00	57.00	8½	15¼	10⅞ x 10¾	12¼	15

With blue lens (for convoy) add \$1.00 each.
 With red or green lens (special purpose) add \$5.00 each.
 With 45 degree red lens (for suction dredges) add \$7.50 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	\$20.00	\$25.00	6¾	12½	7⅞	11
2	24.00	30.00	7½	14¼	9½	16
3	48.00	56.00	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 Each Pounds
1	\$23.00	\$28.00	6¾	12½	7⅞	11
2	27.00	33.00	7½	14¼	9½	16
3	53.00	61.00	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 \$3.00 each.
 With medium Screw Phenolic Sockets fig. 346, deduct \$1.00 each.
COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION
 NO. 3 SIZE USED ON LARGE U. S. M. C. VESSELS SUCH AS LIBERTY SHIPS, ETC.

OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

American Improved Hinged Top — Bottom Opening

SWIVEL FOUNT FIG. : 82 — HINGED BURNER FIG. 242

LIP CHIMNEY FIG. 267 — FLAT WICK FIG. 302



Fig. 1155

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. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$40.00	\$50.00	5½	13¾	6¾ x 6¾	14	65 to 90
1	42.00	52.00	6¾	14¾	7¼ x 7¼	18	90 to 150
2	50.00	62.00	7½	18	9½ x 9½	29	over 150
3	98.00	114.00	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	\$20.00	\$25.00	5½	13¾	7 x 7¼	8½	7
1	21.00	26.00	6¾	14¾	7½ x 7¾	8¾	9
2	25.00	31.00	7½	18	9 x 10	10⅞	15
3	49.00	57.00	8½	19¾	10¾ x 11¼	12¾	21

With red or green lens, (special purpose) add \$5.00 each.



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	\$20.00	\$25.00	5½	13¾	7 x 7¼	8½	6
1	21.00	26.00	6¾	14¾	7 x 7½	8¾	8
2	25.00	31.00	7½	18	9 x 10	10⅞	13
3	49.00	57.00	8½	19¾	10⅞ x 10¾	12¼	16

With blue lens (for convoy) add \$1.00 each.
With red or green lens (special purpose) add \$5.00 each.
With 45 degree red lens (for suction dredges) add \$7.50 each.



Fig. 1157

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	\$19.00	\$24.00	5½	13¾	7¾	10
1	20.00	25.00	6¾	14¾	7¾	11
2	24.00	30.00	7½	18	9½	17
3	48.00	56.00	8½	19¾	11	23

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	\$22.00	\$27.00	5½	13¾	7¾	10
1	23.00	28.00	6¾	14¾	7¾	11
2	27.00	33.00	7½	18	9½	17
3	53.00	61.00	8½	19¾	11	23

COMBINATION OIL AND ELECTRIC LIGHTS
With single 2 wire medium screw adapter fig. 288 add \$1.75 each.
With double 2 wire medium screw adapter fig. 289 (for sizes 2 and 3 only) add \$3.00 each.
With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$3.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

NO. 3 SIZE USED ON LARGE U. S. M. C. VESSELS SUCH AS LIBERTY SHIPS, ETC.



Fig. 1158

Fig. 1159



Complete oil lamp used in all lights on this page.



ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG Non-Watertight — 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. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel feet
0	\$27.00	\$37.00	5½	10½	6½ x 6½	12	65 to 90
1	29.00	39.00	6¾	11	7½ x 7½	14	90 to 150
2	40.00	52.00	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	\$13.50	\$18.50	5½	10½	7 x 7	8½	6
1	14.50	19.50	6¾	11	7 x 7	8¾	8
2	20.00	26.00	7½	13½	9 x 9½	10¾	12½

With red or green lens (special purpose) add \$5.00 each.



Fig. 983

Stern Lights, Fig. 986

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	\$13.50	\$18.50	5½	10½	7 x 7	8½	5½
1	14.50	19.50	6¾	11	7 x 7	8¾	7
2	20.00	26.00	7½	13½	9 x 9½	10¾	9½

With blue lens (for convoy) add \$1.00 each.

With red or green lens (special purpose) add \$5.00 each.

With 45 degree red lens (for suction dredges) add \$7.50 each.



Fig. 986

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	\$12.50	\$17.50	5½	11	7½	8
1	13.50	18.50	6¾	12	7½	9
2	19.00	25.00	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	\$15.50	\$20.50	5½	11	7½	8
1	16.50	21.50	6¾	12	7½	9
2	22.00	28.00	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 \$.50 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$1.50 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

Globe—Distress or Signal Light

OIL—TURRET TOP—BOTTOM OPENING
CLEAR GLOBE



Fig. 44

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

With red, green, blue or frosted globe, add \$2.00 each.
Electric only, same prices as above.
Comb. oil and electric 6 and 8 inch, add \$1.10 each.
Comb. oil and electric 10 inch, add \$1.75 each.
Hinged bottom furnished with 8 inch size only.

SPARE PARTS

Size	Globes	Burners	Founts	
			Oil	Elec.
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. 246 No. 2	Fig. 282	Fig. 288

Superior Bulkhead Lantern

OIL—WITH REMOVABLE GLASSES



Fig. 46

Galvanized Each	Polished Brass Each	Glasses Only Each	Size Body		Height Overall Inches
			Front Inches	Side Inches	
\$14.00	\$19.00	\$.50	9 x 13	7¾ x 13	16

Brass founts with burner, wick and chimney, \$3.50 each.

Wake Light

CAST BRONZE—PLAIN
NAVY DRAWING NO. 9-S-4298-L
TYPE II



Fig. 4298

Complete with 3 wire Bakelite Navy Type Mogul Sockets for 100 Watt BI-Filament Bulb.

Without Bulb Each	With Bulb Each	Spare Lens Each	Ex-treme Length Inches	Ex-treme Width Inches	Weight Pounds
\$24.00	\$29.00	\$1.00	15	6	12¾

Spare sockets fig. 270, \$1.50 each.
Spare bulbs fig. 532, \$4.50 each.

Aerial Shields For Navigation Lights

GALVANIZED STEEL—DULL BLACK FINISH

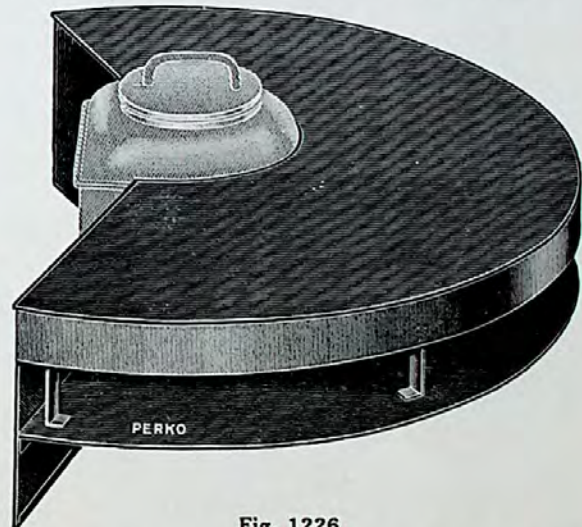


Fig. 1226

Similar to bureau of ships design and in accordance with U. S. Maritime Commission requirements.

Designed to shield light at an angle of 15 degrees above the horizontal.

Complete with brackets for attachment to lights.

No.	Each	Size Light	Type of Light
1225-2	\$19.00	2	Side, 112½°
1226-2	22.00	2	Mstd. Range, Towing, 225°
1227-2	20.00	2	Stern, 135°
1228-2	24.00	2	Anchor, Breakdown, 360°
1225-3	22.00	3	Side, 112½°
1226-3	24.00	3	Mstd. Range, Towing, 225°
1227-3	23.00	3	Stern, 135°
1228-3	26.00	3	Anchor, Breakdown, 360°

Above light sizes are those shown on pages 20-23 inc.

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. 250 Height Inches	Height Less Ring Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
9	\$29.00	\$39.00	5½	14	6½ x 6½	13	65 to 90
10	31.00	41.00	6¾	15	7½ x 7½	15	90 to 150
11	42.00	54.00	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	\$14.50	\$19.50	5½	14	7 x 7	8½	7½
1	15.50	20.50	6¾	15	7 x 7	8¾	9½
2	21.00	27.00	7½	18¾	9 x 9½	10¾	14

With red or green lens (special purpose) add \$5.00 each.



Fig. 982



Fig. 985

Stern Lights, Fig. 985

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 Ring Inches	Size Base Inches	C to C of lugs Inches	Weight Each Pounds
0	\$14.50	\$19.50	5½	14	7 x 7	8½	6
1	15.50	20.50	6¾	15	7 x 7	8¾	7½
2	21.00	27.00	7½	18¾	9 x 9½	10¾	10½

With blue lens (for convoy) add \$1.00 each.

With red or green lens (special purpose) add \$5.00 each.

With 45 degree red lens (for suction dredges) add \$7.50 each.

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	\$13.50	\$18.50	5½	14½	7½	8½
22½	14.50	19.50	6¾	16	7½	10
23	20.00	26.00	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	\$16.50	\$21.50	5½	14½	7½	8½
22½	17.50	22.50	6¾	16	7½	10
23	23.00	29.00	7½	18¾	9½	14



Fig. 23
Fig. 129

COMBINATION OIL AND ELECTRIC LIGHTS

With single 2 wire medium screw adapter fig. 288, add \$1.75 each.

With double 2 wire medium screw adapter fig. 289, for sizes 2-11-23 only, add \$3.00 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$3.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

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. 250 Each	Height Lens Inches	Height Lens Handle Inches	Size Base Inches
\$30.00	\$1.25	\$4.50	6¾	11½	7½ x 7½

Above price includes bulbs, no batteries.
With batteries, add \$3.50 per pair.
Bulb is double contact 2.7 volts .15 amp. S-11.
Masthead and stern lights of above design made to order—Price on application.

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	\$13.75	\$16.00	4¼ x 4	16½	6½	5½
2	24.00	26.50	5½ x 5¼	18	6½	8½

No. 1 with red, green or blue lens, add \$1.50 each.
No. 2 with red, green or blue lens, add 3.00 each.
Above prices include bulb, no batteries.
With batteries, add \$3.50 per set.
Spare bulbs, 6 volt .04 amp miniature base, \$.40 each.
Spare lenses, see fig. 261.

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 Pints	Weight Pounds
\$14.50	4¼ x 4	14	7	3½	4½

With red, green or blue lens, add \$1.50 each.
Fig. 596-A Fount complete, \$7.70 each.
Light only, without Fount, \$8.80 each.
Spare burners, wicks and chimneys, see figs. 245 and 272.
Spare lenses, see fig. 261.

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
\$46.00	7½	22	10	6	20

With red, green or blue lens, add \$5.00 each.
Fount complete with burner and gears, \$20.00 each.
Light only, without Fount, \$36.00 each.
Zenith burner only, \$1.00 each.
Zenith burner with gears, \$3.00 each.
Spare lenses, see fig. 261.



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	\$29.00	\$39.00	5½	14	6½ x 6½	13	65 to 90
10	31.00	41.00	6¾	15	7½ x 7½	15	90 to 150
11	42.00	54.00	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	\$14.50	\$19.50	5½	14	7 x 7	8½	7½
1	15.50	20.50	6¾	15	7 x 7	8⅝	9½
2	21.00	27.00	7½	18¾	9 x 9½	10⅞	14

With red or green lens (special purpose) add \$5.00 each.



Fig. 982

Stern Lights, Fig. 985

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



Fig. 985

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	\$14.50	\$19.50	5½	14	7 x 7	8½	6
1	15.50	20.50	6¾	15	7 x 7	8⅝	7½
2	21.00	27.00	7½	18¾	9 x 9½	10⅞	10½

With blue lens (for convoy) add \$1.00 each.

With red or green lens (special purpose) add \$5.00 each.

With 45 degree red lens (for suction dredges) add \$7.50 each.

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	\$13.50	\$18.50	5½	14½	7½	8½
22½	14.50	19.50	6¾	16	7½	10
23	20.00	26.00	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	\$16.50	\$21.50	5½	14½	7½	8½
22½	17.50	22.50	6¾	16	7½	10
23	23.00	29.00	7½	18¾	9½	14



Fig. 23
Fig. 129

COMBINATION OIL AND ELECTRIC LIGHTS

With single 2 wire medium screw adapter fig. 288, add \$1.75 each.

With double 2 wire medium screw adapter fig. 289, for sizes 2-11-23 only, add \$3.00 each.

With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$3.25 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION

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	Fig. 259 Lens Each	Height Lens Inches	Height Less Handle Inches	Size Base Inches
\$30.00	\$1.25	\$4.50	6¾	11½	7½x7½

Above price includes bulbs, no batteries.

With batteries, add \$3.50 per pair.

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

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

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	\$13.75	\$16.00	4¼ x 4	16½	6½	5½
2	24.00	26.50	5½ x 5¼	18	6½	8½

No. 1 with red, green or blue lens, add \$1.50 each.

No. 2 with red, green or blue lens, add 3.00 each.

Above prices include bulb, no batteries.

With batteries, add \$3.50 per set.

Spare bulbs, 6 volt .04 amp miniature base, \$.40 each.

Spare lenses, see fig. 261.

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 Pints	Weight Pounds
\$14.50	4¼ x 4	14	7	3½	4½

With red, green or blue lens, add \$1.50 each.

Fig. 596-A Fount complete, \$7.70 each.

Light only, without Fount, \$8.80 each.

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

Spare lenses, see fig. 261.

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 Fount Inches	Capacity Fount Pints	Weight Pounds
\$46.00	7½	22	10	6	20

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

Fount complete with burner and gears, \$20.00 each.

Light only, without Fount, \$36.00 each.

Zenith burner only, \$1.00 each.

Zenith burner with gears, \$3.00 each.

Spare lenses, see fig. 261.



Fig. 59

Regulation Pier Lights, Fig. 59

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

Galvanized Steel Each	Spare Lens Each	Height Lens Inches	Height Overall Inches	Size Base Inches	Width Overall Inches	Weight Pounds
\$31.00	\$6.50	7 3/8	21	9 x 10	14 1/2	13

With flat top for electric only, \$29.00 each.

Combination Oil and Electric, \$32.75 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
\$27.00	\$33.00	\$9.00	7 1/2	18	9 1/2	17

With flat top for electric only, deduct \$2.00 each.

Combination Oil and Electric, add \$1.75 each.

With red or blue lens, same prices as above.



Fig. 63

Regulation Draw Bridge Lights, Fig. 63

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

Galvanized Steel Each	Spare Lens Each	Spare Founts Each	Height Lens Inches	Height Less Handle Inches	Width Overall Inches	Size Panels Inches	Weight Pounds
\$44.00	\$6.00	\$4.50	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 \$3.00 each.

Spare glass Panels, \$2.00 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	\$33.00	\$44.00	\$3.00	6 3/4	15	8 5/8	10
2	37.50	48.00	4.50	7 1/2	17 1/2	10 7/8	14

With Flat Top fig. 408 for Electric only, Deduct \$2.00 each.
Combination Oil and Electric, Add \$1.75 each.



Fig. 408 Electric



Fig. 407 Oil

SPARE PARTS FOR ALL LIGHTS ABOVE

Oil Founts fig. 282 No. 2 for fig. 407 No. 1.
Oil Founts fig. 282 No. 3 for figs. 59, 80 and 407 No. 2.
Elec. Adapters fig. 288 No. 2 for fig. 408 No. 1.
Elec. Adapters fig. 288 No. 3 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 5/8 in.
 Width base 8 3/4 in.
 Depth base 7 1/2 in.
 Opening in top 5 in.
 Height lens 7 3/8 in.
 Circum. lens at bull's eye 12 1/2 in.
 Weight 19 1/2 lbs.

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

Mid-Channel Light

360 DEGREE GREEN LENS

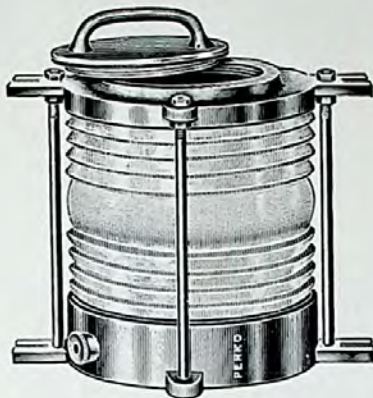


Fig. 1006

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

Each
 Black nickel finish\$42.00

Draw Bridge Light

RED AND GREEN PANEL
 GLASSES
 360 DEGREE CLEAR LENS

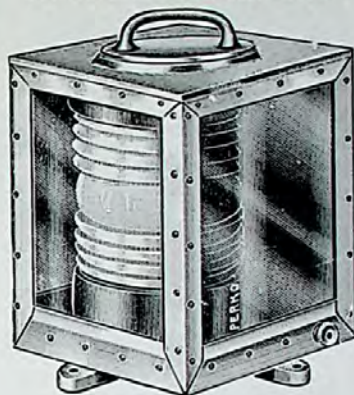


Fig. 1007

Height, less handle 11 1/2 in.
 Width of body 10 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.

Each
 Black nickel finish\$60.00
 Extra panel glasses 2.00

Pier Light

ON PEDESTAL
 180 DEGREE RED LENS



Fig. 125

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

Each
 Black nickel finish\$48.00

Obstruction Light

ON PEDESTAL
 360 DEGREE RED LENS

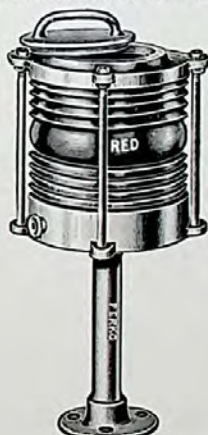


Fig. 126

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

Each
 Black nickel finish\$48.00

Lift Bridge Lights

180 DEGREE RED AND GREEN
 LENSES

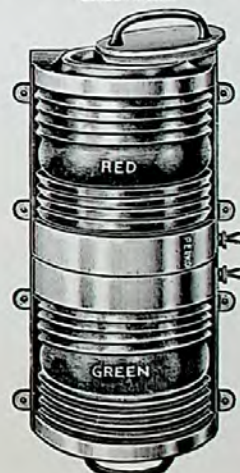


Fig. 127

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

Each
 Black nickel finish\$88.00

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

DAY SIGNALS

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



Fig. 169



Fig. 170



Fig. 171



Ball Folded



Fig. 172



Fig. 173



Frustrum Folded



Fig. 175



Fig. 176

Fig. No.		Diam. Inches	Height Inches	Weight Lbs.	Price Each
169	5 Black ball signal	24	24	2½	\$ 6.00
170	3 Red ball signal	24	24	2½	9.00
171	4 Black and white ball signal	24	24	2½	10.50
172	1 Black and white frustrum	24	48	5	30.00
173	2 Red frustrum	24	48	5	30.00
175	6 Clear towing light, galvanized	7½	14½	9	13.50
176	7 Red towing light, galvanized	7½	14½	9	16.50

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 our Day Shapes are made of highest grade material and can be folded up when not in use and stowed away in 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. 1 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 suctions 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 M Head Lights and two special Four Point Red Lights.

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

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

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	\$8.75	\$11.00	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	\$7.25	\$9.50	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
Midget	\$1.25	\$2.25	4	3½	3½
1	1.25	2.25	4	3¾	4
2	1.25	2.25	4	4	4
3	1.25	2.25	6¼	5¾	6½
4	1.25	2.25	6¼	6½	7

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

Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 141

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Diameter of wall plate 2½ inches. With hinge burner fig. 242 and chimney fig. 267.

No.	Polished Brass Each	Chrome Plated Each	Height Inches	Extension Inches	Capacity Fount Pints	Burner Number
Midget	\$6.00	\$8.50	9	5	½	1
1	6.25	8.75	12½	5½	1	1
2	7.00	9.50	12½	6	1¼	2

Universal Wall Lamp

HEAVY TIN PLATE



Fig. 312

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

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



"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	\$3.30	4	1 3/4	5 1/2	Holophane
2	3.30	4	1 3/4	5 1/2	Frosted
3	3.30	4	3	5 1/2	Holophane
4	3.85	5	2	6 1/2	Frosted
5	3.85	5	3	6 1/2	Holophane

Above prices do not include bulb.
For spare globes see figs. 132, 257 and 258.
Spare sockets fig. 276, \$.40 each.

Watertight Dome Light

CAST BRONZE—DOUBLE CONTACT SOCKET
WITH THREADED DIFFUSING GLOBE

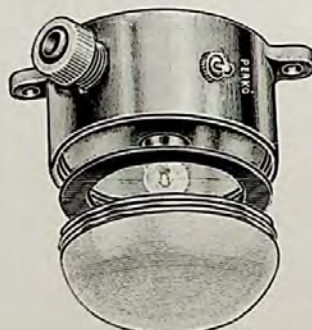


Fig. 1266

For small boats. Will accommodate a 6 C. P. low voltage bulb. With Nickel Plated Reflector.

Each	Spare Globe Each	Extreme Diameter Inches	Diameter Globe Inches	Extreme Depth Inches	Weight Pounds
\$5.00	\$.75	3 1/2	3 1/4	2 3/4	1 3/4

With Toggle Switch add \$1.00 each.

With Watertight Packing Glands for cable entrance or exit add \$.60 for each Gland.

Spare Sockets fig. 472 No. 20, \$.50 each.

Dome Lights

CAST BRONZE

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

Nos. 1, 3 and 5 fitted with Fig. 276 double contact socket.

Nos. 2, 4 and 6 fitted with Fig. 222 medium socket.

WITH DEEP HOLOPHANE GLOBE



Fig. 454

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lb.
1	5	3	4	2 1/2
2	8	4 1/4	6	4 1/2

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
1	\$6.50	\$7.50	\$.80	\$.40
2	10.00	11.50	3.00	.40

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lb.
3	5	1 3/4	4	2 1/2
4	8	2 3/4	6	4 1/2

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
3	\$6.50	\$7.50	\$.80	\$.40
4	9.00	10.50	1.50	.40

WITH SHALLOW FROSTED GLOBE



Fig. 460

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lb.
5	5	1 3/4	4	2 1/2
6	8	2 3/4	6	4 1/2

No.	Polished Bronze Each	Chromium Plated Each	Spare Globes Each	Spare Sockets Each
5	\$6.50	\$7.50	\$.80	\$.40
6	9.00	10.50	1.50	.40

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

Above prices do not include 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	\$2.85	\$4.00	4 1/4	1 3/4
4	3.50	4.50	5 1/2	1 7/8
5	4.00	5.00	6 3/8	2 3/4
6	5.00	6.00	7 1/2	2 3/4

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	\$2.85	\$4.00	4 1/4	1 3/4
4	3.50	4.50	5 1/2	1 7/8
5	4.00	5.00	6 3/8	2 3/4
6	5.00	6.00	7 1/2	2 3/4

Spare sockets, see fig. 747.

Dome Lights

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



Fig. 385

With fig. 276 Double Contact Socket

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

With fig. 346 Standard Screw Socket

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

Bulb with standard screw base for this light, see Fig. 8. Spare globes, see Fig. 133.

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

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 75 watt bulb.

WITH FLANGE



Fig. 753

With Single fig. 346 Socket

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$10.00	\$11.50	9 5/8	8	3

WITHOUT FLANGE

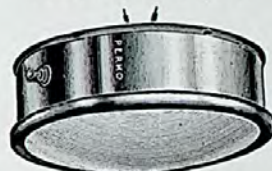


Fig. 754

With Single fig. 346 Socket

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

Berth Light

BRONZE—OPAL GLOBE—TOGGLE SWITCH
D. C. OR MEDIUM SCREW SOCKET



Fig. 416

Brush Bronze Finish Each	Chromium Plated Each	Globe Only Each	Length Inches	Width Inches	Diam. Globe Inches
\$6.50	\$9.00	\$.75	6	4	2 3/4

Bulb with standard screw base for this light, see Fig. 8. Spare globes, see Fig. 31.

ELECTRIC CABIN FIXTURES

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

Round Base Pattern

WITH PUSH BUTTON SWITCH—SPUN BRASS



Fig. 308

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$1.90	\$2.50	2 1/2	2 1/2	3	6

Spare push buttons \$.05 each.

Double Ceiling Fixture

CAST BRONZE—STANDARD SCREW SOCKET
WITH TOGGLE SWITCH



Fig. 451

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

Spare toggle switch \$.40 each.

Square Base Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 450

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$2.75	\$3.35	2 x 2	2	2 3/8	12

Spare toggle switch \$.40 each.

Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projectio less Lam Inches
\$4.50	\$5.50	4 1/2 x 2 3/8	2 3/8

Spare toggle switch \$.40 each.

Square Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 689

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Pounds
\$3.00	\$3.75	2 x 2	2 1/2	2 3/4	3/4

Spare push buttons \$.05 each.

Junior Fixtures

WITH DOUBLE CONTACT SOCKET
TURN SWITCH—CAST BRONZE



Fig. 605

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projec less Lamp Inches
\$2.75	\$3.25	1 3/4 x 1 3/4	2	2

Spare toggle switch \$.40 each.

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

Mazda Lighting Bulbs



Fig. 340

Bulb No.	Diam. Inches	Length Overall Inches
T-10	1 1/4	5 3/8
S-14	1 3/4	3 1/4
A-17	2 1/8	3 3/8
A-19	2 3/8	3 1 1/8
A-21	2 3/8	4 1/8



Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
1483	1 1/8	1
G-6	3/4	1 1/8
S-6	3/4	1 3/4
T-7	7/8	2 1/2
S-8	1	2
S-10	1 1/4	2 5/8
S-11	1 3/8	2 3/8
PR-11	1 3/8	2 1/8

Volts	Candle Power	No.	Base	Clear Each
2.7	.15 amp.	S-11	D. C.	\$1.25
6	.04 amp.	1483	Miniature	.40
6-8	3	G-6	D. C.	.16
6-8	6	G-6	D. C.	.18
6-8	15	S-8	D. C.	.28
6-8	21	S-8	D. C.	.30
12-16	3	G-6	D. C.	.20
12-16	6	G-6	D. C.	.25
12-16	15	S-8	D. C.	.36
12-16	21	S-8	D. C.	.50
32	3	G-6	D. C.	.75
32	6	G-8	D. C.	.80
32	15	S-8	D. C.	1.00
32	21	PR-11	D. C.	1.20
110	6 watt	S-6	D. C.	.50
110	10 watt	S-8	D. C.	1.00
120	6 watt	S-6	Candelabra	.60
120	15 watt	T-7	Candelabra	.70

Packed, 10 bulbs to a box.

FOR DOME AND BERTH LIGHTS



Fig. 8

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

Packed, 20 bulbs to a box.



Fig. 532

Volts	Watts	No.	Base	Frosted Each
12	15	A-17	Medium	.75
12	25	A-19	Medium	.60
12	50	A-21	Medium	.80
6	15	A-17	Medium	\$.75
6	25	A-19	Medium	.60
6	50	A-21	Medium	.80
32	15	A-17	Medium	.60
32	25	A-19	Medium	.50
32	50	A-21	Medium	.50
120	25	T-10	Medium	.60
120	10	S-14	Medium	.40
120	60	A-19	Medium	.40
120	100	A-21	Medium	.60

Packed, 6 bulbs to a package.

Double Filament Bulb

MOGUL BASE FOR THREE WIRE SYSTEM
120 VOLTS

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	\$2.40	5	3 1/8
100-100	2.65	5	3 1/8

Packed, 6 bulbs to a package.

Mazda Searchlight Bulbs

Volts	Watts	Candle Power	No.	Base	Diameter	Length Overall	Each
6-8		32	PR-11	D. C.	1 1/4	2 3/8	\$.45
6-8		50	PR-11	D. C.	1 3/8	2 3/8	.60
6-8		100	G-16 1/2	D. C.	2 1/8	3	2.00
6-8		18 amp.	P-25	Medium	3 1/8	4 3/4	4.00
12-16		32	PR-11	D. C.	1 1/4	2 3/8	.60
12-16		50	PR-11	D. C.	1 3/8	2 3/8	.75
12-16		100	G-16 1/2	D. C.	2 1/8	3	2.00
12-16		18 amp.	P-25	Medium	3 1/8	4 3/4	5.00
32		32	PR-11	D. C.	1 1/4	2 3/8	1.40
32		50	PR-11	D. C.	1 3/8	2 3/8	1.80
32		100	G-16 1/2	D. C.	2 1/8	3	2.75
32	2. amp.	100	G-16 1/2	D. C.	2 1/8	3	3.00
32	3.5 amp.	150	G-16 1/2	D. C.	2 1/8	3	5.00
32		8 amp.	P-25	Medium	3 1/8	4 3/4	7.50
32	400		G-30	Medium	3 3/4	5 1/8	
32	100		G-16 1/2	D. C.	2 1/8	3	2.00
120	100		T-10	Medium	1 1/4	5 1/2	6.00
120	250		T-10	Medium	1 1/4	5 1/2	7.00
120	400		T-20	Medium	2 1/2	5 1/2	6.00
120	500		T-20	Medium	2 1/2	5 1/2	6.00

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	\$.75	2 3/4	4	01-04-05-08-09
588	1.10	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
2413	\$.75
2415	1.10
2416	1.10
2417 oil only	.75
2417 O. and E.	1.65
2414	1.65

Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds
3 5/8	3 1/8	2 1/2
3 5/8	3 3/8	3
3 5/8	3 5/8	3 1/2
3 1/2	2 5/8	2
3 1/2	2 5/8	3 3/4
3 5/8	3 3/8	4 1/2

For Lights Figs.
06-17-18-19-20-49 and 44, 8 inch size
06-12-17-18-19-20
06-12-17-18-19-20-49 and 44, 8 inch size
1
1
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
274	\$1.10
287	.75
293	1.10
735	1.65

Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds
4 1/2	4	4
4 1/2	4	3
4 1/2	4	4
4 1/2	4	4 1/2

For Lights Figs.
02-11 and 44, 6 inch size
02 and 44, 6 inch size
02-11 and 44, 6 inch size
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

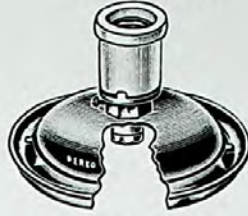


Fig. 288

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 Each	Fig. 288 Each	Fig. 289 Each	Fig. 1082 Each
2	4 3/4	3 3/4	\$1.10	\$1.75	\$3.00	\$3.25
3	5 3/4	4 3/4	1.75	1.75		3.25

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
2	21	9-10	982	0-1	985	0-1	23	22-22 1/2	84	0-1
3	21	11	982	2	985	2	23	23	84	2
2	30	0-1	983	0-1	986	0-1	32	0-1	129	22-22 1/2
3	30	2	983	2	986	2	32	2	129	23
2	1155	0-1	1156	0-1	1157	0-1	1158	0-1	1159	0-1
3	1155	2-3	1156	2-3	1157	2-3	1158	2-3	1159	2-3

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

Watertight Hand Portables

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

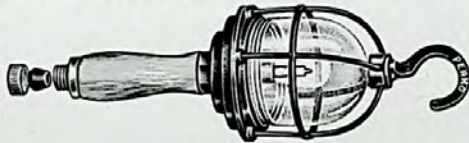


Fig. 1256

Complete Each	Spare Globes Each	Extreme Length Inches	Extreme Diameter Inches	Weight Pounds
\$5.25	\$.75	13	4 1/4	2 3/4

Spare sockets, see fig. 472 No. 20, \$.50 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	\$5.75	\$.60	25	13 1/2	4
2	6.00	.75	60	15 1/2	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.

Dashboard Lamp
BRASS—NICKEL PLATED
DOUBLE CONTACT SOCKET—WITH SWITCH

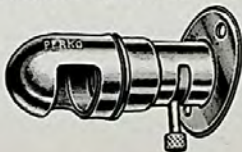


Fig. 184

Each	Height Overall Inches	Size Base Inches	Weight Ounces
\$1.00	2 1/8	1 1/8 x 1 1/2	1 1/2

Each	Overall Length Inches	Length Handle Inches	Weight Ounces
\$1.75	8	4	7

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
1	\$8.75	7/8	3/8
2	8.75	1 1/4	7/8

Marcy Lip or Dual Chimneys



Fig. 267

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

Specify height of chimney when ordering.

Brass Burners



Fig. 246

No.	Per Dozen	Diam. Thread Inch	Wick Inch
0	\$1.90	7/8	1/2
1	2.10	7/8	3/8
2	3.20	1 1/4	7/8

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

No. 2 used in larger lights.

Eagle Chimney and Burner



Fig. 268

Used on Wall Lamp
Fig. 312



Fig. 248

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



Fig. 302

Wicks

	Per Dozen
Flat Wicks, No. 0, 1/2 inch wide	\$.30
Flat Wicks, No. 1, 3/8 inch wide	.35
Flat Wicks, No. 2, 7/8 inch wide	.45

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
\$13.20	\$6.60	\$1.50	1 3/4	1 1/2

Engineer's Lantern Globes

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

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

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

Colored globes are solid colors, not painted.



Fig. 263

Navy Lantern Globes



Fig. 262

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

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

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

Colored globes are solid colors, not painted.



Fig. 264

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

Globe Light Globes

Used in Globe Lights Fig. 44.

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

Mirror Reflectors



Fig. 427

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

Standard equipment in "PERKO" Searchlights, Figs. 480, 297, 529, 306.

	Each
7 inch diameter, mangin, deep,	\$10.00
8 inch diameter, parabolic,	20.00
10 inch diameter, parabolic,	22.00
12 inch diameter, parabolic,	27.50
14 inch diameter, parabolic,	37.50

Metal Reflectors

CHROMIUM PLATED



Fig. 428

Made of heavy gauge brass, heavily plated and designed for projecting a powerful beam of light. Standard equipment in our "BEAM" Searchlights, Figs. 305, 306.

	Each
6 1/8 inch diameter	\$4.20
7 7/8 inch diameter	4.70

Front Lens

FOR SEARCHLIGHTS

Convex type for Figs. 305, 306, 1022 and 1023.

Flat type for Figs. 297, 480 and 529.



Fig. 429

	Each
6 inch diameter, convex	\$1.10
7 inch diameter, convex	1.10
7 3/4 inch diameter, convex	1.10
8 3/8 inch diameter, flat	1.40
10 1/4 inch diameter, flat	1.75
12 1/4 inch diameter, flat	2.00
14 1/4 inch diameter, flat	2.75

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.

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



Fig. 130

Mounting Brackets

FOR NAVIGATION LIGHTS
GALVANIZED SHEET IRON AND BRASS



Fig. 131

No.	Galvanized Each	Brass Each	Width Inches	Height Inches
1	\$.35	\$.55	1 1/2	4 7/8
2	.55		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.

Mounting Brackets

FOR NAVIGATION LIGHTS
GALVANIZED CAST IRON



Fig. 135

Each	Height Overall Inches	Width Overall Inches	Width Bracket Inches
\$1.10	7 1/2	5 3/8	2 1/2

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

Mounting Brackets

GALVANIZED SHEET IRON AND BRASS



Fig. 25

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

For mounting Royal Lights Fig. 89 to 92, inc.

Mounting Brackets

FOR LARGE MASTHEAD AND STERN LIGHTS
CAST BRONZE

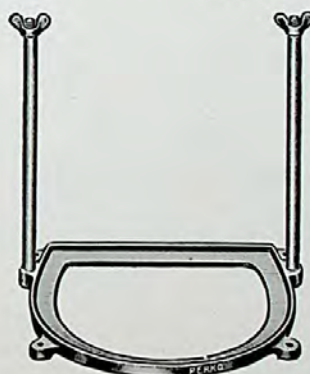


Fig. 1173

For mounting lights rigidly on mast platform.

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

Base is arranged to be bolted to platform.

No.	Each	Diam. Rod Inches	Drilled for Bolts Inches	Centers of Rods Masthead Inches	Stern Inches
2	\$9.50	3/8	3/8	10 7/8	10 7/8
3	9.50	3/8	3/8	12 3/4	12 1/4

When ordering, state whether for Masthead or Stern Lights.

These are for lights on pages 20 to 23 inc.

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

Fresnel Ball Globes

1½ INCH DIAMETER

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



Fig. 604

Outside diameter 1½ in.
Height overall 1⅞ in.
Diameter of opening 1⅜ in.
Net weight, each 1¼ oz.

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

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 2⅝ in.
Diameter of opening 1½ in.
Diameter of thread 2 in.
Net weight, each 6 ozs.

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

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, 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 oz.
Clear Each \$.85
Ruby Each \$ 1.10
Green Each \$ 1.10
Blue Each \$ 1.10

3 INCH DIAMETER

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



Fig. 249

Outside diameter 3 in.
Height overall 3⅝ in.
Diameter of opening 2¼ in.
Diameter of thread 2¾ in.
Net weight, each 10 ozs.
Clear Each \$ 1.00
Ruby Each \$ 1.60
Green Each \$ 1.60
Blue Each \$ 1.60

4¼ INCH DIAMETER

With threaded base, as illustrated.



Fig. 252

Outside diameter 4¼ in.
Height overall 3⅞ in.
Diameter of opening 2⅞ in.
Diameter of thread 3 in.
Net weight, each 10 ozs.
Clear Each \$ 1.20
Ruby Each \$ 1.75
Green Each \$ 1.75
Blue Each \$ 1.75

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 2½ in.
Diameter of thread 3⅞ in.
Net weight, each 1¼ lbs.
Clear Each \$ 1.35
Ruby Each \$ 2.35
Green Each \$ 2.35
Blue Each \$ 2.35

Special Mast Light Globe

2¼ INCH DIAMETER

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



Fig. 77

Outside diameter 2¼ in.
Height overall 5½ in.
Diameter of opening 1½ in.
Diameter of Thread 2½ in.
Net Weight Each 13 oz.

Clear Each	Ruby Each	Green Each	Blue Each
\$.90	\$ 1.40	\$ 1.40	\$ 1.40

Holophane Dome Glasses

SHALLOW

DEEP



Fig. 257

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



Fig. 258

Fig. 258 for Dome Lights Figs. 454-1158.

Trade Size Inches	Fig. 257 Each	Fig. 258 Each	Diam. Overall Inches	Fig. 257 Depth Inches	Fig. 258 Depth Inches
3	\$.65		2⅞	⅝	
4	.80	\$.80	4	⅝	1¼
5	1.00		5	1½	
6	1.50	3.00	6	1⅜	2¼

Frosted Dome Glasses

SHALLOW



Fig. 132

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

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$.70	2⅞	⅝
4	.80	4	⅝
5	1.00	5	1½
6	1.50	6	1⅜
8	2.00	7¾	⅞

Ribbed Opal Dome Glasses



Fig. 133

For Dome Lights, Fig. 385.

Outside Diam. Inches	Each	Extreme Depth Inches
4¼	\$ 1.35	1⅞
5⅝	2.10	1⅝

Opal Globe WITH FLANGE



Fig. 31

For Berth Light Fig. 416.

Diameter Overall Inches	Each	Extreme Depth Inches
2¾	\$.75	1½

Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS
112½ DEGREES

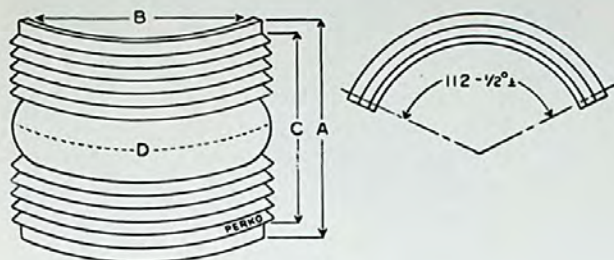


Fig. 259

FOR BOW LIGHTS—180 DEGREES

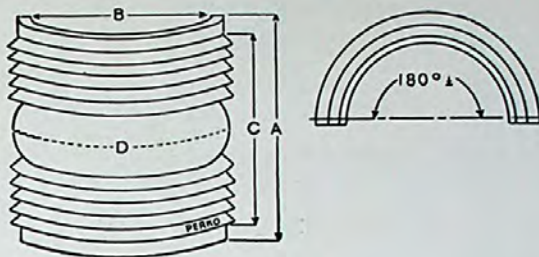


Fig. 260

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
Class 1	3 1/16	2 3/16	2 13/16	5 3/8	\$1.25	\$2.00
Class 2	4 1/4	3 1/4	3 3/8	6 3/8	1.25	2.00
Class 3	5 1/16	3 7/8	4 1/16	7 13/16	1.50	2.50
No. 16	7 3/8	6 7/8	6 3/8	12 5/8	6.50	9.00

No. 16 lens used in pier lights figs. 59, 125, 1005.

For Motor Boats	A Inches	B Inches	C Inches	D Inches	Red or Green Each
Class A	2 1/16	1 3/4	2 1/8	3	\$.60
Class 1	3 1/16	2 3/16	2 7/8	3 3/8	.90
Class 2	4 1/4	3 3/16	3 11/16	4 3/4	1.25
Class 3	5 3/16	3 11/16	4 3/8	5 3/16	1.50

For Vessels over 65 ft.	A	B	C	D	Red or Green Each
No. 8	5 1/2	4 1/16	4 13/16	5 7/8	2.50
No. 0 or 9	5 1/2	5 3/4	5	8 5/16	3.50
No. 1 or 10	6 3/4	6	6	8 5/8	4.50
No. 2 or 11	7 1/2	8 1/2	6 7/8	11 3/8	6.50
No. 3	8 1/2	9 3/4	7 3/4	13	8.00

FOR MASTHEAD LIGHTS—225 DEGREES

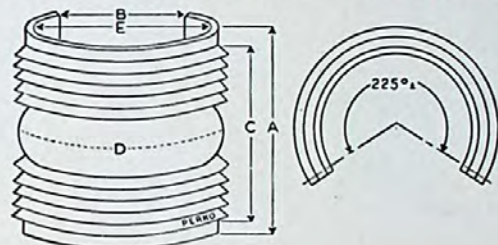


Fig. 256

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	\$4.50	\$ 9.50
No. 1	6 3/4	4	6	12 1/8	4 1/2	5.50	10.50
No. 2	7 1/2	5 7/8	6 3/4	16 3/8	6 1/2	7.00	12.00
No. 3	8 1/2	6 7/8	7 5/8	18 5/8	7 3/4	8.75	13.75

FOR ANCHOR LIGHTS—360 DEGREES

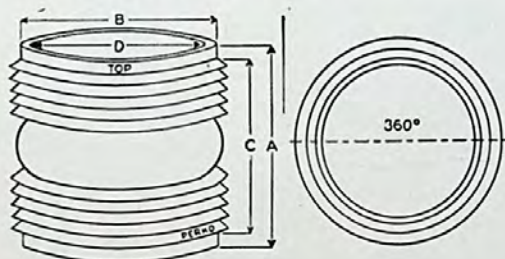


Fig. 261

FOR STERN LIGHTS—135 DEGREES

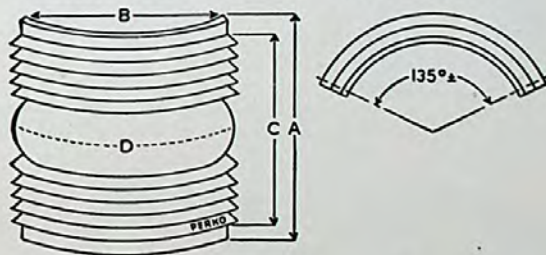


Fig. 269

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3 5/16	3 3/16	2 7/8	2 3/4	\$.85	\$1.25
Senior	4 1/4	4	3 1/16	3 1/16	1.25	1.80

For Vessels over 65 ft.	A	B	C	D	Clear Each	Blue Each
No. 0 or 22	5 1/2	5 1/4	5	4 3/8	3.50	6.50
No. 1 or 22 1/2	6 3/4	5 1/4	6 1/8	4 1/2	4.50	7.50
No. 2 or 23	7 1/2	7 1/2	6 1/4	6 1/2	6.00	9.00
No. 3	8 1/2	8 1/2	7 3/4	7 3/4	8.00	13.00

For Vessels Over 65 ft.	A In.	B In.	C In.	D In.	Clear Each	Blue Each
No. 0	5 1/2	4 3/8	4 7/8	7 1/2	\$3.50	\$4.50
No. 1	6 3/4	4 3/8	6 1/8	7 1/2	3.75	4.75
No. 2	7 1/2	6 3/8	6 3/4	10	5.00	6.00
No. 3	8 1/2	7 1/2	7 3/4	11 1/4	6.00	7.00

Colors are red, green, blue and amber.

