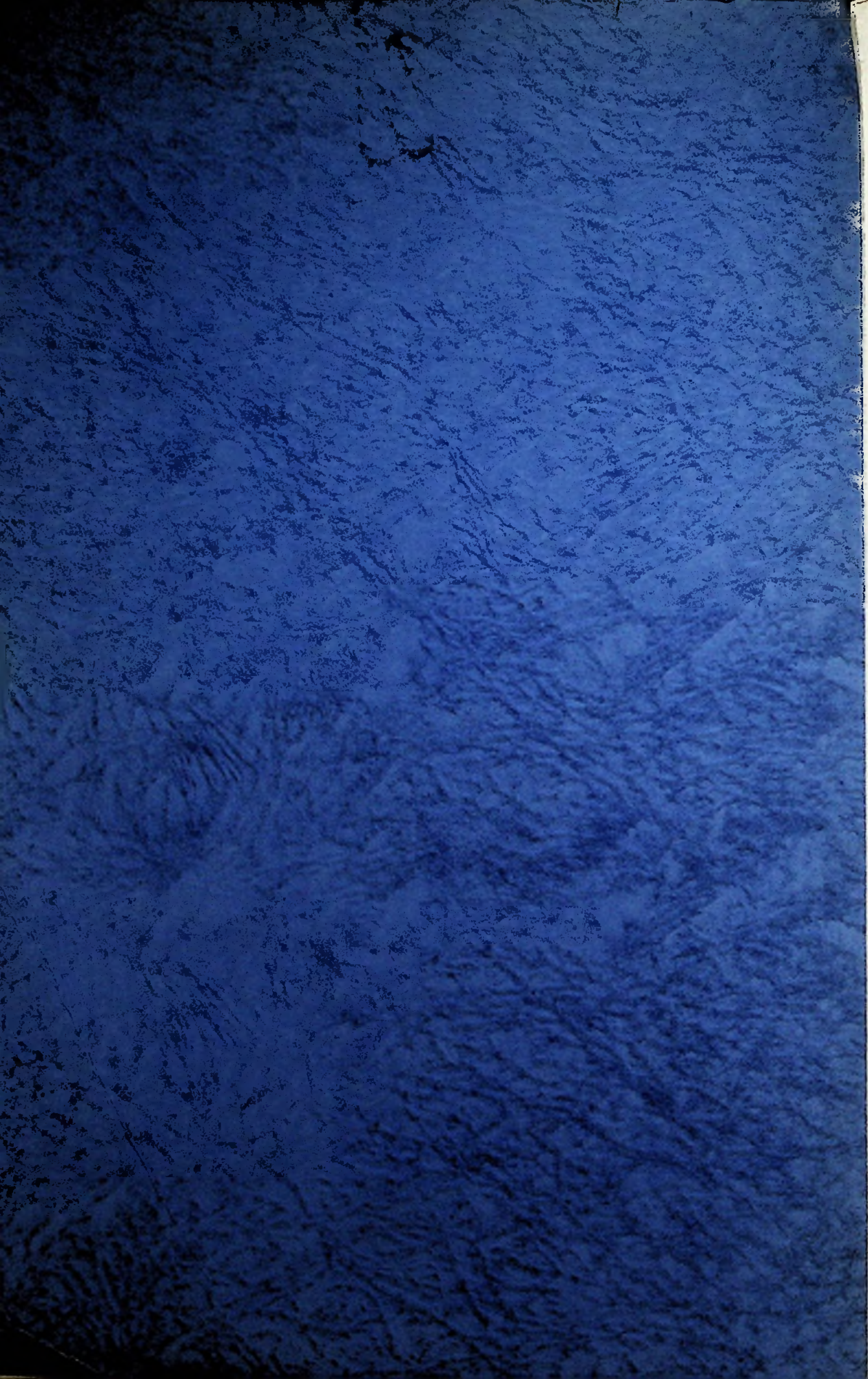




PERKO

CATALOG 80
1937

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.

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. 80 1937



Branch Offices

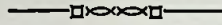
231 SANSOME ST.
SAN FRANCISCO, CAL.

1027 MAGAZINE ST.
NEW ORLEANS, LA.

1802 BAYARD PLACE
JACKSONVILLE, FLA.

303 WASHINGTON
MUTUAL BLDG.
SEATTLE, WASH.

FOREWORD AND GENERAL INFORMATION



This catalog presents our full line of marine equipment to date, and has been arranged for convenient reference by grouping the material according to its application in the marine field. We have added a number of new items to our line, and this catalog contains approximately thirty pages more than our 1936 issue. We have made tremendous strides in the marine equipment field, and are not exaggerating when we claim that we are the fastest growing manufacturing organization in that field. The "PERKO" trade mark is now known throughout the world in maritime circles, and this expansion would not have been possible if we had not adhered strictly to our most stringent rule of high quality and quick service, and we guarantee to continue that course.

PRICES AND TERMS

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

GUARANTEE

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

RETURN GOODS

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

WEIGHTS

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

RATING

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

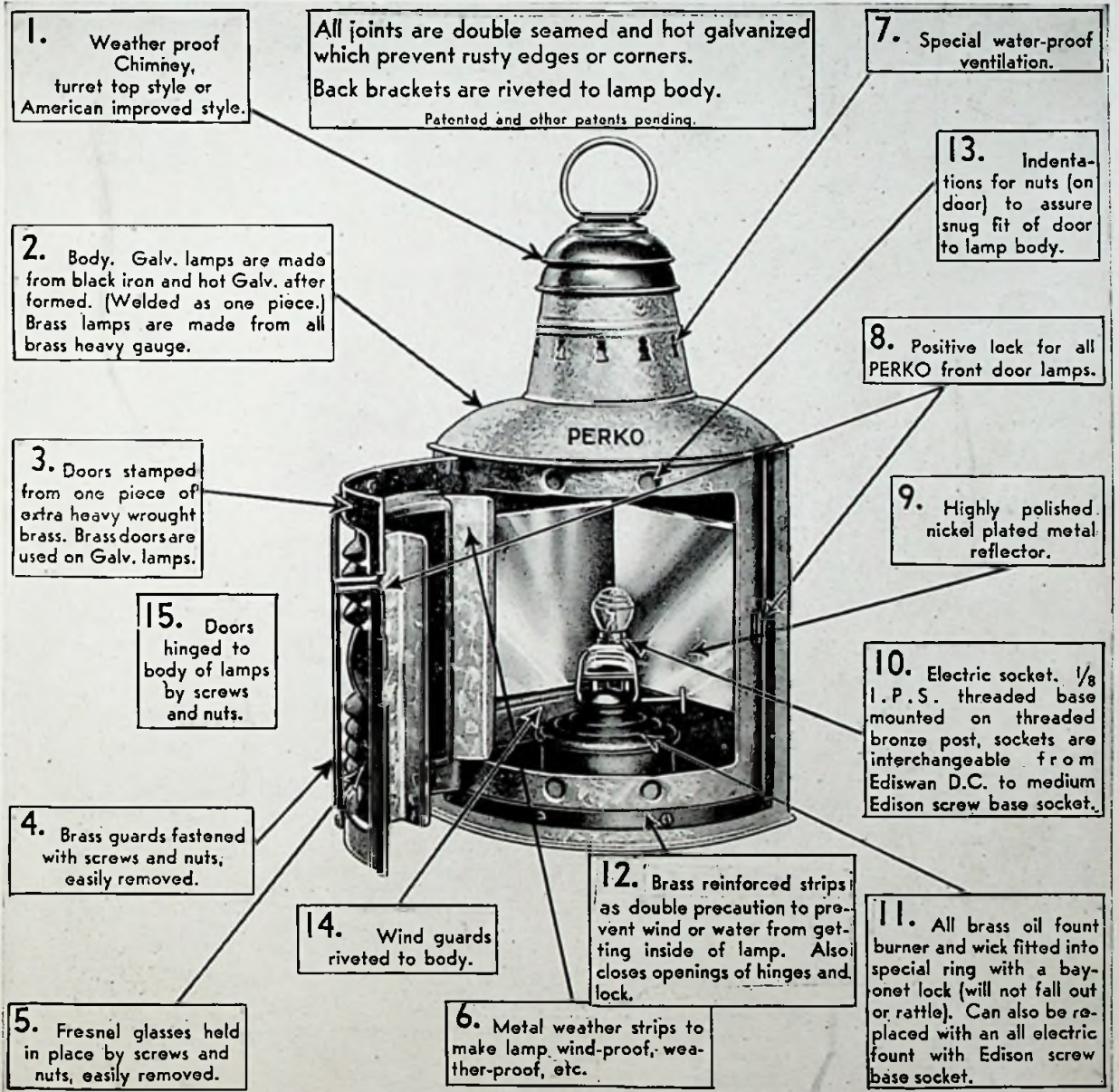
SHIPPING INSTRUCTIONS

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

EXPORT ORDERS

We are thoroughly familiar with the proper methods of handling orders and shipments to all parts of the world, and guarantee to do so to your satisfaction.

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



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



"Perko" De-Lite Combination Lights

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

Green Lens for Starboard, Red Lens for Port

Height, less ring, 9 3/8 inches

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

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

Weight, 3 pounds



(Closed)



(Opened)

FIG. 0-1

Galvanized Each \$5.00	Polished Brass Each \$6.50	Nickel Plated Each \$7.00	Chromium Plated Each \$8.00
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"Perko" De-Lite Combination Lights

FLAT TOP
CLASS 1—OIL AND ELECTRIC

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)



(Opened)

FIG. 0-10

Galvanized Each \$5.00	Polished Brass Each \$6.50	Nickel Plated Each \$7.00	Chromium Plated Each \$8.00
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Old Style Combination Lights

FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG
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	\$4.25	\$5.75
Oil and Electric...	4.50	6.00

Old Style Combination Lights

FLAT TOP
FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG
ELECTRIC ONLY

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.