Red or green, add \$5.00 each to clear prices.

DIMENSIONS SUBJECT TO GOVERNMENT STANDARD TOLERANCES—PLUS OR MINUS



STANDARD COMMERCIAL 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	\$1.00	2 1/8	1 1/8	4
3 wire	1.60	2 1/8	1 1/8	4

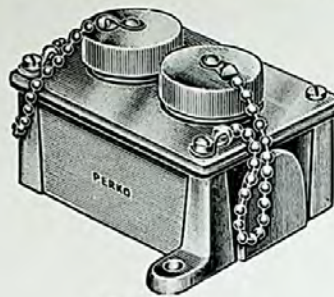


Fig. 1265

GANG TYPE
2 wire only

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

Receptacles

FURNISHED UNTAPPED UNLESS SPECIFIED
 MAXIMUM I. P. S. THREAD 3/4 INCH

SURFACE TYPE

2 wire only



Fig. 1262

Each	Diam. Inches	Height Inches	Weight Pounds
\$3.00	3 1/4	2	2 1/4

FLUSH TYPE

2 wire only



Fig. 1263

Each	Diam. Box Inches	Diam. Flange Inches	Depth Inches	Weight Pounds
\$4.50	3 1/4	4	1 1/8	2 1/2

RECTANGULAR TYPE

2 and 3 wire

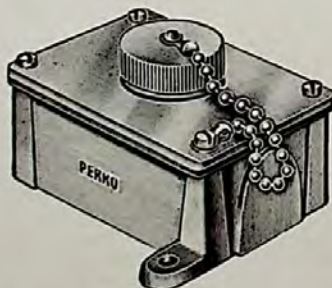


Fig. 1264

Each	Size Box Inches	Weight Pounds
2 wire \$3.50	4 1/8 x 3 x 2	3
3 wire 4.75		

Watertight Junction Boxes

CAST BRONZE—SURFACE TYPE

With rubber gasket.
 For 4 way tapping.

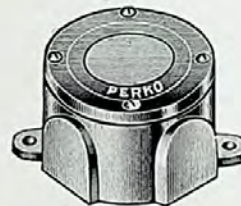


Fig. 1257

No.	Each	Inside Diam. Inches	Weight Pounds
1	\$2.20	2 1/4	1
2	2.00	3	1 3/8

Watertight Connection Box

CAST BRONZE—SURFACE TYPE

With 4 wire phenolic connection block and rubber gasket.

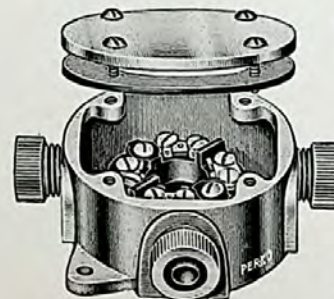


Fig. 1252

Complete Each	Spare Blocks Each	Inside Diam. Inches	Inside Depth Inches	Weight Pounds
\$3.50	\$1.00	3	1 3/8	1 3/4

Price does not include packing glands in illustration.

Watertight Fuse Box

CAST BRONZE—SURFACE TYPE

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

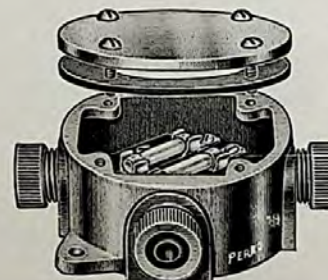


Fig. 1255

Complete Each	Spare Fuse Block Each	Inside Diam. Inches	Inside Depth Inches	Weight Pounds
\$3.50	\$1.00	3	1 3/8	1 3/4

Price does not include fuses or packing glands in illustration.

ALL BOXES ABOVE CAN BE FURNISHED WITH PACKING GLANDS FOR CABLE ENTRANCE AS ILLUSTRATED ON FIG. 1255. ADD \$.60 FOR EACH GLAND. STATE NUMBER AND POSITION.

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.



Fig. 968

Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$4.50	\$1.80	2 1/4	3/4

HEAVY DUTY TYPE—10 AMP.
DOUBLE



Fig. 972

Complete With Plugs Each	Plugs Only Each	Length Inches	Width Inches	Depth Inches
\$9.00	\$2.00	3 1/4	2 1/4	1 3/8

FLUSH TYPE WITH BOX
5 AMP.—BOTTOM INLET

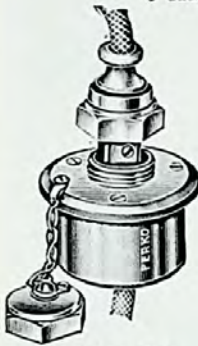


Fig. 969

Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches
\$5.30	\$1.80	2 1/4	1 1/2	1 1/8

HEAVY DUTY TYPE—10 AMP.
WITH TURN SWITCH

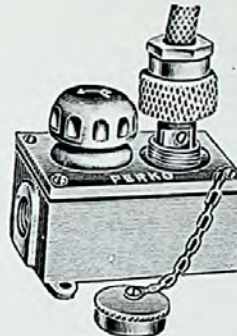


Fig. 973

Complete With Plug Each	Plug Only Each	Length Inches	Width Inches	Depth Inches
\$8.75	\$2.00	3 1/4	2 1/4	1 3/8

HEAVY DUTY TYPE —10 AMP.

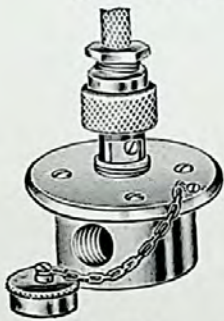


Fig. 970
Flush Type

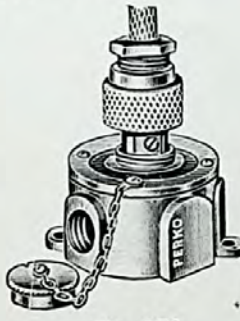


Fig. 971
Surface Type

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

Watertight Snap Switch
FLUSH TYPE OR SURFACE TYPE—10 AMP.

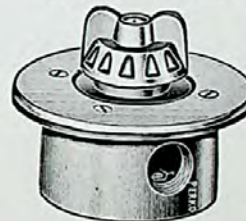


Fig. 974

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

Single Pole Switch
Double Pole Switch

	Flush Type	Surface Type
	\$6.40	\$5.25
	6.75	

Watertight Push Buttons
CAST BRONZE



Fig. 978

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

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches
\$3.00	\$4.00	2 3/8

Watertight Push Buttons
CAST BRONZE



Fig. 4581

Tapped one way for 1/2 inch conduit.

Each	Height Inches	Weight Pounds
\$3.50	1 3/4	
		1 1/4

Watertight Connection

DOUBLE CONTACT

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

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

Deck Socket



Fig. 423

All Metal Plug



Fig. 425

	Polished Brass Each	Chromium Plated Each	Dimensions Inches
Socket Only	\$1.00	\$1.50	1 1/2 x 1 3/8
Plug Only	1.00	1.50	1 1/2 x 1

Watertight Connection

DOUBLE CONTACT



Fig. 477

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

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

Composition Interiors Only
Per Set, \$.70

Watertight Cable Outlet

CAST BRONZE—FOR 3/8 IN. CABLE



Fig. 424

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

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

Thru-Bulkhead Stuffing Tubes

BRASS



Fig. 1261

For watertight passage of electric cable thru bulkheads, decks, cabin roofs, etc., complete with tapered rubber caulk, caps and locknuts.

Each	For Diam. Cable Inches	Extreme Length Inches	For Thickness Bulkhead Inches	Weight Pounds
\$1.00	1/2	3 1/2	2	1/3

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. threads

No.	Each	Size Thread Inches	Height Inches	Extreme Diameter Inches	Weight Dozen Pounds
1	\$.30	1/8	1 1/8	1 3/8	1
2	.30	3/8			

Medium Screw Sockets

PHENOLIC—250 VOLTS—250 WATTS



Fig. 538

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

No.	Each	Size Thread Inches	Height Inches	Extreme Diameter Inches	Weight Dozen Pounds
1	\$.35	1/8	2 3/4	1 3/4	2
2	.40	3/8			

Medium Screw Socket

PHENOLIC—NAVY DRAWING 9-S-4836-L



Fig. 595

Each	Height Inches	Diameter Overall Inches	Supporting Slots Inches	C to C of Slots Inches	Weight Dozen Pounds
\$.40	1 3/8	2 1/4	3/2	1 5/8	1 1/2

Medium Screw Sockets

PORCELAIN—250 VOLTS—660 WATTS



Fig. 222

With rubber gasket as shock absorber.

No.	Complete Each	Rings Only Each	Gaskets Only Each
1	\$.40	\$.10	\$.06
2	.60	.10	.06

No.	Height Inches	Size Base Inches	Supporting Slots Inches	C to C of Slots Inches
1	1 5/8	2 x 1 1/4	3/8	1 1/2
2	1 3/8	1 3/4 x 1 1/4	3/8	1 1/2

No. 1 size is standard.

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

Mogul 3 Wire Socket

PHENOLIC—NAVY DRAWING 9-S-4779-L

600 VOLTS—1500 WATTS

For use with double filament bulb
Fig. 532.



Fig. 270

Each	Height Inches	Outside Diam. Inches	C to C of Mounting Holes Inches	Weight Each Ounces
\$1.50	2 $\frac{1}{8}$	2 $\frac{1}{8}$	1 $\frac{3}{8}$	8

With white metal mounting cap
tapped $\frac{3}{8}$ inch I. P. S. add \$.25 each.

Mogul 3 Wire Socket

PORCELAIN—600 VOLTS—1500 WATTS

For use with double filament bulb
Fig. 532.



Fig. 533

Furnished complete with white
metal mounting cap tapped $\frac{3}{8}$ inch
I. P. S.

Each	Height Overall Inches	Outside Diam. Inches	Weight Each Ounces
\$1.00	3 $\frac{1}{8}$	2 $\frac{1}{8}$	8

Socket Supports

BRASS— $\frac{3}{8}$ INCH I. P. S. THREAD

For use with sockets Figs. 270, 346, 533, 538.



Fig. 330

No. 1 used in Fig. 1150
series lights sizes 1 and 2.

No. 2 used in same type
lights size 3.

No.	Each	Height Inches	Size Base Inches	C to C of Holes Inches	Weight Ounces
1	\$.60	1	$\frac{7}{8} \times 2 \frac{3}{4}$	2 $\frac{1}{8}$	1 $\frac{1}{2}$
2	.75	2 $\frac{1}{4}$	$\frac{7}{8} \times 2 \frac{3}{4}$	2 $\frac{1}{8}$	3

6 Light Candelabra Unit

TYPE A-D—SIMILAR TO NAVY TYPE
USED IN BLINKER SIGNAL LIGHTS

BRASS—PHENOLIC INSULATION

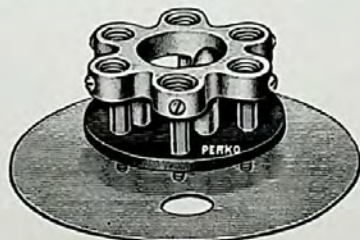


Fig. 845

For high speed signalling, used in our Fig. 403
blinker lights sizes 2-B and 3-C. In combination with
5 watt tubular bulbs, candelabra base, Navy No. TS-
1 commercial No. T-7.

Each	Height Inches	Diam. Top Inches	Weight Pounds
\$4.50	1 $\frac{3}{8}$	3	1

Candelabra Screw Socket

PHENOLIC—125 VOLTS—75 WATTS



Fig. 13

With brass base tapped $\frac{3}{8}$ inch 24 S. A. E.
thread.

Each	Height Inches	Diameter Inches	Weight Dozen Ounces
\$.60	1 $\frac{3}{8}$	$\frac{1}{4}$	8

Candelabra Screw Socket

PHENOLIC—NAVY DRAWING 9-S-2036-L



Fig. 15

Each	Height Inches	Weight Dozen Ounces
\$.40	1 $\frac{1}{8}$	12
Size Base Inches	1 x 1 $\frac{1}{2}$	

Bayonet Double Contact Socket

PHENOLIC—NAVY DRAWING 9-S-4634-L



Fig. 76

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

Bayonet Sockets

PHENOLIC—SINGLE AND DOUBLE CONTACT



Fig. 472

No.	Each	Type	Height Inches	Diam. Base Inches	Weight Dozen Ounces
20	\$.50	Double contact	1	1 $\frac{3}{8}$	9
21	.50	Single contact			

Bayonet Double Contact Socket

BRASS CASE—TAPPED $\frac{1}{8}$ INCH I. P. S.



Fig. 276

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

Each \$.40

Socket Support

BRASS—FOR FIG. 276 SOCKET



Fig. 277

Threaded $\frac{1}{8}$ inch I. P. S.
Complete with screws for installing.

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.35	$\frac{7}{8}$	$\frac{3}{8} \times 1 \frac{1}{2}$	6

Bayonet Double Contact Socket
BRASS CASE—HARD RUBBER INSULATION



Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$.20	1 1/4	1 1/8	6

Fig. 747

Bayonet Double Contact Socket
FLANGED TYPE—BRASS AND HARD RUBBER



Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$.30	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

Fig. 377

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 \$.85

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
\$.45	1 1/4	7/8	8

Fig. 355

Electric Adapters



No.	Description	Price
670	Medium screw to bayonet double contact, each	\$.70
680	Medium screw to bayonet single contact, each	\$.70
830	Medium screw to foreign bayonet double contact, each	\$.70

Fig. 405

Brass Dagger Connectors

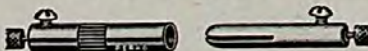


Fig. 283

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

Each \$.20

Double Contact Connectors
HARD RUBBER—BRASS CONTACTS

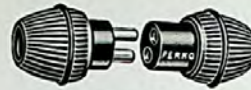


Fig. 749

Each	Size Inches
\$.50	1 1/8 x 2 1/2

Double Contact Plug and Socket



Plug and socket insulation is rubber.

All metal parts are brass.

Per Set	Size Flange In.	Outside Diam. Socket In.	Length Socket In.
\$.60	1 1/8 x 1 1/2	1 1/8	1 3/8

Fig. 399

Bayonet Double Contact Plugs
HARD RUBBER OR ALL METAL



Hard Rubber
Fig. 746



All Metal
Fig. 363

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
\$.30	\$.20	1 1/2	3/4	1 1/8	

Brass Cable Straps

FOR CABLE, TUBING, CONTROL WIRE, ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Weight Dozen Ounces
1/8	\$1.00	1 1/8	
1/16	1.10	1 1/4	
1/4	1.20	1 3/8	
3/8	1.20	1 1/2	
1/2	1.30	1 3/4	
5/8	1.40	1 7/8	
3/4	1.50	2 1/8	
	1.80	2 1/4	
	1.90	2 3/8	

FOR LEAD COVERED CABLE



Fig. 1076

Per 100	Size Inside Inches	Length Inches	Weight Dozen Ounces
\$2.00	1 1/2 x 1 1/8	1 1/8	



Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

TOGGLE TYPE
BRASS—BAKELITE INSULATION



With 2 lock nuts and 6" wire leads.

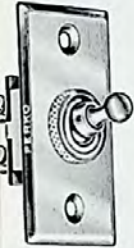
Each	Length Neck Inches	Diam. Neck Inches
\$.40	$\frac{1}{4}$	$\frac{1}{4}$

Maximum between lock nuts $\frac{1}{4}$ ".

With watertight cap and chain, add \$.60 each.

Fig. 745

TOGGLE TYPE WITH FACE PLATE
BRASS—BAKELITE INSULATION

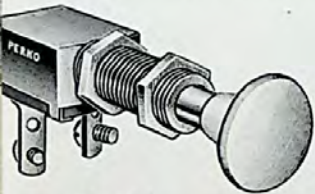


Polished Brass Each	Chromium Plated Each	Size Face Plate Inches
\$.50	\$.60	1x1 $\frac{1}{8}$

Fig. 718

Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB



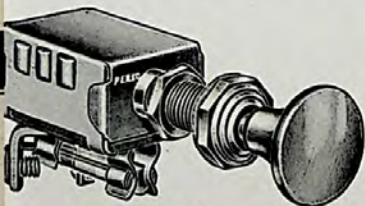
Heavy duty 2 point 2 terminal with ivory tenite knob.
Neck for $\frac{7}{8}$ inch wood, $\frac{3}{8}$ inch hole.

Each \$.85

Fig. 94

Push and Pull Switch

WITH FUSE HOLDER—ALL BRASS



With chromium plated knob.

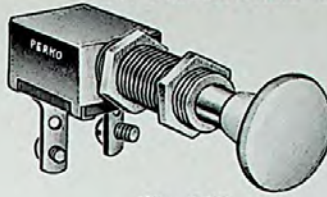
Neck for $\frac{7}{8}$ in. wood, $\frac{3}{8}$ in. hole.

Each \$1.25

Fig. 254

Momentary Starter Switch

OR DASHBOARD HORN BUTTON



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

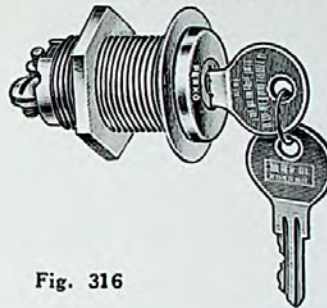
Neck for $\frac{7}{8}$ in. wood, $\frac{1}{2}$ in. hole.

Each \$.75

Fig. 255

Ignition Lock Switch

BRASS



2 terminal lock switch with two keys.

Neck for 1 inch wood, $\frac{7}{8}$ inch hole.

Each \$1.00

Fig. 316

Knife or Battery Switches

FIBRE BASE—SINGLE POLE



Single Throw Each	Double Throw Each	Size Base Inches
\$.40	\$.50	2 $\frac{1}{8}$ x1 $\frac{1}{8}$

Fig. 70

FLAT TYPE



Single Throw Each	Double Throw Each	Size Base Inches
\$.40	\$.50	2 $\frac{1}{8}$ x1 $\frac{1}{8}$

Fig. 74

Fuse Panel

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

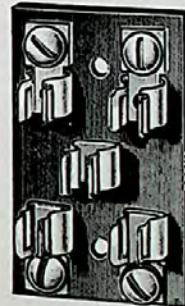


Fig. 694

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	Length Fuse Inches
1	\$.40	2 $\frac{1}{4}$	1	$\frac{1}{8}$	1 $\frac{1}{4}$
2	.50	2 $\frac{1}{4}$	1 $\frac{3}{8}$	$\frac{1}{8}$	1 $\frac{1}{4}$

LIFE BOAT EQUIPMENT

Life Preserver Light

APPROVED BY U.S.C.G.
WITH RED LENS—NO BATTERY

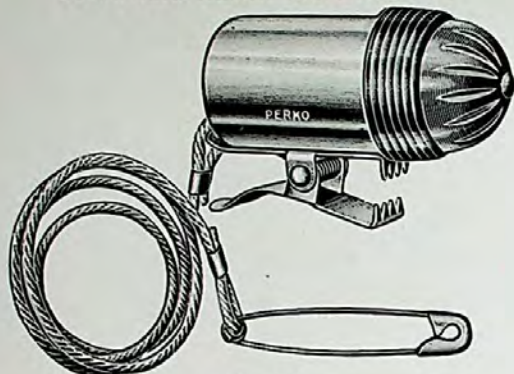


Fig. 10

Case is solid zinc, red lens is plastic and practically unbreakable.

Uses Mazda No. 131 bulb and operates on single type D 1 1/4 inch flashlight cell giving more than 12 hours of continuous light.

Supplied complete except battery.

Each	Length Inches	Weight With Battery Ounces
\$.97	3 3/8	7

With pin but without cord and spring clamp per Navy Spec. 17-L-16..... Each \$.65

Electric Water Light

APPROVED—NAVY SPEC. 17-L-16
COMPLETE WITH BRACKET—NO BATTERY



Fig. 22

Automatically lights as it hits the water. Floats beside raft or buoy, 22 hours of continuous light.

Operates on 4 type D 1 1/4 inch flashlight cells. Uses Mazda No. 14 bulb.

Complete with bulb and bracket, less battery.

Each	Length Inches	Diameter Overall Inches	Weight Less Battery Pounds
\$6.50	23	3	3

Calcium Water Light

SELF LIGHTING—COPPER CASE

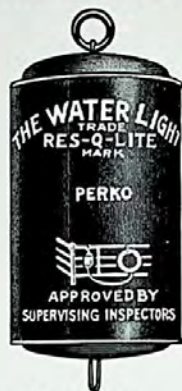


Fig. 843

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

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

Flashlight Outfit

APPROVED—WITH BULBS, LESS BATTERY

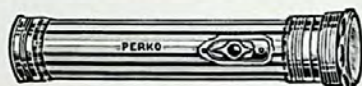


Fig. 284



Fig. 285

Complete including flashlight and case, per set
Fig. 284 flashlight only with bulbs, each
Fig. 285 case only, watertight, insulated, with cast brass cap and gasket, each

Daylight Distress Smoke Signal

FLOATING TYPE—APPROVED



Fig. 105

Produces dense volume of orange colored smoke easily visible from great distance.

Full instructions printed on each signal. Four required for every life boat and raft.

Per set of four—\$32.00

LIFE BOAT EQUIPMENT

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 \$8.00
Cans Only—10½ inches high—Each 5.50

Hand Flares

MOISTURE PROOF—APPROVED



Fig. 281

Will burn for not less than 2 minutes giving a brilliant flare of not less than 500 candlepower.

No.	Color	Per Dozen
1	Red	\$4.75
2	Blue	6.00
3	White	6.00
4	Green	6.00

Ship Rockets and Containers

APPROVED—WATERTIGHT CONTAINER
ROCKETS, RED, WHITE OR GREEN



Fig. 502



Fig. 503

Rockets used for calling help at sea. Rises to height of approximately 400 feet then throws a shower of stars visible at great distance.

Container has brass cap and rubber gasket large enough to hold 12 rockets and sticks.

Red rockets only, per dozen	\$13.00
White rockets only, per dozen	15.00
Green rockets only, per dozen	15.00
Containers only, each	9.00

Emergency Fishing Kit

APPROVED—WATERTIGHT



Fig. 60

Manufactured and equipped in accordance with latest U. S. C. G. requirements. Each \$9.00

First Aid Kit

APPROVED



Fig. 61

Complete with all equipment required by U. S. C. G.
Price on application

Match Container

WATERTIGHT
WITH 12 BOXES SAFETY MATCHES



Fig. 62

With screw cap and gasket, each \$1.25

Midget Distress Outfit

12 RED SIGNALS—FOR PLEASURE CRAFT



Fig. 514

For use in emergency on board motor and sail boats. Consists of 12 moisture proof red flares packed in moisture proof container.

Each \$2.00



LIFE BOAT EQUIPMENT

Wood Boat Bailers

MACHINE MADE—SMOOTH FINISH—UNPAINTED



Fig. 79

Each	Length Overall Inches	Width Overall Inches	Weight Ounces
\$1.20	15½	5¼	7

Steel Boat Bailers

GALVANIZED—RIVETED HANDLE



Fig. 180

Each	Diameter Inches	Weight Pounds
\$1.40	8¼	1

Canvas Sea Anchors



Fig. 517

Diam. Inches	Each	Length Inches
24	\$4.00	36
30	6.50	45
36	On application	72

36 inch size approved by U. S. C. G. for use on life boats.

Storm Oil Container
FOR ATTACHMENT TO SEA ANCHORS
GALVANIZED SHEET STEEL



Fig. 179

Complete with attaching ring, two brass pet cocks and filling cap.

Capacity, 1 gallon.

Each	Extreme		
	Length Inches	Diam. Inches	Weight Pounds
\$2.75	15	8	1½

Ditty Bags
COMPLETE

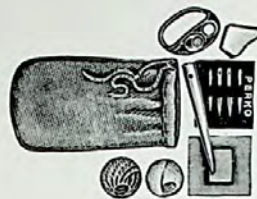


Fig. 85

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

Complete, Each\$3.00

One box matches sewed waterproof canvas, add \$1.00

Bread Breakers
GALVANIZED



Fig. 155

Heavy galvanized sheet iron, double seamed edges, well soldered, cast bronze cover and ring, thick rubber gasket, water-tight, with folding handles. Every bread breaker fully tested before leaving factory.

Diameter cover. 5 inch

Capacity Lbs.	Each	Size Inches	Weight Lbs.
25	\$ 9.00	12x12x18	13
40	9.50	15x15x21	15
50	10.00	15x15x24	18
60	10.50	15x15x30	19
80	11.50	24x24x24	33
100	12.50	24x24x30	40



Fig. 72

Bread Breaker Caps

CAST BRONZE

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

Price Per Set	Extra Gaskets Each	Outside Diam. Cover Inches	Inside Diam. Opening Inches	Weight Each Pounds
\$3.50	\$.30	5¾	4¾	2

Brass Axe Brackets
18 GAUGE—POLISHED

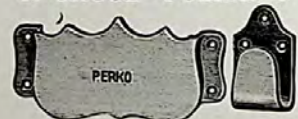


Fig. 325

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 Dozen
\$11.00	\$7.75	\$3.25	6	

"Perko" Zinc Marine Oilers

BRASS BOTTOM



Made of heavy gauge pure zinc, spring brass bottom, machine cut thread, interchangeable spouts.

No.	3	4
Capacity	8 ozs.	12 ozs.
Diameter	4 in.	4½ in.
Length spout	4 in.	6 in.
Wt. per gross	40 lbs.	48 lbs.

No.	3	Per Gross
	4	\$72.00
		92.00

EXTRA SPOUTS

No.	3	4 inch	21.00
	4	6 inch	23.50

Fig. 326

Gasoline Funnels

GALVANIZED—WITH STRAINER



Fig. 81

Made of galvanized sheet steel with No. 80 mesh bronze strainer.

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
1	\$.80	8	8½	½

Pitch Payers



Fig. 178

Heavy galvanized iron, double seamed and soldered, handle riveted to top, inside strainer riveted to body.

Each	Diam. Inches	Length Body Inches	Length Overall Inches	Weight Lbs.
\$4.00	7	13	20	1½

Sounding Lead Lines

DEEP SEA OR YACHT MARKINGS
U. S. C. G. AND INTERNATIONAL REGULATIONS

Deep Sea lines made of braided cotton and marked with bunting and leather per U. S. C. G. and international regulations.

Yacht lines made of hemp and marked every fathom with knots in cotton line attached.



Fig. 597

Length Fathoms	Deep Sea Each	Yacht Each	Diameter Deep Sea Line Inches
10	\$5.50	\$5.50	¼
15	7.00	7.00	¼
20	9.00	9.00	¼
25	10.50	10.50	¼
30	13.00	12.00	¼
120	42.00		½
150	55.00		¾

Prices do not include lead, specify type markings.

Sounding Leads



Fig. 940

All weights from 2 to 16 pounds each inclusive carried in stock.

Per Pound \$.25

Larger sizes furnished to order.

Sail Makers Needles

FORGED CAST STEEL—POLISHED
LONG SQUARE



Fig. 410

No.	Price Per 100	Length Inches	No.	Price Per 100	Length Inches
17	\$4.20	2¼	12	\$ 7.50	3¼
16	4.20	2½	11	10.00	3⅝
15	4.20	2½	10	12.50	3¾
15½	4.20	2⅝	9	15.00	4
14	4.50	2⅝	8	20.00	4½
14½	5.00	2¾	7	25.00	4¾
13	6.00	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	\$ 6.00	\$ 6.50
5	Seaming—Half Hide—Adjustable Buckle	10.00	10.50
6	Roping—Half Hide	11.00	11.50
7	Seaming—Heavy Hide—Adjustable Buckle	22.00	22.50
10	Seaming—U. S. Navy Type—Full Hide	20.00	20.50
11	Roping—U. S. Navy Type—Full Hide	22.00	22.50



"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 ½ 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
1	\$25.50	\$31.50	6	6 1/8	11	3 1/2
2	31.50	37.50	6	6 1/8	11	3 1/2
3	39.50	46.50	8	7 7/8	14	5 1/2
4	51.50	58.50	8	7	14	5 1/2

Length control rod below base, 10 inches.
No. 1 has T handle control instead of lever.
No. 4 has mangin mirror reflector and 100 C. P. bulb, range about ¾ mile.

Sunbeam

DECK TYPE—WITH SWITCH

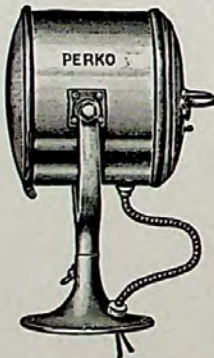


Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Reflector Inches	Diam. Reflector Inches	Height Above Deck Inches	Diam. Base Inches
2	\$22.00	\$27.00	6	6 1/8	11	3 1/2
3	27.00	33.00	8	7 7/8	14	5 1/2
4	33.00	40.00	8	7	14	5 1/2

No. 4 has mangin mirror reflector and 100 C. P. bulb.

"Perko"

"Pathfinder" Searchlights

WITH CHROMIUM PLATED REFLECTOR
6 OR 12 VOLTS—50 CANDLEPOWER
BAYONET DOUBLE CONTACT SOCKET
ENCASED WIRING—PRE-FOCUSED
WATERTIGHT GLAND
AT CONTROL ROD ENTRANCE
RANGE—ABOUT 1/3 MILE
For higher power see notes below.

Pathfinder

WITH PILOT HOUSE CONTROL—NO SWITCH



Fig. 1022

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck Inches
\$18.50	\$22.50	6 1/2	6 1/4	7 1/4	13 1/2

Length control rod below base, 8 1/2 inches.

Pathfinder

DECK TYPE—WITH SWITCH

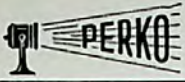


Fig. 1023

Polished Brass Each	Chromium Plated Each	Diam. Lens Inches	Diam. Base Inches	Diam. Head Inches	Height Above Deck Inches
\$14.00	\$16.00	6 1/2	6 1/4	7 1/4	12

NOTES

All lights this page with 6 or 12 volt 100 C. P. bulbs, add \$1.25 each. With 32 volt 50 C. P. bulb, add \$1.00 each, 32 volt 100 C. P. bulb, add \$2.00 each. Size No. 4 figs. 305 and 306 with 120 volt 100 C. P. bulb, add \$1.00 each. Spare lenses, reflectors, bulbs, etc. see pages 33 and 37.



"Perko" High Power Searchlights

WITH MIRROR REFLECTOR—MEDIUM SCREW SOCKET
VOLTAGE—6, 12, 32, AND 120 VOLTS

BODIES—are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast bronze.
REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a great distance.
FOCUSING DEVICE—of patented design, containing no wires to twist or break; very easy to control.
PILOT HOUSE CONTROLS—are of the wheel or lever type, both having their distinct advantages.
WIRING—enclosed in flexible metal hose, fully protected from weather.

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, 250 watt. Can also furnish 32 volt, 400 watt and 120 volts, 400 or 500 watt bulbs for small additional cost. See notes below.

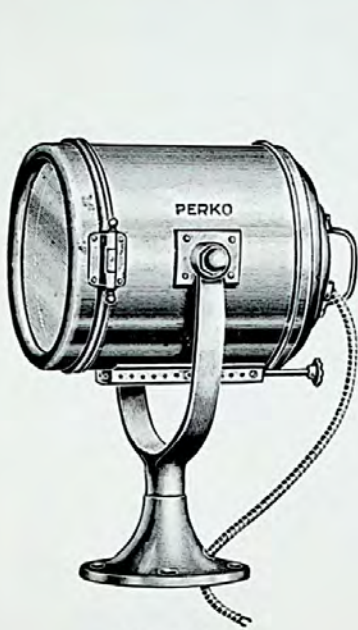


Fig. 480

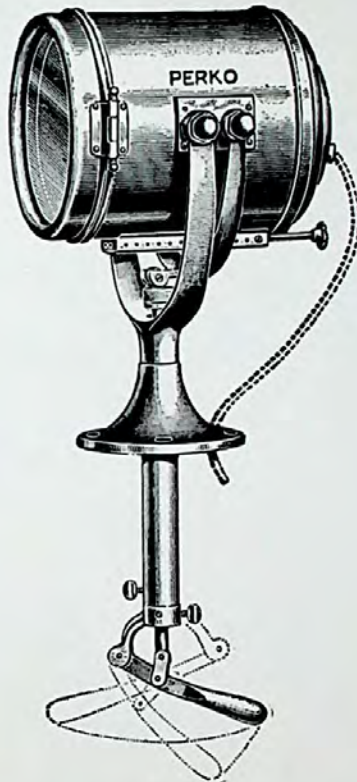


Fig. 297

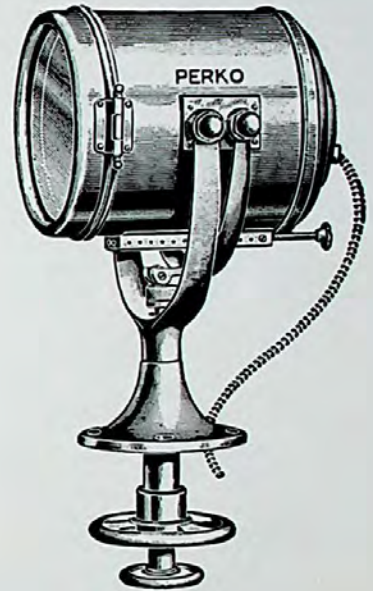


Fig. 529

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 3/4 mile	350,000	12 3/4	7 3/4	19	30	6 1/8
10	10	up to 1 mile	590,000	14 3/4	9 1/2	21	34	6 7/8
12	12	up to 1 1/2 miles	700,000	17	11 3/4	24	41	6 7/8
14	14	up to 2 miles	850,000	19	13 1/2	26	56	8 1/8

Fig. 480

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$ 80.00	\$ 95.00
10	95.00	110.00
12	115.00	135.00
14	140.00	160.00

Fig. 297

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$ 95.00	\$115.00
10	110.00	130.00
12	130.00	155.00
14	155.00	180.00

Fig. 529

Size Inches	Polished Brass Each	Chromium Plated Each
8	\$100.00	\$120.00
10	115.00	135.00
12	135.00	160.00
14	160.00	185.00

NOTES

With 32 volt 400 watt bulb, add \$2.50 each.
 With 120 volt 400 or 500 watt bulb, add \$1.00 each.
 With 120 volt 1000 watt bulb (special construction) price on application.
 Spare bulbs, reflectors, lenses etc. See pages 33 and 37.
 Special length of pilot house control to order, price on application.



"Star" Oil Compasses

"Star" Spirit Compasses

WITH DIAMOND POLISHED JEWEL BEARING

IN MAHOGANY BOX



Fig. 487

Has several exclusive features such as special alloy magnets that hold their magnetic charge indefinitely, hand treated non warping dial, a barometer type diaphragm for expansion and contraction and a hand polished pivot.

A guaranteed trouble and bubble proof compass.

Trade Size Inches	Exact Diam. Card Inches	Each	Size of Box Inches	Diam. Trunions Inches
2	2 1/8	\$ 6.50	4 3/8	4 1/4
2 1/2	2 3/8	8.50	5 3/8	4 3/4
3	3 1/8	10.00	6 1/4	5 1/4
4	4	15.50	7 1/4	6 3/8
5	4 3/4	20.50	8 1/2	7 1/8

Binnacles

WROUGHT BRASS—TWO PIECE



Fig. 444

A well made but low priced binnacle, electric lighted, with metal shield over bulb to eliminate glare. A pin point of light illuminates proper portion of compass.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches
3	6	5 3/8	5 3/8	4 7/8
4	7	6 1/2	6 1/2	6
5	8	7 1/8	7 1/2	6 3/4

For Size Compass Inches	Without Compass		With Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
3	\$11.00	\$13.50	\$20.00	\$22.50
4	13.25	16.25	27.25	30.25
5	15.50	19.50	34.00	38.00

For use with Fig. 487 oil compass only.



Fig. 987

Furnished with flat card and four magnet dial. A very high grade instrument second to none in quality and dependability.

Price does not include box.

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under-lighted Type Each	With Mahogany Box Add Each	Diam. Trunions Inches
4	4	\$24.00	\$38.50	\$5.00	6 7/8
5	4 3/4	26.75	41.00	5.50	8
6	5 1/4	30.00	46.00	6.50	9 1/8

Semi-Dome Spirit Compasses

UNDERLIGHTED—MAGNIFYING—FIG. 823

Trade Size Inches	Each	With Mahogany Box Add Each	Diam. Card Inches	Diam. Trunions Inches
4	\$50.00	\$5.00	4	6 7/8
5	55.00	5.50	4 3/4	8
6	65.00	6.50	5 1/4	9 1/8

Improved Compass Bracket

CAST BRONZE—DOUBLE SWING

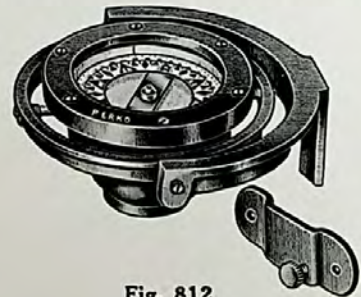


Fig. 812

The bracket is cast bronze in black finish and is attached to trunions on gimbal ring of compass.

Compass furnished is our Fig. 487 oil compass with jewel bearing.

Size Compass Inches	Complete with Compass Each	Without Compass Each	Wall Plate Only Each
2	\$ 8.75	\$2.75	\$.35
2 1/2	11.50	3.00	.35
3	13.50	3.50	.35
4	19.50	4.00	.35
5	25.00	4.50	.35

Deluxe Dome Binnacle

WROUGHT BRASS—TWO PIECE
WITH SLIDING DOORS

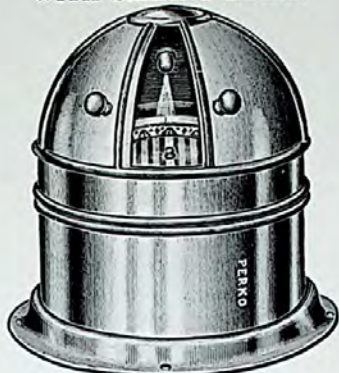


Fig. 300

Modern in every detail. Has two sliding doors and hooded electric light which illuminates the proper portion of the compass only. Entire head is removable for day running, removing of compass, etc.

No.	For Size Compass Inches	Height Overall Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
1	4	7 1/2	9	6	2 1/2
2	5	8 3/4	10	7 3/8	3 1/2

No.	Without Compass		With Oil Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
1	\$38.00	\$45.00	\$52.00	\$59.00
2	42.00	50.00	60.50	68.50

Cruiser Binnacle

WROUGHT BRASS—ONE PIECE



Fig. 412

An electric lamp for night running which illuminates the proper portion of the compass but will not disturb the helmsman's vision in any way.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
3	6 1/2	5 3/8	6 3/4	4 7/8	1
4	7 1/2	6 1/2	9	6	1 1/2
5	8 3/4	7 7/8	10	7 3/8	2 3/4

For Size Compass Inches	Without Compass		With Oil Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
3	\$15.00	\$17.50	\$24.00	\$26.50
4	16.75	19.75	30.75	33.75
5	18.75	22.75	37.25	41.25

Skylight Binnacle

BRASS



Fig. 534

Extra heavy brass throughout. Complete with night hood and electric lamp.

No.	For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches
1	4	11	6 1/2	10	6
2	5	11 3/4	7 7/8	10	7 3/8

No.	Without Compass		With Oil Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
1	\$35.00	\$42.00	\$49.00	\$56.00
2	37.50	45.00	56.00	63.50

Cruiser Binnacle

WROUGHT BRASS—TWO PIECE

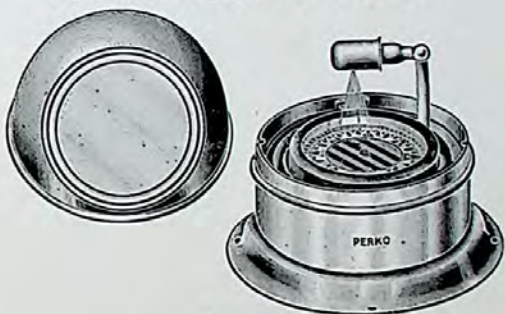


Fig. 401

When closed looks exactly like Fig. 412 above. Removable head allows easy access to compass. Furnished complete with electric fixture and lamp for illuminating compass at night. Head is held fast to base by bayonet catch which is invisible when closed.

For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Weight Less Compass Pounds
3	6 1/2	5 3/8	6 3/4	4 7/8	1
4	7 1/2	6 1/2	9	6	1 1/2
5	8 3/4	7 7/8	10	7 3/8	2 3/4

For Size Compass Inches	Without Compass		With Oil Compass	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
3	\$17.00	\$19.50	\$26.00	\$28.50
4	19.00	22.00	33.00	36.00
5	21.00	25.00	39.50	43.50

ALL ABOVE BINNACLES REGULARLY FURNISHED WITH OIL COMPASS FIG. 487. IF SPIRIT COMPASS IS DESIRED, ADD DIFFERENCE IN PRICE BETWEEN FIGS. 487 AND 987.



Yacht Log Books

100 PAGES—NEAT PRINTING

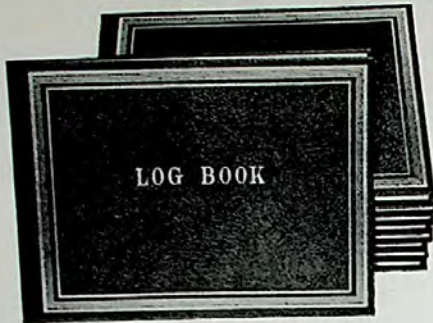


Fig. 708

In addition to pages for log data, these books contain useful information such as extracts from Bowditch Practical Navigator on symbols for weather, state of sea, cloud formations, force of wind, etc.

No. 1 Binding: Imitation leather, pebble finish, starboard green color, gold letters, without gold border. Each \$2.00

No. 2. Binding: Imitation leather, pebble finish, pilot blue color, gold letters and gold border. Each \$2.50

For name of yacht on book, add \$1.50.

Parallel Rules

NATURAL EBONY FINISH



Fig. 686

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

Length Closed Inches	Price Each
12	\$2.75
15	3.25
18	4.00

Electric Compass Light



Fig. 707

To be mounted on compass box for illuminating compass at night, a shield is furnished over the bulb to eliminate glare, shield has small hole sufficient to illuminate proper portion of compass card.

Polished Brass Each	Chromium Plated Each	Height Overall Inches
\$2.00	\$2.50	8

Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE
TRANSPARENT

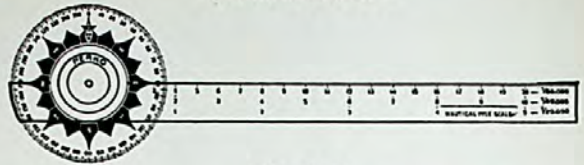


Fig. 706

Arm has various mileage scales used on all coastal and harbor charts.

Arm extended on short end to show reverse course.

A precision instrument, accurate in detail. Positions, depths, etc., are clearly visible when covered by protractor.

Each	Extreme Length Inches	Diam. Compass Card Inches
\$2.50	21 1/2	6 3/8

String Protractor

TRANSPARENT

For use where space is limited.

Size, 4x4 inches.

Each \$1.00



Fig. 697

Folding Stool

CAST BRONZE SUPPORTS

An ideal fitting for the average cruiser, appreciated by boat owners who have spent hours at the wheel.