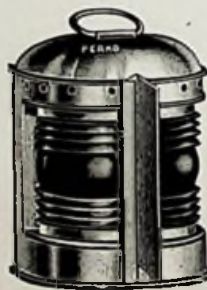


Fig. 3

Galvanized Each	Polished Brass Each
\$4.25	\$5.75

EXTRACT FROM MOTOR BOAT LAW IN EFFECT APRIL 7TH, 1930

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

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

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

"Perko" Delite Stern Lights

"Perko" Delite Anchor Lights

TURRET TOP
FOR CLASS 1 BOATS—LESS THAN 26 FEET LONG

TURRET TOP
FOR CLASS 2 AND 3 BOATS
26 TO 65 FEET LONG INCLUSIVE



CLEAR LENS



Fig. 735



CLEAR LENS



Fig. 736

Heavy guards are fastened to body by bolts, easily removed to replace broken lens.

Heavy guards are fastened to body by bolts, easily removed to replace broken lens.

Height Less Ring Inches	Diam. Base Inches	Size of Lens Inches	Weight Each Pounds
8 3/8	4 1/2	3 3/8 x 3 1/2	2

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

OIL OR ELECTRIC ONLY

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$3.25	\$4.50	\$8.00	\$5.00	\$5.50

OIL OR ELECTRIC ONLY

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$4.25	\$6.25	\$9.50	\$6.75	\$7.50

OIL AND ELECTRIC COMBINED

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$3.50	\$4.75	\$8.25	\$5.25	\$5.75

OIL AND ELECTRIC COMBINED

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$4.50	\$6.50	\$9.75	\$7.00	\$7.75

With Red, Green, or Blue Lens add \$1.00 each.
With medium screw sockets only, use same price as oil and electric.

With Red, Green, or Blue Lens add \$1.50 each.
With medium screw sockets only, use same price as oil and electric.

10 Day Anchor Lights

OIL BURNING—IMPROVED

30 Day Anchor Light

ELECTRIC—DRY BATTERIES
POLISHED COPPER



Fig. 596



Fig. 596-A

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

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

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

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



Fig. 13

Extreme Height Inches	Diameter Fount Inches	Size of Lens Inches	Net Weight Lbs.
14	7	4 1/4 x 4 1/4	4

Extreme Height Inches	Diameter Base Inches	Size of Lens Inches	Weight Pounds
16 1/2	6 3/4	4 1/4 x 4 1/4	5 1/2

CLEAR LENS

Galvanized Each	Polished Brass Each
\$10.50	\$12.50

CLEAR LENS

Polished Copper Each	Bulbs Only Each
\$15.00	\$.50

Fig. 596, Lamp Complete \$10.50
Fig. 596A, Fount Complete 7.00
Lamp Only Without Fount 7.00

With Red, Green, or Blue Lens add \$1.50 each.
For Burners and Chimneys only, see Page 44.

With Red, Green, or Blue Lens add \$1.50 each.
Prices do not include Batteries.

"Perko" De-Lite Side Lights

TURRET TOP
FOR CLASS 2 BOATS—26 FEET OR OVER AND LESS THAN 40 FEET IN LENGTH
OIL AND ELECTRIC
Furnished in pairs—one green light for Starboard and one red light for Port

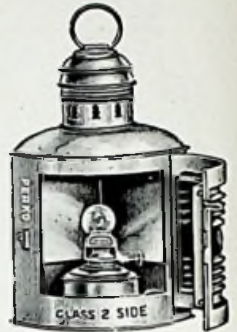


(Closed)

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

FIG. 0-4

Galvanized Iron Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$8.00	\$10.50	\$12.00	\$13.00



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP
CLASS 2—OIL AND ELECTRIC

Extreme height, less ring, 10½ inches
Size of lens, 4¼ inches x 6½ inches
Measurements of base, 5 inches x 5½ inches
Weight, each, 3 pounds

FIG. 0-5



(Closed)

With clear lens
With colored lens

Galvanized Iron Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$4.00	\$5.25	\$6.00	\$6.50
5.00	6.25	7.00	7.50



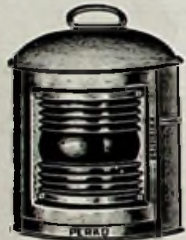
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"Perko" De-Lite Side Lights

FLAT TOP
CLASS 2—OIL AND ELECTRIC

Extreme height, less ring, 7¼ inches
Measurements of base, 5½ inches x 5½ inches
Size of lens, 4¼ inches x 4¼ inches
Net weight, per pair, 5½ pounds

FIG. 0-40



(Closed)