Fig. 1009

No.	Each	Diam. Seat Inches	Offset Inches
1	\$ 7.25	11	14
2	10.00	13	16

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	\$4.00	\$7.75
4	36	5.00	8.75

"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE

FOR MARINE, INDUSTRIAL AND DOMESTIC USE

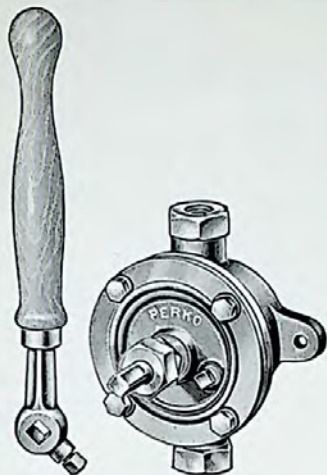


Fig. 681

Constructed entirely of cast bronze, principally for use as a marine bilge pump, but is used in large quantities in the industrial field for pumping oil and gasoline, hot liquids, juices, etc.

The interior consists of a cast bronze wing which oscillates on a bronze shaft connected to handle. The wing has lubricated square flax packing set in grooves which runs on interior of drum and as no metal parts rub together this pump will last for years without noticeable wear. Packing is very easily replaced.

EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$23.00	1/2	5 1/8	5	11 1/2
1	25.75	3/4	5 3/4	7	14
2	30.00	1	6 5/8	9 3/4	19 1/2

Manufactured in U. S. A. by "Perko."

"Perko" Ford Gear Pumps

ALL BRONZE

FOR MODEL A FORD MOTOR CONVERSIONS

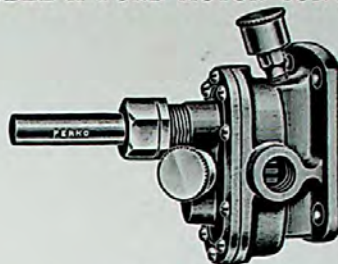


Fig. 530

Has a special mounting flange of the proper dimensions and exact drilling to permit installation in the same place and on the same mounting as the automobile water pump.

Furnished complete as illustrated.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diam. Shaft Inches	Weight Pounds
\$10.75	\$13.50	3/8	1/2	4 1/2

"Perko" Star Gear Pump

ALL BRONZE

FOR STAR MARINE MOTOR CONVERSIONS

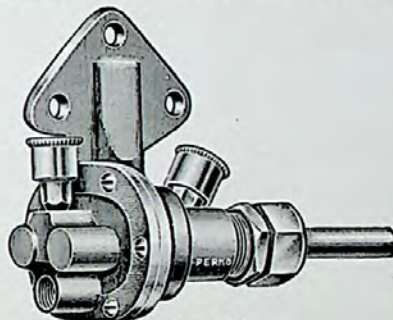


Fig. 804

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
\$9.75	\$12.50	3/8	1/2	4

"PERKO" BRONZE GEAR PUMP PARTS

Pump No.	Size Pipe Connection Inches	Cover Each	Spur Gear Each	Herringbone Gear Each	Body Each	Drive Shaft Each	Metal Pack Gland Each	Lock Nut Each	Pack Nut Each	Idle Gear Shaft Each
2	1/4	\$1.95	\$1.20	\$2.75	\$3.25	\$.95	\$.65	\$.35	\$.65	\$.60
3	3/8	2.10	1.40	3.10	3.30	.95	.80	.45	.70	.60
4	1/2	2.50	1.75	3.50	3.90	1.10	.80	.45	.70	.90
7	3/4	2.90	2.30	5.50	4.80	1.10	.80	.45	.70	.90
9	1	3.90	2.65	6.20	5.80	1.10	.80	.45	.70	.90

"PERKO" BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

The entire interior, including bearings, is tool machined, insuring perfect alignment and absolutely tight joints, blank bearing ends are solid (not soldered), all bearings are fully lubricated by brass grease cups. The drive shaft is in perfect alignment with the pump body. Pipe connections are Briggs standard pipe tap.

Single Lower Drive Shaft

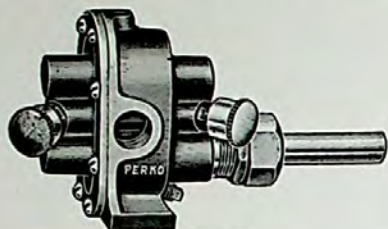


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$10.00	\$12.00	1/4	1/2	3 3/4
3	11.50	14.25	3/8	5/8	5 1/2
4	12.50	15.50	1/2	3/8	6
7	15.00	19.50	3/4	3/8	9
9	16.50	21.00	1	3/8	9 1/2

Single Upper Drive Shaft

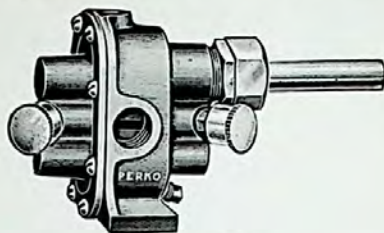


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$10.00	\$12.00	1/4	1/2	3 3/4
3	11.50	14.25	3/8	5/8	5 1/2
4	12.50	15.50	1/2	3/8	6
7	15.00	19.50	3/4	3/8	9
9	16.50	21.00	1	3/8	9 1/2

PLEASE NOTE THAT WE ARE NOW SUPPLYING OUR GEAR TYPE PUMPS WITH HERRINGBONE GEARS WHEN DESIRED.



Pumps with herringbone gears are more quiet in operation than spur gear pumps. Also more efficient in power consumption.

Herringbone gears operate in only one direction which must be specified, either clockwise or counter clockwise.

Double Lower Drive Shaft

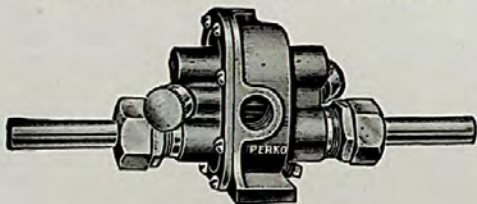


Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	1/4	1/2	4 1/2
3	12.50	15.50	3/8	3/8	6 1/4
4	13.75	17.00	1/2	3/8	6 3/4
7	16.50	21.00	3/4	3/8	9 1/2
9	17.50	22.50	1	3/8	9 3/4

Double Upper Drive Shaft

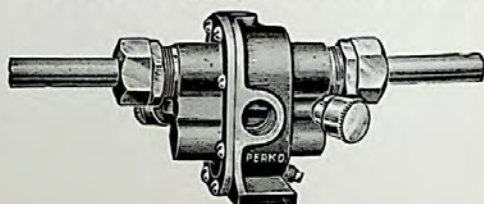
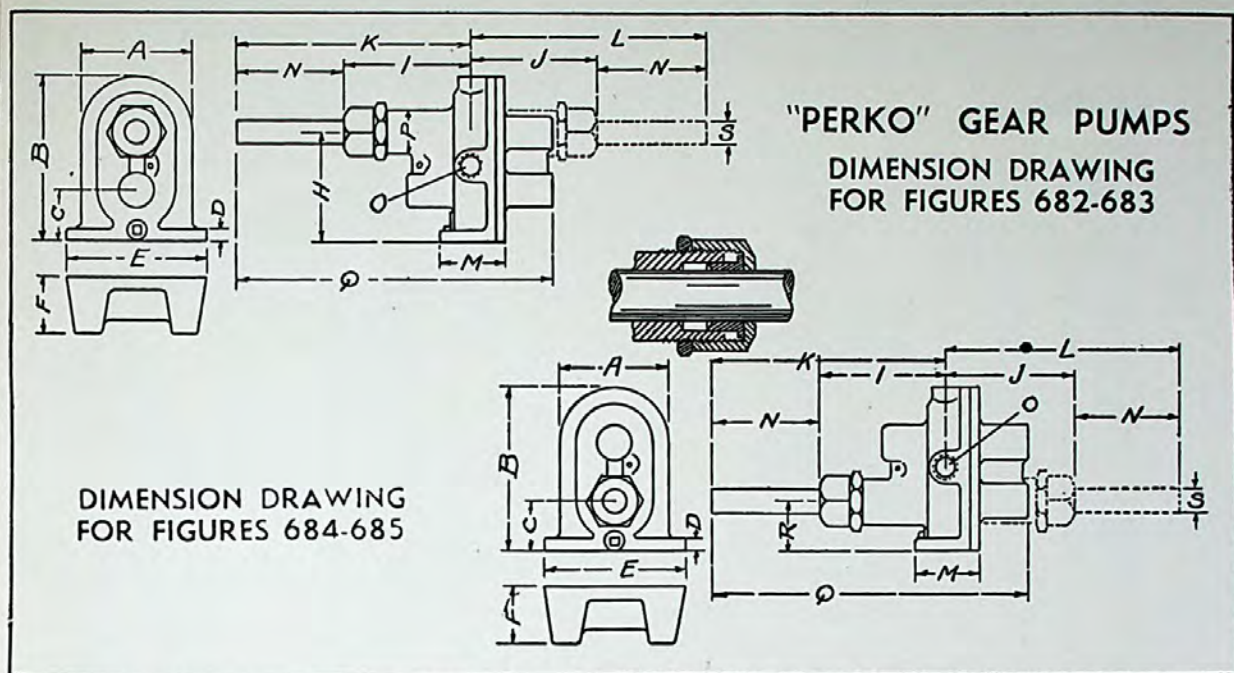


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	1/4	1/2	4 1/2
3	12.50	15.50	3/8	3/8	6 1/4
4	13.75	17.00	1/2	3/8	6 3/4
7	16.50	21.00	3/4	3/8	9 1/2
9	17.50	22.50	1	3/8	9 3/4

For special lengths of shafts add .60c each, and then .55c for every six inches or fraction thereof beyond standard length.

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



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

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.	PRESSURE									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2	3.	$\frac{1}{8}$	2.62	$\frac{1}{8}$	2.25	$\frac{1}{4}$	1.8	$\frac{1}{4}$	1.45	$\frac{1}{8}$
3	5.	$\frac{1}{8}$	4.25	$\frac{1}{4}$	3.7	$\frac{1}{8}$	3.2	$\frac{1}{2}$	2.8	$\frac{3}{4}$
4	7.5	$\frac{1}{4}$	6.3	$\frac{1}{8}$	5.4	$\frac{1}{2}$	4.6	$\frac{3}{4}$	3.8	1
7	13.5	$\frac{1}{8}$	11.5	$\frac{1}{2}$	9.9	$\frac{3}{4}$	8.75	1	7.7	1 $\frac{1}{2}$
9	17.	$\frac{1}{2}$	15.5	$\frac{3}{4}$	14.1	1 $\frac{1}{4}$	12.7	1 $\frac{1}{4}$	11.2	1 $\frac{1}{2}$

1800 REVOLUTIONS PER MINUTE

Pump No.	PRESSURE									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2	4.5	$\frac{1}{4}$	4.2	$\frac{1}{4}$	3.85	$\frac{1}{8}$	3.45	$\frac{1}{2}$	3.1	$\frac{1}{2}$
3	7.5	$\frac{1}{8}$	6.75	$\frac{1}{2}$	6.1	$\frac{3}{4}$	5.6	1	5.25	1
4	11.	$\frac{1}{2}$	10.	$\frac{3}{4}$	9.	$\frac{3}{4}$	8.2	1	7.3	1 $\frac{1}{2}$
7	16.*	$\frac{1}{2}$	15.*	1*	13.3*	*1	12.*	1 $\frac{1}{2}$ *	10.8*	*1 $\frac{1}{2}$ *
9	20.*	$\frac{3}{4}$	18.75*	1*	17.7*	*1 $\frac{1}{2}$	16.5*	2*	15.3*	*2

*At 1500 R.P.M.

Gallons per minute flow of clean water—63° F.—no pipe friction.

Motor recommended shown by H. P. indicated.

Head in feet = 2.3 x lbs. pressure.



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



Fig. 1016



Flax Packed Plunger



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
\$10.00	24	2 3/4	1 1/4	1 1/2	1/2

Weighted leather valve only, each \$.80

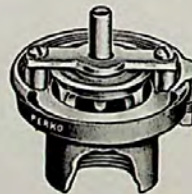
"Improved" Navy Bilge Pump
BRASS CYLINDER—CAST BRONZE PARTS
WITH ALL BRONZE POPPET VALVE



Fig. 497



Improved Plunger



All Bronze Poppet Type 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
\$12.00	24	2 3/4	1 1/4	1 1/2	1/2

"Super" Navy Bilge Pump
FOR HOSE OR PIPE

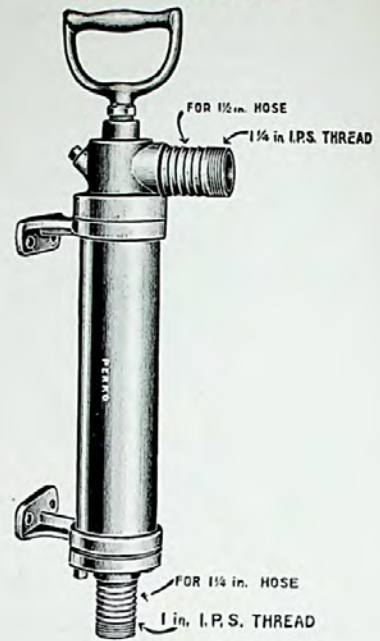


Fig. 701

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

Each	Extreme Length Inches	Inlet Sizes		Outlet Sizes	
		Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$10.00	27	1	1 1/4	1 1/4	1 1/2

"Midget" Navy Bilge Pumps
FOR HOSE OR PIPE

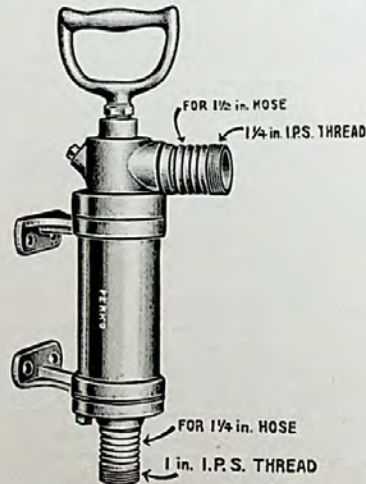


Fig. 702



Fig. 108

Our Fig. 701 pump reduced in length for boats requiring a large capacity pump to be installed when space is limited.

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Sizes		Outlet Sizes	
			Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$10.00	18 1/4	2 3/4	1	1 1/4	1 1/4	1 1/2

Fig. 108—Plunger Assembly Only, Each \$4.2

Brass Bilge Pumps DOUBLE ACTION

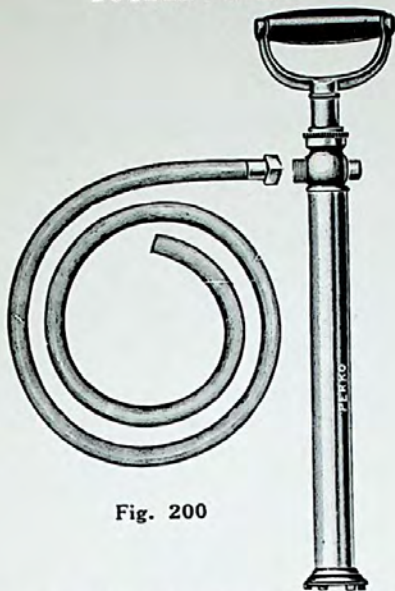


Fig. 200

Heavy brass seamless tubing, cast bronze fittings, treated leather packing, hollow brass ball checks, D shaped handle. Moulded rubber hose 5 feet long furnished with each pump.

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$4.25	17½	1½	6	2¼
2	5.00	20	1½	12	3¼
4	6.25	29	1½	16½	4

Without hose, deduct \$.25 each.

Brass Bilge Pumps WITH SUCTION HOSE AND STRAINER

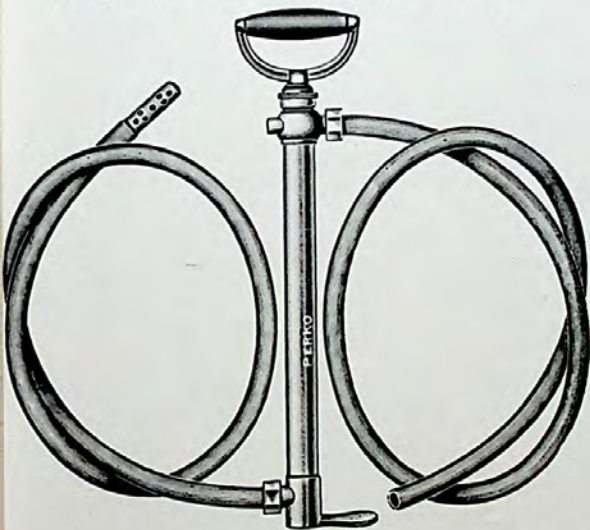


Fig. 202

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	\$ 6.50	18½	1½	6	3
6	7.75	21	1½	12	4
8	10.00	30	1½	16½	5

Without hose, deduct \$.50 each.

Brass Bilge Pump SINGLE ACTION—WITH 5 FT. RUBBER HOSE

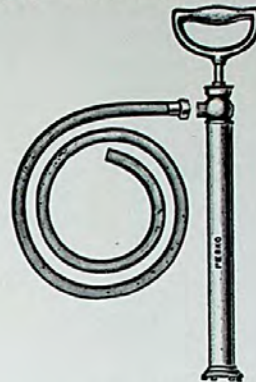


Fig. 723

CAPACITY—15 STROKES 1 GALLON

With Hose Each	Without Hose Each	Extra Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
\$3.35	\$3.10	\$.60	1½	17½	2

Brass Bilge Pump

DOUBLE ACTION—WITH BULKHEAD BRACKETS
¾ INCH I. P. S. THREAD—TAIL PIECES FOR HOSE



Fig. 345

No.	Without Tail Pieces Each	With Tail Pieces Each	Diam. Barrel Inches	Length Overall Inches	Weight Pounds
2	\$6.00	\$7.00	1½	21	3
4	7.50	8.50	1½	31	4

Brass Bilge Pump

DOUBLE ACTION—WITH BULKHEAD BRACKETS



Fig. 524

With 2 five foot lengths of hose and suction strainer.

Nos.	With Hose Each	Without Hose Each	Height Overall Inches	Diam. Pump Inches	Weight Pounds
6	\$ 9.50	\$ 9.00	21	1½	9
8	10.75	10.25	31	1½	10

Galvanized Steel Bilge Pumps

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



Fig. 156

Diameter, inches	2	3	4
Price per foot	\$.78	\$.90	\$1.08

Pumps shorter than 5 feet long charged as 5 feet. Length measured overall.

\$2.00 net crating charge on all orders for less than 12 pumps.

Galvanized Steel Bilge Pumps

WITH LEATHER PLUNGER AND VALVE
WOOD ROD AND STRAIGHT HANDLE
STRAIGHT TOP



Fig. 344

Diameter, inches	2	3	4
Price per foot	\$.75	\$.85	\$1.00

Pumps shorter than 5 feet long charged as 5 feet. Length measured overall.

\$2.00 net crating charge on all orders for less than 12 pumps.

SPARE PARTS

Plungers, see Fig. 239 | T handles, see Fig. 230
Valves, see Fig. 237 | Wood rods, see Fig. 231

¾ inch rods used in 2 inch pumps, 1½ inch rods in 3 and 4 inch pumps.

Crank Case Pump

DOUBLE ACTION—ALL BRASS
Capacity per minute—2 Gallons



Fig. 146

This has been sorely needed by motor boats as a quick acting, double action pump for draining the crank case, the long flexible metal spout can be inserted into the filler opening of crank case which can be drained rapidly with no trouble; a short length of rubber hose clamped to outlet of pump will allow draining overboard or into any handy carrier. A continuous flow of oil is maintained on both up and down strokes.

Length Pump Overall Inches	Length Inlet Spout Inches	Length Outlet Spout Inches	Diameter Pump Inches	Weight Per Foot
17½	12½	1¾	1⅞	
Complete Each	Without Spout Each	Spout Only Each	Rubber Hose Per Foot	
\$4.40	\$3.65	\$2.10	\$.20	

Rubber hose not furnished as standard equipment.

Crank Case Pump

DOUBLE ACTION—ALL BRASS



Fig. 1029

This pump is equipped with a cast bronze inlet spout for rubber hose, 12 inches of ¾ inch hose included.

This type is especially useful for Gray motors admitting the oil to be drawn off through the oil drain tube.

Complete Each	Without Spout Each	Spout Only Each	Extra Hose Per Foot
\$4.40	\$3.65	\$1.10	\$.20

Crank Case Pump

SINGLE ACTION—ALL BRASS



Fig. 388

Complete Each	Without Spout Each	Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Per Foot
\$3.30	\$2.75	1½	12	15½	

Extra Spouts—Each \$1.10.

Parts for Brass Bilge Pumps

Flange and cup washers are leather, especially treated for use in salt water. Split washer is wrought brass. Split washer is hollow and made of wrought brass.

1 for numbers 1 and 5 bilge pumps. } Page
2 for numbers 2, 4, 6 and 8 bilge pumps. } 59



		Outside Diam. Inches	Each
Flange Washer Fig. 203	{No. 1	1 1/8	\$.20
	{No. 2	1 1/4	.25



Cup Washer Fig. 204	{No. 1	1	\$.20
	{No. 2	1 3/8	.25



Split Washer Fig. 205	{No. 1	1 1/2	\$.05
	{No. 2	1 3/4	.07



Hollow Ball Fig. 206	{No. 1	1/2	\$.30
	{No. 2	3/4	.40



Valve Fitting For Plunger Fig. 456	{No. 1	\$.55
	{No. 2	.65



Packing Nut Fig. 457	{No. 1	\$.65
	{No. 2	.85

Bottom Valves

FOR BRASS BILGE PUMPS—CAST BRONZE



Fig. 549

For Fig. 200
Single Hose Pump



Fig. 550

For Fig. 202
Double Hose Pump

Furnished complete with hollow brass ball and gasket.

Fig. 549	Each
For Pump Size No. 0	\$1.00
1	1.10
2	1.45
4	1.45

Fig. 550	Each
For Pump Size No. 5	\$1.45
6	1.75
8	1.75

Fig. 549 for pump size No. 0 fits special bilge pump, Fig. 723.

Rubber Hose and Strainer

For Fig. 200 and 202 Brass Bilge Pumps

Heavy moulded rubber hose, durable and lasting. 3/4 inch inside diameter.



	Each
Standard 5 ft. lengths	\$.75
Cast Bronze Strainer	.35

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, inches	1 1/2	2	3	4
Weight, per doz., lbs.	3	4	7	11
Price per doz.	\$3.00	\$3.00	\$3.25	\$5.00

Leather Plungers

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Weight Per Dozen Lbs.	Price Per Dozen
2	2	\$3.00
3	3	3.25
4	4	4.50

Wood Pump Handles

Turned from soft wood, smooth finish, 9 inches long.



Fig. 230

Diam. of hole, in. 7/8 1 1/8
Price per doz. \$1.60 \$2.10

Wood Pump Rods

Pointed on one end.



Fig. 231

NOTE—7/8 inch only furnished in 6 inch multiples.
1 1/8 inch only furnished in 12 inch multiples.

Diam., inches	7/8	1 1/8
Lengths, ft.	2 to 6	6 to 12
Price per ft.	\$.10	\$.12

Bronze Navy Pump Strainers

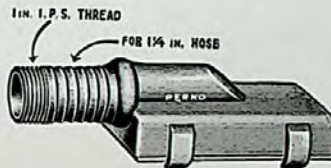


Fig. 704

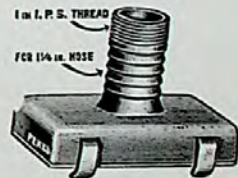


Fig. 705



Fig. 721



Fig. 722

Fig.	Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$2.00	1	1 1/4	7	2 3/4	2
705	2.00	1	1 1/4	4 3/4	2 3/4	1 1/2
721	2.00	1 1/4		5	2 3/4	1 1/2
722	2.00	1 1/4		4 3/4	2 3/4	1 3/8

GALLEY OR LAVATORY PUMPS

CAST BRONZE, POLISHED OR CHROMIUM PLATED
BRASS BALL CHECKS IN PLUNGER AND INLET VALVE

WITH ADJUSTABLE MAHOGANY HANDLE
HIGH OR LOW SPOUT
STRAIGHT OR FLARED BASE

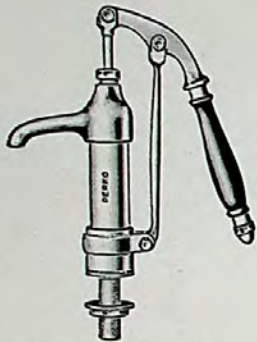


Fig. 473 Straight Base
Fig. 478 Flared Base

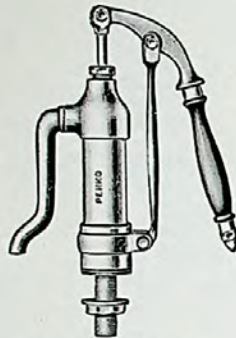


Fig. 474 Flared Base
Fig. 479 Straight Base

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	\$11.00	\$13.00	\$.50
474-479	11.50	13.75	\$.50

WITH BRONZE T HANDLE
LOW OR GOOSENECK SPOUT
FLARED FLANGE



Fig. 144

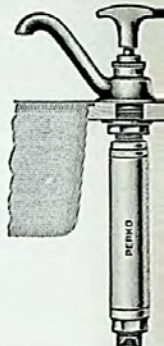


Fig. 1040

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	
1040	1 1/2	14 1/2	4 1/2	3	

Fig.	Exposed Parts Only	
	Polished Bronze Each	Chromium Plated Each
144	\$7.50	\$8.00
1040		

WITH ADJUSTABLE ALL METAL HANDLE
HIGH SPOUT—FLARED BASE

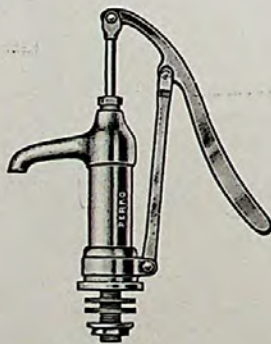


Fig. 467

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	Handle Only Each
	\$8.75	\$10.75	\$1.60

ANGLE TYPE
DOUBLE ACTION—SWIVEL SPOUT
EFFORTLESS OPERATION



Fig. 677

Angle toward user when installed permits effortless operation.
Spout swivels to various positions.
Bottom valve is an improved type to hold priming.

Polished Bronze Each	Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height to Spout Flange Inches
\$5.25	\$5.50	3/8	4	4 1/4

Corner Lavatory

WHITE VITREOUS CHINA

With chromium plated low spout pump, Fig. 479



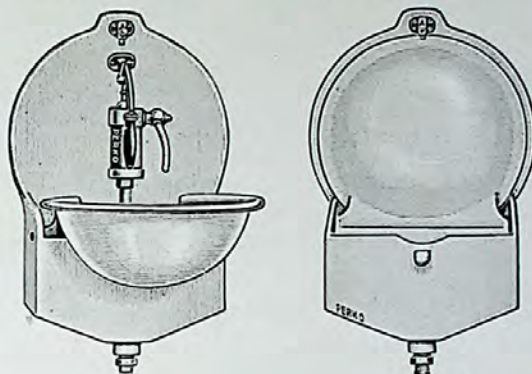
Fig. 830

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

No.	Without Pump Each	Complete With Pump Each	Complete With Faucet Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$19.00	\$31.00	\$22.50	12x12	10	2 $\frac{1}{2}$
2	24.00	36.00	27.50	14x14	11	2 $\frac{1}{2}$

Folding Lavatories

VITREOUS ENAMELED ENTIRELY
CHROMIUM PLATED PUMP AND FITTINGS



Open

Closed

Fig. 732

Ideal where space is limited. A one piece back with folding basin. Smooth white vitreous enameled all over. The quick acting pump and all other metal parts are brass, chromium plated. Basin is held in closed position by a spring catch. Inlet and outlet fittings are threaded for $\frac{3}{4}$ inch pipe.

Also furnished with compression type spring faucet instead of pump.

Complete assembly weighs 42 pounds.

With Faucet Each	With Pump Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches	Depth Basin Inches
\$37.00	\$43.00	20	13 $\frac{3}{4}$	14	10	4 $\frac{1}{2}$

Flat Back Lavatories

WHITE VITREOUS CHINA

With Chromium Plated Compression Faucet

With Chromium Plated Pump Fig. 871



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	Complete with Faucet Each	Complete with Pump Each	Size Inches	Diam. Basin Inches	Height Back Inches
831	\$16.00	\$19.50	\$27.75	12x12	10	2 $\frac{1}{2}$
832	18.50	22.00	30.00	14x14	11	2 $\frac{1}{2}$

Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED
WHITE



Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit, $1\frac{1}{2}$ inch tail piece.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs.
831	\$16.00	12x12	10	2 $\frac{1}{2}$	
832	18.50	14x14	11	2 $\frac{1}{2}$	
2	5.25	10 $\frac{1}{2}$ x16	12 $\frac{3}{4}$ x18	4 $\frac{3}{4}$	4

ALL ABOVE FURNISHED WITHOUT PUMP OR FAUCET UNLESS OTHERWISE SPECIFIED.

“PERKO” MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE
 WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH
 BIRCH SEATS AND COVERS—MAHOGANY OR WHITE FINISH

BOWL is of rim flushing type and of latest design to eliminate loose pipe connections where supply pipe 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 forematter 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 in two styles, closed front as illustrated or open front.

DIMENSIONS, OVERALL, side to side, 17½ inches; front to back, 16 inches; height, 14¼ inches.

The Boatman

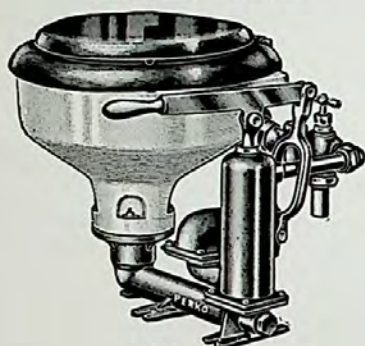


Fig. 828

With Horizontal Handle and Hand Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$45.00
2 With Mahogany Seat and Cover, Open Front	46.00
3 With White Seat and Cover, Closed Front	48.00
4 With White Seat and Cover, Open Front	49.00

The Cruiserman

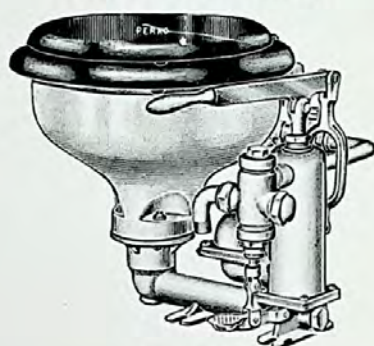


Fig. 1121

With Horizontal Handle and Foot Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$48.00
2 With Mahogany Seat and Cover, Open Front	49.00
3 With White Seat and Cover, Closed Front	51.00
4 With White Seat and Cover, Open Front	52.00

The Seaman

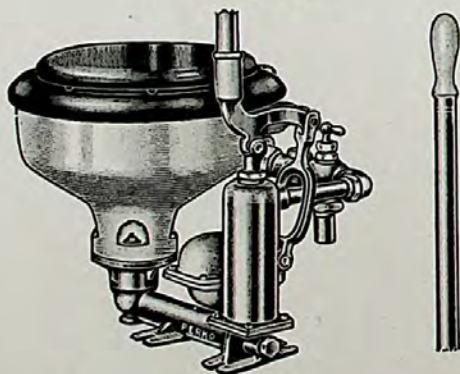


Fig. 1026

With Vertical Handle and Hand Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$47.00
2 With Mahogany Seat and Cover, Open Front	48.00
3 With White Seat and Cover, Closed Front	50.00
4 With White Seat and Cover, Open Front	51.00

The Yachtsman

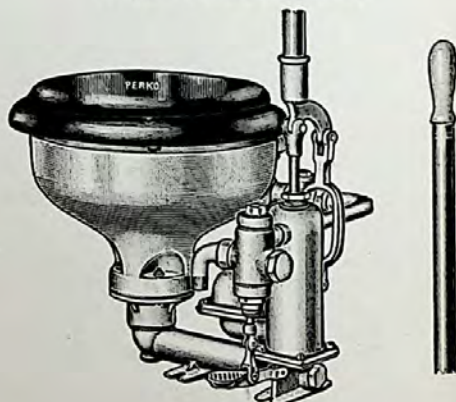


Fig. 829

With Vertical Handle and Foot Valve

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$50.00
2 With Mahogany Seat and Cover, Open Front	51.00
3 With White Seat and Cover, Closed Front	53.00
4 With White Seat and Cover, Open Front	54.00

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

The Guardsman

1½ INCH PUMP—CAST BRONZE—WHITE FINISH
FELT PACKED PISTON
VERTICAL HANDLE AND FOOT VALVE

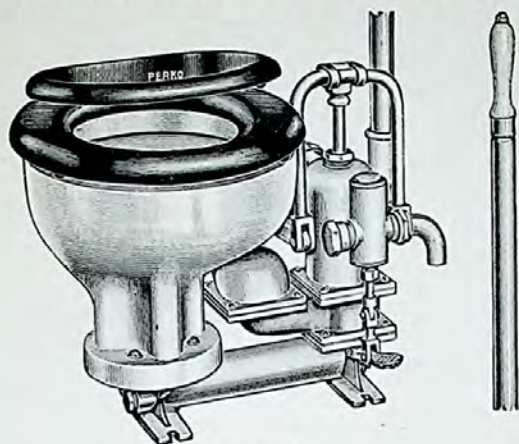


Fig. 1122

No.	Each
1 With Mahogany Seat and Cover, Closed Front	\$95.00
2 With Mahogany Seat and Cover, Open Front	96.00
3 With White Seat and Cover, Closed Front	98.00
4 With White Seat and Cover, Open Front	99.00
5 With Oak Seat, no cover, Coast Guard type	90.00

DIMENSIONS OVERALL—Side to side, 20¼ inches; front to back, 16½ inches; height, 17 inches.

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

WASTE ARM—Has ¾ inch pipe size clean out openings in both ends.

BORE—3½ inches; stroke, 3½ inches.

HANDLE is chromium plated heavy brass tubing.

Furnished with pump on right side facing unless otherwise specified.

Seats and Covers

MAHOGANY OR WHITE FINISH

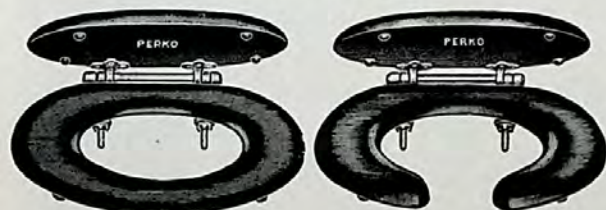


Fig. 1127

Fig. 1128

Closed Front

Open Front

These are made of birch wood, finished in several coats of hand rubbed mahogany or white enamel.

Fig.	Mahogany Each	White Each	Outside Diam. Inches	Outside Depth Inches	Centers of Bolts Inches
1127	\$4.75	\$6.00	14	14	5¾
1128	5.75	7.00	14	14	5¾

White Vitreous China Bowls WITH FLUSHING RIM

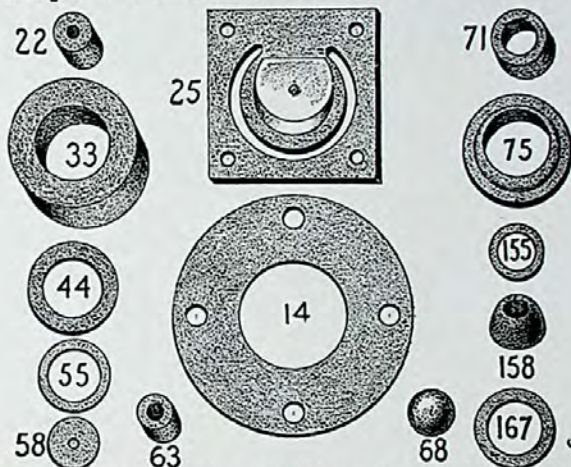


Fig. 1125

No. 1 for closets Figs. 828, 829, 1026, 1121.
No. 2 for closet Fig. 1122.

No.	Each	Height Overall Inches	Diam. Base Inches	Outside Diam. Top Inches	Centers of Bolt Holes Inches
1	\$13.00	8	4¼	12½	3¾
2	18.00	12	7	12½	4½

Repair Parts for "Perko" Closets



Part No.	Part Name	Each
14	Rubber Gasket for Bowl Flange	\$.45
22	Graphite Packing for Piston Rod	.30
25	Leather Clack Valve, Weighted	.60
33	Felt Packing for Piston	.60
44	Rubber Washer for Rising Main Coupling	.15
55	Rubber Washer for Hand Valve Coupling	.15
58	Rubber Disc for Hand Check Valve	.15
63	Graphite Packing for Hand Valve Stem	.15
68	Rubber Ball for Return Check Valve	.20
71	Graphite Packing for Flush Elbow	.15
75	Rubber Gasket for Bowl Spud	.25
155	Rubber Washer for Foot Valve Coupling	.15
158	Rubber Washer for Foot Valve Seat	.25
167	Rubber Washer for Foot Valve Cap	.15

METAL PARTS FOR CLOSETS

Part No.	Part Name	Each
23	Cylinder Packing Nut	\$.50
30	Pump Piston Rod	1.00
57	Intake Valve Stem	.60
73	Flush Pipe for Fig. 828 and 1026	.30
83	Pin for Piston Rod Yoke	.25
86	Piston Rod Yoke	.50
173	Flush Pipe for Fig. 829 and 1121	1.00

Bronze Sea Cocks
WITH DRAIN PLUGS—ROUND WAY



Fig. 835



Fig. 834

Size Inches	Fig. 835 Each	Fig. 834 Each	Without Hull Connection	
			With Strainer Add Each	Deduct Each
3/4	\$ 5.35	\$ 5.70	\$.35	\$.85
1	6.35	7.00	.45	1.10
1 1/4	10.75	11.35	.50	2.00
1 1/2	12.20	12.95	.60	2.20
2	17.70	18.45	.65	2.70
2 1/2	49.00	52.00	2.50	5.00

Angle Sea Cocks

CAST BRONZE—FOR HULL CONNECTIONS

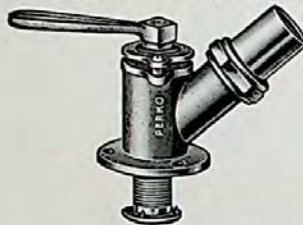


Fig. 836

Heavy cast bronze handle.

Tail piece for lead pipe or hose connection — 3/4 inch for inlet, 1 1/2 inch for outlet.

Size Inches	Without Hull Connection		With Hull Connection		Weight Pounds
	Each	Each	With Strainer Add Each	Each	
3/4	\$4.00	\$ 4.85	\$.35		2
1 1/2	8.00	10.20	.60		4

Thru-Hull Connections

CAST BRONZE—WITH LOCKNUT WITH AND WITHOUT TAIL PIECE



Fig. 64



Fig. 322

Pipe Size Inches	Fig. 64 Each	Fig. 322 Each	Length Neck Inches	Diam. Flange Inches	Weight—	
					Fig. 64 Pounds	Fig. 322 Pounds
1/4	\$1.25	\$.85	1 3/4	1 1/4	3/8	3/8
3/8	1.30	.90	2 3/8	1 3/8	1/2	1/4
1/2	1.45	.95	2 3/8	1 3/8	3/4	3/8
3/4	1.80	1.15	2 3/8	2	1	1/2
1	2.15	1.40	2 3/8	2 1/4	1 1/4	3/4
1 1/4	3.00	2.00	3 1/2	2 3/8	1 3/4	1
1 1/2	3.75	2.50	3 3/4	3	2 1/4	1 1/4
2	5.75	3.75	4	3 1/2	3 1/2	2
2 1/2		6.00	4	4 1/2	4 1/2	2 3/4

Water Outlet
CAST BRONZE



Fig. 332

No.	Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight
1	3/4	2 1/4	2 1/4	1 1/2
2	1	3	3 1/4	1 1/2

No.	Polished Bronze Each	Chromi- Plate Each
1	\$2.00	\$2.75
2	2.50	3.25

Speedboat Strainers
CAST BRONZE

Designed to prevent clogging. Will admit full supply of water at all speeds.

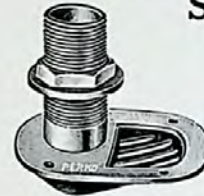


Fig. 65

Size Pipe Inches	Each	Length Pipe Inches	Size Strainer Inches	Weight Each
1/2	\$1.40	2 1/4	2 1/2 x 3 1/2	1 1/2
3/4	1.65	2 3/8	3 x 4	1 4
1	2.25	3	3 x 4	1 1/4
1 1/4	3.00	3 3/8	3 3/8 x 4 1/2	1 3/8
1 1/2	3.75	3 3/8	4 1/4 x 6 1/4	2 1/2

Scoop Strainers
CAST BRONZE

Can be used with inlet connection, Fig. 64. No. 1 will fit to 1/2 inch. No. 2 will fit up to 1 inch. No. 3 will fit up to 1 1/2 inches. No. 4 up to 2 inches.



Fig. 66

No.	Each	Outside Dimensions Inches	Weight Each
1	\$.35	3 1/2 x 2 1/2	4 oz.
2	.50	5 x 3 1/4	7 oz.
3	1.00	6 1/4 x 4 1/4	1 lb.
4	2.00	8 1/4 x 5 1/4	2 lbs.

Round Strainers
PLAIN CAST BRONZE



Fig. 86

Outside Diam. Inches	Each	Inside Diam. Inches	Weight Each
2 1/2	\$.30	1 3/4	2 oz.
3	.35	2	4 oz.
3 1/2	.50	2 5/8	5 oz.
4	.60	3	6 oz.
5	1.00	3 3/4	12 oz.
6	1.25	4 1/2	1 lb.
8	2.50	6	2 lb.
10	4.00	8 1/4	3 lb.

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	\$.75	\$1.40
1	1.00	1.70
1 1/4	1.25	2.00
1 1/2	2.00	2.75
2	3.00	3.75



Marine Exhaust Blowers

ELECTRIC 6—12—32—OR 110 VOLTS
ENCLOSED MOTOR—CAST ALUMINUM HOUSING

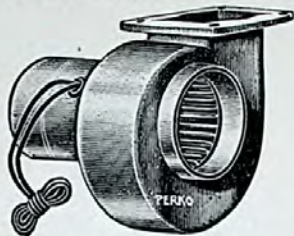


Fig. 778

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
1	3	2½	7½x6x6	90	3½x3½
2	4	4	8½x8x8	186	4½x4½

Volts	No. 1 Each		No. 2 Each		Amperes		Watts	
	6	12	6	12	No. 1	No. 2	No. 1	No. 2
6	\$12.00	\$22.00	3.25	7.	19.6	42.0		
12	13.00	23.50	1.70	4.	20.8	48.0		
32	14.00	25.00	.75	1.5	20.0	49.0		
110	16.50	27.50	.25	.45	27.0	50.0		

The 110 volt fan is for direct current only.
A caution plate is furnished with every Blower.

Heavy Duty Exhaust Blowers

COAST GUARD MODEL

6—12—24—32—115 VOLTS

ENCLOSED MOTOR—CAST ALUMINUM HOUSING

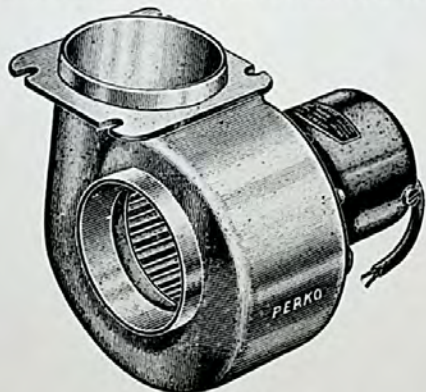


Fig. 740

With fully enclosed Spark Proof Heavy Duty Motor,
1/40 H.P. 2500 R.P.M.

CAPACITY—180 CUBIC FEET PER MINUTE

Inlet Inches	Outlet Inches	Mounting Flange Inches	Extreme Width Inches	Height Inches	Weight Pounds
4	4	5¼x5¼	9¼	7¾	10½
Volts		Each	Amps.		Watts
6 DC		\$28.00	7.0		42
12 DC		28.00	3.5		42
32 DC		28.00	1.35		44
115 DC		28.00	.36		41

Radio Shielded, add \$1.00 each.