Galvanized Iron Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$8.00	\$10.50	\$12.00	\$13.00



(Opened)

"Perko" De-Lite Bow Lights

FLAT TOP
CLASS 2—OIL AND ELECTRIC

Extreme height, less ring, 7¾ inches
Measurements of base, 5 inches x 5½ inches
Size of lens, 4¼ inches x 6½ inches
Net weight, each, 2¾ pounds

FIG. 0-50



(Closed)

With clear lens
With colored lens

Galvanized Iron Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$4.00	\$5.25	\$6.00	\$6.50
5.00	6.25	7.00	7.50



(Opened)

Every motor boat of class 2 shall carry the following lights:

First. A bright white light in the fore part of the vessel as near the stem as practicable, so fixed as to throw the light ten points on each side of the vessel, the fresnel lens shall not be less than 19 square inches.

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

Third. On the starboard side a green light and on the port side a red light, both to throw a light from right ahead to two points abaft the beam, the fresnel lens to be not less than 16 square inches.

"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

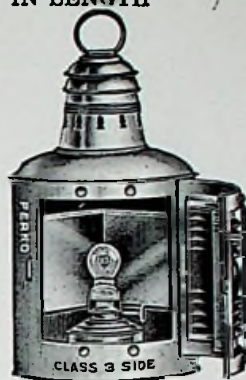
Size of lens, 5¼ inches x 5½ inches
 Height, less rings, 12¼ inches
 Measurements of base, 5½ inches x 5½ inches
 Weight, per pair, 8 pounds

FIG. 0-8

Galvanized Iron Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$10.50	\$14.70	\$15.50	\$17.00



(Closed)



(Opened)

"Perko" De-Lite Bow Lights

TURRET TOP

CLASS 3—OIL AND ELECTRIC

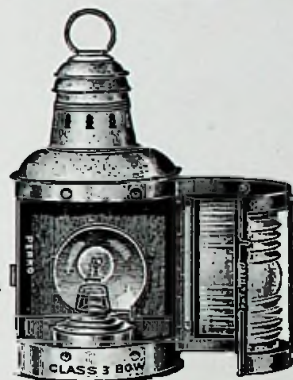
Size of lens, 5¼ inches x 7¾ inches
 Height, less ring, 12¼ inches
 Measurements of base, 5½ inches x 6¼ inches
 Weight, each, 4 pounds

FIG. 0-9

	Galvanized Iron Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
With clear lens	\$5.25	\$7.35	\$7.75	\$8.50
With colored lens	6.25	8.35	8.75	9.50



(Closed)



(Opened)

"Perko" De-Lite Side Lights

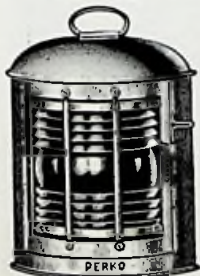
FLAT TOP

CLASS 3—OIL AND ELECTRIC

Size of lens, 5¼ inches x 5½ inches
 Height, less ring, 8½ inches
 Measurements of base, 5½ inches x 5½ inches
 Weight, per pair, 7 pounds

FIG. 0-80

Galvanized Iron Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$10.50	\$14.70	\$15.50	\$17.00



(Closed)



(Opened)

"Perko" De-Lite Bow Lights

FLAT TOP

CLASS 3—OIL AND ELECTRIC

Size of lens, 5¼ inches x 7¾ inches
 Height, less ring, 8½ inches
 Measurements of base, 5½ inches x 6¼ inches
 Weight, each, 4 pounds

FIG. 0-90

	Galvanized Iron Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
With clear lens	\$5.25	\$7.35	\$7.75	\$8.50
With colored lens	6.25	8.35	8.75	9.50



(Closed)



(Opened)

Every motor boat of class 3 shall carry the following lights:

First. A bright white light in the fore part of the vessel as near the stem as practicable, so fixed as to throw the light ten points on each side of the vessel, the fresnel lens to be not less than 31 square inches.

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

Third. On the starboard side a green light and on the port side a red light, both to throw a light from right ahead to two points abaft the beam, the fresnel lens to be not less than 25 square inches.



Old Style Class 2 Side Lights

FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Fig. 17

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

	Galvanized Per pair	Polished Brass Per pair
Oil or Elec. Only	\$6.50	\$9.00
Oil and Electric	7.00	9.50

Old Style Class 2 Bow Lights

FOR BOATS 26 to 39 FEET LONG INCLUSIVE



Fig. 18

Size of Lens, $4\frac{1}{4} \times 6\frac{1}{2}$ "
 Extreme Height, $10\frac{1}{2}$ "
 Measurement of Base, $4\frac{1}{2} \times 5$ "
 Weight Each, 3 lbs.