24 Volt D.C. and 60 Cycle A.C. on application.

Exhaust Blowers and Ventilators

WITH ROUND OR OVAL MOUTH VENTILATOR
AND NO. 1 BLOWER, 3 INCH INTAKE

Round Mouth

Oval Mouth

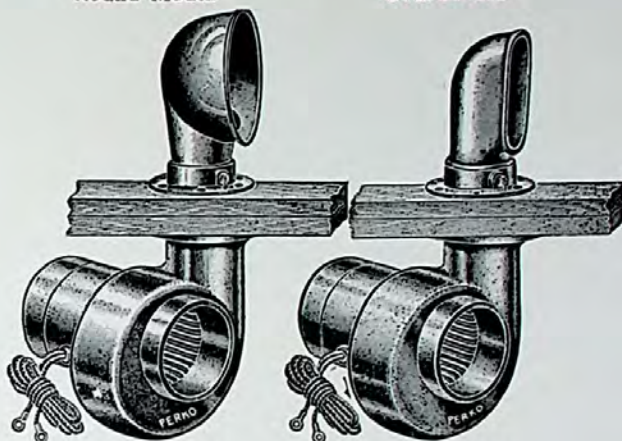


Fig. 780

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, 6¼ inches high overall.

6 Volt	6 Volt	6 Volt
Fig. 780 Brass Complete Each	Fig. 780 Copper Complete Each	Fig. 781 Bronze Complete Each
\$21.50	\$23.50	\$20.00

For 12 volt Blower, add \$1.00 each.
For 32 volt Blower, add \$2.00 each.
For 110 volt Blower, add \$4.50 each.

Blower and Ignition Switch

CAST BRONZE—SATIN FINISH
FLUSH TYPE



Fig. 149

A way to automatically prevent starting the engine until the blower or exhaust fan has been turned on. Clear bilges and engine room of dangerous fumes before starting motor.

Polished Bronze Each	Diam. Face Plate Inches	Diam. Box Inches	Depth Inches
\$4.90	2¾	2¼	1¼

Seamed Cowl Ventilators

GALVANIZED STEEL OR BRASS
WITH BRONZE SCREW DECK PLATE



Fig. 151

Size Deck Plate Inches	Galv. Steel Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
2	\$ 7.00	\$ 9.50	4	5
2½	7.50	10.00	5	6
3	8.00	10.50	6	7
3½	8.75	11.25	7	10
4	10.00	12.50	8	11
4½	13.50	16.00	9	12
5	16.25	18.75	10	14
6	22.00	24.50	12	15
8	50.00	60.00	16	21

Seamed Cowl Ventilator

GALVANIZED STEEL OR BRASS
WITH BRONZE SWIVEL DECK PLATE



Fig. 575

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Diam. Mouth Inches	Height Overall Inches
3	\$10.50	\$13.00	6	7½
4	13.00	16.00	8	10
5	19.50	23.50	10	12½
6	27.00	33.00	12	15
8	53.00	63.00	16	20

Ship and Yacht Cowl Ventilators

SEAMLESS STEEL—HEAVY GAUGE
HOT DIPPED GALVANIZED

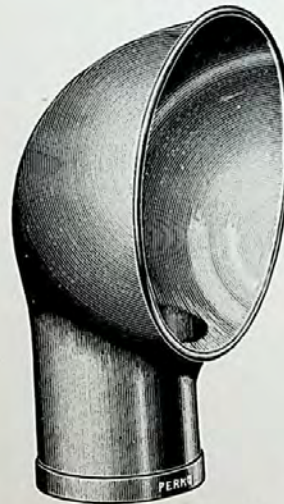


Fig. 557



Seamless Cowl Ventilators

HOT DIPPED GALVANIZED STEEL
WITH CAST BRONZE DECK PLATES



Fig. 510

Screw Deck Plate



Fig. 513

Swivel Deck Plate

These are our latest improvement in cowl type ventilators, made of heavy gauge sheet steel and hot galvanized after fabrication. The body is smooth and free of seams, a sturdy and good looking ventilator.

Deck Plate Opening Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches	Gauge Before Galvanizing
3	\$12.00	\$14.00	6	8	24
4	15.50	18.00	8	11	24
5	19.50	22.00	10	13	24
6	29.50	32.50	12	15	24
8	52.00	55.00	16	20	20

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, large sizes of 16 gauge steel.

Flange illustrated is not a swivel type, it is fitted the cowl to hold same in fixed position.

Diam. Bottom Opening Inches	Cowl Only Without Band Each	Cowl Only With Band Each	Cowl With Galvanized Deck Flange	Diam. Mouth Inches	Height Overall Inches
10	\$ 44.00	\$ 47.00	\$ 59.00	20	2
12	54.00	57.00	71.00	24	3
14	63.00	66.00	82.00	28	3
16	70.00	73.00	91.00	32	4
18	80.00	83.00	103.00	36	4
20	90.00	94.00	117.00	40	5
24	110.00	114.00	140.00	48	6

With swivel deck plate galvanized or bronze application

ALL ABOVE SIZES ARE STANDARD, SPECIAL SIZES AND EXTRA HEIGHT MADE TO ORDER.
COVERS FOR SWIVEL DECK PLATES CAN BE SUPPLIED, PRICE ON APPLICATION.



Spun Cowl Ventilators

SHEET BRASS OR COPPER
BRONZE SCREW DECK PLATE

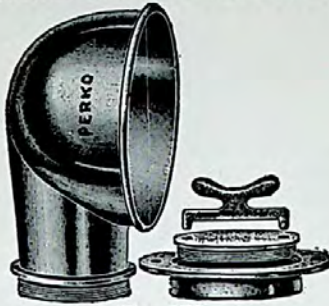


Fig. 152

Deck Plate Size Inches	Polished Brass Each	Polished Copper Each	Diameter Mouth Inches	Height Overall Inches
2	\$ 9.00	\$11.00	4	6
2½	9.50	11.50	5	7
3	10.00	12.00	6	8
3½	11.00	13.00	7	9
4	12.00	15.00	8	10½
5	18.00	22.00	10	14

With bronze swivel deck plate on application.

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	Net Weight Pounds
3	\$12.00	\$16.00	6	7¾	4½
4	15.00	19.00	8	9¾	8½

Hammered Copper Ventilators

WITH SCREW OR SWIVEL DECK PLATE

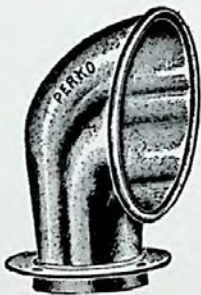


Fig. 367



Fig. 560

Size Inches	Screw Deck Plate		Swivel Deck Plate		Diam. Mouth Inches	Height Overall Inches
	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches		
3	\$19.50	\$22.50	6	8	6	8
4	25.50	29.50	8	11	8	11
5	41.00	45.00	10	13	10	13
6	45.00	50.00	12	15	12	15
8	70.00	72.00	16	20	16	20

Larger Sizes—Price on Application

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	Diam. Throat Inches	Polished Bronze Each	Chromium Plated Each	Height Above Deck Inches	Size Mouth Inches
1	\$7.75	\$9.25	2	6½	2¼ x 4½	3	\$13.00	\$17.00	9½	6¼ x 4
2	8.00	9.50	2	8	2¼ x 4½	4	16.00	20.00	9¾	6½ x 4¾

Cast Bronze Cowl Ventilators

OVAL MOUTH

SCREW TYPE



Fig. 509

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$12.00	\$16.00	8½	6¼ x 4
4	15.00	19.00	8¾	6½ x 4¾

SWIVEL TYPE

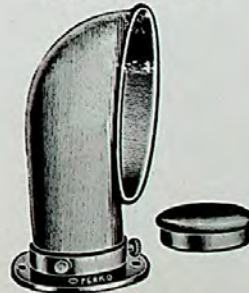


Fig. 515

With cover for use when ventilator is removed.

Space Saver Ventilator

CAST BRONZE

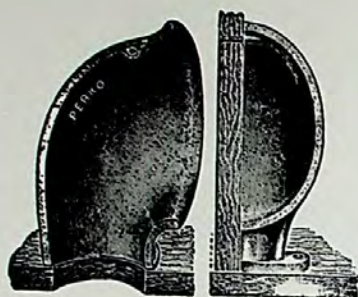


Fig. 782

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	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrome Plated Per Pair
1	2½	2¾x5	6¾	\$5.00	\$5.50	\$ 7.75
2	3½	3⅛x7½	9	8.25	9.00	12.00

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
\$7.75	\$9.00	7x7	3½	4¾

Clam Shell Ventilators

CAST BRONZE



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Ounces
4	2¾	1¾	3⅝ x 3½	11
5	3½	2	4 x 3¾	14

No.	Polished Bronze Each	Chromium Plated Each
4	\$1.40	\$2.00
5	1.50	2.10

Streamline Ventilator

CAST BRONZE



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Ounces
2	1¾	1	2⅝ x 3⅝	6
3	2¾	1⅝	3⅝ x 4¾	12

No.	Polished Bronze Each	Chromium Plated Each
2	1.30	1.80
3	1.40	2.00

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	\$2.75	\$3.40	3½	2¾	5x6	1
7	3.60	4.40	4¾	3¼	6x7	2
8	4.75	5.75	5¾	3½	7x8	2½

Transom Ventilators

CAST BRONZE



Fig. 1069

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.00	\$1.50	\$2.25	6¾x2¼	¾	¾

With bronze screen soldered in add \$.50 each.

Turbine Ventilator

FOR MARINE USE
IMPROVED BEARING RUNNING IN OIL
GALVANIZED IRON AND COPPER



Fig. 744

For removing gasoline fumes from engine room and bilge, cooking odors from the galley, ventilation of the cabins, etc.

The moving breeze whirls the head and the resulting vacuum causes a powerful upward lift to the air below. Absolutely quiet in operation, durable and rainproof.

Diam. Body Inches	Galv. Iron Each	Copper Each	Height Overall Inches	Diam. Top Inches
4	\$ 9.00	\$15.00	13 1/4	7 1/4
5	9.00	15.00	15 1/4	8 1/4
6	9.00	15.00	16 1/4	9 1/2
7	9.50	17.00	17 1/4	11 1/2
8	10.50	18.00	19 3/4	13
10	12.00	21.00	22 1/4	16 1/4
12	14.50	26.00	24 1/2	19 1/2

Ice Box Ventilators

CAST BRONZE—POLISHED



Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$3.00	\$4.00	1 3/8	2 1/2 x 2 1/2
2	3.50	4.50	2 1/2	3 1/4 x 3 1/4
3	4.00	5.00	3	4 1/8 x 4 1/8
4	4.50	5.50	3 3/8	4 7/8 x 4 7/8

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	\$ 2.90	\$ 3.90	3 3/8	12 oz.
2 1/2	3.25	4.20	4 1/2	1 lb.
3	3.85	4.60	4 7/8	1 1/4 lbs.
3 1/2	4.60	5.50	5 1/2	1 3/4 lbs.
4	5.50	6.50	5 3/4	2 1/4 lbs.
4 1/2	6.35	7.25	6 3/8	3 1/4 lbs.
5	8.00	9.50	7 1/8	3 3/4 lbs.
6	10.00	11.50	8 1/4	4 1/2 lbs.
8	25.50	28.50	10 1/4	7 1/2 lbs.

Liverpool Smoke Heads

SHEET STEEL OR BRASS—RIVETED



Fig. 347

Size Inches	Galv. Each	Brass Each	Overall Dimensions Inches
3	\$ 6.00	\$ 7.75	11 1/2 x 4
3 1/2	6.25	8.00	12 x 4 1/2
4	6.50	8.25	13 x 5 1/2
4 1/2	7.25	9.50	14 x 6
5	8.00	10.25	15 x 7
5 1/2	9.50	11.25	16 x 7 1/2
6	10.00	13.25	17 x 8

Larger sizes made to order, price on application.

If required for mounting on water deck iron, specify 1/2 inch larger size

Water Deck Irons

GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Price Each	Outside Diam. of Neck Inches	Diam Flange Inches	Weight Pounds
2 1/2	\$1.50	2 3/4	6 1/2	1 3/4
3	1.75	3 3/8	7 1/2	4
3 1/2	2.00	3 7/8	8 1/2	5
4	2.25	4 3/8	9 1/4	6 1/4
4 1/2	2.50	4 7/8	10	8
5	2.75	5 3/8	10 1/2	9
5 1/2	3.50	5 7/8	11	9 3/4
6	4.00	6 1/2	11 1/4	11 1/4
7	5.00	7 3/8	12 3/4	13 1/4
8	7.00	8 3/8	13 3/8	19

Swivel Deck Plates

CAST BRONZE—FOR COWL VENTILATORS

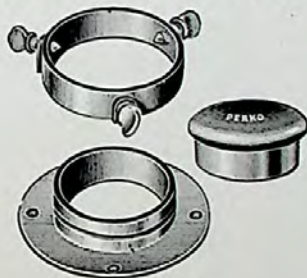


Fig. 419

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	\$ 5.00	8	7	\$14.50
4	3 1/2	7.50	9	8 1/4	17.00
5	4 1/2	9.00	10	9 1/2	24.00
6	5	11.00	12	11 1/4	29.00
7	6	12.00			

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	Polished Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	Outside Diameter Plate Inches
1	\$ 1.05	\$ 1.60	\$.55	\$.15	2 1/2
1 1/2	1.25	1.80	.65	.20	3 3/8
2	1.85	2.50	.95	.25	3 3/8
2 1/2	2.25	2.85	1.15	.25	4 1/2
3	2.75	3.45	1.40	.25	4 7/8
3 1/2	3.50	4.25	1.75	.35	5 1/2
4	4.25	5.10	2.15	.40	5 3/4
4 1/2	5.25	6.25	2.65	.45	6 3/8
5	6.25	7.50	3.15	.50	7 1/8
6	7.50	9.00	3.75	.90	8 1/4
8	19.50	22.00	9.75	1.25	10 1/4

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	Polished Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	Outside Diameter Plate Inches
3/4	\$ 1.25	\$ 1.65	\$.60	\$.15	2 5/8
1	1.35	2.00	.65	.15	2 7/8
1 1/4	1.65	2.30	.80	.20	3 1/8
1 1/2	1.90	2.65	.95	.20	3 3/4
2	2.50	3.30	1.25	.25	4 1/4
2 1/2	3.25	4.15	1.60	.25	4 5/8
3	4.25	5.25	2.10	.35	5 3/8

Larger sizes—price on application.

Deck Plate Key

CAST BRONZE
ADJUSTABLE TO ALL SIZES OF DECK PLATES

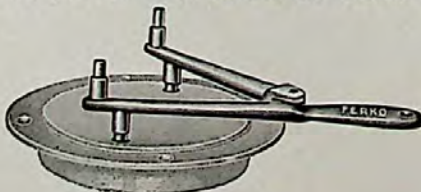


Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate.

Each	Length Overall Inches	Weight Pounds
\$1.25	8 1/2	1

Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTING
BALL TYPE—STREAMLINE

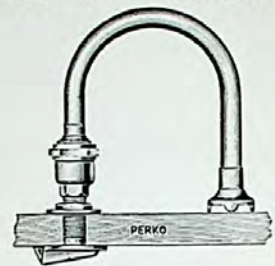


Fig. 397

Requires no attention after it is installed. Water not back up into the boat as the top of the tubing above the water line.

A sponge rubber ball is forced into a machined automatically closes the opening when the boat reverse or not in motion.

Heavy bronze strainer in inlet end.
Starts draining at 7 miles per hour.

No.	Each	Height Inside Hull Inches	Diam. Tubing Inches	For Thickness Hull Inches	Weight Pounds
1	\$ 8.25	8	3/4	up to 1 1/2	2
2	11.00	15 1/2	1 1/8	up to 2 1/4	4

Garboard Drain Plug

CAST BRONZE—PLAIN



Fig. 714

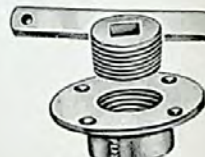


Fig. 124

A few of these installed in garboard allows drainage of boat when hauled out, by removing the plug. Threads are tapered pipe sizes and plugs watertight.

Fig.	Plain Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
714	\$1.20	1/2	2	5/8	3
124	2.00	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 chain attached, threaded 1 1/8 inches, No. 14 thread.

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches
\$3.25	\$1.15	\$1.80	1 1/4	3

Round Portlights

CAST BRONZE

NEW STYLE—IMPROVED

GLASS AREA IS SAME DIAMETER AS OPENING

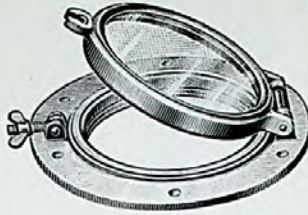


Fig. 317

Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Diam. Opening Inches	Plain Bronze Each	Polished Bronze Each	Diam. Glass in Clear Inches	Outside Diam. Frame Inches	Thickness of Glass Inches	Diameter Clear Glass Inches	Plain Each	Polished Each	Thickness Glass Inches	Outside Diam. Frame Inches	Weight Pounds
4	\$ 4.00	\$ 7.00	4	7 7/8	1/4						
5	5.00	8.50	5	8 3/4	3/8	3 3/8	\$2.75	\$3.75	3/8	5 1/4	1 3/4
6	5.75	9.50	6	9 3/4	3/8						
7	7.75	11.50	7	11	1/2	4 1/8	3.00	4.00	3/8	6 1/4	2
8	9.50	14.00	8	12 1/4	1/2						
9	13.00	17.50	9	14 3/8	1/2	5	3.75	5.00	1/2	7 1/4	3 3/8
10	15.50	22.00	10	14 7/8	1/2	6	4.50	5.75	1/2	8	3 7/8
12	23.50	33.00	12	17 1/8	1/2	8	8.25	10.25	1/2	11	9 3/8

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 AND POLISHED

COMPLETE WITH OUTSIDE FINISHING RING

GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE RECESSED FOR SCREENS

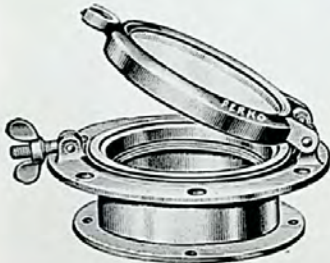
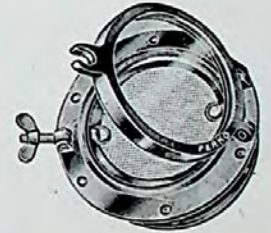


Fig. 157

Showing Screen in Place



Opening Inches	For Thickness of Wood							
	1 1/2 Inch		3 Inch		4 1/2 Inch		6 Inch	
	Plain Each	Polished Each	Plain Each	Polished Each	Plain Each	Polished Each	Plain Each	Polished Each
4	\$ 4.50	\$ 7.50	\$ 5.25	\$ 8.25	\$ 6.00	\$ 9.00	\$ 6.75	\$ 9.75
5	5.25	8.75	6.00	9.50	6.75	10.25	7.50	11.00
6	6.50	10.25	7.25	11.00	8.25	12.00	9.50	13.25
7	8.25	12.00	9.50	13.25	10.75	14.50	12.00	15.75
8	10.75	15.25	12.00	16.50	13.75	18.25	15.75	20.25
9	14.00	19.50	15.50	21.00	17.75	23.25	20.00	25.50
10	17.50	24.00	20.25	26.75	23.50	30.00	27.00	33.50
12	23.50	33.00	26.75	36.25	31.00	40.50	35.75	45.25

For 1 inch wood, use 1 1/2 inch price. For 2 or 2 1/2 inch wood use 3 inch price, etc.

Diameter frame up to 8 inch, add 3 inches. 9 to 12 inch, add 4 inches.

Without outside finishing ring, deduct from above prices the following:

	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch	12 Inch
Plain	\$.45	\$.55	\$.65	\$.80	\$ 1.00	\$ 1.50	\$ 2.00	\$ 2.50
Polished	.60	.75	.85	1.10	1.35	2.00	2.75	3.25

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Worm Geared Steerer

ALL BRONZE—WITHOUT WHEEL OR FITTINGS
 MODEL A-1—FOR WHEEL BOX MOUNTING
 FOR 1 INCH DIAMETER VERTICAL SHAFT

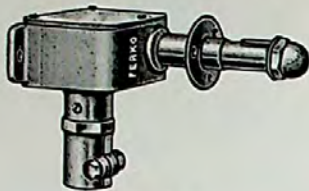


Fig. 512

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
\$22.00	1	3¾	2⅛	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

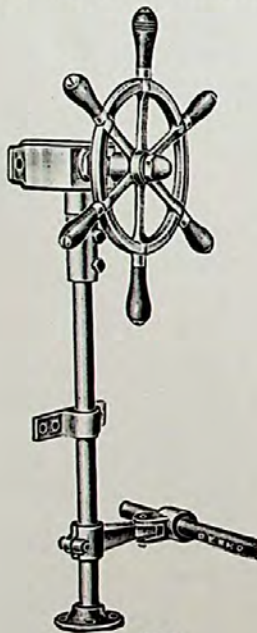


Fig. 820

	Each
Complete with 16 inch bronze wheel	\$45.00
Complete with 20 inch bronze wheel	47.50
Complete with 24 inch bronze wheel	51.50

SPARE PARTS

Bronze wheels only, see Fig. 976	
Lower lever with clevis	6.40
Bulkhead bracket	3.00
Floor plate	3.00

Chain Type Steerers

ALL BRONZE—WITH ROLLER CHAIN
 FOR WHEEL BOX MOUNTING

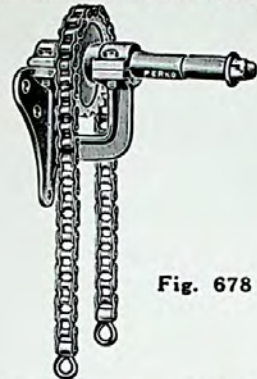


Fig. 678

Sprocket, 4¾ inch diameter, 21 teeth.

Chain, 36 inches long, ⅝ inch pitch.

Shaft machined for hub 2⅛ inches thick.

Wheel End of Shaft Inches	Each	*Length Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
¾	\$21.00	2⅞	6x5½	11
1	23.00	2⅞	6x5½	11½

*Length between bracket and wheel.

Chain only, with ends, each	\$7.50
Sprocket only, each	3.50

Wheels for above see Figs. 197, 657 and 976.

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 Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$25.00	\$28.00	⅞	1
20	31.00	34.50	⅞	1
24	36.00	40.00	1	1

Wheel, shaft and nut only are polished or plated, balance of steerer is plain bronze.

Wheel only, see fig. 976.

Chain Type Steerers WITH INLAID MAHOGANY WHEEL



Fig. 676

Diameter Wheel Inches	Each	Wheel End of Shaft Inches
20	\$46.00	$\frac{7}{8}$
24	53.00	1
28	59.00	1

Drum Steerers

GALVANIZED CAST 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	\$ 4.00	\$ 7.00	$3\frac{3}{8} \times 3\frac{3}{8}$	$2\frac{3}{8}$	3
16	5.75	11.00	4 x 4	$2\frac{3}{8}$	$3\frac{3}{8}$
20	9.50	18.50	$5\frac{1}{8} \times 5\frac{1}{8}$	$3\frac{7}{8}$	$4\frac{3}{8}$
25	20.00		$5\frac{3}{4} \times 5\frac{3}{4}$	4	6

Steering Wheels

POLISHED BRONZE—WOOD GRIPS



Fig. 976

Overall Diam. Inches	Each	For Shaft Inches	Length Hub Inches	Keyway Inches
16	\$ 8.50	$\frac{7}{8}$	1	$\frac{1}{4}$
20	11.00	$\frac{7}{8}$	1	$\frac{1}{4}$
24	14.00	1	$1\frac{1}{4}$	$\frac{1}{4}$
Long hub for Fig. 512 steerers				
16	\$10.50	1	$2\frac{1}{8}$	$\frac{1}{4}$
20	13.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
24	17.00	1	$2\frac{1}{8}$	$\frac{1}{4}$

Bronze Steering Wheels 6 ROUND SPOKES—ROUND RIM TEAKWOOD HANDLES



Fig. 197

Diam. Inches	Polished Each	Chromium Plated Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
20	\$14.50	\$19.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
24	20.00	25.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
28	26.50	33.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
32	35.00	42.00	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{1}{4}$

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	\$24.00	$\frac{7}{8}$	$2\frac{1}{8}$	$\frac{1}{4}$
20	25.00	$\frac{7}{8}$ or 1	$2\frac{1}{8}$	$\frac{1}{4}$
24	30.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
28	36.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
30	42.00	1	$2\frac{1}{8}$	$\frac{1}{4}$
36	66.60	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
42	81.50	$1\frac{1}{4}$	$2\frac{1}{2}$	$\frac{3}{8}$
48	92.50	$1\frac{3}{8}$	$2\frac{1}{2}$	$\frac{3}{8}$

With bunged rim to order, price on application.

Handles and Bolts FOR STEERING WHEELS



Fig. 553



Fig. 554

Handles Only		Galvanized Bolts Only		Bronze Bolts Only	
Length Inches	Each	Size Inches	Each	Size Inches	Each
3	\$.15	$\frac{3}{8} \times 3\frac{1}{2}$	\$.15	$\frac{3}{8} \times 3\frac{1}{4}$	\$.25
$3\frac{1}{2}$	.20	$\frac{7}{8} \times 4\frac{1}{4}$	.20	$\frac{7}{8} \times 4$	.50
4	.40	$\frac{3}{8} \times 4\frac{1}{2}$	.20	$\frac{7}{8} \times 4\frac{1}{2}$	.60

Columbian Propellers

MANGANESE BRONZE—AILSA CRAIG TYPE

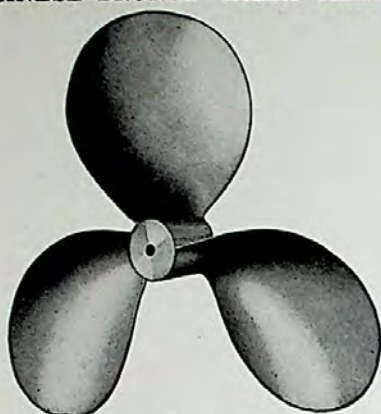


Fig. 809—1st Quality

Fig. 739—Peerless Quality

Diam. Inches	Fig. 809 3 Blade Each	Fig. 739 3 Blade Each	Boring Each	Maximum Standard Bore Inches
10	\$ 11.50	\$ 9.50	\$ 2.20	7/8
11	12.00	10.00	2.20	1
12	12.80	10.50	2.40	1 1/8
13	14.00	11.25	2.50	1 1/8
14	15.40	12.50	2.60	1 1/4
15	17.50	14.00	3.00	1 1/4
16	19.50	15.75	3.30	1 3/8
17	21.75	17.50	3.45	1 3/8
18	24.00	19.50	3.80	1 3/8
19	27.00	22.00	4.00	1 1/2
20	31.50	25.50	4.00	1 1/2
21	38.00	30.50	4.50	1 3/4
22	43.50	35.00	4.50	1 3/4
23	48.00	38.50	5.00	1 3/4
24	52.50	42.00	5.00	1 3/4
25	57.00	45.50	5.50	2
26	64.00	51.50	6.00	2
27	69.50	56.00	6.50	2
28	76.00	61.00	6.50	2
30	90.00	72.00	7.50	2 1/4
32	110.00	88.00	9.00	2 1/2
34	129.00	104.00	10.00	2 3/4
36	154.00	124.00	12.00	2 3/4
38	178.00	143.00	14.00	3
40	207.00	165.00	16.00	3
42	234.00	188.00	19.00	3 1/4
44	265.00	212.00	22.00	3 1/4
46	300.00	240.00	25.00	3 1/2
48	345.00	276.00	28.00	3 1/2
50	372.00	298.00	34.00	4

With larger hub for larger bore—on application.
2 blade and special styles—on application.

Speed Boat Rudders

CAST MANGANESE BRONZE

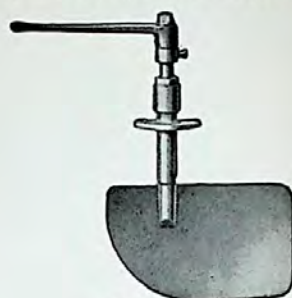


Fig. 813

Furnished complete with tiller, collar, nut and port. Standard length stock above blade 12 inches.

No.	Complete Each	Rudder Only Each	Blade Size Inches	Diam. Stock Inches
1	\$28.60	\$14.30	9x14	1
2	30.80	17.60	10x16	1
3	34.00	19.80	11x18	1 1/8
4	43.00	25.30	12x20	1 1/4

With stock longer than standard, price on application.

Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

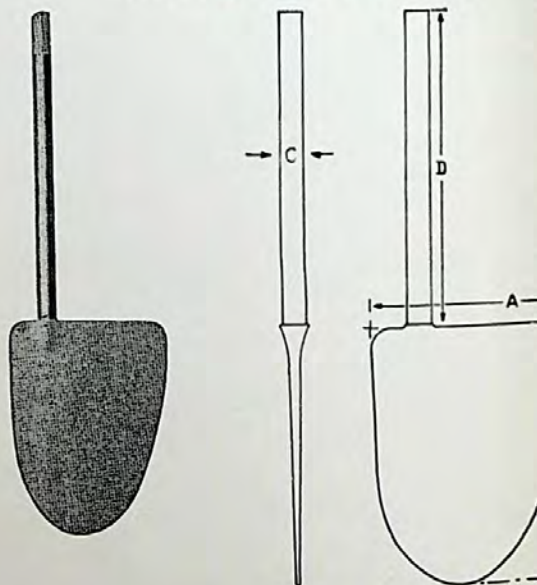


Fig. 818

Constructed in perfectly balanced proportions designed for express cruisers, runabouts, speedboats all boats not carrying a skag.

Bronze Rudder Collars



Fig. 815

For Diam. Stock Inches	Price Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
1	\$1.00	1 3/4	1/8	7
1 1/8	1.00	1 3/4	1/8	6 1/2
1 1/4	1.25	2 1/8	1/8	11
1 3/8	1.50	2 1/2	1 1/8	19
1 1/2	1.80	2 1/2	1 1/8	19

DIMENSIONS, INCHES

No.	Each	A	B	C
1	\$15.40	9	12	1
2	18.70	10 1/2	14	1 1/8
3	19.80	12	16	1 1/4
4	26.40	13 1/2	18	1 3/8
5	37.40	15	20	1 1/2
6	55.00	16 1/2	22	1 3/4
7	74.80	18	24	2
8	93.50	20	26	2 1/4

Cruiser Rudders

CAST MANGANESE BRONZE

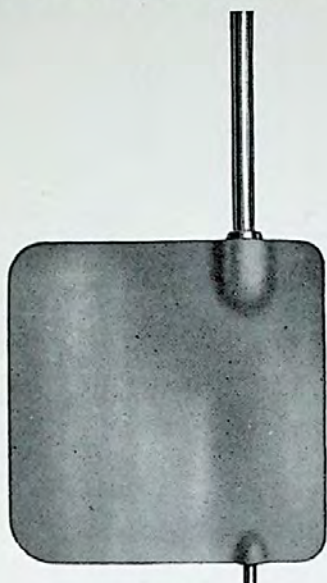


Fig. 816

Blade Size Inches	Each	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock Inches	Longer Stocks Per Inch
12x12	\$13.20	1/4	1	12	\$.15
13x13	14.30	1/4	1	12	.15
14x14	16.50	1/4	1	12	.15
15x15	19.80	1/4	1	12	.15
16x16	22.00	1/4	1	12	.15
18x16	23.10	1/4	1	12	.15
18x18	25.30	1/4	1	12	.15
20x18	28.60	1/4	1 1/4	18	.24
20x20	33.00	1/4	1 1/4	18	.24
22x18	33.00	1/4	1 1/4	18	.24
22x20	42.90	3/8	1 1/4	18	.24
22x22	44.00	3/8	1 1/4	18	.24
24x20	44.00	3/8	1 1/4	18	.24
24x22	45.10	3/8	1 1/4	18	.24
24x24	46.20	3/8	1 1/4	18	.24

Galvanized Rudders

GALVANIZED FORGED STEEL

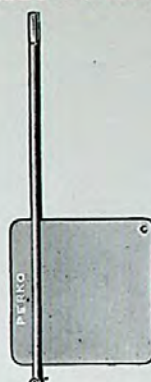


Fig. 647

Size No.	Galv. Each	Size Plate Inches	Square End of Post Inches	Length of Post Inches	Diam. of Post Inches	Weight Each Pounds
0	\$ 5.00	12x12x1/8	3/8	40	3/4	11
1	6.00	14x14x1/8	3/8	42	3/4	13
2	8.50	16x16x1/8	3/4	48	1	25
3	11.00	18x18x1/8	3/4	52	1	35

Rudder Skags

DROP FORGED STEEL AND BRONZE



Fig. 649

Size No.	Galv. Each	Plain Bronze Each	Dimensions Inches	For Rudder Post Inches	Weight Each Pounds
0	\$2.00	\$4.00	24x1 1/2 x 3/8	3/4	4 1/2
1	3.00	7.00	30x1 3/4 x 1/2	3/4	9
2	5.00	14.00	42x2 x 3/8	1	17

Straight Tillers

GALVANIZED MALLEABLE IRON AND 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	\$1.10	\$2.00	3/8 x 3/8	1
10	1.25	2.25	3/8 x 3/8	1 1/4
12	1.75	2.50	3/4 x 3/4	2 1/8
15	2.25	5.00	7/8 x 7/8	3 1/2

Quadrant Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 651

Radius Inches	Galv. Each	Plain Bronze Each	Max. Diam. of Rope Inches	Square Hole Adjustable Inches	Weight Each (Iron) Pounds
7	\$2.25	\$ 5.00	3/8	5/16 to 3/4	3
10	3.85	7.00	3/8	3/8 to 1	5 1/4
12	5.50	10.00	3/8	3/4 to 1 1/4	8 1/2
15	8.25	14.00	1/2	3/4 to 1 1/4	13
18	14.50	24.00	5/8	1 to 1 3/8	27
24	27.50	45.00	3/4	1 1/2 to 1 3/4	46

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	\$ 4.90	12	1	1/4	3 1/4
3	6.60	14	1 1/8	1/4	4 1/2
4	10.50	16	1 1/4	5/8	7

Rudder Ports with Stuffing Box

CAST BRONZE—PLAIN
WITH BRASS GREASE CUPS

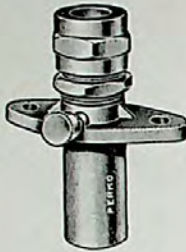


Fig. 1089

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	\$5.00	4 x 2	5 1/8	1 1/8	3
5/8	5.50	4 1/4 x 2 1/4	5 3/8	3/8	3 1/4
1	6.00	4 1/4 x 2 1/2	5 1/4	3/8	3 1/2
1 1/8	6.50	5 x 2 5/8	5 1/4	1/2	3 3/4
1 1/4	7.25	5 3/4 x 3	6 3/8	1/2	5 1/2
1 3/8	7.70	6 1/4 x 3 1/4	6 3/4	1/2	6 1/2
1 1/2	8.25	6 1/2 x 3 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
000		\$.36	1/2	2 1/4	3/4	3
00	\$.20	.42	3/8	2 3/8	3/4	4
0	.25	.48	3/4	3 1/2	7/8	6
1	.35	.60	7/8	4 1/4	7/8	7
2	.40		1	4 1/2	1	10
3	.50		1 1/4	4 3/4	1	11
4	.75		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
000		\$.30	1/2	1 1/2	3/8	2
00	\$.15	.36	5/8	2	1/2	2 1/2
0	.20	.42	3/4	2 1/2	1/2	3 1/2
1	.25	.48	7/8	3	1/2	4 1/2
2	.30		1	3	1 1/8	5
3	.40		1 1/4	3 1/4	5/8	7
4	.50		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
000		\$.30	1 7/8	1	1/8
00	\$.20	.36	1 7/8	1	1/8
0	.25	.42	2	1 1/8	1/8
1	.30	.48	2 1/8	1 3/8	1/2
2	.35		2 3/8	1 1/4	1 1/8

WIDE PLATE TYPE



Fig. 1073

Size No.	Plain Bronze Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches
000	\$.30	2 7/8	5/8	3/8
00	.36	3 3/8	3/4	1/8
0	.42	3 1/2	7/8	1/8
1	.48	3 5/8	7/8	1/2

Not made in galvanized.

SCREW TYPE

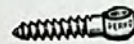


Fig. 1074

Size No.	Galv. Each	Plain Bronze Each	Diam. Shank Inches	I. D. Hole Minimum Inches
000		\$.12	1/8	3/8
00	\$.05	.12	3/8	1/8
0	.07	.18	3/8	1/8
1	.10	.25	1/2	1/8
2	.14		1/2	1 1/8

Brass Grease Cups



Fig. 961

Drawn from heavy gauge sheet brass. This of light weight yet practically indestructible.

No.	Each	Height Inches	Inside Diam. Inches	Pipe Thread Inches
1	\$.35	1 1/8	1/2	1/8
2	.40	1 3/8	3/4	1/8
3	.50	2 1/8	1 1/4	1/8



"Perko" Reverse Gear Controls

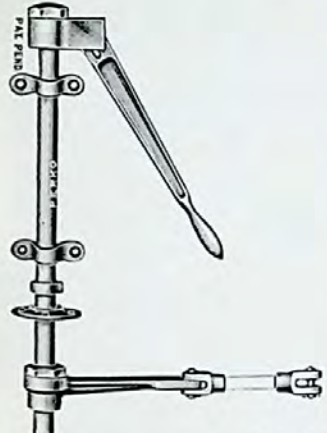
HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/8 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE

The main feature of "Perko" controls is that it is unnecessary to have shaft machined, such as threading, key seating or drilling.

A mechanically perfect wedging device is incorporated in both upper and lower lever (patent pending). When installing it is only necessary to insert tapered bushing "B" around shaft and tighten nut "A" and an absolutely fast grip on the shaft is obtained, at no extra expense for machining, and very little labor.

A simple arrangement holds the control handle horizontally and when not in use can be placed in a vertical position by a slight movement of the hand.



Interior view of tapered fastening device.

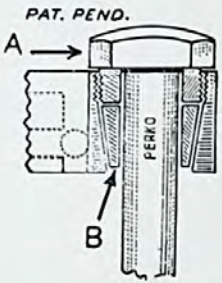


Fig. 663

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	1 1/8	2	15 1/4

Fittings complete—except shaft	\$25.00
Handle and handle housing only—each	12.00
1 inch bronze shaft—per foot	2.00
1 1/8 inch bronze shaft—per foot	2.50

Do not fail to specify size of shaft when ordering

Reverse Gear Controls

SPECIAL CAST BRONZE

A good substantial handle which will not bend under side leverage, special hard government bronze. Handle is removable and a flush plate is furnished to fit opening in deck flange.

Furnished with two sockets threaded for 3/4 inch rod. Deck flange is 5 x 2 1/4 inches. Length of throw is 8 1/2 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches
\$13.50	\$16.25	25	8



Fig. 720

"Perko" Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH SHAFT

Same tapered bushing device as Fig. 663 in upper and lower levers, no machining of shaft necessary.

Control handle is hinged so that it hangs in vertical position out of way when not in use.

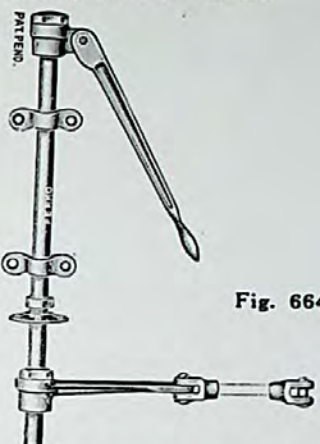


Fig. 664

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	1	2	13 1/4

Fitting complete—except shaft	\$18.50
Handle and housing only—each	9.00
1 inch bronze shaft—per foot	2.00

Clutch Control

CAST BRONZE—POLISHED

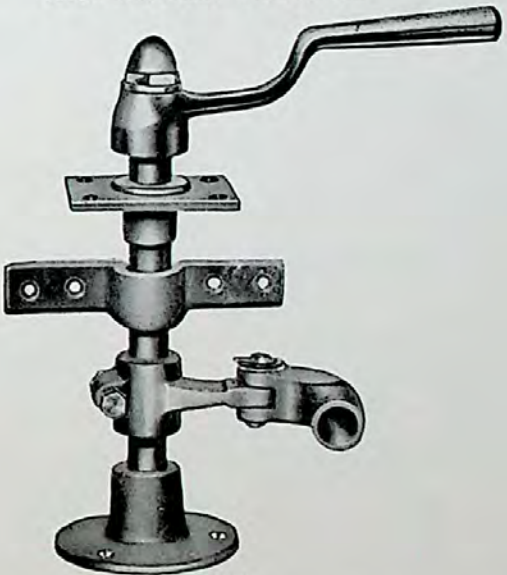


Fig. 822

Furnished as shown with choice of bulkhead bracket or shelf plate and without shaft. All fittings for 1 inch shaft. Length of handle 8 inches.

Per Set	\$15.50
With 10 inch handle, add	\$.75 each.
With 12 inch handle, add	\$1.25 each.

Above items, (Except Fig. 720) desired CHROMIUM PLATED, add 40% to Polished Bronze Price
SPARE PARTS FOR ABOVE, SEE FIG. 865

Spark and Throttle Controls

FRICITION TYPE FOR CONTROL ROD
CAST BRONZE

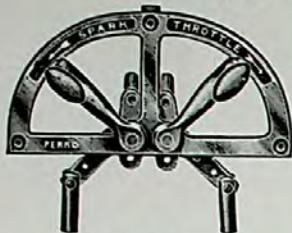


Fig. 653

All control connections are inside bulkhead, out of sight after installation. Control rod sockets are tapped for 1/4 or 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
\$5.25	\$7.75	6 1/2 x 3 1/4	1 1/4

Sockets for 1/4 inch rod furnished unless otherwise specified.

Spark and Throttle Controls

FRICITION TYPE—FOR BOWDEN WIRE

Same construction as Fig. 653 above except connections which are designed for a bowden wire and casing installation. Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

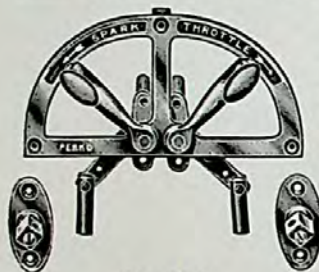


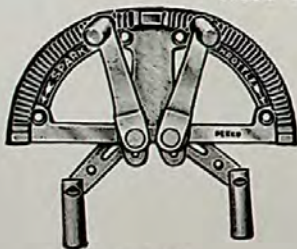
Fig. 654

For more detailed information on bowden clamp refer to Fig. 352.

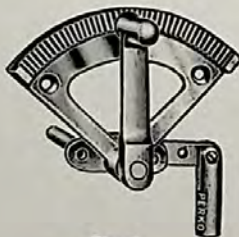
Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$6.50	\$9.00	6 1/2 x 3 1/4	1 1/2

Spark and Throttle Controls

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE



Double
Fig. 691



Single
Fig. 690

Rod connections are inside bulkhead out of sight. Can be mounted on bulkhead up to 1 1/2 inches thick. Rod sockets are for 1/4 inch rod. Furnished for 1/4 inch rod to order.

Fig.	Polished Bronze Each	Chromium Plated Each	Size Frame Inches
690	\$3.00	\$4.25	4 1/4 x 3 1/8
691	5.25	7.50	6 x 3

"Sea-Way" Throttle Control

CAST BRONZE—FOR 3/8 INCH ROD



Fig. 847

A powerful control with a man sized handle. Mounting on top of wheel box or shelf.