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$3.25	\$4.50
Oil and Electric	3.50	4.75

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

Old Style Class 3 Side Lights

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Fig. 19

Size of Lenses, $5\frac{1}{4} \times 5\frac{5}{8}$ "
 Extreme Height, $12\frac{1}{2}$ "
 Meas. of Base, $5 \times 6\frac{1}{4}$ "
 Weight, per Pair, $7\frac{1}{2}$ lbs.

	Galvanized Per pair	Polished Brass Per pair
Oil or Elec. Only	\$9.00	\$13.20
Oil and Electric	9.50	13.70

Old Style Class 3 Bow Lights

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE



Fig. 20

Size of Lens, $5\frac{1}{4} \times 5\frac{1}{2}$ "
 Extreme Height, $12\frac{1}{2}$ "
 Meas. of Base, $9\frac{1}{4} \times 6$ "
 Weight Each, $4\frac{1}{2}$ lbs.

WITH CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Electric Only	\$4.50	\$6.60
Oil and Electric	4.75	6.85

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

Old Style Stern Lights

FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG



Fig. 9

Size of Lens, $3\frac{3}{8} \times 3\frac{1}{2}$ "
 Extreme Height, 9"
 Diameter of Base, $4\frac{1}{2}$ "
 Weight Each, 2 lbs.

CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$3.25	\$4.50
Oil and Electric	3.50	4.75

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

Old Style Class 2 and 3 Anchor Lights

WITH HINGED BOTTOM

FOR BOATS 26 TO 65 FEET LONG INCLUSIVE



Fig. 10

CLEAR LENS

Size of Lens, $4\frac{1}{4} \times 4\frac{1}{4}$ "
 Extreme Height, $12\frac{3}{8}$ "
 Diameter of Base, $5\frac{3}{8}$ "
 Weight Each, 4 lbs.

CLEAR LENS

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$4.25	\$6.25
Oil and Electric	4.50	6.50

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

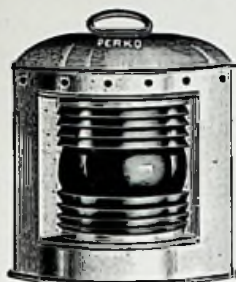
Entire page with medium screw sockets only, same price as oil and electric.

Old Style Class 2 Side Lights

FLAT TOP

FOR BOATS 26 TO 39 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



Size of Lenses, $4\frac{1}{4} \times 4\frac{3}{4}$ "
 Extreme Height, $7\frac{1}{4}$ "
 Measure of Base, $4\frac{3}{4} \times 5\frac{1}{2}$ "
 Weight, per Pair, $5\frac{1}{2}$ lbs.

	Galvanized Brass Per Pair	Polished Brass Per Pair
Oil or Elec.	\$6.50	\$9.00
Oil and Elec.	7.00	9.50

Fig. 4

Old Style Class 2 Bow Lights

FLAT TOP

FOR BOATS 26 TO 39 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



Size of Lens, $4\frac{1}{4} \times 6\frac{1}{2}$ "
 Extreme Height, $7\frac{1}{4}$ "
 Measurement of Base, $4\frac{1}{2} \times 5$ "
 Weight Each, 3 lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec.	\$3.25	\$4.50
Oil and Electric	3.50	4.75

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

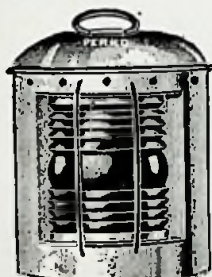
Fig. 5

Old Style Class 3 Side Lights

FLAT TOP

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



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

	Galvanized Brass Per Pair	Polished Brass Per Pair
Oil or Elec.	\$9.00	\$13.20
Oil and Elec.	9.50	13.70

Fig. 6

Old Style Class 3 Bow Lights

FLAT TOP

FOR BOATS 40 TO 65 FEET LONG INCLUSIVE

OIL ONLY OR OIL AND ELECTRIC



Size of Lens, $5\frac{1}{4} \times 5\frac{1}{2}$ "
 Extreme Height, $8\frac{1}{2}$ "
 Meas. of Base, $9\frac{1}{4} \times 6$ "
 Weight Each, $4\frac{1}{2}$ lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec.	\$4.50	\$6.60
Oil and Electric	4.75	6.85

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

Fig. 7

Old Style Stern Lights

FLAT TOP—CLEAR LENS

FOR CLASS 1 BOATS—LESS THAN 26 FEET LONG

Size of Lens, $3\frac{3}{8} \times 3\frac{1}{2}$ "

Extreme Height, 6"

Diameter Base, $4\frac{1}{2}$ "

Weight Each, $1\frac{1}{2}$ lbs.



ELECTRIC ONLY	
Galvanized Each	Polished Brass Each
\$3.25	\$4.50

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

Fig. 11

Old Style Class 2 and 3 Anchor Lights

FLAT TOP—CLEAR LENS

FOR BOATS 26 TO 65 FEET LONG INCLUSIVE
 OIL ONLY OR OIL AND ELECTRIC

Size of Lens, $4\frac{1}{4} \times 4\frac{1}{4}$ "
 Extreme Height, 9"
 Diameter Base, $5\frac{3}{8}$ "
 Weight Each, 3 lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec.	\$4.25	\$6.25
Oil and Electric	4.50	6.50

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



Fig. 12

NOTE—We will furnish this light for oil burning if desired at same prices but it is not guaranteed to give good results.

Entire page with medium screw sockets only, same price as oil and electric.

COMBINATION LIGHTS—ELECTRIC
FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS
UP TO 16 FEET LONG INCLUSIVE

Wrought Brass Type
FOR PERMANENT MOUNTING

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



Fig. 485

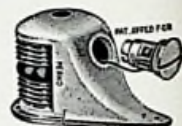
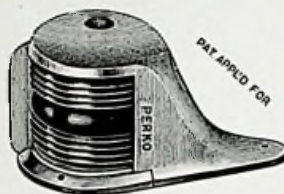
Height Overall Inches 4½	Diam. Body Inches 2½	Diam. Base Inches 2	Size Lens Inches 2½ x 3	Weight Lbs. 1
Polished Brass Each \$2.60		Nickel Plated Each \$2.85		Chromium Plated Each \$3.35

Streamline Pattern

WITH REBULBING FEATURE
CAST BRONZE

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.



Rear view showing method of changing bulb

Fig. 512

Height Inches 3½	Base Inches 3½ x 5¾	Lens Inches 2½ x 3	Flagpole Socket Inch %	Weight Lbs. 1¾
Polished Bronze Each \$5.50		Nickel Plated Each \$6.00		Chromium Plated Each \$6.50

Wrought Brass Type
FOR TEMPORARY MOUNTING
WITH REMOVABLE BRACKET

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



Fig. 486

Height Inches 4	Diam. Inches 2½	Lens Inches 2½ x 3	Weight Lbs. 1
Polished Brass Each \$3.00		Nickel Plated Each \$3.40	Chromium Plated Each \$3.75

Streamline Pattern

WITH CLEAT AND REBULBING FEATURE
CAST BRONZE

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

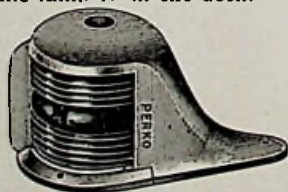


Rear view showing method of changing bulb

Fig. 535

Height Inches 3½	Base Inches 3½ x 5¾	Lens Inches 2½ x 3	Flagpole Socket Inch %	Weight Lbs. 1¾	Height Inches 3½	Base Inches 3½ x 5¾	Lens Inches 2½ x 3	Flagpole Socket Inches %	Length Cleat Inches 2½	Wt. Lbs. 2
Polished Bronze Each \$5.00		Nickel Plated Each \$5.50		Chromium Plated Each \$6.00	Polished Bronze Each \$5.50		Nickel Plated Each \$6.00		Chromium Plated Each \$6.50	

Fig. 536



Streamline Pattern
WITHOUT REBULBING FEATURE
CAST BRONZE

Same size as Fig. 512, except that bulb is changed by removing the lamp from the deck.

COMBINATION LIGHTS—ELECTRIC

FOR LARGER OUTBOARD MOTOR BOATS, RUNABOUTS AND SMALL CRUISERS
FROM 16 TO 25 FEET LONG INCLUSIVE

Streamline Pattern

WITH REBULBING FEATURE
FOR RUNABOUTS 16 TO 20 FEET LONG
CAST BRONZE

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

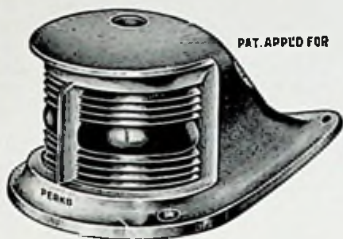


Fig. 598



Rear view showing method of changing bulb

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
3 3/4	4 7/8 x 8	2 1/2 x 3	5/8	2 1/2
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each
\$6.50		\$7.00		\$7.50

Streamline Pattern

WITH REBULBING FEATURE
FOR RUNABOUTS AND CRUISERS
18 TO 25 FEET LONG
CAST BRONZE

Contains our popular flush type rebulbing feature, absolutely watertight.

A few turns of a coin or screw driver in slot brings out socket allowing instant removal of bulb.

IT IS NOT NECESSARY TO TAKE LIGHT OFF DECK TO CHANGE BULB.

Equipped with red and green fresnel lenses and double contact electric socket. Socket in top of light for flagpole, 1 inch diameter.



Fig. 559

Height Inches	Base Inches	Lens Inches	Weight Lbs.
4 7/8	8 3/4 x 5 1/2	3 3/8 x 3 3/8	4 3/4
Polished Bronze Each		Nickel Plated Each	Chromium Plated Each
\$10.00		\$10.50	\$11.25

Streamline Pattern

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

Same style and size as Fig. 598, except that bulb is changed by removing lamp from the deck.