Has heavy leather washers between flange and socket. Tension can be increased or decreased adjusting rod socket.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	For Rod Diam. Inches	Diam. Flange Inches	Weight Pounds
\$4.00	\$4.50	4 1/2	3/8	2 1/4	1

"Sea-Prince" Throttle Control

CAST BRONZE—FOR 3/8 INCH ROD



Fig. 848

Same design and ability as the Sea-Way Control above but fitted with lever arm and socket for mounting on side of wheel box or bulkhead.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Arm Inches	Diam. Flange Inches	Weight Pounds
\$5.00	\$5.50	4 1/2	3 1/2	2 1/4	1

Throttle Controls

FOR ROD OR CONTROL WIRE
CAST BRONZE—RATCHET TYPE



Fig. 715
For Control Wire



Fig. 716
For Control Rod

A strong and very practical control for all types boats, an improved ratchet device that is almost noiseless, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all bolts and swivel fittings for control wire and casing, or rod socket for 1/4 or 5/16 inch rod.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$4.50	\$5.50	\$7.00	6	2 3/8

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING



Remote Throttle Controls

PLAIN CAST BRONZE
FOR BOWDEN WIRE

SIDE PATTERN FLOOR PATTERN

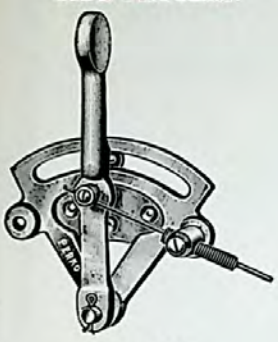


Fig. 350

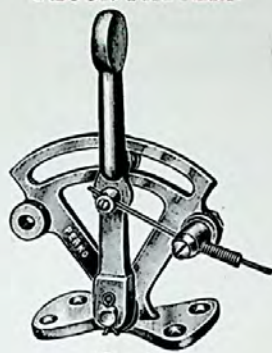


Fig. 351

Either Style Each	Size Floor Plate Inches	Width Overall Inches	Height Overall Inches	Weight Ounces
\$1.90	3x1 3/4	3 3/4	5 3/4	14

Prices do not include Bowden Wire or Casing.

Spark and Throttle Control

FOR 1/4 OR 5/16 CONTROL ROD
CAST BRONZE—RATCHET TYPE



Fig. 331

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$6.00	\$7.75	6	2 1/2

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

Dashboard Choke Controls

ALL BRASS CONTROL HANDLE



Fig. 371

WITH STEEL CASING AND WIRE

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$2.00	\$2.20	\$2.50	\$3.00

WITH BRASS CASING AND WIRE

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$2.50	\$2.90	\$3.50	\$4.50

With chromium plated handle, add \$.25 per set.

Spark and Throttle Controls

CAST BRONZE—ADJUSTABLE—FOR ROD



Fig. 904

Side Bracket



Fig. 905

Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for 1/4 or 5/8 inch rod.

Fig.		Polished Bronze Each	Chromium Plated Each
904	Complete Single	\$2.75	\$4.50
904	Complete Double	4.25	6.25
905	Complete Single	3.60	5.00
905	Complete Double	5.00	7.00
905	Brackets Only	1.10	2.00

Bowden Wire and Casing

TINNED STEEL OR BRASS
STRONG—FLEXIBLE

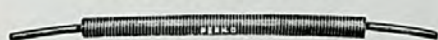


Fig. 353

Wire and casing furnished in lengths up to 100 feet each.

	Complete Per Foot	Casing Only Per Foot	Wire Only Per Foot	O. D. Casing Inches	Diam. Wire Inches
Steel	\$.10	\$.07	\$.03	1/4	.072
Brass	.20	.15	.05	1/4	.072

Control Wire Handles

ALL BRASS—WITH SPRING



Fig. 692

Control wire and casing can be easily attached. For use on a dash or bulkhead up to 2 inches thick.

Front Bulkhead Controls

FOR BOWDEN WIRE
CAST BRONZE—POLISHED

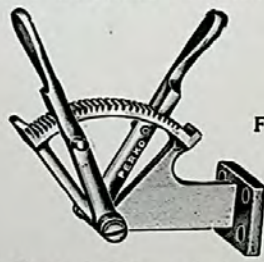


Fig. 409

For use with Control Wire and Casing.

	Polished Bronze Each	Chrom. Plated Each	Length Arc Inches	Projection Inches	Mounting Plate Inches	Weight Pounds
Single	\$2.75	\$5.50	2 3/8	5	1 7/8 x 1 3/8	3/4
Double	4.25	7.25	2 3/8	5	1 7/8 x 1 3/8	1

Polished Brass Each	Chromium Plated Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$1.50	\$1.75	4 1/2	3/8	3

Control Cranks

CAST BRONZE—PLAIN— $\frac{1}{4}$ OR $\frac{1}{8}$ INCH ROD
SIDE OR UPRIGHT TYPES

Side Type



Fig. 636

Length Arms
Inches
2

Height Overall
Inches
2 $\frac{3}{8}$

Size Base
Inches
2 $\frac{1}{4}$ x $\frac{3}{8}$

Upright Type

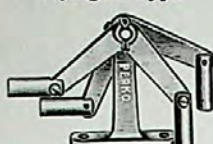


Fig. 637

Weight Single
Ounces
5

Weight Double
Ounces
7

SIDE OR UPRIGHT TYPE

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
$\frac{1}{4}$	\$1.10	\$1.75	\$.35	\$.40
$\frac{1}{8}$	1.25	2.00	.35	.40

Spare Sockets, see Fig. 328, Standard Type.

Bowden Casing Clamp

CAST BRONZE—SWIVEL TYPE—PLAIN



Fig. 352

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle.

Each	Size Base Inches	Weight Ounces
\$.60	2 $\frac{1}{4}$ x 1	3

Elbow Ball Joints

ALL BRASS—PLAIN



Fig. 792

Each	Thread Inches	Length Threads Inches	O. D. Female End Inches	Weight Ounces
\$.25	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{2}$

Male and female ends threaded U.S.S. 20 threads per inch.

Control Rod Sockets

PLAIN BRASS



Fig. 328

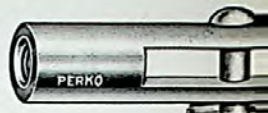


Fig. 295

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Len Ja In
1	\$.25	$\frac{1}{4}$	$\frac{3}{8}$	1 $\frac{3}{8}$	$\frac{1}{8}$	
2	.30	$\frac{5}{16}$	$\frac{7}{16}$	1 $\frac{5}{8}$	$\frac{1}{8}$	
3	.35	$\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{1}{4}$	
4	.35	$\frac{5}{16}$	$\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{1}{4}$	

Standard Fig. 328
Heavy Duty Fig. 295
Length jaws measured to center of pin.

Control Rod Sockets

EXTRA HEAVY TYPE—BRASS—PLAIN



Fig. 298

Made from $\frac{1}{2}$ inch square brass rod.

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Overall Length Inches	Between Jaws Inches	Len Ja Inch
5	\$.35	$\frac{1}{4}$	$\frac{7}{16}$	1 $\frac{1}{2}$	$\frac{1}{8}$	
6	.35	$\frac{1}{8}$	$\frac{7}{16}$	1 $\frac{1}{2}$	$\frac{1}{4}$	

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 Inches	Weight Ounces
\$.30	1	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$

Length jaws measured to center of cotter pin.

Adjustable Ball Joints

ALL BRASS—PLAIN



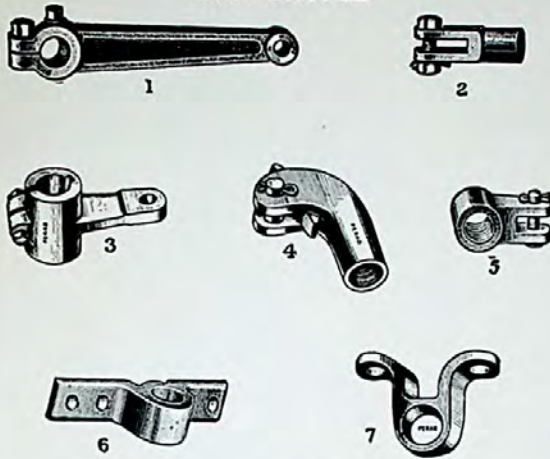
Fig. 793

Adjustable for wear, tension around ball increases by strong spring.

Each	Thread Inches	Length Threads Inches	O. D. Female End Inches	Weight Ounc
\$.40	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	1

Male and female ends threaded U.S.S. 20 threads per inch.

Steerer and Control Parts CAST BRONZE



PERKO

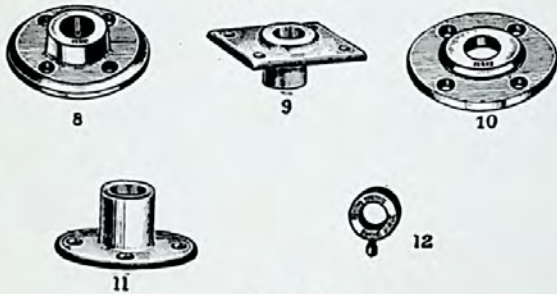


Fig. 865

No.	Plain Each	Length of Center of Holes Inches	Extreme Length Inches	For Rod Diam. Inches	Tapped For Pipe Inches	Diam. Bolt Inches	Size Jaws Inches
1	\$3.60	6	8	1		1/2	
2	2.20		2 3/4	3/4	1/2	1/2	3/16
2A	3.00		4		3/4	1/2	1/16
3	3.30	2 3/4	4 1/2	1		1/2	
4	2.50		3 1/2	1	3/4	1/2	3/16
5	2.20	1 3/4	3	1	3/4	1/2	3/16

No.	Polished Each	Length Inches	Width Inches	Outside Diam. Inches	For Rod Diam. Inches	Depth to Center of Bore Inches
6	\$2.75	7	1 1/4		1	1 1/8
7	2.75	4 1/2	1 1/4		1 or 1 1/8	2 1/8
8	2.50			3 3/4	1	
9	2.50	4	3 3/8		1	
10	2.50			4	1 or 1 1/8	
11	2.75 Plain			4 3/4	1	Height 2 1/8
12	.80			1 1/2	1 or 1 1/8	

Bronze Universal Joints CAST BRONZE—PLAIN



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$3.50	3/4	1/2	4 1/2	1
2	5.50	1	3/4	6	2 1/4

Gasoline or Oil Strainers PLAIN BRONZE—WOVEN BRASS SCREEN

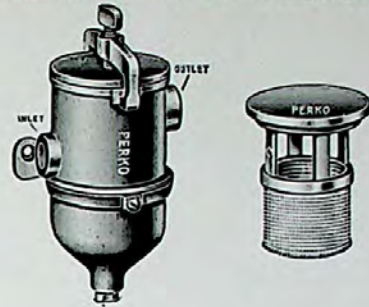


Fig. 299

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	\$ 5.50	5 1/2	2 3/8	1/4 or 3/8	3
1 1/2	7.75	6 1/4	3 1/8	3/8 or 1/2	5
2	10.00	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

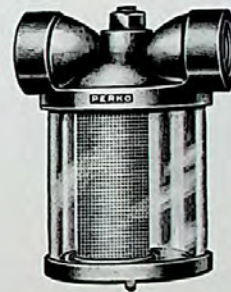


Fig. 493

A durable water strainer, to be located between the inlet connection and the water pump on the engine.

A double core of bronze screen cloth prevents sand and dirt from entering the pump and water jacket.

A special heat resisting boro silicate glass cylinder makes it possible to observe conditions at all times.

May be taken apart readily for cleaning.

No.	Complete Each	Glass Only Each	Gaskets Only Per Set	Pipe Size Inches	Extreme Height Inches	Extreme Width Inches
1	\$12.00	\$2.50	\$.35	1/2	5 1/4	3 3/8
2	12.00	2.50	.35	3/4	5 1/4	3 3/8
3	20.50	3.00	.45	1	7 1/2	5 1/4
4	20.50	3.00	.45	1 1/4	7 1/2	5 1/4
5	29.00	4.50	.65	1 1/2	10	7 1/2

Furnished with unbreakable Lucite Cylinders to order, price on application.

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
3/8	\$2.20	3 7/8 x 1 3/4	1/8	2 3/8	2 1/8	1 1/8
3/4	2.35	4 x 1 3/4	3/8	2 5/8	2 1/8	1 1/8
7/8	2.50	4 1/8 x 1 7/8	1/4	3	2 5/8	1 1/2
1	2.75	4 1/4 x 2 1/8	1/4	3	2 5/8	1 3/4
1 1/8	3.00	4 7/8 x 2 1/8	1/2	3 5/8	2 7/8	2 1/4
1 1/4	3.50	5 3/4 x 2 3/8	1/2	4 1/8	2 7/8	3
1 3/8	4.00	6 1/4 x 3	1/2	4 3/4	3	3 1/4
1 1/2	4.50	6 1/2 x 3	1/2	5	3	3 1/2
1 3/4	7.50	7 x 3 3/4	3/8	5 1/2	4	5 3/4

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	\$1.20	3 7/8 x 1 3/4	1/8	2 3/8	2 1/8	3/4
3/4	1.35	4 x 1 3/4	3/8	2 5/8	2 1/8	3/4
7/8	1.50	4 1/8 x 1 7/8	1/4	3	2 5/8	1
1	1.65	4 1/4 x 2 1/8	1/4	3	2 5/8	1 1/4
1 1/8	2.00	4 7/8 x 2 1/8	1/2	3 5/8	2 5/8	1 1/2
1 1/4	2.50	5 3/4 x 2 3/8	1/2	4 1/8	2 5/8	2
1 3/8	3.00	6 1/4 x 3	1/2	4 3/4	3	2 1/4
1 1/2	3.25	6 1/2 x 3	1/2	5	3	2 1/2
1 3/4	4.75	7 x 3 3/4	3/8	5 1/2	4	3 3/4

Stuffing Boxes and Stern Bearing
THREADED FOR PIPE—CAST BRONZE



Fig. 711



Fig. 712

Size Shaft Inches	Stuffing Box Each	Stern Bearing Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
3/4	\$2.50	\$1.75	4 x 2 1/8	1/4	3	2 5/8	1 1/4
7/8	2.75	2.00	4 3/4 x 2 1/8	1/4	3	2 5/8	1 1/2
1	3.00	2.25	4 3/4 x 2 1/8	1/4	3	2 5/8	1 1/2
1 1/8	3.50	2.50	5 3/4 x 3	1/2	3 5/8	2 5/8	2
1 1/4	4.00	2.75	6 x 3	1/2	4 1/8	2 5/8	2
1 3/8	5.00	3.50	6 1/2 x 3 3/8	1/2	4 3/4	3	2 1/4
1 1/2	5.50	4.25	6 3/4 x 3 3/4	1/2	5	3	2 1/2

Stuffing Boxes
CAST BRONZE—HEAVY



Fig. 631

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1	\$4.50	5 3/4 x 3	1/2	4 5/8	4 1/2	4 1/2
1 1/8	5.00	6 3/8 x 3 1/4	1/2	5 1/4	4 1/2	5
1 1/4	6.00	7 x 3 1/2	5/8	5 5/8	4 3/4	6 1/2
1 3/8	7.00	7 5/8 x 3 3/4	5/8	6 1/4	5 1/4	7 1/2
1 1/2	8.50	8 x 4	5/8	6 1/2	5 3/8	9
1 3/4	11.50	9 1/8 x 4	3/4	7 1/2	7	11 1/2
2	14.50	10 1/8 x 4 1/2	3/4	8 5/8	7 5/8	12

Stern Bearings
CAST BRONZE—HEAVY



Fig. 632

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1	\$3.00	5 3/4 x 3	1/2	4 5/8	4 1/2	2 1/2
1 1/8	3.25	6 3/8 x 3 1/4	1/2	5 1/4	4 1/2	3 3/4
1 1/4	3.75	7 x 3 1/2	5/8	5 5/8	4 3/4	4 3/4
1 3/8	4.50	7 5/8 x 3 3/4	5/8	6 1/4	5 1/4	6
1 1/2	5.50	8 x 4	5/8	6 1/2	5 3/8	7 1/4
1 3/4	8.00	9 1/8 x 4	3/4	7 1/2	7	9
2	10.75	10 1/8 x 4 1/2	3/4	8 5/8	7 5/8	10 1/2

NOTE—LENGTH BEARING SHOWN DOES NOT INCLUDE PACKING NUT OR SPACE FOR PACKING.

Extra Heavy Stuffing Boxes

RECTANGULAR FLANGE—CAST BRONZE



Fig. 819

Shaft Size Inches	Each	Size Flange Inches	For Diam. Shaft Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
1	\$5.25	5 x 3	1/2	3 3/4 x 1 3/4	4	5 1/2
1 1/8	5.75	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	6.75	5 3/8 x 3 3/8	1/2	4 3/8 x 2 1/4	4 3/4	7
1 3/8	8.00	6 x 4	1/2	4 7/8 x 2 1/2	5	9
1 1/2	10.00	6 x 4 3/8	1/2	4 1/2 x 3	5 1/2	10
1 3/4	12.50	6 1/2 x 4 1/2	3/8	5 1/8 x 3 1/4	7	13 1/2
2	16.00	7 3/4 x 5	3/8	5 7/8 x 3 3/8	7 3/8	15 1/2

Extra Heavy Stern Bearings

RECTANGULAR FLANGE—CAST BRONZE



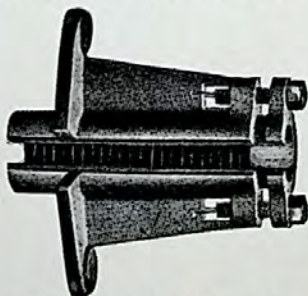
Fig. 906

All other dimensions same as fig. 819 above.

For Diam. Shaft Inches	Plain Each	Weight Pounds
1	\$ 3.50	4
1 1/8	4.00	5
1 1/4	4.50	5 1/2
1 3/8	5.50	6 3/4
1 1/2	6.50	8
1 3/4	9.00	10 1/2
2	11.75	12

Flax Packed Stuffing Boxes and Stern Bearings

WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE—Fig. 811
OVAL FLANGE—Fig. 821

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$ 8.80	5 1/4 x 2 5/8	5 1/4
1 1/8	9.35	6 x 3	5 3/4
1 1/4	10.00	6 3/8 x 3 1/8	6 1/4
1 3/8	11.00	7 1/4 x 3 3/8	6 3/4
1 1/2	15.50	8 x 4	7 3/4
1 3/4	22.00	9 1/4 x 4 5/8	9
2	27.50	10 1/2 x 5 1/4	9 1/2
2 1/4	35.00	12 x 6	11 1/8
2 1/2	48.00	13 1/4 x 6 5/8	12 1/4
3	79.00	16 x 8	15
3 1/2	112.00	18 1/2 x 9 1/4	17

Self Aligning Stuffing Boxes

CAST BRONZE—RECTANGULAR FLANGE

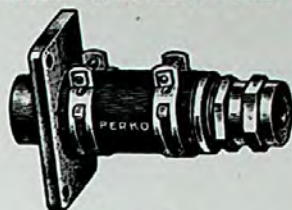


Fig. 734

Rubber mounted motors are in common use, so why not a good, strong, practical rubber mounted stuffing box.

Our self-aligning shaft log Fig. 671 is very popular, but this stuffing box does the trick where a wood log is used.

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

No	Price Each	For Size Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$ 8.25	3/4-7/8-1	5 x 3 1/4	6 3/4
2	12.00	1 1/8-1 1/4	6 x 4 1/4	7 3/4
3	14.50	1 3/8-1 1/2	7 x 4 1/2	8 3/4

Supplied without bolt holes drilled.

Adjustable Struts

ALL CAST BRONZE
MARINE BABBITT BEARING

Side View

End View

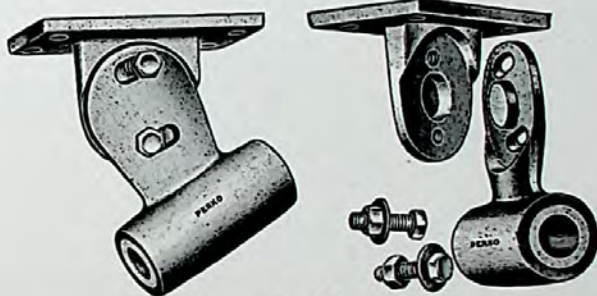


Fig. 628

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.

Supplied without bolt holes drilled.

Lgth. Drop In.	Size Shaft Inches				1 1/4	1 1/2	1 3/4	2
	3/4	7/8	1	1 1/8				
5	\$ 9.75	\$ 9.75	\$ 9.75	\$ 9.75				
6	10.00	10.00	10.00	10.00	\$13.75	\$15.75	\$15.75	
7	10.25	10.25	10.25	10.25	14.00	16.00	16.00	
8	10.50	10.50	10.50	10.50	14.25	16.50	16.50	
9	11.00	11.00	11.00	11.00	14.50	17.00	17.00	
10	11.50	11.50	11.50	11.50	14.75	17.25	17.25	
11	12.00	12.00	12.00	12.00	15.50	17.50	17.50	
12				13.00	16.00	18.00	18.00	

Specify Size Shaft and Length of Drop, When Ordering



New 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.

Base is sufficiently wide for watertight installation with gasket.

Furnished without screw or bolt holes to allow drilling as required.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt. Lbs.
0	\$6.00	5/8	8x4	9	14	3
1	9.50	3/4	10x5	11 1/4	14	5 1/2
2	9.50	7/8	10x5	11 1/4	14	5 1/2
3	9.50	1	10x5	11 1/4	14	5 1/2

New Adjustable Shaft Logs

CAST BRONZE



Fig. 577

Cast Bronze Ball and Socket arrangement gives ample adjustment in all directions, very easy to install. Construction is strong to stand hard usage.

Normal operating angle is 16 degrees.

Range of adjustment between 12 and 25 degrees.

Nos. 1 to 5 are drilled and countersunk for 1/4 inch bolts.

Nos. 6 and 7 are drilled and countersunk for 5/16 inch bolts.

Furnished complete as illustrated with grease cups. Flange bolts are locked with set screws.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$13.25	3/4	17 3/4	14	3 3/8	11
2	13.25	7/8	17 3/4	14	3 3/8	11
3	13.25	1	17 3/4	14	3 3/8	11
4	22.00	1 1/8	25	20	4 1/2	21
5	22.00	1 1/4	25	20	4 1/2	21
6	34.50	1 3/8	28 1/2	23	5 1/4	28
7	34.50	1 1/2	28 1/2	23	5 1/4	28

Adjustable Shaft Logs

ALL CAST BRONZE—EXTRA HEAVY



Fig. 627

Furnished complete with grease cup and rubber gasket for installing.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
1	\$16.75	3/4	16	3 1/2	14
2	16.75	7/8	16	3 1/2	14
3	16.75	1	16	3 1/2	14
4	25.00	1 1/8	22	4 1/4	19
5	25.00	1 1/4	22	4 1/4	19
6	38.00	1 3/8	26	5	30
7	38.00	1 1/2	26	5	30
8	50.00	1 3/4	28	5 1/2	57
9	50.00	2	28	5 1/2	57

Self Aligning Shaft 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	10.00	7/8	12x3 1/2	18	11	7
3	10.00	1	12x3 1/2	18	11	7
4	15.50	1 1/8	17x4 1/4	23 1/2	11	12
5	15.50	1 1/4	17x4 1/4	23 1/2	11	12
6	22.00	1 3/8	19x5	28	11	20
7	22.00	1 1/2	19x5	28	11	20

Note--Furnished without Screw or Bolt Holes unless specified.

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX



Fig. 672

Fig. 1092

Fig. 673

For Log No.	Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
0	\$2.00	\$.45	\$.50	1 1/4	1 3/4	3 1/4
1	4.00	.65	.70	1 3/4	2 3/8	4
2	4.00	.65	.70	1 3/4	2 3/8	4
3	4.00	.65	.70	1 3/4	2 3/8	4
4	5.00	1.00	1.50	2 3/8	3	5
5	5.00	1.00	1.50	2 3/8	3	5
6	7.75	1.65	1.90	2 5/8	3 1/2	5
7	7.75	1.65	1.90	2 5/8	3 1/2	5

For size of shaft, refer to equivalent size of shaft logs Figs. 589 and 671.

Thrust Ball Bearings

Flat Race
Bronze Retainers



Fig. 786

Shaft Inches Diameter	Fig. 786 Each	Fig. 942 Each
5/8	\$1.10	\$1.00
3/4	1.20	1.10
7/8	1.25	1.15
1	1.30	1.25
1 1/8	1.45	1.35
1 1/4	1.55	1.40
1 3/8	1.90	1.75
1 1/2	2.00	1.85
1 5/8	2.50	2.20
1 3/4	2.75	2.20
2	3.20	2.85
2 1/4	3.60	3.10
2 1/2	4.50	3.60

Grooved Race
Steel Retainers

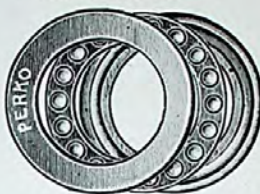


Fig. 942

Diameter Inches Outside	Thickness Inches
1 1/8	1 1/8
1 1/4	1 1/4
1 1/2	1 1/2
1 3/4	1 3/4
2	2
2 1/4	2 1/4
2 1/2	2 1/2
2 3/4	2 3/4
3	3
3 1/4	3 1/4
3 1/2	3 1/2
3 3/4	3 3/4
4	4

Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Fig. 787

Shaft Size Inches	Each	Outside Diameter Inches	Width Inches
5/8	\$.40	1 1/8	1 1/8
3/4	.45	1 1/4	3/4
7/8	.45	1 1/2	1 1/8
1	.55	1 3/4	3/8
1 1/8	.60	2	1
1 1/4	.70	2 1/8	1 1/8
1 3/8	.75	2 1/4	1 1/4
1 1/2	.80	2 3/8	1 1/2
1 3/4	1.30	3	1 3/4
2	1.50	3 3/8	1 3/8

Thrust Ball Bearings

GROOVED RACES
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Price Each	Outside Diam. Inches
5/8	\$1.10	1 1/8
3/4	1.20	1 1/4
7/8	1.25	1 1/2
1	1.35	1 3/4
1 1/8	1.45	2
1 1/4	1.60	2 1/4
1 3/8	1.90	2 1/2
1 1/2	2.05	2 3/4
1 5/8	2.60	3
1 3/4	2.80	3 1/4
2	3.30	3 1/2
2 1/4	3.60	3 3/4
2 1/2	4.50	4

Shaft Couplings

CAST IRON

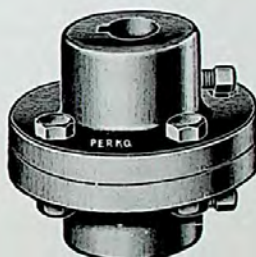


Fig. 327

No.	Each	Size Shaft Inches	Diam. Flange Inches	Length Overall Inches
1	\$3.75	3/4-7/8-1	4	3 1/2
2	4.50	3/4 to 1 1/2	4 1/2	4 1/8
3	5.75	1 1/8 to 1 1/2	5	4 3/4
14	8.75	1 to 2	6	6 1/2

Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Each	Size of Base Inches	C. to C. Bolt Holes Inches
3/4	\$1.30	2 x 5 1/4	4
7/8	1.40	2 3/4 x 5 3/8	4
1	1.40	2 3/4 x 5 3/8	4 1/8
1 1/8	1.80	3 3/8 x 6	4 3/4
1 1/4	1.80	3 3/8 x 6	4 3/4
1 3/8	2.25	3 7/8 x 7	5 1/2
1 1/2	2.25	3 7/8 x 7	5 1/2
1 3/4	3.00	4 1/2 x 7 1/4	5 3/4
2	4.00	4 3/4 x 7 1/2	6 1/8

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Size Keyway Inches
3/4-7/8	1/8
1-1 1/8	1/4
1 1/4	1/4
1 3/8-1 1/2	3/8
1 3/8-1 3/4	1/2
1 3/8-2	1/2

For divided sizes such as 1 x 1 1/8, etc., add \$.50 each.
For special boring, not listed, add \$1.00 each.
For 1/2 coupling add \$.25 to half of above prices. No bolts furnished.

Maxim Silencers
WET TYPE—MODEL M3
CAST IRON



Fig. 334

For Exhaust Pipe Inches	*Fig. 334 Each	**Fig. 334-A Each	***Fig. 334-B Each	Diameter Inches	Length Overall Inches
1½	\$ 12.75	\$ 11.50	\$ 10.00	4¾	9¾
2	15.50	13.75	12.00	6¼	11
2½	21.00	18.50	16.00	7 1/8	12¾
3	26.00	23.00	20.00	9 1/8	13½
3½	35.00	32.00	29.00	11	14¾
4	39.00	36.00	33.00	12¾	15¾
5	104.00	95.00	86.00	14	23
6	149.00	138.00	127.00	14 1/8	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

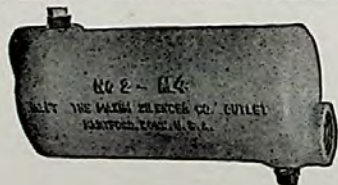


Fig. 755

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	\$5.00	3¼	7¾	4
¾	6.00	3½	8¼	5
1	7.00	3¾	9	6
1¼	8.00	4¼	9½	10

Exhaust Pipe Flanges
CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2¾	4½	13 oz
2½	2 7/8	5¼	1 lb.
3	3½	6¼	1 ½
3½	4	6 7/8	1 ½
Size	Plain Bronze Each	Polished Bronze Each	Chrome Plated Each
2	\$1.00	\$1.75	\$2.25
2½	1.00	1.75	2.25
3	1.50	2.25	2.85
3½	1.50	2.25	2.85

Exhaust Tube Flanges
CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 1/8	4	11 oz
2½	2 1/4	4¾	14 oz
3	3 1/8	5	1 lb.
3½	3 1/4	5½	1 ½
4	4 1/8	6	1 ½
Size	Plain Bronze Each	Polished Bronze Each	Chrome Plated Each
2	\$.90	\$1.65	\$2.15
2½	1.00	1.75	2.25
3	1.00	1.75	2.25
3½	1.40	2.15	2.75
4	1.45	2.20	2.80

Gy-A-Liner Engine Aligners
CAST IRON—PAINTED
Patent No. 2123484

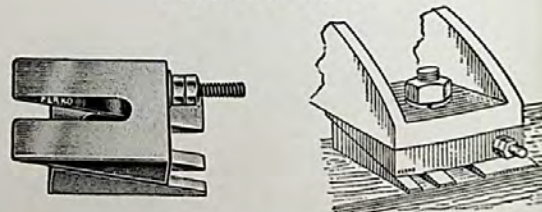


Fig. 1097

Consists of two cast iron wedges adjusted by a standardized 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 Adjustment Inches	Weight Pounds
\$1.10	2½x2½	½	¾	1	

Paint Scraper Set

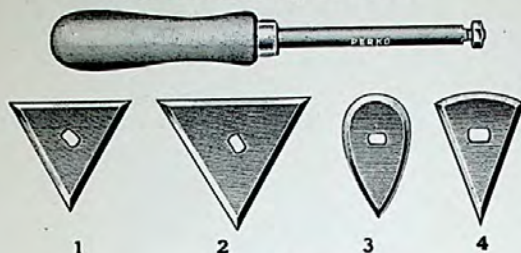


Fig. 1015

Per Set—\$1.50

Set consists of handle with 4 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2½x2½ inches.

No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval—2½x1½ inches.

No. 4 Blade, Curved Top, Triangle—2½x1½ inches.

Length Handle—8½ inches.

Paint Scrapers



Triangular
Figs. 625 and 626

Oval
Fig. 918

Fig.	Complete Per Doz.	Blades Only Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Pounds
625	\$ 6.60	\$3.00	2½x2½	6	2½
626	10.80	3.60	3 x 3	9½	5
918	6.60	3.80	2½x1½	6	2¾

Ship Scrapers

TEMPERED STEEL BLADES



Fig. 920

Each	Blades Only Each	Handles Only Each	Size Blade Inches	Length Inches
\$1.70	\$.75	\$1.00	4½x1½	17

Genuine File Scrapers

FROM FLAT MILL FILES



Fig. 1174

Made from 14 inch and 16 inch used files, no selection of length. Carefully heat treated.

Per Dozen	Approx. Width Inches	Approx. Thickness Inches	Approx. Width Blade Inches	Approx. Weight Per Dozen Pounds
\$11.00	1¼	⅜	1¾	17

Double End Scrapers

FINE GRADE TOOL STEEL
HEAT TREATED



Fig. 1175

Per Dozen	Length Inches	Width Inches	Thick-ness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$6.80	15	1	¼	1¾	13

Marlin Spikes

POLISHED STEEL
FOR WIRE ROPE



Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$20.50	6
10	26.00	10
12	32.00	12¾
14	37.00	16½
16	43.00	25
18	49.00	30

FOR MANILA ROPE



Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$ 8.00	5¾
8	9.25	7½
10	10.50	12
12	12.00	17
14	16.00	23½
16	19.50	27
18	23.50	34¾

Hand Fids

MAPLE



Fig. 923

For use in splicing ropes and light flexible cables; has a rounded end for hand use; varnished finish.

No.	Per Dozen	Size Inches
0	\$ 6.00	12x1¾
1	7.00	14x1¾
2	8.00	16x2
3	9.00	18x2
4	18.00	20x2½
5	24.00	24x3

Caulking Irons

MALLEABLE IRON



Fig. 311

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Doz. in Lbs.
00	\$7.00	1/32	5	2	3½
0	7.00	1/16	5½	2½	4½
1	7.25	1/8	5¾	2¾	5¼

Wrought Brass Fog Bells
STAMPED FROM BELL METAL



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.

Fig. 159

Diam. Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each
6	\$1.55	\$1.70	\$3.60
8	2.65	2.90	4.80
Wall Plates only	.35	.40	.70
Arms only	.70	.80	1.20

Cast Fog Bell
MEDIUM WEIGHT—WITH YOKE



Fig. 386

Diam. Inches	Polished Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$ 7.75	\$10.25	7 1/4	4
8	12.50	16.00	9	9

Cast Bronze Fog Bells

LIGHTWEIGHT



Cast from bell metal. With removable bracket.

Diameter 6 in. 8 in.
Hgt. overall 4 1/2 in. 5 1/4 in.
Extension 6 1/2 in. 8 1/2 in.
Weight 1 1/2 lbs. 4 1/2 lbs.

Fig. 581

Diam. Inches	Polished Each	Chromium Plated Each
6	\$4.25	\$7.00
8	6.60	9.50

MEDIUM WEIGHT



Cast from high grade bell metal. Highly polished detachable bracket.

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.

Fig. 420

Diam. Inches	Polished Each	Chromium Plated Each
6	\$ 7.00	\$ 9.50
8	11.75	14.50

HEAVY WEIGHT



Cast from extra heavy bell metal. Complete with removable bracket.

Fig. 150

Bottom Diam. Inches	Polished Each	Chromium Plated Each	Height Inches	Projection Inches	Weight Pounds
8	\$17.50	\$21.50	8	9	10
10	32.50	37.50	10 1/2	12	19
12	48.00	55.00	12	13	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	\$11.00	\$16.50
20	With Bell, as illustrated	13.00	18.50
24	With Bell, as illustrated	15.50	20.00

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 Doz. Pounds
\$8.40	5 3/4	1 1/8	12	2 1/4

Police or Signal Whistle

POLISHED BRASS OR BAKELITE



Fig. 349

	Per Dozen	Length Inches	Width Inches	Weight Per Doz. Ounce
Pol. Brass	\$4.80	2	3/4	17
Bakelite	4.20	2	3/4	9



Watertight Electric Horns

VIBRATORY TYPE—GRAY FINISH
STANDARD VOLTAGES 6, 12 OR 32

Mechanism is entirely enclosed in die cast "Zamac" zinc housing which is properly gasketed.

Tapped top and bottom for 1/2 inch conduit can be supplied for all voltages up to 250 D. C. or A. C. to order.

GRILL FRONT TYPE



Fig. 998

Each	Mounting Diameter Inches	Depth Inches	Weight Pounds
\$12.00	6	4 3/8	3 3/4

Specify voltage when ordering.

PROJECTOR TYPE

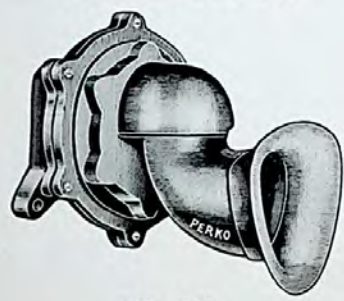


Fig. 999

Projector can be rotated through 180 degrees to direct sound as required.

Each	Mounting Diameter Inches	Projection Inches	Weight Pounds
\$17.00	6	8 1/2	5

Specify voltage when ordering.

Heavy Duty Marine Siren

6, 12 OR 32 VOLTS
THE YACHTSMAN



Fig. 1118

Volts	Chromium Plated Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$58.00	13 1/2	7 1/2	5 3/4	10

For 12 or 32 Volts Add \$4.00 Each

Brass Electric Horns

VIBRATORY TYPE—6, 12 OR 32 VOLTS
POLISHED OR CHROMIUM PLATED
COAST GUARD MODEL

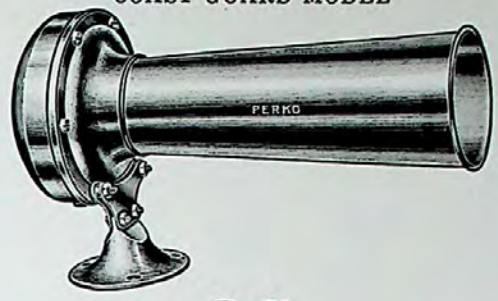


Fig. 75

Complete with button, cable, mounting bolts, screws etc.
Internal steel parts treated against corrosion.

No.	6 Volt		Length Overall Inches	Height Overall Inches	Diam. Base Inches
	Polished Brass Each	Chromium Plated Each			
1	\$15.00	\$17.50	13	7 1/4	3 7/8
2	22.50	25.00	15 3/4	8 1/2	3 7/8

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

Size No. 2 meets U. S. Coast Guard specification No. CR—23075.

Marine Sirens

DIE CAST WHITE METAL—BLACK FINISH
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	\$21.00	7 3/4	5 3/4	4 3/8	5 1/4
12	23.50	7 3/4	5 3/4	4 5/8	5 1/2
32	25.00	7 3/4	5 3/4	4 5/8	5 1/2

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.

Boat Cleats

GALVANIZED IRON—CAST BRONZE
OPEN BASE



Fig. 544

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each
3½	\$.10	\$.08	\$.45	\$.70
4	.12	.10	.55	.80
5	.15	.12	.60	.90
6	.20	.16	.80	1.10
8	.40	.35	1.20	1.55
10	.60	.55	1.75	2.50
12	.90	.80	2.65	3.50

Cast iron cleats supplied unless otherwise specified.

Ship Cleats

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Pounds
8	\$.80	4¼ x 2 ⅜	⅜	3
10	1.20	4¾ x 2½	½	5
12	2.00	6⅞ x 3	⅝	10
15	3.00	7¼ x 3½	¾	14
18	4.00	7½ x 4	¾	20
24	6.50	8½ x 4 ⅝	⅞	35
30	12.50	10¾ x 5½	1	73
36	20.00	13 x 7¼	1¼	117

Hollow Cleats

CAST BRONZE—CLOSED ENDS



Fig. 572

Length Inches	Polished Bronze Each	Chromium Plated Each	Weight
4½	\$1.10	\$1.40	8 oz.
5½	1.40	1.70	9 oz.
6½	1.50	1.80	10 oz.
8	1.75	2.25	20 oz.
10	2.50	3.25	2 lbs.
12	4.00	4.75	3 lbs.

Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

Length Inches	Galvanized Iron Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Width Inches	For Diameter of Rope Inches
3	\$.35	\$ 1.30	\$ 2.00	⅝	¼
4	.40	1.50	2.40	¾	½
5	.50	2.00	3.10	⅞	¾
6	1.00	3.00	4.20	1 ⅛	¾
8	1.60	4.00	5.30	1¼	1
10	2.40	7.00	8.50	1¾	1¼
12	5.00	11.50	14.00	3	1½
15	10.00			3½	1¾

Improved Cleats

CAST BRONZE—HEAVY DUTY



Fig. 384

Length Inches	Polished Bronze Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$.95	\$1.50	¼	½
5	1.25	1.80	⅜	¾
6	1.65	2.20	⅞	1
8	3.00	3.70	1 ⅛	1¾

Straight Stern Chocks

GALVANIZED AND CAST BRONZE



Fig. 119

Length Inches	Galvanized Iron Each	Polished Bronze Each	Chromium Plated Each	Width Inches	For Diameter of Rope Inches
4	\$.20	\$.75	\$1.20	⅞	½
5	.30	1.00	1.55	1	⅝
6	.50	1.50	2.10	1¼	¾
8	1.00	2.25	2.90	1⅝	1
10	1.20	3.75	4.50	1⅞	1¼
12	2.50	6.00	7.25	2⅝	1⅝
15	5.50			3⅝	1¾
18	7.50			3½	2

Fender Cleats

DROP FORGED BRONZE



Fig. 583

Length Inches	Polished Each	Chromium Plated Each	Size Base Inches	Weight Ounces
2¼	\$.30	\$.55	1 ⅜ x 1	1½

Skene Bulwark Bow Chocks

CAST BRONZE



Fig. 751

	Plain Bronze Pair	Pol. Bronze Pair	Chrom. Plated Pair	For Diam. Rope Up to Inches	Thick- ness of Rail Inches	Height Inches	Wt. Pair Lbs.
	\$3.50	\$5.25	\$7.75	1	1 1/4	2 1/4	2 3/4
	5.50	7.50	10.00	1 1/4	1 1/2	2 3/4	4 1/4

Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Length Inches	Width Inches	Opening Inches	Weight Per Pair Pounds
1	4 1/2	7/8	3/4	3/4
2	5 1/2	1 1/8	1	1 1/2
3	7 3/4	1 1/2	1 1/4	3 3/4
4	8 1/2	1 3/8	1 1/2	5
5	10 1/2	2	2	6

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair
1	\$ 2.00	\$ 3.00
2	3.00	4.00
3	5.00	6.25
4	7.00	8.50
5	10.50	12.50

Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	For Diam. Rope Up to Inches	Thick- ness of Rail Inches	Height Inches	Wt. Each Lbs.
	\$3.00	\$4.00	\$5.25	1 1/4	1 1/2	2 3/4	2

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	4	7/8	3/8	1/2
12	5 1/2	1 3/8	1	1
13	7	1 3/4	1 1/2	2
14	9	2 1/4	2	4

Size No.	Polished Bronze Each	Chromium Plated Each
11	\$.90	\$1.40
12	1.50	2.00
13	3.00	3.65
14	6.50	7.50

Bulwark Bow Chocks

CAST BRONZE—POLISHED

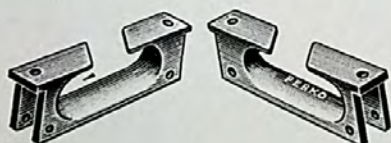


Fig. 768

This pair of chocks is beveled to fit bow angles. The openings are sufficiently large for mooring ropes. Designed to be bolted both through the bulwark and the deck.

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$8.50	\$10.50	10	1	1 7/8	1
2	10.00	13.50	11 1/4	1 1/4	2 1/4	1 1/4
3	13.50	17.00	11 1/4	1 1/2	2 1/2	1 1/2

Bulwark Stern Chocks

CAST BRONZE—POLISHED



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$5.00	\$6.00	9 1/4	1 3/8	2 3/8	1 1/2
2	7.25	9.00	11 1/2	1 3/4	3	1 3/4

Upright Flag Pole Socket

ROUND BASE—WITH FERRULE
CAST BRONZE



Fig. 220

Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$1.00	\$1.30	2 1/8	1 3/4	7
1	1.35	1.70	2 1/2	2	8 1/2
1 1/4	1.75	2.15	2 3/4	2 1/8	11
1 1/2	2.25	2.75	3	3	16



Fig. 221

Upright Flag Pole Socket

SQUARE BASE—NO FERRULE
GALVANIZED CAST IRON



Fig. 570

Inside Diam. Inches	Galv. Each	Height Inches	Size Base Inches	Weight Each
3/4	\$.30	1 3/4	2 x 2	5 1/2 oz.
1	.40	2 1/4	2 1/4 x 2 1/4	11 1/2 oz.
1 1/4	.65	2 3/4	2 3/4 x 2 3/4	13 oz.
1 1/2	.90	3 1/2	3 x 3	1 1/2 lbs.