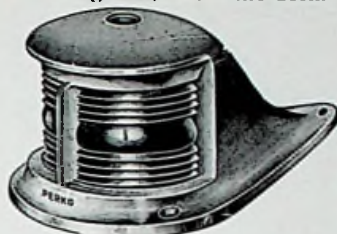


Fig. 606

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$6.00	\$6.50	\$7.00

Post Pattern

FOR RUNABOUTS AND CRUISERS
18 TO 25 FEET LONG
CAST BRONZE

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



Fig. 490

Height Inches	Diameter Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
6	3 1/2	3 3/8 x 3 3/8	5/8	2 3/4
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each
\$4.50		\$5.00		\$5.50

Sail Boat Side Lights

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

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



Fig. 845

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

	Galvanized Per Pair	Pol. Brass Per Pair
Oil Only	\$6.00	\$8.50
Oil and Electric	7.00	9.50
Electric Only—Flat Top	5.00	7.50

COMBINATION LIGHTS AND BITTS—ELECTRIC

FOR ALL CLASSES OF BOATS 12 TO 39 FEET LONG INCLUSIVE

Round Pattern

FOR OUTBOARD MOTOR BOATS AND
RUNABOUTS
CAST BRONZE

Body cast in one piece with threaded top for changing bulbs or lenses. Made in two sizes—No. 1 for outboard motor boats, No. 2 for runabouts 15 to 20 feet long.



Closed

Fig. 384



Open for Rebulbing

Nos.	Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Each Lbs.
1	3 3/4	4	2 1/2 x 3	3/4	2
2	5	5 1/4	3 3/4 x 3 3/4	1 1/4	3 1/2

Nos.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$4.50	\$5.00	\$5.50
2	5.75	6.25	6.25

Bitt Pattern

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

One solid casting throughout. A good substantial bitt. Contains our patented rebulbing feature, as illustrated.

IT IS NOT NECESSARY TO REMOVE LAMP FROM DECK TO CHANGE BULB.

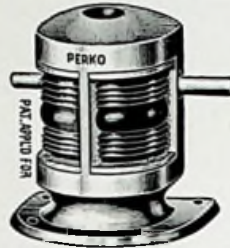
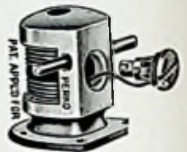


Fig. 510



Rear view showing method of changing bulb

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Lbs.
5 1/2	4 3/4 x 4 3/4	2 1/2 x 3	3/4	4

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$7.50	\$8.00	\$9.50

Combination Post Light and Riding Bitt

FOR CLASS 1 BOATS—18 TO 25 FEET LONG
CAST BRONZE

Body cast in one solid piece with threaded top for changing bulb or lens. Large thread allows easy removal and replacing of top. Lens fastened by cast wedge, which insures a good water-tight fit. Flagpole socket in top, red and green fresnel lenses and double contact electric socket.

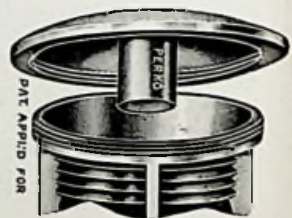


Fig. 502
Closed

Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Lbs.
4 3/4	6 1/2	3 3/4 x 3 3/4	1 or 1 1/4	5 1/2

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$10.00	\$10.75	\$11.50

Furnished with standard screw electric sockets at above prices if desired.



Open for Rebulbing

Bow Post Light and Riding Bitt

FOR CLASS 2 BOATS—26 TO 39 FEET LONG
CAST BRONZE

Same general construction as Fig. 502 above. Serves purpose as a bow light and good substantial riding bitt combined, as body and base are one heavy casting with heavy guards which protect lens from breakage. Equipped with clear fresnel lens and double contact electric socket.



Fig. 503

Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Pounds
6 1/2	7 1/4	4 1/4 x 6 1/2	1 1/4	8

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$10.00	\$10.75	\$12.00

Furnished with standard screw electric sockets at above prices if desired.



Streamline Side Lights

FOR CLASSES 1, 2 AND 3 BOATS
CAST BRONZE

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.



Fig. 563

Class	Height Inches	Length Inches	Size Lens Inches	Weight Per Pair Lbs.
1	4 $\frac{1}{8}$	6	3 $\frac{3}{8}$ x 3 $\frac{7}{8}$	3
2	5 $\frac{1}{8}$	7 $\frac{1}{2}$	4 $\frac{1}{4}$ x 4 $\frac{3}{4}$	5
3	6	9 $\frac{1}{4}$	5 $\frac{1}{4}$ x 5 $\frac{3}{8}$	7

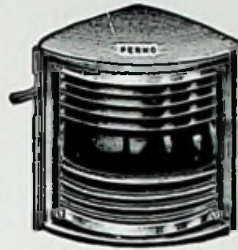
Class	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
1	\$10.00	\$11.00	\$12.00
2	12.00	13.00	14.00
3	18.00	20.00	20.50

De-Lite Side Lights

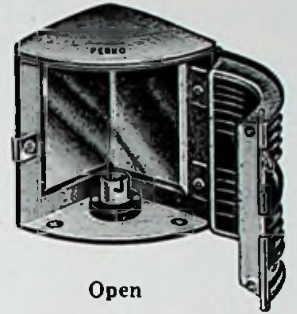
WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE

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.