Fig. 571

Flush Flag Pole Socket

WITH FERRULE
GALVANIZED CAST IRON—CAST BRONZE



Fig. 218

Inside Diam. Inches	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Diam. Flange Inches	Depth Socket Inches	Weight Ounces
3/4	\$.25	\$.75	\$1.05	2	1 1/2	4 1/2
1	.30	.90	1.25	2 3/8	1 3/4	6
1 1/4	.35	1.25	1.65	2 3/8	2	10
1 1/2	.60	1.75	2.25	3 1/8	2 3/8	16

Galvanized furnished without ferrule.



Fig. 219

Letters and Figures

CAST BRONZE

REGULAR PATTERN

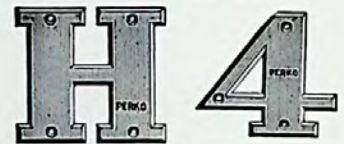


Fig. 348

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lb.
2	\$.15	\$.35	\$.55	6 1/2
3	.20	.40	.60	24 1/2
4	.50	.85	1.10	36

GOthic PATTERN



Fig. 313

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lb.
3	\$.20	\$.40	\$.60	18

Transom Flag Pole Socket

CAST BRONZE



Fig. 225

Diam. Socket Inches	Depth Socket Inches	Length Base Inches	Width Base Inches	Weight Oz.
3/4	1 1/4	3 1/8	1 1/2	8

Polished Bronze Each	Chromium Plated Each
\$1.60	\$2.20

Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

Length Inches	Per 100 Pieces	Weight Per 100 in Lb.
4 1/2	\$ 4.50	4 3/8
6	6.50	8 3/4
8	10.00	13 3/4

Improved Boat Hooks

GALVANIZED MALLEABLE IRON AND BRONZE

A simple but badly needed improvement in boat hooks. It is not necessary to taper the pole to fit. Result, more wood inside the hook, less breakage and a much stronger assembly.

SHARP POINTS



Fig. 240

No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	Outside Diam. Inches	Inside Diam. Inches	Length Inches
1	\$.65	\$1.70	\$2.70	1 1/4	1	8
2	.80	2.20	3.20	1 1/2	1 1/4	8 3/4

BALL POINTS



Fig. 241

No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	Outside Diam. Inches	Inside Diam. Inches	Length Inches
4	\$.65	\$1.75	\$2.75	1 1/4	1	8 1/4
5	.80	2.25	3.25	1 1/2	1 1/4	8 3/4

Boat Hook Holders

SPRING BRASS

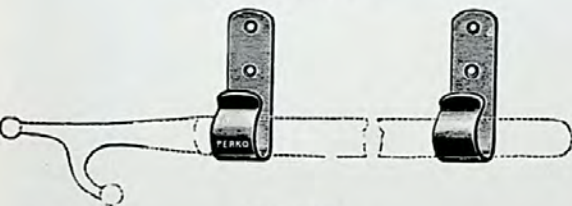


Fig. 490

Made of spring brass they will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Polished	Chromium	Length Inches	Width Inches	Weight Ounces
Brass Each	Plated Each	3 1/2	1	1 1/2
\$.50	\$.70			

Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Price Each	Length Inches	Weight Per 100 In Pounds
\$.45	5	31

Old Style 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	\$.45	\$1.25	\$2.25	1	7 1/4
1	.55	1.40	2.40	1 1/4	8 1/4
2	.70	1.90	2.90	1 1/2	9 3/8
3	.85			2	9 3/4

BALL POINTS



Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches
3 1/2	\$.50	\$1.25	\$2.25	1	7 3/8
4	.55	1.40	2.40	1 1/4	8 1/4
5	.70	1.90	2.90	1 1/2	9 3/8
6	.90			2	9 1/2

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
\$.85	\$1.30	\$1.75	3	4 1/2	1/2

Dart Shank

IRON SHANK—CAST BRONZE SOCKET



Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.

Price Each	\$1.65
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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	\$.30	\$.20	\$.15	1 3/4	1 1/8
1	.35	.25	.15	2	1 1/4
2	.50	.35	.25	2 1/4	1 3/4

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	\$1.10			1 3/4	2
1	1.10	\$2.00	\$3.25	2	2
2	1.50			2 1/4	2 3/4

Round Socket Rowlocks
GALVANIZED IRON



Fig. 642

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0	\$.50	\$.35	\$.25	2	1 1/8
1	.50	.35	.25	2 1/4	1 1/4
2	.65	.50	.25	2 1/2	1 1/2

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
1	.40	.25	.20	2 1/4	1 1/4

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	\$.50	\$.35	\$.25	1 3/4	1 1/8
1	.50	.35	.25	2	1 1/4
2	.70	.50	.35	2 1/4	1 3/4
3	1.00	.70	.50	2 1/2	2 5/8

GALVANIZED MALLEABLE IRON

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.	\$.50	\$.35	\$.25	1 3/4	3/8
1 Galv.	.50	.35	.25	2	1
0 Pl. Bronze	1.20	.80	.50	1 3/4	3/8
1 Pl. Bronze	1.20	.80	.50	2	1
0 Pol. Bronze	2.00	1.20	.90	1 3/4	3/8
1 Pol. Bronze	2.00	1.20	.90	2	1

North River Rowlocks
GALVANIZED MALLEABLE IRON



Fig. 643



Fig. 644

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
643	\$.50	\$.35	\$.25	2 1/8	1 1/2
644	.70	.35	.45	2 1/8	1 1/2

With Chain for Galv., add 10c to above prices.
With Chain for Bronze, add 20c 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.	\$.90	\$.35	\$.65	2	1 1/2
0 Pl. Bronze	1.60	.80	.90	1 3/4	1 1/2
1 Pl. Bronze	1.60	.80	.90	2	1 1/4
0 Pol. Bronze	2.75	1.20	1.65	1 3/4	1 1/4
1 Pol. Bronze	2.75	1.20	1.65	2	1 1/2

With Chain for Galv. add 10c to above prices.
With Chain for Bronze add 20c to above prices.

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 3/8	1 1/8
2	1 1/4	2 1/8	4 3/4	2

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$2.00	\$4.00	\$5.25	\$6.25
2	3.00	5.00	6.50	7.50

Improved Oar Leathers

TANNED LEATHER



Fig. 196

Oar leathers of an improved type, which will fit any oar and eliminate the old method of permanent fastening with nails.

Furnished complete with buttons and leather laces.

Per Pair	Length Inches	Width Inches
\$1.50	7	6

Mooring Bitt

CAST BRONZE



Fig. 608

No.	Size Base Inches	Height Inches	Weight Lbs.
1	3 x 3	2 1/2	7 1/2
2	4 1/2 x 4 1/2	3 1/2	17 1/2
3	6 x 6	5	55 1/2
4	7 x 7	6 1/2	120

No.	Polished Bronze Each	Chromium Plated Each
1	\$ 3.00	\$ 4.00
2	4.00	5.00
3	8.00	10.00
4	11.50	13.75

Oar Leathers and Buttons

RUSSET LEATHER



Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

	Per Pair
Complete, Leathers and Buttons	\$.95
Leathers Only—7x6 1/2 Inches .....	.70
Buttons Only—1/2x16 Inches .....	.30

Copper Oar Tips



Fig. 794

Made of soft sheet copper.—per pair \$.25.

Improved Riding Bitts

GALVANIZED CAST IRON



Fig. 926

Size No.	Galv. Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches	Weight Pounds
00	\$1.20	3 1/2	2 1/2 x 2 1/2	1/4	2
0	1.80	4 1/2	3 x 3	3/8	4
01	2.40	5 3/4	3 1/2 x 3 1/2	3/8	7
1	3.70	6 3/4	5 x 5	1/2	9
1 1/2	6.75	8 1/4	5 1/2 x 5 1/2	3/8	12
2	9.25	10	5 1/2 x 7 1/2	3/8	25

Bow Plates
CAST BRONZE



Fig. 181

	Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Diam. Eye Inches	Weight Ounces
	\$1.10	\$1.85	4 1/8 x 4 3/8	3/4	10

Ring on Plate
GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 in Lb
1	\$.50	5/16 x 1 1/2	2 x 2 x 3/8	33
2	.60	3/8 x 2	2 x 2 x 1/4	50

Combination Bow Plates
CAST BRONZE



Fig. 543

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Diam. Rope Inches
1	\$2.75	\$3.50	3 1/4	4 1/4	Up to 5/8
2	3.00	3.75	3 3/4	4 3/4	Up to 1

Ring on Plate
CAST BRONZE—STREAMLINE PATTERN



Fig. 182

No.	Polished Bronze Each	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches
1	\$.90	\$1.40	2 3/4	1 1/2	3/2 x 1 1/4
2	1.00	1.65	3 1/4	1 3/8	1/4 x 1 1/2

Ring and Deck Strap
CAST BRONZE



Fig. 183

	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches	Width Strap Inches
	\$.55	\$.80	\$1.20	1/4 x 1 1/2	3	3/4

Straps only, deduct \$.20 each.

Rings with Straps
GALVANIZED MALLEABLE IRON
OR CAST BRONZE—HEAVY PATTERN



Fig. 1020

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Strap Inches
1	\$.35	\$.55	\$.90	\$1.30	1/4 x 1 1/2	4 1/8 x 3/4
2	.40	.65	.95	1.40	3/8 x 1 3/4	4 1/8 x 3/4

Bronze Fender Hooks



Fig. 547

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches
1	\$.35	\$.40	\$.70	1/8	1 3/8 x 1 1/4
2	.55	.60	.90	1/2	2 1/4 x 1 3/4

Note—No. 1 size is drop forged bronze, No. 2 cast bronze.

Bow Eyes
CAST BRONZE



Fig. 303

No.	Metal in Eye Inches	Length of Straps Inches	Extreme Length Inches	Inst. Diam. Inch	Chrom. Plated Each
1	3/8	1 3/4	3	3/4	\$1.20
2	1/2	2 3/8	3 3/8	7/8	1.5

No.	Plain Bronze Each	Polished Bronze Each
1	\$.55	\$.85
2	.75	1.05

Windshield Brackets

CAST BRONZE—V TYPE

Sturdy and attractive fittings for runabouts and out-board motor boats.

The end brackets have beveled bases that will fit the crown of most decks, all brackets are grooved for 1/4 inch glass.

WITH SIDE HANDLES

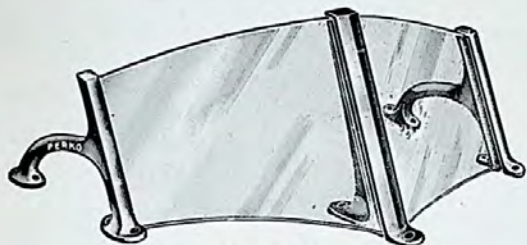


Fig. 930

Angle from vertical 23 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Side on Base Inches	Weight Per Set Pounds
\$10.00	\$12.50	8 1/4	5 5/8	9	5

Price does not include glass or rubber insulation. Height is measured vertically.

WITHOUT SIDE HANDLES

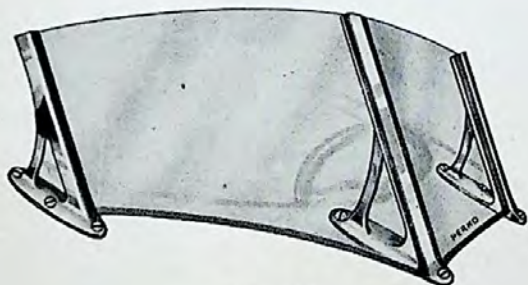


Fig. 665

Angle from vertical 35 degrees.

Polished Bronze Per Set	Chromium Plated Per Set	Height Center Bracket Inches	Height End Bracket Inches	Length Center Base Inches	Weight Per Set Pounds
\$10.00	\$12.50	9 1/2	7 1/2	7 3/8	4 1/2

Price does not include glass or rubber insulation. Height is measured vertically for 1/4 inch glass.

Rubber Insulation for Windshields



Fig. 667

Live moulded rubber for glass 1/4 inch thick.

Fig. 667—For bottom of windshields—per foot \$.25



Fig. 668

Fig. 668—For windshield brackets—per foot .20

Windshield Cleaners

ELECTRIC—6 AND 12 VOLTS—BLACK FINISH FOR SWING OUT WINDSHIELDS

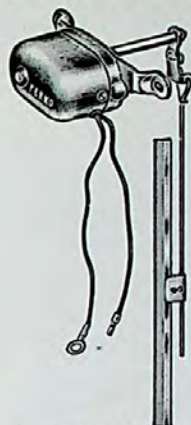


Fig. 395

Motor cover is brass. Shaft and arm are steel, cadmium plated. Blade is adjustable to various lengths.

Furnished with drilling template, rubber insulating washers, connecting wires and switch.

6 Volt Each	12 Volt Each	Extreme Width Inches	Length Blade Inches	Length Shaft Inches	Weight Pounds
\$5.50	\$6.50	5 1/2	9	2 1/2	1 1/4

Windshield Adjusters

CAST BRONZE



Fig. 82

No.	Length Inches	Polished Bronze Per Pair	Chromium Plated Per Pair
1	6 1/2	\$5.00	\$7.00
2	9	6.00	8.00

Non Skid Step Plates

WITH MOULDED RUBBER STEP PADS
CAST BRONZE—CHROMIUM PLATED

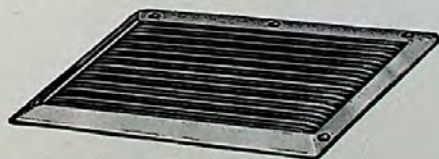


Fig. 1043

No.	Complete Each	Frames Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$2.65	\$2.00	\$1.05	8 1/2 x 3 1/2	3/4
2	4.00	3.00	1.25	11 1/2 x 5 1/2	1 3/4

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	\$.45	\$.80	\$1.30	2	5/8" Rod
1 1/2	.45	.80	1.30	2	1/4" Pipe
2	.55	.95	1.50	2 1/2	5/8" Rod
2 1/2	.55	.95	1.50	2 1/2	1/4" Pipe
3	.65	1.10	1.75	3	5/8" Rod
3 1/2	.65	1.10	1.75	3	3/8" Pipe
5	.85	1.95	2.60	4	3/4" Rod
5 1/2	.85	1.95	2.60	4	1/2" Pipe

Hand Rail Sockets

CAST BRONZE



Fig. 215

Made for end or center of rail of high grade bronze. Base can very easily be shaped to fit the crown of the deck.

For Rail Diam. Inches	Extreme Height Inches	Size of Base Inches	Weight Each Ounces
1	1 3/4	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	Plated End Each
1	\$1.00	\$1.25	\$1.75	\$2.00
1 1/4	1.25	1.50	2.00	2.25

Please specify center or end and size when ordering.

Grab Rail Posts

CAST BRONZE—HOLLOW



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	3/8
2	3	3 1/2	1 1/4	1 1/4

No.	Polished Bronze Each	Chromium Plated Each
1	\$1.40	\$2.00
2	3.60	4.50

Furnished for center mounting when desired, please specify.

Grab Rails

CAST BRONZE POSTS—BRASS TUBING

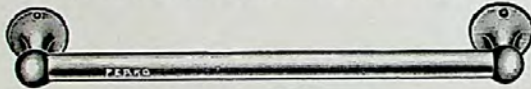


Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1 1/8 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$3.25	\$4.50	\$3.50	\$4.75
8	3.50	4.75	3.75	5.00
12	3.75	5.00	4.00	5.25
18	4.25	5.50	4.50	5.75
24	4.75	6.00	5.00	6.25
30	5.25	6.50	5.50	6.75
36	5.75	7.00	6.00	7.25
42	6.25	7.50	6.50	7.75

Can be furnished with middle post and in special lengths if desired. Price on application.

Rail Hinge

CAST BRONZE



Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$4.00	\$5.00	1 1/2 x 2 1/2	5	1 7/8
2	4.25	5.25	1 3/8 x 3	3 3/8	1 3/4

Flush Rail Lock

CAST BRONZE

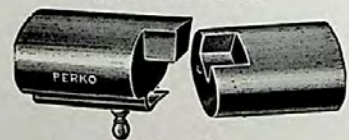


Fig. 123

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	\$4.25	\$5.25	1 1/2 x 2 1/2	5	1 7/8
2	4.50	5.50	1 3/8 x 3	3 3/8	1 3/4

Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Made of $\frac{3}{8}$ inch best grade rope with oil treated hickory rungs. Rungs are $1\frac{1}{4} \times 14$ 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	\$3.00
3 rung	3.50
4 rung	4.00
5 rung	4.50
6 rung	5.00

Additional rungs add \$.80 each.

Fig. 991

Rope Swimming Ladders

WITH FLAT WOOD STEPS CUT OUT FOR TOES AND HAND HOLD.

Steps are $\frac{3}{4} \times 3\frac{3}{4} \times 20$ inches and spaced 12 inches apart.

Made of $\frac{3}{8}$ inch best grade rope with ash steps, varnished.

Furnished complete with lanyards 6 feet long for making fast on board.

Ladders	Each
2 step	\$4.00
3 step	5.00
4 step	6.00
5 step	7.00
6 step	8.00

Additional steps add \$1.30 each.



Fig. 992

Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS

Each rung is $1\frac{1}{4} \times 14$ inches and steps are spaced 12 inches apart.

Made of first grade $\frac{3}{8}$ 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	\$ 6.25
3 step	9.50
4 step	12.75
5 step	16.00
6 step	19.25

Additional steps add \$3.25 each.

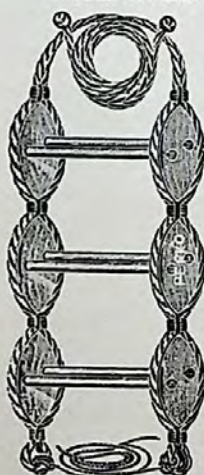


Fig. 993

Ladder Locks

CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
$1\frac{1}{4}$	1	$1\frac{1}{4}$	12
Polished Bronze Per Set			Chromium Plated Per Set
\$2.25			\$3.85

A set consists of four pieces illustrated

Ladder Hooks

CAST BRONZE



Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
12	4	$2\frac{1}{2} \times 3\frac{3}{8}$	4

Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$8.50	\$10.50	\$1.75	\$2.75

Ladder Hooks

CAST BRONZE

WITH FLUSH PLATES FOR DECK



Fig. 994

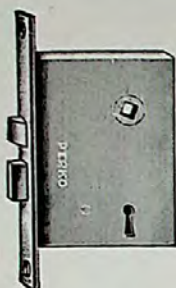
Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
10	$3\frac{3}{4}$	$3\frac{1}{4} \times 2$	4

Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$8.50	\$10.50	\$1.40	\$2.40



Mortise Locks

CAST BRONZE—POLISHED

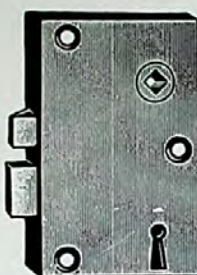


Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

Rim Locks

CAST BRONZE—POLISHED



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

Fig. 1045

No.	Each	Case Inches	Facing Inches	Backset Inches	Spindle Hub Inches
1	\$3.00	2 3/4 x 2 x 1/2	4 1/8 x 1 1/8	1 1/2	1 1/8
2	3.80	3 1/2 x 2 3/4 x 1/2	5 x 3/4	2 1/4	1 1/8

No.	Each	Size Case Inches	Spindle Inches	Backset Inches
1	\$3.60	2 1/2 x 2	1 1/8	1 1/2
2	3.90	3 3/4 x 2 1/2	1 1/8	1 3/4

Mortise Lock Sets

CAST BRONZE—POLISHED

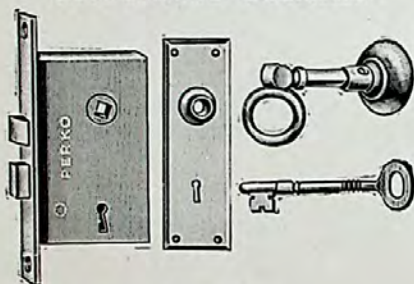


Fig. 945

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.75
Size No. 2, Price Per set	7.50

SET B

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$6.75
Size No. 2, Price Per Set	7.50

SET C

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.20
Size No. 2, Price Per Set	7.00

SET D

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$6.20
Size No. 2, Price Per Set	7.00

For Set No.	Combination Escutcheon Inches	Diameter Round Knob Inches	Shield Escutcheon Inches
1	4 3/8 x 1 1/8	1 3/4	1 1/2
2	6 x 1 1/2	1 3/4	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

Rim Lock Sets

CAST BRONZE—POLISHED

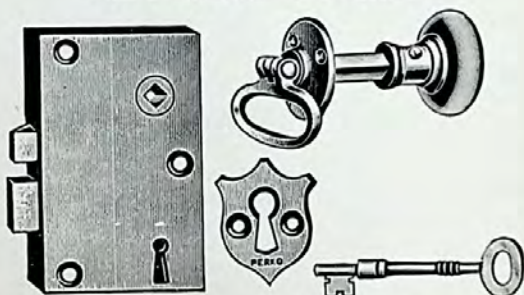


Fig. 1046

The following shows Rim Lock Fig. 1045, Numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.75
Size No. 2, Price Per Set	7.25

SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.00
Size No. 2, Price Per Set	6.80

SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$6.00
Size No. 2, Price Per Set	6.70

For Set No.	Combination Escutcheon Inches	Diameter Round knob Inches	Shield Escutcheon Inches
1	4 3/8 x 1 1/8	1 3/4	1 1/2
2	6 x 1 1/2	1 3/4	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on Application.

Extra keys for above locks furnished to order.

Brass Rim Lock Set

POLISHED OR CHROMIUM PLATED

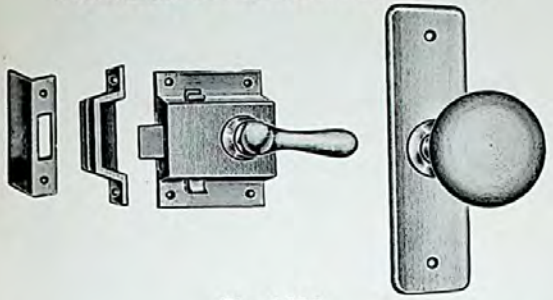


Fig. 1086

Brass throughout. Reversible for right and left hand doors. Push type locking device. No keys. For doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick. Diameter of knob $1\frac{1}{4}$ inches.

Polished Brass Each	Chromium Plated Each	Size Case Inches	Size Escutcheons Inches	Backset Inches
\$3.00	\$4.75	3x2	$4\frac{1}{2} \times 1\frac{1}{2}$	$1\frac{1}{2}$

Brass Mortise Lock Set

POLISHED OR CHROMIUM PLATED

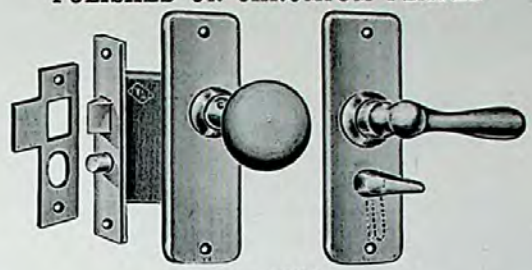


Fig. 1088

Brass throughout. Reversible for right and left hand doors. Lever type locking device. No keys.

For doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick.

Size Case Inches	Size Face Inches	Size Escutcheons Inches	Size Knob Inches	Backset Inches
$2 \times 1\frac{3}{4} \times \frac{1}{8}$	$3\frac{1}{4} \times \frac{1}{8}$	$4 \times 1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{8}$

Polished Brass Each	Chromium Plated Each
\$3.85	\$5.50

Brass Mortise Lock Set

POLISHED OR CHROMIUM PLATED

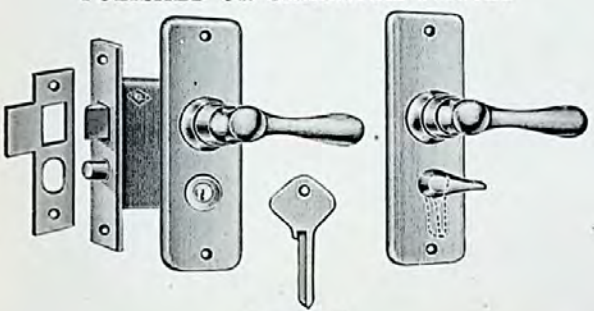


Fig. 1087

Brass throughout, reversible for right and left hand doors. With lever lock on one side and key lock on the other. With two lever handles.

For doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick. Length of levers 2 inches.

Polished Brass Each	Chromium Plated Each	Size Case Inches	Size Face Inches	Size Escutcheons Inches	Backset set Inches
\$4.10	\$5.75	$2 \times 1\frac{1}{8} \times \frac{1}{8}$	$3\frac{1}{4} \times \frac{1}{8}$	$4 \times 1\frac{3}{8}$	$1\frac{1}{8}$

Brass Mortise Lock Set

POLISHED OR CHROMIUM PLATED

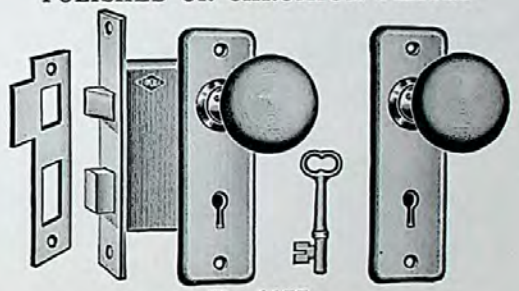


Fig. 1177

Brass throughout. Reversible for right and left hand doors. Operates by key from both sides. One key. Diameter of knobs $1\frac{1}{4}$ inches. For doors $1\frac{1}{8}$ to $1\frac{3}{4}$ inches thick.

Polished Brass Each	Chromium Plated Each	Size Case Inches	Size Face Inches	Size Escutcheons Inches	Backset Inches
\$6.25	\$8.00	$3 \times 2 \frac{1}{8} \times \frac{1}{2}$	$4\frac{1}{2} \times \frac{3}{4}$	$4\frac{1}{2} \times 1\frac{1}{2}$	$1\frac{3}{8}$

Brass Tubular Lock Sets

FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED



Fig. 567

Cylinder Rim Spring Latches

ALL BRONZE—REVERSIBLE

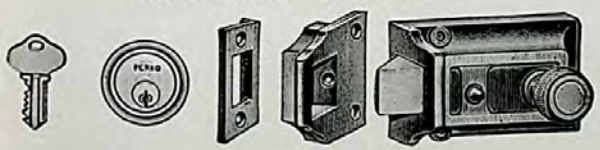


Fig. 1101

Raised parts and edges are polished, furnished with both strikes, three keys and screws. Meets U. S. Navy specifications 42-L-27.

Per Set	Size Case Inches	Thickness Inches	Backset Inches	For Thickness of Doors Inches
\$4.00	$3\frac{3}{4} \times 2\frac{1}{2}$	1	$2\frac{3}{8}$	$1\frac{1}{4}$ to $2\frac{1}{4}$

Polished Brass Each	Chromium Plated Each	For Thickness of Doors Inches	Size Escutcheon Inches	Size Knob Inches	Backset Inches
\$2.25	\$3.00	$\frac{7}{8}$ to $1\frac{3}{8}$	$4\frac{3}{8} \times 1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{3}{8}$



Door Knobs

CAST BRASS—POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs

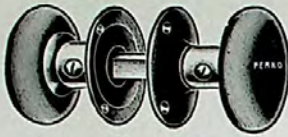


Fig. 1048

Diam. Knob Inches
1 3/4
2

Per set
\$2.25
2.25

Size Spindle Inches
1/8
3/8

Round Knob and Drop Handle

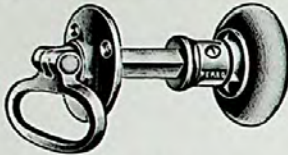


Fig. 1049

Diameter Knob Inches
1 3/4
2

Per Set
\$2.25
2.25

Size Spindle Inches
1/8
3/8

Knobs for Rim Locks have One Rosette
Knobs for Mortise Locks have Two Rosettes

Drawer Knobs

ALL BRASS—FOR DRAWERS UP TO 1 1/4" THICK



Fig. 924

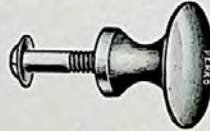


Fig. 925

No.	Fig.	Polished Bronze Per Dozen	Chromium Plated Per Dozen	Diameter Inches
1	924	\$2.50	\$3.00	1
2	924	3.00	3.50	1 1/4
3	925	3.00	3.50	1

Flush Ring Catch

CAST BRASS—POLISHED



Fig. 1051

Size Inches
1 3/8 x 1 1/4

Each
\$.60

Flush Ring Pulls

CAST BRASS—POLISHED



Fig. 841

No.	Each	Size Plate Inches
1	\$.50	1 1/4 x 1 1/2
2	.65	1 1/2 x 1 3/8
3	.85	1 3/8 x 2 1/2
4	1.15	2 x 3/4

Cupboard Catches

CAST BRONZE—POLISHED

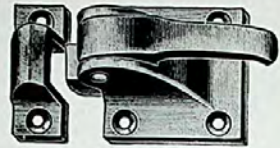


Fig. 1102

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.95	1 1/2 x 1 1/2	1 1/2
2	.95	1 1/2 x 1 1/2	1 3/4

No. 2 has 3/8 inch offset.

Cupboard Turns

WROUGHT BRONZE—POLISHED

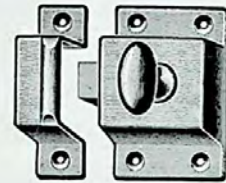


Fig. 1105

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.55	1 7/8 x 1 3/8	2
2	.60	2 1/8 x 1 1/8	3

Cupboard Turns

CAST BRASS—POLISHED

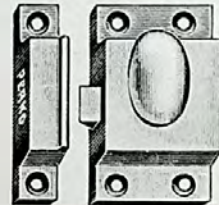


Fig. 949

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
2	.90	2 1/4 x 1 3/8	3 3/4
1	\$.80	1 7/8 x 1 1/8	2 1/2

Cupboard Catches

CAST BRASS—POLISHED



Fig. 950

Furnished complete with screws.

No.	Each	Size Inches
1	\$.50	1 1/8 x 1 1/2
2	.60	1 1/4 x 1 1/2
3	.65	1 1/8 x 1 1/2

Barrel Bolts

CAST BRASS—POLISHED

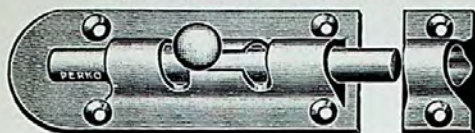


Fig. 947

No.	Each	Size Inches	Weight Per Dozen Pounds
1	\$.55	2 1/4 x 1 1/8	1 1/2
2	.75	3 x 1 1/4	2
3	.90	4 x 1 1/4	3

Flush Bolts

CAST BRONZE—POLISHED

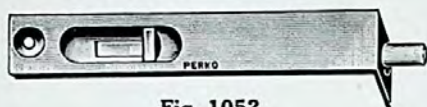


Fig. 1052

No.	Each	Size Inches
1	\$.60	3/8 x 2 1/2
2	.70	3/8 x 3

Ship Bolts

HEAVY CAST BRONZE—POLISHED

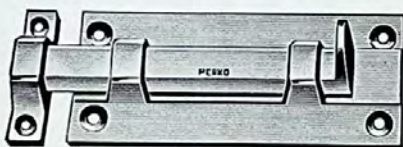


Fig. 1053

No.	Each	Size Inches
1	\$.55	3 x 1 1/8
2	.75	4 x 1 3/8
3	1.00	5 x 1 3/8

Square Neck Bolts

HEAVY CAST BRONZE—POLISHED

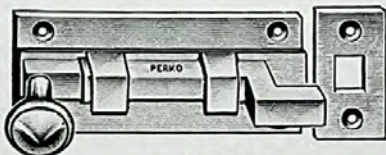


Fig. 1054

No.	Each	Size Inches
1	\$.70	3 x 1 1/4
2	.90	4 x 1 1/4

Window Bolts

CAST BRONZE—POLISHED

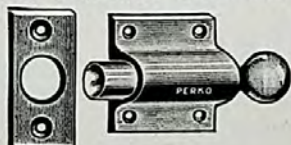


Fig. 1055

Base Inches	Each
1 1/8 x 1 1/4	\$.70

Casement Fasteners

CAST BRONZE—POLISHED

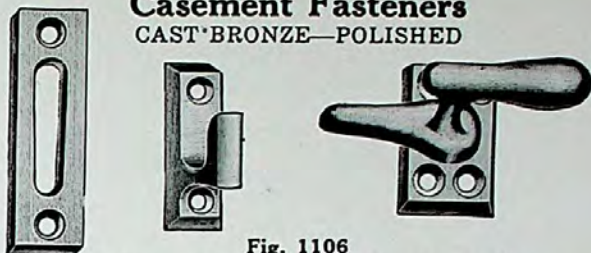


Fig. 1106

Furnished with screws and either type strike.

Each	Without Strike Inches	Extreme Projection Inches	Weight Per Dozen Pounds
\$.95	1 3/8 x 1 1/8	1 3/8	2 1/2

State type of strike when ordering.

Casement Adjuster

ALL BRASS—HEAVY PATTERN

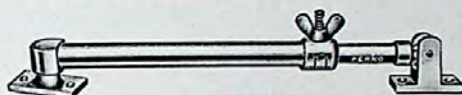


Fig. 1179

A non-slip adjuster with powerful grip to stay put in position desired.

Illustration shows swivel base on left side and swinging base on right.

Polished Brass Each	Chromium Plated Each	Length Closed Inches	Length Open Inches	Diam. Outside Tube Inches
\$2.30	\$3.00	11	20	1/2

Hatch Adjusters

CAST BRONZE

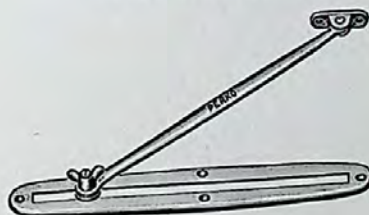


Fig. 797

Polished Bronze Each	Chromium Plated Each	Length Arm Inches	Length Plate Inches
3.00	4.00	10	10 3/4

Skylight Quadrants

CAST BRONZE

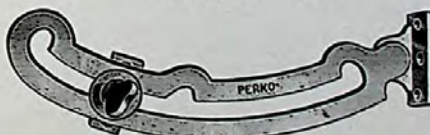


Fig. 449

No.	Length Inches	Polished Bronze Per Pair	Chromium Plated Per Pair
1	5	\$3.50	\$5.00
2	8	5.25	6.75
3	10	6.50	8.30
4	12	7.25	9.25



Strap Hinges

GALVANIZED MALLEABLE IRON OR BRONZE
BRASS PINS



Fig. 120

Length Opened Inches	Galvanized Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.40	\$.75	\$1.15	\$2.15	$\frac{1}{8}$
6	.60	1.00	1.40	2.50	$\frac{3}{8}$
8	.95	1.25	1.85	3.10	$\frac{7}{8}$
10	1.20	1.65	2.40	3.80	$1\frac{1}{8}$
12	1.70	2.30	3.10	4.60	$1\frac{5}{8}$

Port Hinges

GALVANIZED MALLEABLE IRON OR BRONZE
BRASS PINS



Fig. 109

Length Opened Inches	Galvanized Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.60	\$1.00	\$1.70	\$2.70	$\frac{1}{2}$
6	.85	1.30	2.00	3.20	$\frac{7}{8}$
8	1.30	1.75	2.75	4.15	$1\frac{1}{2}$
10	2.00	2.60	3.60	5.10	2
12	2.60	4.65	5.50	7.10	$2\frac{5}{8}$

Cuddy Door Hinges

HEAVY CAST BRONZE



Fig. 951

Length Opened Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
3	\$.65	\$1.10	\$1.70
$3\frac{1}{2}$	.70	1.20	1.90
4	.75	1.25	2.10
5	.90	1.75	2.75

Fast Pin Butt Hinges

CAST BRASS—EMERY FINISH
BRASS PINS



Fig. 952

Size Open Inches	Per Doz. Pairs	Size Open Inches	Per Doz. Pairs
$1\frac{1}{2} \times 1\frac{1}{4}$	\$ 5.40	$2\frac{1}{2} \times 2\frac{1}{2}$	\$12.00
$1\frac{1}{2} \times 1\frac{1}{2}$	5.52	3 x 2	13.20
2 x $1\frac{1}{4}$	6.00	3 x $2\frac{1}{2}$	15.60
2 x $1\frac{1}{2}$	6.60	3 x 3	18.60
2 x $1\frac{3}{4}$	7.44	$3\frac{1}{2} \times 3$	21.60
2 x 2	7.80	$3\frac{1}{2} \times 3\frac{1}{2}$	24.00
$2\frac{1}{2} \times 1\frac{3}{4}$	10.56	4 x 3	28.16
$2\frac{1}{2} \times 2$	10.80	4 x 4	33.60

Polished or Chromium Plated, Price on Application
Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—POLISHED
BRASS PINS

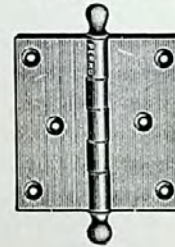


Fig. 953

Size Open Inches	Size Screw Inches	Per Pair	Size Open Inches	Size Screw Inches	Per Pair
2 x $1\frac{1}{2}$	$\frac{3}{4} \times 6$	\$1.35	3 x 3	1 x 8	\$2.50
2 x 2	$\frac{3}{4} \times 7$	1.50	$3\frac{1}{2} \times 3$	1 x 11	3.00
$2\frac{1}{2} \times 2$	$\frac{7}{8} \times 7$	1.65	$3\frac{1}{2} \times 3\frac{1}{2}$	1 x 11	3.30
$2\frac{1}{2} \times 2\frac{1}{2}$	$\frac{7}{8} \times 7$	1.80	4 x 4	1 x 11	6.00
3 x 2	1 x 8	2.00			
3 x $2\frac{1}{2}$	1 x 8	2.20			

Chromium Plated, add 50% to above Prices

Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

Length Between Joints Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$2.10	\$3.40	\$4.65	$11\frac{1}{4}$
3	2.40	3.75	5.05	$12\frac{1}{4}$
4	2.60	4.25	5.65	13
5	4.20	6.00	7.60	$16\frac{1}{4}$
6	4.50	6.50	8.25	17



Butterfly Hinges
WROUGHT BRASS—PLAIN



Fig. 1058

No.	Per Pair	Length Open Inches	Width at Pin Inches	Thickness Inches
1	\$.10	2 1/4	3/4	.035
2	.15	3 1/8	1 1/16	.040

Spring Hinges
WROUGHT BRASS—PLAIN

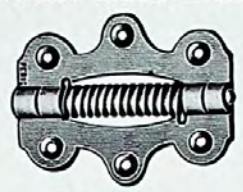


Fig. 1059

No.	Per Pair	Length Inches	Width Open Inches	Weight Per Pair Ounces
1	\$.55	2 3/8	1 7/8	3
2	.85	3	2 3/8	5

Spring Hinges
CAST BRONZE—POLISHED

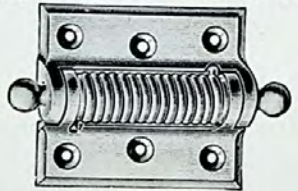


Fig. 1107

Furnished complete with screws.

Per Pair	Length Inches	Width Inches	Weight Per Pair Pounds
\$3.30	3	2 1/2	1 1/4

Hatch Hinges
CAST BRONZE

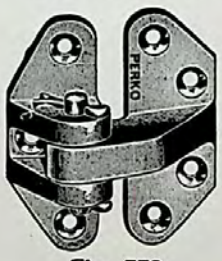


Fig. 773

For use with flush hatch cover.

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Weight Per Pair Pounds
\$4.00	\$5.25	3 1/8	2 3/8	1 3/4

Illustration shows one half pair.

Continuous Hinge
WROUGHT BRASS—BRASS PIN



Fig. 211

For use on hatch covers, locker doors, windshields, etc. Holes are two inches apart, center to center.

Width Open Inches	Polished Brass Each	Chrom. Plated Each	Length Inches	Gauge
1 1/8	\$1.65	\$2.25	60	.045
1 1/4	1.85	2.50	60	.040
1 1/2	2.15	2.85	72	.040
1 3/4	1.95	2.75	60	.040
2	2.30	3.25	72	.040
2 1/2	2.50	3.75	60	.040
3	3.00	4.25	72	.040

Special widths and lengths made to order. Price on application.

Flat Hatch Trim
POLISHED BRASS

For neat finishing around edge of hatch. Made of 18 B & S gauge metal in standard lengths.



Fig. 243

Width Inches	Weight Per Foot Ounces	Polished Brass Per Foot	Chromium Plated Per Foot
1	2 3/4	\$.21	\$.38
1 1/4	3	.22	.39
1 1/2	3 1/2	.25	.42

Furnished with holes drilled and countersunk at 10° per hole. Send information as to size of holes spacing, etc.

Hatch Handle
CAST BRONZE



Fig. 185

Polished Bronze Each	Chrom. Plated Each	Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Ounces
\$.70	\$1.10	5	1 1/8	3 1/4 x 1	6

Flush Hatch Lifting Handle
CAST BRONZE—SAFETY TYPE



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
\$1.50	\$2.50	3 x 2 3/8	1 7/8 x 1	6



Boston Hasp Hinges

GALVANIZED MALLEABLE IRON OR BRONZE

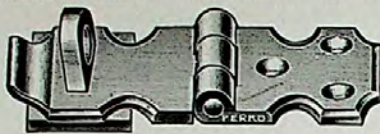


Fig. 954

Length Opened inches	Galv. Each	Pl. Bronze Each	Pol. Bronze Each
4	\$.40	\$.75	\$1.10
6	.55	1.00	1.65

Security Hasp Hinges

POLISHED BRONZE

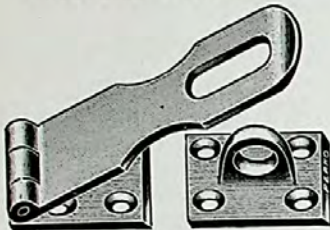


Fig. 955

Length Closed inches	Pol. Bronze Each	Width Inches
2 3/4	\$.85	1
3 3/4	1.00	1 1/8

Cabin Door Hooks

CAST BRASS—POLISHED



Fig. 956

Size Inches	Each	Size Inches	Each
1 1/2	\$.40	3 1/2	\$.70
2	.45	4	.75
2 1/2	.55	5	.90
3	.60	6	1.20

Cabin Door Hooks

DOUBLE JOINTED
CAST BRASS—POLISHED



Fig. 957

Size Inches	Each	Size Inches	Each
2 1/2	1.50	4	1.70
2	\$1.50	5	1.85
3	1.55	6	2.00

Safety Hasps

EXTRA HEAVY CAST BRONZE—POLISHED

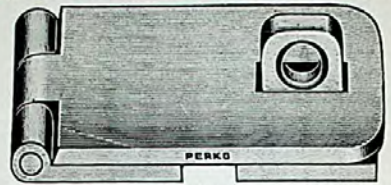


Fig. 1060

Inches	Inches	Each
4 1/2	1 3/8	\$1.75

Anti-Rattle Door Fastener

CAST BRONZE—POLISHED

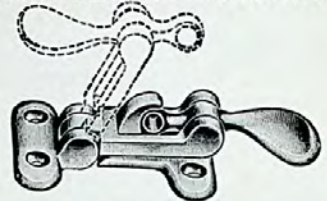


Fig. 1108

Furnished complete with screws. Has 1/4 inch hole lever for padlock.

Each	Size Base Inches	Weight Ounces
\$1.40	3x2	6

Door Holders

SIDE PATTERN
CAST BRONZE—POLISHED

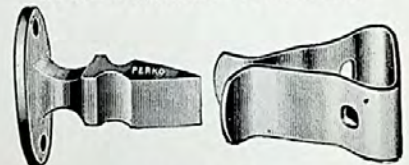


Fig. 1065

Per Set	Base of Holder Inches	Base of Clip Inches	Project Inches
\$.90	1 7/8 x 1 1/4	2 1/8 x 3/4	2

FLOOR PATTERN

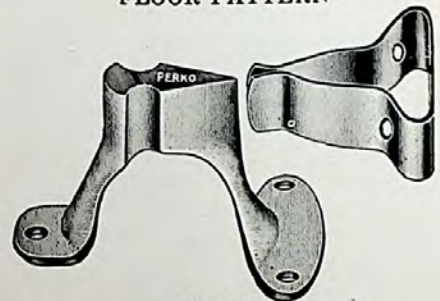


Fig. 1066

Per Set	Height Holder Inches	Base of Holder Inches	Base of Clip Inches
\$1.00	1 3/4	2 3/4 x 1 3/8	2 1/8 x 3/4

Cupboard Door Holder

ALL BRONZE

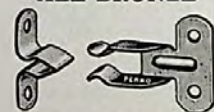


Fig. 1178

A useful little friction catch for use on cabin closets, cupboards and all small doors, size overall 1 1/4 x 1 inches.

Per Dozen \$1

Sash Hinges CAST BRONZE

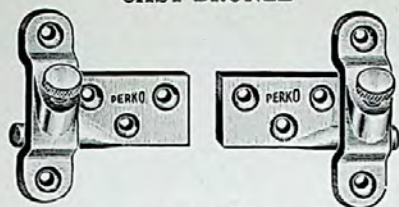


Fig. 418

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
1	$1\frac{1}{8} \times \frac{7}{8}$	$2\frac{1}{2} \times \frac{11}{16}$	6	$\frac{7}{8}$
2	$1\frac{1}{8} \times \frac{7}{8}$	$3\frac{1}{4} \times \frac{11}{16}$	7	$\frac{7}{8}$
		Polished Bronze Per Set		Chromium Plated Per Set
		\$1.50		\$2.25
		2.00		2.75

Sash Anti Rattlers CAST BRONZE—POLISHED

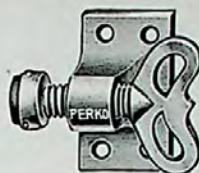


Fig. 839

Furnished with leather tip to prevent defacing of wood work. Size of base 1" x 1 3/4".
 Polished Bronze, Each \$1.25
 Chromium Plated, Each 1.75

Sash Lifts CAST BRONZE



Fig. 776

No.	Size of Plate	Polished Bronze Each	Chromium Plated Each
1	$\frac{1}{2} \times 1\frac{1}{2}$	\$.35	\$.65
2	$\frac{3}{4} \times 1\frac{1}{8}$	.35	.65

Combination Sash Hinges WITH CURTAIN ROD SOCKETS CAST BRONZE

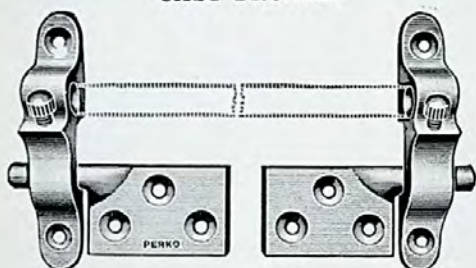


Fig. 960

Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
$1\frac{1}{8} \times \frac{7}{8}$	$2\frac{3}{4} \times \frac{1}{2}$	7	$\frac{7}{8}$
		Polished Bronze Per Set	Chromium Plated Per Set
		\$1.85	\$2.60

Sash Fasteners LEFT OR RIGHT HAND CAST BRONZE—POLISHED



Fig. 777

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$.60	\$1.00	$1\frac{3}{4} \times 1$	1 1/2

Please specify left or right hand

Sash or Skylight Fastener CAST BRONZE

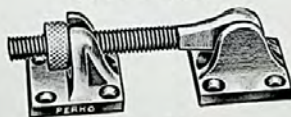


Fig. 770

Size Inches	Emery Finish Each	Polished Bronze Each	Chromium Plated Each
$\frac{3}{8} \times 4$	\$1.50	\$2.00	\$3.00

Coat and Hat Hooks CAST BRASS



Fig. 959

Wardrobe Hooks CAST BRONZE—POLISHED



Fig. 635

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Inches	Polished Brass Each	Chromium Plated Each	Projection Inches	Width Base Inches
\$.30	\$.45	1 1/2	1	\$.35	\$.50	2	1 1/4

Refrigerator Levers CAST BRASS—POLISHED

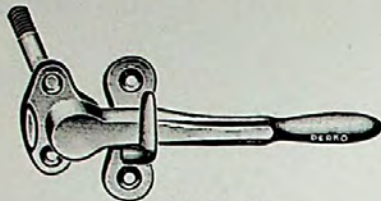


Fig. 1062

An integral stop on lever plate will keep lever in up-right position when door is open.
Reversible for right or left hand.

Length Lever Inches	Each	Length Bolt Inches
5½	\$1.30	5
6½	1.85	7
9	3.00	7½

Refrigerator Fasteners CAST BRASS—POLISHED



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.

Illustration shows right hand.

Length Overall Inches	Each	Size Lever Inches
5	\$.95	4
6¼	2.50	4¾

Cabinet Latches CAST BRASS—POLISHED



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
\$.50	\$.70	2½	2

Door Pulls CAST BRONZE



Fig. 775

Length
Inches
4¼
6

Polished
Bronze
Each
\$.45
.60

Chromi-
Plate—
Each
\$.70
.90

Drawer Pulls CAST BRASS—POLISHED

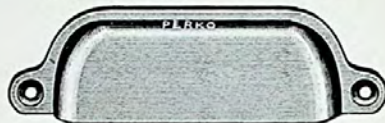


Fig. 958

Size Inches
3
4

Each
\$.40
.45

Door Buttons CAST BRASS—POLISHED



Fig. 948

No.	Per Dozen Complete	Without Plate Per Dozen	Size Inches
1	\$3.50	\$1.40	1½
2	4.00	2.00	1¾
3	5.00	2.25	2

Door Stops CAST BRONZE—POLISHED RUBBER TIP



Fig. 1109

Furnished complete with screws.

Each	Diam. Base Inches	Projection Inches
\$.65	2	1½

Elbow Catches CAST BRASS—POLISHED



Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base Inches	Each
1 1/8 x 3/8	\$.50



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	Single	Double
3/4	7/8	1 1/4 x 1/2		

Complete with Eyelet and Washer—per gross	\$12.00	\$15.50
Fastener Only—per gross	10.00	13.75
Eyelet Only—per gross	1.65	1.65
Washer Only—per gross	1.00	1.00

Note—Double fasteners when ordered complete are supplied with two eyelets and two washers for each fastener.

Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS

REGULAR



Fig. 766

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Eye Inches	Weight Per 100 in Lbs.
1	\$.04	\$.05	5/16	1	2
2	.05	.08	3/8	1 1/4	3 1/2
3	.07	.10	1/2	1 1/2	7
4	.12	.14	5/8	2	11

WITH SHOULDER



Fig. 767

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Shoulder Inches	Weight Per 100 in Lbs.
1	\$.04	\$.05	5/16	1	3
2	.05	.08	3/8	1 1/4	5
3	.07	.10	1/2	1 1/2	8 1/2
4	.12	.14	5/8	2	13

Curtain or Grommet Hooks

CAST BRONZE



Fig. 1000

Plain Bronze Per Dozen	Polished Bronze Per Dozen	Diam. Flange Inches	Length Screw Inches
\$.80	\$1.25	5/8	1/2

Grommet Hole Cutters

FORGED STEEL



Fig. 903

No.	Each	Diam. Hole Inches	No.	Each	Inches Hole Diam.
0	\$.70	1/4	5	\$2.25	5/8
1	.70	5/16	6	2.40	3/4
2	.80	11/16	7	2.75	7/8
3	.80	3/4	8	3.00	1 1/8
4	1.25	1/2			

Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets
Style C for inserting Washer and Teeth Grommets



Fig. 902

Size No.	Style B Each	Style C Each	Weight Each Lbs.
0	\$3.00	\$3.00	1 1/4
1	3.20	3.20	1 3/8
2	3.30	3.30	1 3/8
3	3.50	3.50	1 7/8
4	3.70	3.70	2 3/8
5	4.00	4.00	2 3/8
6	4.50	4.50	3 1/2
7	6.50		3 3/4
8	7.00		5

Use a wooden mallet with above dies.

ANCHOR SHACKLES

DROP FORGED STEEL

SCREW PIN

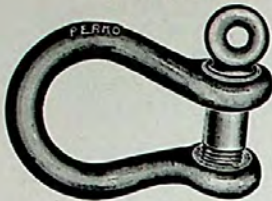


Fig. 314

ROUND PIN



Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315.

Size Inches	Galvanized Each	Self Colored Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	\$.30	\$.28	1 1/8	1/2	5/16	14	4450
3/8	.35	.33	1 1/4	5/8	3/8	25	6850
1/2	.40	.38	1 5/8	7/8	1/2	35	8800
5/8	.50	.46	1 3/4	3/4	1/2	56	13250
3/4	.60	.56	1 7/8	7/8	5/8	78	17300
7/8	.90	.82	2 1/2	1 1/8	3/4	156	29000
1	1.30	1.20	3	1 1/4	7/8	245	39200
1 1/8	1.70	1.50	3 1/4	1 1/2	1	375	53000
1 1/4	2.20	1.90	3 3/4	1 5/8	1 1/8	525	64600
1 1/2	3.20	2.80	4 1/4	1 7/8	1 1/4	740	76000
1 3/4	4.00	3.50	4 1/2	2	1 3/8	900	95000
1 7/8	5.00	4.40	5 1/4	2 1/4	1 1/2	1300	116000
2	6.50	5.80	5 3/4	2 3/8	1 5/8	1650	138000
2 1/4	10.00	8.75	7	2 7/8	2	2900	212000
2 1/2	15.00	13.00	7 3/4	3 3/8	2 1/4	4000	256000
3	60.00	56.00	10	4 1/8	2 3/4	7000	381000

NOTE—"SAFETY TYPE" SHACKLES WITH BOLT AND NUT AND COTTER BEHIND NUT SUPPLIED TO ORDER, PRICE AND OTHER INFORMATION ON APPLICATION.

CHAIN SHACKLES

DROP FORGED STEEL

SCREW PIN

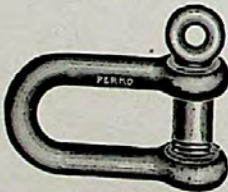


Fig. 338

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
1/4	\$.30	\$.28	7/8	1/2	5/16	13	4450
3/8	.35	.33	1	5/8	3/8	20	6850
1/2	.40	.38	1 1/4	7/8	1/2	30	8800
5/8	.50	.46	1 1/2	3/4	1/2	50	13250
3/4	.60	.56	1 5/8	7/8	5/8	70	17300
7/8	.90	.82	2	1 1/8	3/4	130	29000
1	1.30	1.20	2 1/8	1 1/4	7/8	220	39200
1 1/8	1.70	1.50	2 7/8	1 1/2	1	300	53000
1 1/4	2.20	1.90	3 1/4	1 5/8	1 1/8	470	64600
1 1/2	3.20	2.80	3 1/2	1 7/8	1 1/4	670	76000
1 3/4	4.00	3.50	3 5/8	2	1 3/8	800	95000
1 7/8	5.00	4.40	4 1/2	2 1/4	1 1/2	1200	116000
2	6.50	5.80	5	2 3/8	1 5/8	1400	138000
2 1/4	10.00	8.75	5 7/8	2 7/8	2	2600	212000
2 1/2	15.00	13.00	6 3/4	3 3/8	2 1/4	3600	256000
3	60.00	56.00	8 1/4	4 1/8	2 3/4	6000	381000

Wire Rope Thimbles

GALVANIZED FORGED STEEL



Fig. 466

For Size Rope Inches	Galvanized Per 100	Length Overall Inches	Width Inside Inches	Weight Per 100 in Lbs.
1/8	\$4.40	1 3/8	5/8	2
1/4	4.40	1 5/8	5/8	2 1/2
3/8	4.40	1 7/8	3/4	4
1/2	5.25	2 1/8	7/8	5
5/8	6.00	2 1/2	1	9 1/4
3/4	7.00	2 7/8	1 1/8	12 1/4
7/8	8.00	2 7/8	1 1/8	18 1/2
1	11.00	3 1/4	1 3/8	30
1 1/4	13.00	3 3/4	1 1/2	40
1 1/2	16.00	4 1/2	1 3/4	57
1 3/4	21.00	5	2	90
2	38.00	5 3/8	2 1/4	114
	44.00	5 3/4	2 1/2	124
	120.00	6 1/4	2 5/8	181
	160.00	7 1/8	2 3/4	312
	200.00	7 1/2	2 7/8	465

Manila Rope Thimbles

GALVANIZED DROP FORGED STEEL



Fig. 468

For Dia. Rope Inches	Galvanized Per 100	I. D. Hole	O. D. Edge to Edge	Weight Per 100 in Lbs.
3/8	\$ 5.00	3/8	3/4	1 1/2
1/2	5.00	1/2	7/8	2 1/4
5/8	6.00	5/8	1	4
3/4	8.00	3/4	1 1/4	5 3/4
7/8	10.00	13/16	1 1/2	14 1/2
1	12.00	1 1/8	1 3/4	18
1 1/8	15.00	1 1/4	2	24
1 1/4	18.00	1 1/2	2 1/4	35
1 1/2	20.00	1 3/8	2 1/2	44
1 3/4	30.00	1 1/2	2 3/4	55
2	40.00	1 3/4	3	70
	50.00	2	3 1/2	120
	100.00	2 3/8	4	200
	200.00	2 3/4	5	300

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	\$ 8.00	8 1/2	7/8	\$ 50.00	149
1/4	8.00	16 1/2	1	60.00	190
3/8	9.00		1 1/8	95.00	310
1/2	12.00	25	1 1/4	112.00	375
5/8	15.50	32	1 3/8	130.00	560
3/4	18.50	40	1 1/2	150.00	645
	24.50	62	1 3/4	415.00	1085
	35.00	101	2	550.00	1620

Sail Thimbles

GALVANIZED MALLEABLE IRON



Light—Fig. 469
Heavy—Fig. 475

*Size Inches	Weight Per Doz. in Pounds		Diam. Rope Inches	I. D. Hole Inches	Fig. 469	Fig. 475
	Fig. 469 Per Dozen	Fig. 475 Per Dozen				
3/4	\$.45		1/4	1/2	1/4	
1	.60		5/16	3/8	3/8	
1 1/4	.80		3/8	3/4	3/8	
1 1/2	1.00		7/16	7/8	7/8	
1 3/4	1.25	\$1.50	1/2	1 3/8	1 1/8	1 1/2
2	1.50	2.00	5/8	1 1/2	1 1/2	2
2 1/4	1.85	2.50	3/8	1 5/8	2	2 7/8
2 1/2	2.25	3.00	3/4	1 3/4	2 3/4	4
2 3/4	2.50	3.50	3/4	2	3	4 3/4
3	3.00	4.00	7/8	2 1/8	6	6
3 1/2		5.00	1	2 1/2	7 3/4	7 3/4
4		6.00	1 1/8	3	10 3/4	10 3/4
4 1/2		10.00	1 1/4	3 1/4	17 1/4	17 1/4
5		15.00	1 1/2	3 3/8	21 1/4	21 1/4

*Size is from edge to edge across hole.

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	\$.12	\$.17	3/4	1 3/8	1 3/4
1/4	.15	.20	3/4	1 3/4	2
3/8	.20	.25	1	1 3/4	3
1/2	.25	.35	1	2	3 1/2
5/8	.30	.50	1 1/8	2 1/4	5



OPEN TURNBUCKLES
 DROP FORGED STEEL
 GALVANIZED AND SELF COLORED

HOOK AND EYE

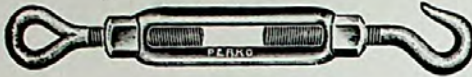


Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK



Fig. 392

JAW AND EYE



Fig. 393

JAW AND JAW

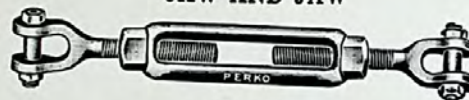


Fig. 394

All Turnbuckles Have Right and Left Hand Threads.
 All Turnbuckle Jaws $\frac{3}{4}$ and Smaller Have Hex. Head Bolt and Nut.
 All Turnbuckle Jaws $\frac{3}{4}$ and Larger Have Pin and Cotter.
 $\frac{3}{4}$ and Larger Furnished with Bolt and Nut To Order.

Diameter & Takeup	Eye & Eye Hook & Hook		Jaw & Eye		Jaw & Jaw		Diameter & Takeup	Eye & Eye Hook & Hook		Jaw & Eye		Jaw & Jaw	
	Galv. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each		Galv. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each
• $\frac{1}{4}$ x 4	.40	.36	.50	.45	.60	.55							
• $\frac{1}{8}$ x 4 1/2	.50	.44	.62	.54	.74	.66							
• $\frac{3}{8}$ x 6	.60	.52	.74	.64	.88	.78							
• $\frac{1}{2}$ x 6	.90	.80	1.10	.95	1.30	1.15							
9	1.45	1.20	1.70	1.40	1.90	1.55	* $1\frac{1}{4}$ x 12	7.25	6.00	9.00	7.50	11.00	9.00
12	1.70	1.40	2.00	1.60	2.30	1.85	18	9.00	7.50	11.00	9.00	13.00	10.50
• $\frac{3}{8}$ x 6	1.15	.95	1.30	1.10	1.50	1.25	24	11.50	9.50	13.00	11.00	15.00	12.50
9	1.75	1.45	2.00	1.70	2.30	1.90	36	16.00	13.00	17.00	14.00	18.00	15.00
12	2.10	1.70	2.40	2.00	2.70	2.20							
18	2.60	2.20	3.10	2.60	3.50	2.90	• $1\frac{1}{2}$ x 12	11.00	9.00	13.00	10.50	15.00	12.00
• $\frac{3}{4}$ x 6	1.50	1.25	1.75	1.45	2.00	1.65	18	13.50	11.00	15.75	13.00	18.00	15.00
9	2.30	1.90	2.70	2.20	3.00	2.50	24	17.00	14.00	20.00	16.50	23.00	19.00
12	2.70	2.20	3.10	2.60	3.50	2.90	36	22.00	18.00	26.00	21.00	30.00	24.00
18	3.60	3.00	4.20	3.50	4.70	3.90	48	28.00	23.00	33.00	27.00	38.00	30.00
24	4.20	3.50	4.90	4.10	5.50	4.60							
• $\frac{7}{8}$ x 12	3.40	2.80	3.90	3.20	4.50	3.70	* $1\frac{3}{4}$ x 18	22.00	18.00	28.00	22.50	33.00	27.00
18	4.30	3.60	5.00	4.20	5.75	4.70	24	28.00	23.00	34.00	28.00	39.00	32.00
24	5.25	4.40	6.25	5.10	7.00	5.75	36	36.00	30.00	42.00	35.00	48.00	39.00
• 1 x 12	4.20	3.50	4.80	4.00	5.50	4.60	48	47.00	38.00	55.00	44.00	62.00	50.00
18	5.50	4.50	6.50	5.25	7.25	6.00	• 2 x 24	42.00	35.00	50.00	41.00	58.00	47.00
24	6.75	5.50	8.00	6.50	8.75	7.25	36	50.00	40.00	59.00	48.00	68.00	55.00
36	8.50	7.00	10.00	8.25	11.50	9.25	48	62.00	50.00	74.00	60.00	85.00	70.00
• $1\frac{1}{8}$ x 12	5.25	4.20											
18	6.75	5.50											
24	8.25	6.75											
36	10.50	8.50											

LARGER SIZES—PRICE ON APPLICATION

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List.

*Indicates standard marine lengths.



Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL WITH LOCK NUTS



Eye and Eye Fig. 381



Jaw and Eye Fig. 398



Jaw and Jaw Fig. 382

Diam. Thread Inches	Eye and Eye Each	Jaw and Eye Each	Jaw and Jaw Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4	\$.85	\$.95	\$1.05	5 1/2	47 1/2
5/16	1.00	1.10	1.20	5 3/4	62 1/2
3/8	1.15	1.25	1.35	6 1/2	102
1/2	1.55	1.75	1.95	8	178
5/8	2.20	2.45	2.70	10 3/4	369
3/4	3.00	3.35	3.70	12	500
7/8	4.00	4.50	5.00	15	775
1	5.00	5.60	6.20	15	1025
1 1/4	8.00	9.00	10.00	16	2050
1 1/2	15.00	16.50	18.00	21	3200
1 3/4	25.00	28.00	31.00	21	4500
2	40.00	43.00	47.00	24	7500
2 1/2	80.00	90.00	100.00	30	15000

Sizes larger than 1 1/4 inches are furnished in the round type.

Jaws 5/8 and smaller have hex. head bolt and nut.

Jaws 3/4 and larger have pin and cotter, furnished with bolt and nut to order.

Swivels

WELDLESS DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Weight Per 100 in Pounds	Est. Ut. T. S. Tons
1/4	\$.75	3 1/4	3/4	19	2 1/2
5/16	.90	4	1	33	4 1/4
3/8	1.00	4 7/8	1 1/8	53	5 1/2
1/2	1.50	6 1/4	1 3/8	133	9 1/2
5/8	2.50	7 7/8	1 5/8	275	14 3/4
3/4	3.50	9 3/8	1 7/8	456	18 1/2
7/8	4.50	10 3/8	2 1/8	671	22 1/4
1	5.50	12	2 3/8	1000	27 1/2
1 1/4	11.00	14 3/4	3	1810	37 1/2

Deduct 10% for Self Colored Finish.

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	\$1.00	3	1/2	3/4	16
5/16	1.15	3 3/4	1/2	1	27
3/8	1.25	4 3/4	5/8	1 1/8	60
1/2	2.00	6	7/8	1 3/8	125
5/8	2.80	7 1/4	1	1 5/8	225
3/4	3.90	8	1 1/8	1 7/8	400
7/8	5.00	10	1 3/8	2 1/8	550
1	6.00	11 1/2	1 5/8	2 3/8	925
1 1/4	12.00	14	2	2 7/8	1525

Deduct 10% for Self Colored Finish.

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

Swivels

GALVANIZED MALLEABLE IRON

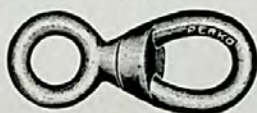


Fig. 624

No.	Each	Size Inches	I. D. Eye Inches	Inside Width Swivel Inches	Overall Length Inches	Weight Per 100 in Lbs.
1	\$.05	5/16	1/8	3/8	1 3/4	4
2	.09	1/4	3/8	1/2	2 1/8	7 1/2
3	.14	1/4	1/2	1/2	2 1/2	10
4	.20	5/16	1/2	5/8	3 1/4	19 1/2
5	.25	3/8	5/8	3/4	3 1/2	24 1/2
6	.40	1/2	3/4	1	4 3/8	41

Jaw and Jaw Swivels

DROP FORGED STEEL



Fig. 481

Size Inches	Galv. Each	Overall Length Inches	Dimensions of Jaws Inside		Est. Wt. Each in Lbs.
			Width Inches	Length Inches	
3/8	\$1.40	4 3/4	1 1/8	5/8	1
1/2	2.25	6 1/8	1 3/8	3/4	1 3/4
5/8	3.00	7 1/2	1 7/8	1	3
3/4	4.25	8 3/8	1 7/8	1 3/8	5

For Self Colored Finish, Deduct 10%

Galvanized Screw Eye Bolts

DROP FORGED STEEL—LARGE EYE



Without Shoulder—Fig. 500



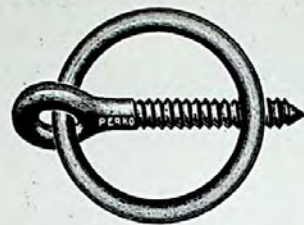
With Shoulder—Fig. 501

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.10	1/2	6
5/16 x 2 1/4	.12	5/8	12 3/4
3/8 x 2 1/2	.14	3/4	17
1/2 x 3 1/4	.20	1	43
5/8 x 4	.35	1 1/4	92
3/4 x 4 1/2	.60	1 1/2	146
7/8 x 5	.85	1 3/4	221
1 x 6	1.25	2	325
1 1/4 x 8	2.25	2 1/2	575

Sizes are: 1st, Diameter Shank; 2nd, Length Shank.

Galvanized Screw Ring Bolts

DROP FORGED STEEL



Without shoulder—Fig. 618

With shoulder—Fig. 619

Size Inches	Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.25	1 3/4	14
5/16 x 2 1/4	.30	2	25
3/8 x 2 1/2	.35	2	40
1/2 x 3 1/4	.50	2 1/2	90
5/8 x 4	.85	2 3/4	167
3/4 x 4 1/2	1.35	3	254
7/8 x 5	2.00	3 1/4	408
1 x 6	2.90	3 3/4	596
1 1/4 x 8	5.75	5	1125

Galvanized Nut Ring Bolts

DROP FORGED STEEL

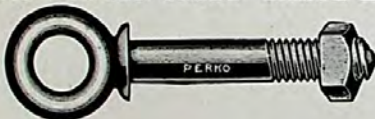


Without shoulder—Fig. 620

With shoulder—Fig. 621

Galvanized Nut Eye Bolts

DROP FORGED STEEL—LARGE EYE



Without Shoulder—Fig. 522

With Shoulder—Fig. 523

Size Inches	Galvanized Each	Inside Diam. Eye Inches	Weight Per 100 in Pounds
1/4 x 2	\$.14	1/2	7
1/4 x 4	.20	1/2	10
5/16 x 2 1/4	.16	5/8	11
5/16 x 4 1/4	.24	5/8	16
3/8 x 2 1/2	.18	3/4	20
3/8 x 4 1/2	.28	3/4	27
1/2 x 3 1/4	.25	1	44
1/2 x 6	.40	1	56
5/8 x 4	.45	1 1/4	86
5/8 x 6	.60	1 1/4	104
3/4 x 4 1/2	.70	1 1/2	124
3/4 x 6	.95	1 1/2	150
7/8 x 5	1.00	1 3/4	270
7/8 x 8	1.35	1 3/4	323
1 x 6	1.50	2	329
1 x 9	1.90	2	398
1 1/4 x 8	2.50	2 1/2	688
1 1/4 x 11	3.25	2 1/2	835

Sizes are: 1st, diameter shank; 2nd, length shank.

Size Inches	Galvanized Each	Inside Diam. Ring Inches	Weight Per 100 in Pounds
1/4 x 2	\$.30	1 3/4	15
1/4 x 4	.35	1 3/4	18
5/16 x 2 1/4	.35	2	27
5/16 x 4 1/4	.40	2	32
3/8 x 2 1/2	.40	2	44
3/8 x 4 1/2	.50	2	51
1/2 x 3 1/4	.55	2 1/2	97
1/2 x 6	.70	2 1/2	109
5/8 x 4	.85	2 3/4	178
5/8 x 6	1.00	2 3/4	196
3/4 x 4 1/2	1.35	3	271
3/4 x 6	1.60	3	297
7/8 x 5	2.00	3 1/4	491
7/8 x 8	2.35	3 1/4	544
1 x 6	2.90	3 3/4	659
1 x 9	3.30	3 3/4	728
1 1/4 x 8	5.75	5	1375
1 1/4 x 11	6.50	5	1522

Sizes are: 1st, diameter shank; 2nd, length shank.

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

Galvanized 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.
1/4	\$.15	2 1/8	5/8	3/8	5
3/8	.15	2 1/2	3/4	1/2	9
1/2	.18	2 7/8	1 1/8	5/8	14
5/8	.20	3 3/8	3 3/8	1 1/8	28
3/4	.35	4 1/8	1 1/4	1 1/8	50
7/8	.45	5 3/8	1 1/2	1 1/8	90
1	.60	6 1/2	1 5/8	1 1/4	148
	.75	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.
1/4	\$.22	2 1/8	1/8	7
3/8	.22	2 1/2	1/4	12 1/2
1/2	.25	2 7/8	3/8	19
5/8	.30	3 3/8	1/2	36
3/4	.50	4 1/8	5/8	62
7/8	.60	5 3/8	1	102
1	.80	6 1/2	1 1/8	170
	1.00	7	1 1/4	250

Deduct 5% for Self Colored Finish.

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	\$.95	3 1/2	3/4
3/8	1.10	4	1
1/2	1.20	4 3/4	2 1/8
5/8	1.20	5 1/8	4 3/4

Connecting Links

DROP FORGED STEEL

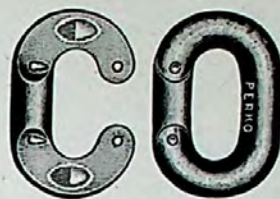


Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
3/8	\$1.50	\$1.15	1 1/8 x 3/4	3 1/2
1/4	1.50	1.15	1 1/2 x 1	3 1/4
3/8	1.65	1.20	1 3/4 x 1 1/8	1 3/8
1/2	2.00	1.50	2 1/8 x 1 3/8	2 1/8
5/8	2.40	1.80	2 3/8 x 1 1/2	3 1/8
3/4	2.90	2.00	2 5/8 x 1 3/4	4 1/2
7/8	3.90	2.70	2 3/4 x 2	6
1	4.50	3.20	3 3/8 x 2 1/8	8
1 1/8	6.00	4.50	3 7/8 x 2 1/2	14 1/4
1 1/4	9.25	6.75	4 1/2 x 3	22
1 1/2	14.00	11.00	5 x 3 3/8	32
1 3/4	16.50	13.50	5 5/8 x 3 3/4	40
1 7/8	21.50	17.50	6 1/8 x 4 1/4	57
2	27.00	24.50	6 3/4 x 4 3/4	75
2 1/8	34.00	30.00	7 1/4 x 5 1/8	103
2 1/4	41.00	37.00	8 x 5 1/2	131
2 1/2	92.00	59.00	9 7/8 x 6 1/2	216

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
3/8	\$.40	1 x 1 1/2	3/8	\$1.35	1 1/8 x 1 1/8
1/4	.47	1 1/2 x 1/2	1/2	1.85	2 x 7/8
5/8	.94	1 1/2 x 7/8	1/2	2.10	2 x 1

"S" Hooks

GALVANIZED WROUGHT STEEL



Fig. 680

Size Inches	Per Dozen	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/8	\$.36	1 1/2	1/4
1/4	.48	2	1/2
3/8	.96	2 1/2	1
1/2	1.20	3	1 3/4
5/8	1.80	3 3/4	2 3/4
3/4	2.40	3 3/4	4



Jib Snaps

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 765

Size No.	Galv. Each	Plain Brass Each	Polished Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 in Lbs.
0	\$.25	\$.35	\$.55	1 3/8	1/4	4 3/8
1	.30	.40	.60	2	3/8	10
2	.35	.50	.75	2 3/8	3/8	12 1/2
3	.40			2 1/4	1/2	21
4	.45			3	5/8	23 3/4

Fast Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 612

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Dia. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$.25	\$.35	\$.55	3/8	2	5
1	.30	.40	.60	3/8	2 3/4	10
2	.35	.50	.75	3/4	3 1/4	13 1/2
3	.40	.65	1.00	3/4	3 3/8	26 1/4
4	.45			1	4 1/8	27 1/2
5	.50			1 1/8	4 7/8	43 3/4
6	.60			1 1/4	5 1/4	56 1/4

Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND 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	\$.50	\$.60	\$.75	5/8	3 1/4	11
2	.60	.70	.85	3/4	3 1/4	16 1/4
3	.75	.90	1.25	7/8	4 3/4	32
4	.90			1	5 1/4	37
5	1.10			1 1/8	6	60

Baby Snaps

GALVANIZED AND POLISHED BRASS WITH FAST EYE



Fig. 842

Diam. of Eye Inches	Galvanized Each	Polished Brass Each	Length Inches
3/8	\$.07	\$.18	1 3/8

Baby Snaps

WITH OBLONG EYE—ELECTRO GALVANIZED



Fig. 1041

Size of eye Inches
1/8 x 1/4

Galvanized Each
\$.07

Length Inches
1 3/4

Baby Snaps

WITH SWIVEL EYE
ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1042

Diam. of eye Inches
3/8

Galvanized Each
\$.12

Polished brass Each
\$.20

Length Inches
2

Swivel Eye Snap

MALLEABLE IRON AND BRONZE



Fig. 659

Cadmium Plated Each
\$.45

Plain Bronze Each
\$.70

Extreme Length Inches
3 1/2

Inside Eye Inches
3/4

Inside Hook Inches
3/8

Weight Ounces
2

Solid Brass Rings

POLISHED



Fig. 417

Thickness Inches	Inside Diam. Inches	Per Dozen	Thickness Inches	Inside Diam. Inches	Per Dozen
1/8	1/2	\$.60	1/4	1 3/4	\$3.00
1/8	3/8	.60	1/4	2	3.25
1/8	3/4	.70	1/4	2 1/4	3.75
1/8	7/8	.85	1/4	2 1/2	4.00
1/8	1	1.00	1/8	1 3/4	4.50
1/8	1 1/8	1.20	1/8	2	4.80
1/8	1 1/4	1.35	1/8	2 1/4	5.20
1/8	1 1/4	1.50	1/8	2 1/2	5.70
1/8	1 1/2	2.00	1/8	2 3/4	6.00
1/4	1 1/2	2.50	1/8	3	6.50

Pick-Up Buoy

FLAT TOP



Heavy galvanized iron, double seamed and soldered.

Wrought iron handle riveted to body, large eye on bottom and rope thimble. Every buoy fully tested before it leaves our factory.

Measurements do not include handle or eye.

No.	Each	Size Inches	Weight Pounds
1	\$4.75	9x14	4
2	5.50	12x18	5

Fig. 234

Cone Mooring Buoy

GALVANIZED

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized $\frac{3}{8}$ inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper, which is of heavy $1\frac{1}{2}$ inch outside diameter rubber hose.



Can also be furnished with welded eye bolts top and bottom non swivel—same prices.

Size Inches	With Bumper Each	Without Bumper Each
16 x 24	\$17.50	\$13.50
20 x 30	21.00	16.50
24 x 36	27.50	23.00
30 x 36	30.00	26.00

Size does not include swivel or eye.

Can also be furnished with $\frac{3}{8}$ inch diameter buoy rod and swivel—add to above prices \$3.50 each.

Fig. 370

Pick-Up Buoy

CONE TOP



Heavy galvanized iron, double seamed and soldered. Wrought iron handle riveted to body, large eye on bottom for rope.

Fully Tested

Measurements do not include handle or eye.

No.	Each	Size Inches	Weight Pounds
1	\$3.75	13x22	5
2	4.75	16x24	6 $\frac{1}{2}$

Fig. 235

Heavy Duty Mooring Buoy

RIVETED BODY—GALVANIZED



Extra heavy construction, all riveted. $\frac{3}{8}$ inch wrought iron buoy rod through center, eye on top, swivel on bottom, grooved to take heavy rubber bumper. Bumper is $1\frac{1}{2}$ inch outside diameter heavy hose, outlet in bottom for draining.

Size Inches	With Bumper Each	Without Bumper Each
24 x 36	\$38.00	\$33.00
30 x 36	42.00	38.00
36 x 42	50.00	46.00
40 x 48	57.00	52.00

Fig. 551

Measurements do not include swivel or eye.

Hold Fast Mooring Buoy

A heavy gauge galvanized sheet iron body, a $\frac{3}{8}$ inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$12.75	13	22
2	15.50	17	27

Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
33 $\frac{1}{2}$	3	15
38 $\frac{1}{2}$	3	24

Fig. 445

Junior Mooring Buoy

FOR RUNABOUTS AND ALL SMALL BOATS
GALVANIZED



Made of sheet steel with $\frac{1}{2}$ inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the rod.

Load capacity, half submerged, 25 lbs. Equal to 35 feet of $\frac{1}{4}$ inch chain.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$8.50	12	15

Fig. 318

Non-Fouling Kedge Anchors
GALVANIZED DROP FORGED STEEL

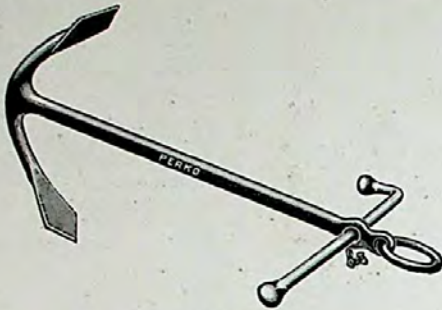


Fig. 236

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	Self Colored Each	Length Overall Inches	Width Across Flukes Inches
5	\$ 3.75	\$ 3.60	17	10
10	4.60	4.30	25	15
15	5.50	5.05	29	18
20	6.25	5.65	31	19
25	7.00	6.25	35	20
30	8.00	7.10	36½	22
35	8.90	7.85	40	22
42	10.50	9.25	40	22
50	12.50	11.00	43	24½
60	15.00	13.20	44½	27½
75	18.75	16.50	46	28
100	25.00	22.00	50	32
125	31.25	27.50	57	32
150	37.50	33.00	59	34½
200	50.00	44.00	65	34½
250	70.00	62.50	62½	43½

Navy Type Anchors
DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Each	Weight Pounds	Each
5	\$1.50	50	\$ 9.50
10	2.30	60	11.00
15	3.00	80	15.00
20	3.75	100	18.50
25	4.75	125	23.00
30	5.50	150	27.50
35	6.50	200	37.00
40	7.50		

Grappels
GALVANIZED HAND FORGED STEEL
FIVE PRONG

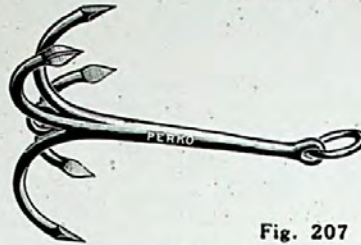


Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$2.90	20	\$ 7.00
7	3.25	25	12.50
10	3.65	30	15.00
15	5.25		

Navy standard type per specifications 6G1 to order—Price on application.

Larger sizes—prices on application.

Fishing Anchors
FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$.90	\$1.10	6	8
11	1.30	1.65	7	9
15	1.80	2.25	8	10

Swivel Anchors
GALVANIZED



Fig. 174

Weight Pounds	Each	Weight Pounds	Each
5	\$1.50	50	\$ 9.50
10	2.30	60	11.00
15	3.00	80	15.00
20	3.75	100	18.50
25	4.75	125	23.00
30	5.50	150	27.50
35	6.50	200	37.00
40	7.50		

Government Tolerance in Weight, Plus or Minus 5%

"Danforth" Anchors

GALVANIZED STEEL—MARK II
NON-FOULING—NON-FOLDING



Fig. 700

20 to 70 times the holding power of conventional stockless anchors, 10 to 40 times the holding power of kedge type anchors.

Used extensively by U. S. Government on Army and Navy ships and seaplanes.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
8	18 7/8	\$ 7.00	55	43	\$32.00
17	26 1/2	12.00	75	49	38.00
30	35	17.00	100	50	48.00
43	39	25.00			

Larger sizes—Price on application.

The following tables suggest the size of "Danforth" anchor to be used on boats of average design under average conditions:

Length of Boat	Sailboats			Motor Boats		
	A	B	C	A	B	C
20 ft.	8 lbs.	17 lbs.	30 lbs.	8 lbs.	17 lbs.	30 lbs.
30 ft.	17 lbs.	30 lbs.	43 lbs.	17 lbs.	30 lbs.	30 lbs.
40 ft.	30 lbs.	43 lbs.	55 lbs.	30 lbs.	30 lbs.	43 lbs.
50 ft.	30 lbs.	55 lbs.	75 lbs.	30 lbs.	43 lbs.	55 lbs.
60 ft.	43 lbs.	55 lbs.	75 lbs.	30 lbs.	43 lbs.	75 lbs.
70 ft.	55 lbs.	75 lbs.	100 lbs.	43 lbs.	55 lbs.	75 lbs.

A—For normal holding ground, such as clay or sand, under average weather conditions.

B—For poor holding ground such as deep soft mud or in anchorages with normal holding ground exposed to heavy seas.

C—Weight as a storm anchor in poor holding ground.

Folding Anchors

GALVANIZED MALLEABLE IRON

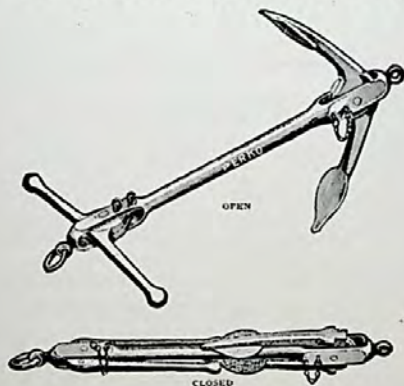


Fig. 226

Weight Pounds	Each	Length Inches	Weight Pounds	Each	Length Inches
6	\$ 2.85	19	30	\$12.80	34
8	3.85	22	35	15.00	36
10	4.80	23	45	19.00	38
12	5.60	25	55	23.00	41
15	6.80	28	76	31.00	44
20	8.80	30			
25	10.80	33			

Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED
NORTHILL HOLDING POWER AT LOW PRICE

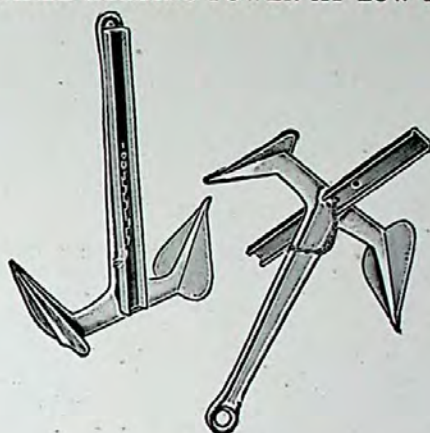


Fig. 1067

Has removable stock for compact stowage. These anchors have tremendous structural strength and the same proven scientific advantages as the original Northhill folding anchors.

Type No.	Galv. Each	Weight Pounds	Com- parative Weight Kedge Type Pounds	Com- parative Weight Navy Type Pounds
6-R	\$10.50	13	65	180
12-R	18.50	25	130	360
20-R	28.50	47	200	725

Mushroom Anchors

STEEL SHANK RIVETED THROUGH HEAD



Fig. 142

All sizes have eye in shank for shackle. Price does not include ring illustrated.

Small sizes are furnished with mud holes.

Weight Pounds	Self Colored Each	Weight Pounds	Self Colored Each
5		100	
8		125	
10		150	
15	Prices on application	200	Prices on application
20		250	
25		300	
35		350	
50		400	
75		450	
		500	

Flexible Wire Tiller Rope

GALVANIZED OR BRONZE

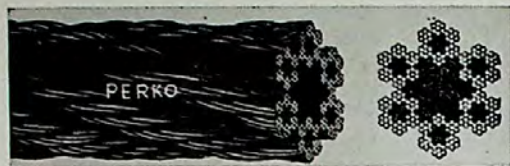


Fig. 760

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 Foot	Bronze Per Foot
1/8	\$.03	\$.06
3/8	.12	.15
1/4	.13	.17
5/8	.14	.20
3/8	.15	.28
1/2	.20	.40

1/8 inch size is constructed the same as Fig. 759 rigging.

Galvanized Iron Rigging FOR GUY ROPES



Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

Diam. Inches	Circumference Inches	Per Foot
1/8	3/8	\$.03
3/8	1/2	.04
1/4	3/4	.05
5/8	1	.06
3/8	1 1/8	.08

Assorted Brass Pins

FOR BLOCK SHACKLES, TURNBUCKLES, ETC.

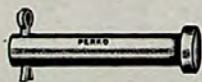


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type
1	\$.15	1/8	1	1/4	Flat
2	.15	1/4	3/4	1/8	Flat
3	.17	1/4	1 1/8	1/8	Flat
4	.18	1/8	7/8	3/8	Flat
5	.20	1/8	1 1/2	3/8	Flat
6	.22	3/8	1 1/2	1/2	Flat
7	.22	3/8	1 1/8	1/8	Flat
8	.24	3/8	1 1/8	1/2	Round
9	.24	3/8	1 1/4	1/2	Round
10	.28	3/8	1 3/4	1/8	Flat
11	.30	1/8	1	1/2	Flat
12	.35	1/8	2 3/8	5/8	Flat
13	.35	1/2	1 1/8	5/8	Flat
14	.38	1/2	1 1/4	5/8	Flat
15	.40	1/2	1 1/2	5/8	Flat
16	.40	3/8	1 3/8	3/4	Flat
17	.42	3/8	1 5/8	3/4	Round

Braided Tiller Rope

WITH BRONZE CENTER



Fig. 761

Diam. Inches	Per Foot
1/8	\$.05
1/4	.06
5/8	.08
3/8	.11

All above rigging and tiller rope can be furnished in 250 and 500 foot reels.

Assorted Sheaves

GALVANIZED IRON AND BRONZE COMMON BUSHED—FOR MANILA ROPE



Fig. 154

No.	Each	GALVANIZED			
		Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
1	\$.12	3/4	1/8	1/8	1/8
2	.15	1	3/8	1/4	1/8
3	.18	1 1/4	3/8	1/8	1/8
4	.20	1 1/2	1/2	3/8	1/8
5	.25	1 3/4	1/8	1/8	1/4
6	.30	2	3/8	1/2	1/4
7	.35	2 1/2	3/4	3/8	1/8
8	.40	3	1/8	3/4	1/8
BRONZE					
9	.18	3/4	1/8	1/4	3/8
10	.20	3/4	3/8	1/4	1/8
11	.22	3/4	1/8	1/8	1/4
12	.25	7/8	1/8	3/8	1/8
13	.26	1	1/8	3/8	1/4
14	.30	1 1/8	1/8	1/8	1/4
15	.35	1 1/8	3/8	1/2	3/8
16	.35	1 1/4	1/8	1/8	3/8
17	.37	1 3/8	1/2	3/8	1/8
18	.40	1 3/4	1/8	1/8	1/4
19	.45	1 7/8	3/8	1/8	3/8
20	.55	2 1/4	1/2	3/8	3/8
21	3.50	6	1/8	3/8	3/4

Manila Rope Sheaves

GALVANIZED—COMMON BUSHED



Fig. 807

No.	Galv. Each	Size Sheave Inches	Size Block Inches
1	\$.25	1 3/4 x 1/2 x 3/8	3
2	.30	2 x 1/2 x 3/8	3 1/2
3	.35	2 1/4 x 3/8 x 3/8	4
4	.40	2 1/2 x 3/4 x 3/8	4 1/2
5	.50	3 x 3/4 x 3/8	5
6	.75	3 1/2 x 1 x 1/2	6
7	.90	4 1/4 x 1 x 1/2	7
8	1.25	4 3/4 x 1 1/8 x 5/8	8
9	1.60	5 1/2 x 1 1/8 x 5/8	9
10	2.10	6 1/4 x 1 1/4 x 5/8	10

Tiller Rope Pulley

SWIVEL EYE AND STRAP
CAST BRONZE—PLAIN



Fig. 585

Plain Bronze Each	For Rope Diam. Inches	Length Overall Inches	Diam. Wheel Inches	Length Strap Inches	Weight Ounces
1.15	$\frac{1}{2}$	$3\frac{1}{2}$	$1\frac{3}{4}$	2	6

Tiller Rope Guides

SIDE PATTERN—CAST BRONZE

Cast bronze base, brass wheel turned from rod.



Fig. 594

For Rope Diam. Inches	Size Base Inches	Weight Oz.
$\frac{1}{2}$	$\frac{3}{4} \times 1\frac{1}{4}$	1 $\frac{1}{2}$
Polished Bronze Each		Chromium Plated Each
\$.70		\$1.25

Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE

Round Plate



Fig. 102

Size No.	For Diam. Rope Inches	Diameter Base Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	$\frac{1}{4}$	$1\frac{3}{8}$	\$.20	\$.65	\$1.80
2	$\frac{1}{2}$	$1\frac{1}{2}$	.30	.75	1.90
3	$\frac{3}{8}$	$1\frac{3}{4}$	.40	.90	2.10

Tiller Rope Pulley

WITH STRAP—CAST BRONZE



Fig. 579

For Rope Diam. Inches	Length Pulley Inches	Size Wheel Inches	Length Strap Inches	Weight Ounces	Chromium Plated Each
$\frac{1}{2}$	$1\frac{7}{8}$	$1 \times \frac{1}{2}$	$1\frac{7}{8}$	$3\frac{1}{2}$	\$1.60
Polished Bronze Each					\$.75

Tiller Rope Guides

CAST BRONZE



Fig. 359

No.	Size Hole Inches	Size Base Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	$\frac{3}{8}$	$1\frac{1}{8} \times \frac{3}{4}$	\$.20	\$.35	\$.85
2	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{5}{8}$	.25	.40	.90
3	$\frac{3}{8}$	$1\frac{3}{4} \times 1\frac{1}{4}$	.30	.45	1.05

No. 1 size is drop forged bronze.

Tiller Rope Guides

UPRIGHT PATTERN—CAST BRONZE



Fig. 593

Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Base Inches	Weight Ounces
\$.75	\$1.25	$\frac{1}{2}$	$\frac{3}{8} \times 1\frac{1}{2}$	2

Tiller Rope Guides

GALVANIZED CAST IRON OR BRONZE
OVAL PLATE



Fig. 599

Size No.	Size Hole Inches	Size Base Inches	Galv. Iron Each	Plain Bronze Each	Pol. Bronze Each	Chromium Plated Each
1	$\frac{3}{8}$	$1\frac{1}{8} \times \frac{7}{8}$	\$.12	\$.20	\$.35	\$.85
2	$\frac{1}{2}$	$1\frac{1}{2} \times \frac{5}{8}$	.14	.25	.40	.90
3	$\frac{3}{8}$	$1\frac{3}{4} \times 1\frac{1}{4}$	.18	.30	.45	1.05

No. 1 size is drop 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 Sheave Inches	Weight Each Pounds
1	\$.12	\$.25	\$.45	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{8}$
3	.18	.30	.55	$\frac{1}{4}$	1 x $\frac{3}{8}$	$\frac{1}{4}$
5	.28	.45	.75	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4}$
7	.35	.55	.90	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.50			$\frac{1}{2}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{1}{2}$
11	.70			$\frac{1}{2}$	2 x $\frac{3}{8}$	$\frac{1}{2}$
13	1.00			$\frac{3}{4}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{8}$
15	1.50			$\frac{3}{4}$	3 x $\frac{3}{8}$	$1\frac{3}{8}$

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 Diam. Inches	Weight Each Pounds
1	\$.65	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$
3	.70	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	.80	2	$\frac{1}{8}$	$\frac{1}{4}$
7	.90	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$
9	1.15	3	$\frac{1}{2}$	$\frac{3}{8}$
11	1.50	$3\frac{1}{4}$	$\frac{1}{2}$	1
13	2.00	4	$\frac{3}{8}$	$2\frac{1}{4}$
15	2.75	$4\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$

Fast Eye Blocks

GALVANIZED MALLEABLE IRON
DOUBLE

Without Becket



Fig. 51

With Becket



Fig. 55

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheave Inches	Weight Each Pounds
2	\$.20	\$.45	\$.65	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{8}$
4	.30	.60	.90	$\frac{1}{4}$	1 x $\frac{3}{8}$	$\frac{1}{4}$
6	.45	.80	1.20	$\frac{1}{8}$	$1\frac{1}{4} \times \frac{1}{8}$	$\frac{3}{8}$
8	.55	1.00	1.50	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
10	.80			$\frac{1}{2}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4}$
12	1.05			$\frac{1}{2}$	2 x $\frac{3}{8}$	$1\frac{1}{4}$
14	1.65			$\frac{3}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{8}$
16	2.50			$\frac{3}{4}$	3 x $\frac{3}{8}$	$2\frac{3}{4}$

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 Diam. Inches	Weight Each Pound
2	\$.75	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{4}$
4	.85	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
6	1.00	2	$\frac{1}{8}$	$\frac{1}{2}$
8	1.10	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
10	1.45	3	$\frac{1}{2}$	1
12	1.85	$3\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
14	2.65	4	$\frac{3}{8}$	$2\frac{1}{2}$
16	3.75	$4\frac{3}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON 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	$\frac{3}{16}$	1 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$
3	$\frac{1}{4}$	1 $\frac{3}{4}$	1	2
5	$\frac{5}{16}$	2	1 $\frac{1}{4}$	2 $\frac{7}{8}$
7	$\frac{3}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	4 $\frac{1}{8}$

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
0	\$.13	\$.45	\$.65
1	.15	.45	.65
3	.25	.50	.75
5	.35	.70	1.00
7	.50	.80	1.25

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	$\frac{3}{16}$	1 $\frac{1}{4}$	$\frac{3}{4}$	2 $\frac{1}{4}$
4	$\frac{1}{4}$	1 $\frac{3}{4}$	1	3 $\frac{3}{8}$
6	$\frac{5}{16}$	2	1 $\frac{1}{4}$	4 $\frac{1}{2}$
8	$\frac{3}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	7

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
00	\$.20	\$.55	\$.75
2	.25	.60	.80
4	.35	.80	1.10
6	.50	1.65	1.90
8	.70	.....	.....

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
\$9.75	$\frac{3}{8}$	6	9	5 $\frac{1}{2}$

UPRIGHT PATTERN

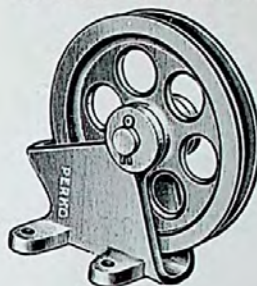


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches	Weight Pounds
\$9.75	$\frac{3}{8}$	6	7 $\frac{1}{2}$	5 $\frac{1}{2}$

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	\$.25	\$.60	$\frac{3}{4} \times 2$	$\frac{1}{4}$	1 $\frac{3}{8}$
2	.35	.70	$\frac{1}{8} \times 2$	$\frac{1}{8}$	2
3	.45	.90	1 x 3	$\frac{3}{8}$	3 $\frac{1}{4}$

Blocks on Plates

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 107

Size No.	Galv. Each	Plain Brass Each	Pol. Brass Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$.55	\$1.20	\$1.75	$\frac{1}{4}$	Swivel Eye	20
5	.65	1.40	2.00	$\frac{1}{8}$	Swivel Eye	35
7	1.00	1.60	2.35	$\frac{3}{8}$	Swivel Eye	66
9	1.10	.....	.....	$\frac{1}{2}$	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	\$.30	\$.20	\$.60	\$.90	$\frac{1}{4}$	$1\frac{1}{4} \times \frac{3}{8}$
1	.40	.25	.75	1.00	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.65	.50	1.10	1.75	$\frac{1}{2}$	$2 \times \frac{5}{8}$
5	1.20	.95	2.25	2.75	$\frac{3}{4}$	$2\frac{1}{2} \times \frac{3}{4}$
7	1.90	1.50	3.25	4.00	$\frac{3}{4}$	$3 \times \frac{1}{2}$

Cast iron furnished unless otherwise specified.

Deck Blocks

OPEN PATTERN
GALVANIZED IRON OR BRONZE
DOUBLE

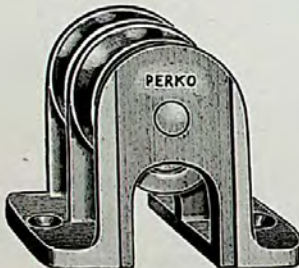


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$.70	\$.50	\$ 1.25	\$ 1.75	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
4	1.25	1.00	1.90	2.75	$\frac{1}{2}$	$2 \times \frac{3}{8}$
8	3.00	2.50			$\frac{3}{4}$	$3 \times \frac{1}{2}$

Cast iron furnished unless otherwise specified.

Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
SINGLE



Fig. 95

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$.30	\$.60	\$.85	$\frac{1}{4}$	$1 \times \frac{3}{8}$
1	.35	.75	1.00	$\frac{1}{4}$	$1\frac{3}{8} \times \frac{1}{4}$
2	.45	.85	1.25	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
3	.90	1.35	1.90	$\frac{1}{2}$	$2 \times \frac{3}{8}$
4	1.50	1.90	2.65	$\frac{3}{8}$	$2\frac{1}{2} \times \frac{3}{4}$
5	2.00			$\frac{3}{4}$	$3 \times \frac{1}{2}$
6	3.50			$\frac{1}{2}$	$3\frac{1}{2} \times 1$

Bell Chain Leaders

CAST BRONZE—PLAIN



Upright Type—Fig. 912

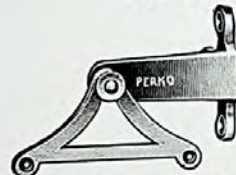


Flat Type—Fig. 913

Diam. Sheave Inches	Width of Groove Inches	Single Sheave Each	Double Sheave Each	Triple Sheave Each	Quadruple Sheave Each
2	$\frac{5}{16}$	\$ 1.20	\$ 1.80	\$ 2.50	\$ 3.20
$3\frac{1}{2}$	$\frac{1}{8}$	2.10	3.00	4.00	5.75

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	\$.85	\$.75	3
2	1.05	.85	$3\frac{1}{4}$
3	1.50	1.00	$3\frac{3}{4}$

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

Price Per Foot	Length of Links Inches	Thickness Overall Inches	Pitch Inches	Weight per Foot Ounces
\$.65	$\frac{3}{4}$	$\frac{1}{16}$	$\frac{3}{8}$	$3\frac{1}{2}$

Cheek Blocks

GALVANIZED MALLEABLE IRON OR BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
11	\$.75	\$ 1.20	\$ 1.60	$\frac{1}{4}$	$1\frac{3}{8} \times \frac{1}{4}$
12	1.10	1.75	2.00	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
13	1.65	2.60	3.25	$\frac{1}{2}$	$2 \times \frac{3}{8}$

Deck Blocks

FOR WIRE ROPE

GALVANIZED MALLEABLE IRON OR BRONZE

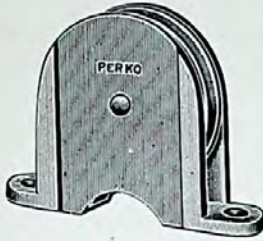


Fig. 139

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8}$ x $\frac{1}{8}$	$\frac{3}{8}$
2	1.10	2.25	3.00	$\frac{3}{8}$	3 x $\frac{1}{8}$	$1\frac{3}{8}$
3	2.00	4.00	5.25	$\frac{1}{2}$	4 x $\frac{5}{8}$	$2\frac{3}{4}$
3½	3.00			$\frac{1}{2}$	$4\frac{1}{2}$ x $\frac{3}{4}$	$4\frac{1}{4}$
4	3.50			$\frac{5}{8}$	5 x $\frac{3}{8}$	$5\frac{1}{4}$
5	5.25			$\frac{3}{4}$	6 x 1	11

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	\$.70	\$1.50	$\frac{1}{8}$	$2\frac{1}{2}$ x $\frac{3}{8}$	$\frac{1}{2}$
2	1.00	2.00	$\frac{1}{4}$	$3\frac{1}{4}$ x $\frac{1}{2}$	$1\frac{1}{4}$
3	2.00	3.00	$\frac{1}{2}$ - $\frac{3}{8}$	$4\frac{1}{2}$ x $\frac{1}{2}$	$2\frac{3}{8}$

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	\$.70	\$1.50	$\frac{1}{8}$	$2\frac{1}{2}$ x $\frac{3}{8}$	$\frac{3}{8}$
20	1.00	2.00	$\frac{1}{4}$	$3\frac{1}{4}$ x $\frac{1}{2}$	$1\frac{1}{2}$
30	2.00	3.00	$\frac{1}{2}$ - $\frac{3}{8}$	$4\frac{1}{2}$ x $\frac{1}{2}$	$2\frac{1}{2}$

Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON OR BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8}$ x $\frac{1}{8}$	$\frac{3}{8}$
2	.95	2.25	3.00	$\frac{3}{8}$	3 x $\frac{1}{8}$	$1\frac{3}{8}$
3	1.75	4.00	5.25	$\frac{1}{2}$	4 x $\frac{5}{8}$	$2\frac{3}{4}$
3½	2.25			$\frac{1}{2}$	$4\frac{1}{2}$ x $\frac{3}{4}$	$4\frac{1}{4}$
4	2.75			$\frac{5}{8}$	5 x $\frac{3}{8}$	$5\frac{1}{4}$
5	4.75			$\frac{3}{4}$	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	\$1.15	\$2.25	$\frac{1}{8}$	$2\frac{1}{2}$ x $\frac{3}{8}$	$1\frac{1}{8}$
12	1.75	3.00	$\frac{1}{4}$	$3\frac{1}{4}$ x $\frac{1}{2}$	2
13	3.25	4.25	$\frac{1}{2}$ - $\frac{3}{8}$	$4\frac{1}{2}$ x $\frac{1}{2}$	$4\frac{1}{4}$

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	\$1.15	\$2.25	$\frac{1}{8}$	$2\frac{1}{2}$ x $\frac{3}{8}$	$1\frac{1}{8}$
120	1.75	3.00	$\frac{1}{4}$	$3\frac{1}{4}$ x $\frac{1}{2}$	2
130	3.25	4.25	$\frac{1}{2}$ - $\frac{3}{8}$	$4\frac{1}{2}$ x $\frac{1}{2}$	$4\frac{1}{4}$

BRONZE BLOCKS FOR SAIL BOATS

DROP FORGED BRONZE SHELLS AND SHEAVES—PLAIN BUSHED—INTERCHANGEABLE FITTINGS

Drop forged bronze shells and sheaves give great tensile strength, light weight, free turning sheaves and fine smooth finish in plain or polished, free from sand holes or rough inside surfaces.

Block Only With Removable Screw Pin



Fig. 850

NO FITTINGS				For Diam. Rope Inches	Weight Ounces
Size No.	Plain Each	Polished Each	Length Overall Inches		
0	\$.85	\$.95	2 1/8	1/8	3 1/2
1	1.10	1.20	2 3/8	3/8	4 1/2
2	1.60	1.75	3 1/4	1/2	10

Upset Front Shackle Block

SINGLE ONLY



Fig. 852

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$1.50	\$1.65	\$.50	\$.65
1	1.80	2.00	.60	.75
2	2.50	2.75	.80	.95

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Front Shackle Block

SINGLE ONLY



Fig. 851

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$1.50	\$1.65	\$.50	\$.65
1	1.80	2.00	.60	.75
2	2.50	2.75	.80	.95

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Upset Side Shackle Block

SINGLE ONLY



Fig. 855

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$1.50	\$1.65	\$.50	\$.65
1	1.80	2.00	.60	.75
2	2.50	2.75	.80	.95

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Side Shackle Block

SINGLE ONLY



Fig. 854

Size No.	Complete		Shackle with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$1.50	\$1.65	\$.50	\$.65
1	1.80	2.00	.60	.75
2	2.50	2.75	.80	.95

For dimensions and other data, see Fig. 850.

For shackles only, see Fig. 893.

Swivel Deck Leader

SINGLE ONLY

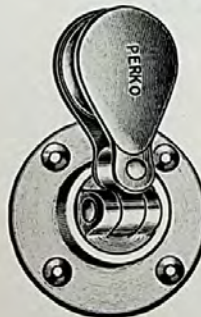


Fig. 864

Size No.	Complete		Base with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$2.60	\$2.90	\$1.75	\$1.95
1	3.15	3.50	2.05	2.30
2	4.00	4.50	2.40	2.75

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

Block With Eye Strap

SINGLE ONLY



Fig. 861

Size No.	Complete		Strap with Link	
	Plain Each	Polished Each	Plain Each	Polished Each
0	\$1.50	\$1.65	\$.55	\$.65
1	1.80	2.00	.60	.75
2	2.50	2.75	.80	.95

For dimensions and other data, see Fig. 850.

For straps only, see Fig. 881.

Lightweight Block

WITH FRONT SHACKLE SINGLE ONLY



Fig. 432

No.	Plain Each	Polished Each	Weight Ounces
0	\$1.00	\$1.50	3 1/2
1	1.25	1.80	4

With becket, add \$.25 each.

For dimensions, see Fig. 850.

For shackles only, see Fig. 893.

Bullet Blocks

FOR JIB SHEETS AND LEADERS
DROP FORGED BRONZE



Fig. 869

No.	Plain Each	Polished Each	For Rope Diam. Inches	Size Sheave Inches	Weight Ounces
0	\$.68	\$.75	$\frac{5}{16}$	$\frac{3}{4} \times \frac{1}{8}$	2
1	.80	.90	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	2½
2	1.05	1.15	$\frac{1}{2}$	$1\frac{1}{8} \times \frac{5}{8}$	5

Swivel Eye Bullet Blocks

DROP FORGED BRONZE



Fig. 934

With unique patented swivel arrangement, no wear on rope.

For jib sheets or halyards on small sail boats.

Plain Each	Polished Each	Length Shell Inches	Size Sheave Inches	For Diam. Rope Inches	Weight Ounces
\$.90	\$1.40	1¾	$\frac{3}{4} \times \frac{3}{8}$	$\frac{1}{2}$	2½

Jib Halyard Blocks on Strap

BRONZE



Fig. 899

No.	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
0	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	2½	3½
1	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	2½	4

No.	Plain Each	Polished Each
0	\$.80	\$1.25
1	1.00	1.50

Swivel Eye Block on Plate

BRONZE



Fig. 935

This is our swivel eye bullet block mounted on cast bronze plate for deck leads.

Plain Each	Polished Each	Length Plate Inches	Width Plate Inches	Weight Complete Ounces
\$1.25	\$2.10	2¼	$\frac{3}{4}$	3½

Centerboard Blocks

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 827

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Size Rope Inches	Size Sheave Inches
1	\$.80	\$1.50	\$2.00	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
2	1.50	2.50	3.00	$\frac{1}{2}$	$2 \times \frac{3}{8}$

Swivel Eye Block on Slide

BRONZE

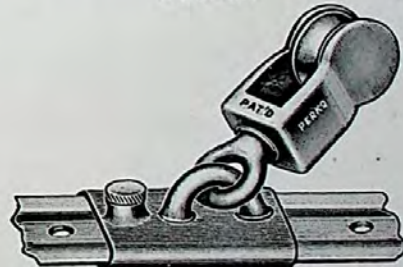


Fig. 936

Our swivel eye bullet block mounted on cast bronze slide for quick and easy adjustment of jib sheet lead.

Slide has large head thumb screw for fastening in position with fingers.

Furnished complete with 24 inches of $\frac{5}{8}$ inch nickel silver track.

Plain Each	Polished Each	Length Slide Inches	Width Slide Inches	Weight Complete Ounces
\$2.15	\$3.00	1¾	1	7½

Without track deduct \$.15 each.

Bronze Block Shackles

MANGANESE BRONZE



Fig. 893

No.	Size Inches	Plain Each	Polished Each
0	$\frac{1}{8}$	\$.35	\$.50
1	$\frac{1}{4}$	.40	.55
2	$\frac{1}{2}$	.50	.65
3	$\frac{3}{8}$	.80	1.00



Eye Plates

CAST BRONZE



Fig. 880

No	Plain Each	Polished Each	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches
1	\$.75	\$1.25	3 1/8	1 1/8 x 3/4	5/16
2	1.00	1.65	3 1/2	1 1/2 x 7/8	3/8
3	1.25	2.00	4 1/8	3/8 x 1 1/8	3/8

Halyard Fairleaders

POLISHED BRONZE



Fig. 580

Designed for main halyards on small boats this fitting has many other uses. Will not chafe rope.

Polished Each	Length Inches	Width Inches	For Diam. Rope Inches	Weight Ounces
\$.40	2 1/4	3/4	3/8	2 1/2

Eye Straps

DROP FORGED BRONZE



Fig. 881

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
0	\$.25	\$.35	2	5/16	3/16
1	.30	.45	2 1/4	3/8	1/4
2	.35	.50	2 3/4	1/2	5/16
3	.50	.70	3 1/8	3/8	1/4

Single Flare Lip Leaders

CAST BRONZE



Fig. 764

No.	Plain Each	Polished Each	Small Opening Inches	Weight Ounces
1	\$.25	\$.40	1/2	1 1/2
2	.40	.75	3/8	3

Deck Straps

CAST BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
1	\$.55	\$.70	3 1/2	1/2	1/4
2	.70	.80	4 1/4	5/8	3/8
3	.90	1.10	4 3/4	5/8	1/2

Double Flare Lip Leaders

CAST BRONZE



Fig. 889

No.	Plain Each	Polished Each	Opening Inches	Weight Ounces
0	\$.25	\$.50	3/8	3/4
1	.30	.60	1/2	1
2	.40	.75	3/8	1 3/4

Screw Eye on Plate

CAST BRONZE—POLISHED



Fig. 1035

Furnished with a flush plug to screw in place when eye is removed.

For all leader blocks and other items requiring easy removal from deck.

No	Each Complete	Inside Diam. Eye Inches	Diam. Thread Inches	Diam. Plate Inches	Weight Ounces
1	\$2.00	3/4	1/2	2 7/8	10
2	2.25	1	1/2	2 7/8	12 1/2

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 3/8 inch nickel silver track.

Plain Each	Polished Each	Length Inches	Size Eye Inches	Complete Weight Ounces
\$1.00	\$1.50	1 1/8	3/4 x 3/8	6

Automatic Jam Cleats

CAST BRONZE—POLISHED

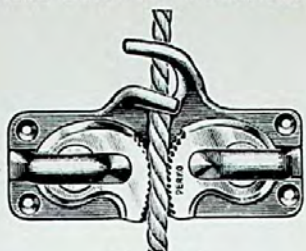


Fig. 895

No.	Each	For Rope Inches	Size Base Inches	Weight Ounces
1	\$2.65	1/4 - 5/8	3 1/2 x 1 1/2	10
2	4.85	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.

No.	Plain Each	Polished Each	Length Inches	For Rope Inches	Weight Ounces
1	\$1.25	\$1.50	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	\$2.40	3 1/2	1/4	5
2	2.75	4	3/8	8
3	3.65	6	1/2	18

Double Jam Cleats

CAST BRONZE—POLISHED



Fig. 1030

No.	Each	Overall Length Inches	Width Inches	Weight Ounces
1	\$.75	4	1/2	4
2	1.00	5	5/8	6

Roller Jam Cleats

CAST BRONZE



Fig. 894

No.	Polished Each	For Diam. Rope Inches	Extreme Length Inches	Weight Ounces
1	\$1.50	1/8 to 1/4	4	4
2	2.00	1/4 to 3/8	5 1/4	8

Sheet Snubbing Winches

CAST BRONZE—POLISHED



No. 0



No. 1

Fig. 937

A one way action winch which greatly reduces the strain of hauling on sheets or halyards.

Action of head is clockwise only for hauling in. But same is carefully machined and highly polished to allow free running of sheet when let out.

No.	Polished Bronze Each	Chromium Plated Each	Height Inches	Diam. Drum Inches	Diam. Base Inches	Weight Pounds
0	\$4.00	\$5.50	2 1/8	1	2 1/8	1
1	5.00	7.00	2 3/4	1 1/4	3 1/8	1 1/4

Snipe Travelers

GALVANIZED IRON OR BRASS



Fig. 271

No.	Galv. Each	Plain Brass Each	Polished Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
1	\$1.00	\$1.50	\$2.25	3/8 x 18	6	1 1/2

Snipe Centerboards

GALVANIZED IRON



Fig. 134

No.	Each	Size Inches	Weight Pounds
1	\$7.50	36 x 21 x 1 1/8	32



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. $\frac{1}{2}$ inch, weight 5 oz. Approx. strength 5,000 lbs.

Size Thread Inches	Plain Each	Polished Each	Length Pin to Pin		Jaw Opening Inches
			Open Inches	Closed Inches	
$\frac{1}{4}$	\$1.30	\$1.60	7 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{1}{4}$
$\frac{1}{2}$	1.60	1.90	9 $\frac{1}{2}$	6	$\frac{1}{4}$

With check nuts, add \$.15 to each turnbuckle.

Small Boat Chain Plates

CAST BRONZE



Fig. 629

Plain Each	Polished Each	Chromium Plated Each	Length Inches	Thick-ness Inches	Weight Ounces
\$.60	\$.80	\$1.10	6	$\frac{1}{4}$	7

"Snipe" Chain Plates

BRASS



Fig. 143

Plain Each	Polished Each	Size Inches	Weight Ounces
\$.70	\$.90	10 $\frac{1}{2}$ x 1 $\frac{1}{8}$	6

Chain Plates

GALVANIZED DROP FORGED STEEL OR BRONZE



Fig. 569

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size of Plate Inches
4	\$.30	\$.95	\$1.30	$\frac{3}{4}$ x $\frac{1}{8}$
5	.35	1.10	1.45	$\frac{7}{8}$ x $\frac{1}{8}$
6	.40	1.20	1.55	1 x $\frac{1}{8}$
8	.50	1.45	1.90	1 $\frac{1}{8}$ x $\frac{1}{8}$
10	.75	1.80	2.40	1 $\frac{1}{4}$ x $\frac{1}{8}$
12	1.00	2.20	2.90	1 $\frac{1}{2}$ x $\frac{1}{8}$
14	1.50	3.20	4.30	1 $\frac{3}{4}$ x $\frac{1}{8}$
16	1.75	4.30	6.00	1 $\frac{7}{8}$ x $\frac{1}{8}$
18	2.00	6.00	8.00	1 $\frac{7}{8}$ x $\frac{1}{8}$
20	2.50			1 $\frac{7}{8}$ x $\frac{1}{8}$

Combination Release Hook and Turnbuckle

BRONZE



Fig. 1193

Plain Each	Polished Each	Size Thread Inches	Length Closed Inches	Opening in Jaw Inches	Weight Ounces
\$2.50	\$3.25	$\frac{1}{8}$	5	$\frac{1}{4}$	6

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 $\frac{3}{8}$	1	$\frac{1}{8}$	$\frac{3}{4}$	8
Plain Bronze Each		Polished Bronze Each		Chromium Plated Each
\$1.00		\$1.50		\$2.30

Head and Jibstay Fittings

CAST BRONZE—PLAIN



Fig. 1032

No.	Each	Length Inches	Width Inches	Number of Holes	Weight Ounces
1	\$2.00	5	1 $\frac{1}{2}$	5	12
2	2.25	7 $\frac{3}{4}$	1 $\frac{3}{4}$	8	28

Bob Stay Straps

CAST BRONZE



Fig. 303

No.	Plain Bronze Each	Polished Bronze Each	Metal in Eye Inches	Length Straps Inches	I. D. Eye Inches	Weight Ounces
1	\$.55	\$.85	$\frac{3}{8}$	1 $\frac{3}{4}$	$\frac{3}{4}$	3 $\frac{1}{2}$
2	.75	1.05	$\frac{1}{2}$	2 $\frac{5}{8}$	$\frac{1}{2}$	5

Rigging Cleats

CAST BRONZE—PLAIN

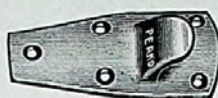


Fig. 879

No.	Plain Each	For Diam. Mast Inches	Size Overall Inches	Weight Ounces
1	\$.40	2 1/2	2 1/2 x 1 1/4	2 1/2
2	.50	3	3 3/8 x 1 3/8	4
3	.70	4	4 x 1 3/8	5

Mast Shroud Tangs

CAST BRONZE—PLAIN



Fig. 387

For the mast shroud of small sail boats. Drilled for fastening by rivet and screws.

Each	For Wire Inches	Length Inches	Width Inches	Weight Ounces
\$.50	1/8-7/8	4	3/8	2 1/2

"Snipe" Stay Tangs

ALL BRASS



SINGLE
Fig. 47



DOUBLE
Fig. 57

Commonly used for attaching standing rigging to mast on snipe and similar classes of sail boats.

Fig. No.	Plain Brass Each	Pol. Brass Each	For Diam. Rope Inches	Dim. Straps Inches	Diam. Bolt Inches	For Wood Thickness Inches	Wt. Each Lbs.
47	\$.60	\$.75	1 1/8	3/4 x 4	1/4	2	1/8
57	1.00	1.25	1 1/8	3/4 x 4	1/4	2 1/8	1/4

Gaff Topsail Hooks

GALVANIZED MALLEABLE IRON
COLEMAN PATTERN



Fig. 931

Size Inches	Each	Thimble for Rope Inches	Size Inches	Each	Thimble for Rope Inches
1/4	\$.60	3/8	1/2	\$1.20	3/8
3/8	.65	1/2	3/8	2.75	1
3/8	.85	3/8			

Wind Pennants

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

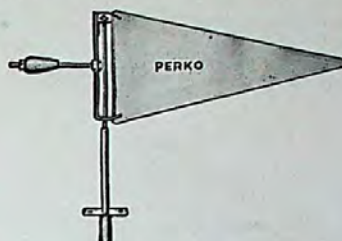


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

FURNISHED IN PAINTED FINISH,
EITHER RED OR BLUE.

For Mast 1 Inch Diam. at Top, 1/8 Hole

No.	Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$2.00	6 1/2 x 3	6 1/2	2 1/2
2	2.50	9 1/2 x 4 1/2	7 3/4	4

Improved Wind Pennants

ADJUSTABLE COUNTERBALANCE

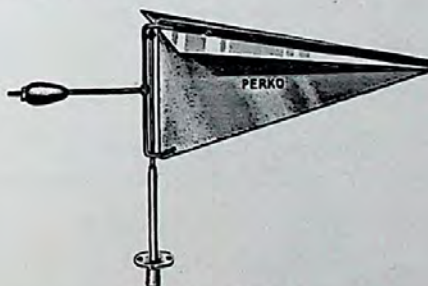


Fig. 837

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	\$2.50	6 1/2 x 3	6 1/2	3
6	3.00	9 1/4 x 4 1/2	7 3/4	5

Bronze Goosenecks
MANGANESE BRONZE—PLAIN



Fig. 883



Fig. 884

Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

No.	Fig. 883 Each	Fig. 884 Each	Mast Diam. Inches	Diam. Boom End Inches	Fig. 883 Weight Pounds
1	\$6.00	\$7.00	3 to 3 1/2	1 3/4	2 3/4
2	6.00	7.00	4 to 4 1/2	2 1/4	3 1/2

Sliding Gooseneck
NATIONAL ONE DESIGN CLASS BRONZE

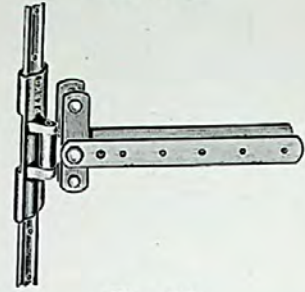


Fig. 425

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. This fitting is as light in weight as possible while retaining all necessary strength.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$2.50	3/4	6	3/8	3/4

Bronze Goosenecks
WITH FLAT PLATE FOR SQUARE MASTS
MANGANESE BRONZE—PLAIN

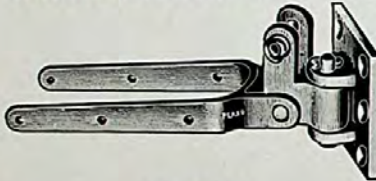


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

No.	Each	Width of Plate Inches	Length of Plate Inches	Diameter Boom end Inches	Weight Pounds
1	\$6.00	2	3	1 3/4	2 3/4
2	6.00	3	4	2 1/4	3 1/2

Sliding Gooseneck
BRONZE

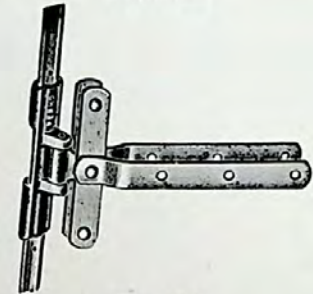


Fig. 592

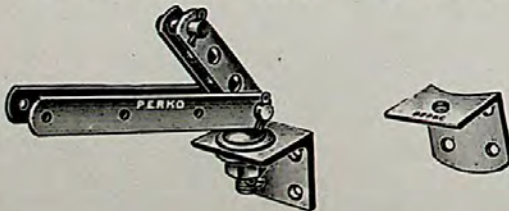
Furnished without track.

Slide is cast bronze, boom straps are wrought brass. Straps can be adjusted for booms smaller than 2 inch diameter.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$3.75	1 3/4	6	3/8	1

"Snipe" Goosenecks

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast Fig. 888

With Plate for Round Mast Fig. 890

Plain Brass Each	Polished Brass Each	Plain Plates Only Each	Width Plate Inches	For Boom Inches	Weight Each Pounds
\$2.75	\$3.50	\$1.00	2	1 to 1 1/2	1 1/2

When ordering, specify whether for square or round mast.

Jib Club Fittings
MANGANESE BRONZE—PLAIN



Fig. 887

Allows club to be easily removed from jib stay.

No.	Each	For Club Inches	For Diam. Club Inches	Weight Pounds
1	\$4.25	1 1/2	1 1/2	1
2	4.75	1 3/4	1 3/4	1 1/8
3	5.50	2	2	1 3/4

Clew Outhaul

CAST BRONZE—PLAIN

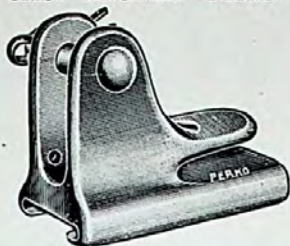


Fig. 1047

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.15	$\frac{3}{8}$	$\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$3\frac{1}{2}$

Self Locking Clew Outhaul

CAST BRONZE
INSTANT RELEASE—LIGHTWEIGHT
FOR SMALL BOATS

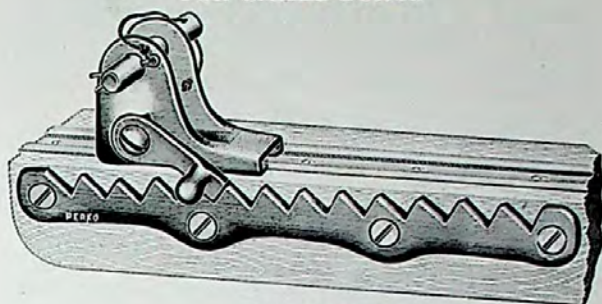


Fig. 817

Grab the pin, haul out as far as necessary and it automatically locks in place.

Can be released instantly by raising the pawl. The pin is made extra long for grasping.

Plain Per Set	Ratchet Only Each	For Track Inches	Length Ratchet Inches	Length Pin Inches	Weight Per Set Ounces
\$2.50	\$1.00	$\frac{3}{8}$	10	$2\frac{1}{2}$	10

Snap Action Clew Outhaul

CAST BRONZE—PLAIN



Fig. 871

With spring pin so sail can be put on or taken off easily.

No.	Each	For Width Track Inches	Length Overall Inches	Weight Pounds
1	\$2.50	$\frac{5}{8}$	$3\frac{3}{4}$	$\frac{1}{2}$
2	5.00	$\frac{7}{8}$	$5\frac{1}{2}$	$\frac{3}{4}$

Clew Outhaul Slides

CAST BRONZE—PLAIN



Fig. 872

No. 1 size is furnished with nickel silver rolled track like Fig. 99.

No. 2 and 3 sizes are furnished with heavy cast bronze track as illustrated.

No. 3 size has a sheave for wire instead of groove.

No.	Plain Bronze Each	Width Track Inches	Lgth. Track Inches	Weight Pounds
1	\$2.50	$\frac{5}{8}$	15	$\frac{1}{2}$
2	4.65	$\frac{3}{4}$	13	$1\frac{1}{2}$
3	7.25	$\frac{7}{8}$	15	2

Boom Travelers

CAST BRONZE
FOR MAIN SHEET BLOCKS ON BOOMS
FOR RECTANGULAR BOOMS



Fig. 1112

Fastened by one rivet and two screws.

Plain Each	Polished Each	For Thickness Boom Inches	Weight Ounces
\$.50	\$.80	$1\frac{1}{2}$ to $1\frac{3}{4}$	$2\frac{1}{2}$

FOR T BOOMS



Fig. 1113

Fastened with two rivets.

Plain Each	Polished Each	For Thickness Boom Inches	Weight Ounces
\$.50	\$.80	$\frac{3}{4}$ to 1	$1\frac{1}{2}$

Boom Travelers

CAST BRONZE—FOR ROUND BOOMS



Fig. 878

Diam. Boom	Plain Each	Polished Each	Width of Plate Inches	Weight Ounces
2	\$.95	\$1.30	$1\frac{1}{4}$	3
$2\frac{1}{2}$	1.00	1.40	$1\frac{1}{2}$	4
3	1.25	1.65	$1\frac{3}{8}$	7



Mast Track and Slides

NICKEL SILVER

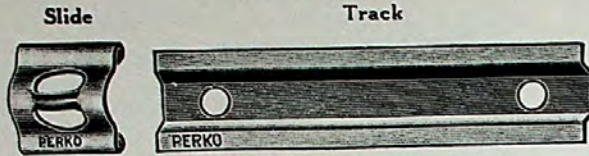


Fig. 98

Fig. 99

Width Track Inches
3/8
7/8

Nickel Silver Slides Each
\$.08
.12

Nickel Silver Track Per Foot
\$.20
.25

Slides will fit any make of track of corresponding design and size.

Nickel silver lengths of track are 8, 10 and 12 feet. All orders will be filled with lengths available to make up total number of feet ordered.

Sail Slides with Thimble

NICKEL SILVER SLIDE—BRASS THIMBLE



Fig. 1036

For Width of Track Inches	Each Complete	Diam. of Thimble Inches	Score of Thimble Inches
3/8	\$.15	1/2	1/8
7/8	.20	3/8	3/8

Masthead Sheaves

FOR MANILA ROPE
CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Each	For Diam. Rope Inches	Thickness Inches	Bearing Inches	Weight Ounces
1 3/4	\$.55	1/4	3/8	3/8	2 1/2
2	.70	1/2	1/2	1/2	3 1/2
2 1/4	.90	3/8	1/2	3/8	5

Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

Size Inches	Per 100	Weight Per 100 in Lbs.
2 x 1/4	\$ 6.00	10 1/2
2 1/2 x 1/4	8.00	12 1/2
3 x 1/4	8.50	15
3 1/2 x 1/4	10.00	17
4 x 1/4	13.00	20

Measure in clear, special sizes made to order.

Masthead Trucks

LIGNUMVITAE



Fig. 891

Diam. Inches	One Sheave Each	Two Sheaves Each	Thickness Inches	Diam. Bore Inches	For Diam. Halyard Inches
2	\$.70	\$ 1.00	3/8	1/2	3/8
2 1/2	.85	1.10	1	3/4	1/2
3	1.10	1.50	1	3/8	1/4
3 1/2	1.40	1.80	1 1/8	1	1/4
4	1.65	2.15	1 1/4	1 1/8	1/4
4 1/2	2.00	2.50	1 3/8	1 1/4	1/4
5	2.35	2.85	1 1/2	1 3/8	3/8
5 1/2	2.75	3.25	1 5/8	1 1/2	3/8
6	3.00	3.50	1 3/4	1 3/4	3/8

Larger and special sizes to order, on application.

Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

Size Inches	Each	Size Inches	Each
1 1/2 x 1 1/2	\$.21	1/2 x 3	\$.40
1 1/2 x 2	.22	1/2 x 3 1/2	.43
3/8 x 2	.24	1/2 x 4	.48
3/8 x 2 1/2	.25	1/2 x 5	.50
3/8 x 3	.28	1/2 x 6	.55
3/8 x 3 1/2	.30		

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
3/8	\$.40	\$ 1.60	3	8	3/8
1/2	.60	1.95	3 3/8	9 1/2	3/4
5/8	.80	2.70	3 3/4	10 1/4	1
3/4	1.00	3.40	4 1/4	11	1 1/4



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