Closed



Open

Fig. 504

Class	Height Inches	Angle Inches	Lens Inches	Weight Per Pair Lbs.
2	5 $\frac{1}{2}$	3 $\frac{3}{4}$ x 3 $\frac{3}{4}$	4 $\frac{1}{4}$ x 4 $\frac{3}{4}$	6 $\frac{1}{2}$
3	6	4 x 4	5 $\frac{1}{4}$ x 5 $\frac{3}{8}$	8

Class	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
2	\$10.00	\$11.00	\$12.00
3	13.00	14.00	15.50

Double contact sockets furnished unless otherwise specified

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

Streamline Bow Lights

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

Furnished with clear fresnel lens and double contact electric socket.

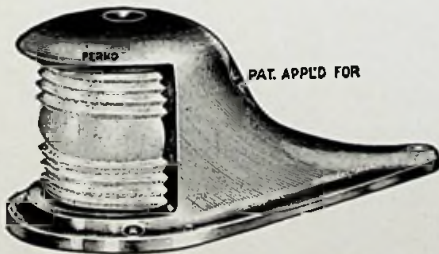


Fig. 561

Class	Height Inches	Base Inches	Lens Inches	Weight Pounds	Flagpole Socket Inches
1	4 $\frac{3}{8}$	5 x 8 $\frac{1}{2}$	3 $\frac{3}{8}$ x 5 $\frac{1}{8}$	4	$\frac{7}{8}$
2	5	5 $\frac{5}{8}$ x 9 $\frac{7}{8}$	4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	4 $\frac{3}{4}$	1
3	6 $\frac{3}{8}$	6 $\frac{3}{8}$ x 13	5 $\frac{1}{4}$ x 7 $\frac{3}{4}$	8 $\frac{3}{4}$	1

Class	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$ 9.00	\$10.00	\$10.00
2	11.00	12.00	12.25
3	16.00	17.50	17.50

De-Lite Bow Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE

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



Fig. 505

Class	Height Inches	Width Inches	Lens Inches	Weight Lbs.
2	5 $\frac{1}{2}$	5 $\frac{1}{2}$	4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	3 $\frac{1}{4}$
3	6 $\frac{1}{2}$	6	5 $\frac{1}{4}$ x 7 $\frac{3}{4}$	4 $\frac{1}{4}$

Class	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
2	\$5.00	\$5.50	\$6.00
3	6.50	7.00	7.75

Double contact sockets furnished unless otherwise specified

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

Battery Flasher Light

COPPER CASE—WATERTIGHT



Fig. 290

For docks, private harbors, clubs, buoys, driveways, etc. Guaranteed to burn continuously for over 10 days. In actual test it burned continuously for 15 days. With ordinary night service it should burn for several months before a battery replacement is necessary.

Nothing special about its equipment, it uses the ordinary lantern battery such as "Eveready" No. 409 or "Ray-O-Vac" No. 941, etc. The bulb is Mazda No. 502.

Battery and bulb are regular stock in all electrical supply stores.

The flasher unit is carefully made, all enclosed and is good for years of service.

The globe is the fresnel ball type with threaded base, unscrews for bulb replacement.

Furnished with clear globe, bail handle, turn switch and bulb.

Without Battery Each	With Battery Each	Height Overall Inches	Diameter at Base Inches	Weight with Battery Pounds
\$9.50	\$10.20	9	4 3/8	3 3/4

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

Without flasher unit, deduct \$2.00 each.

With 3/8 inch bronze pipe flange on bottom for mounting on pipe, add \$1.00 each.

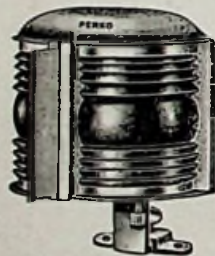


Fig. 15

Battery Comb. Light

This is our regular battery combination light, Fig. 1010, fitted with deck bracket for small boats.

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$5.00	\$5.50	\$6.75

Battery Stern Light

BRASS

A very neat stern light arranged for use with two dry cells, flashlight type, complete with switch.



Fig. 76

Pol. Brass Each	Chrom. Plated Each	Ht. In.	Size Lens In.	Wt. Lbs.
\$5.00	\$6.25	6	3 3/8 x 3 1/2	2

New Battery Lights

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

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

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

A screw switch for turning light on or off is also furnished.

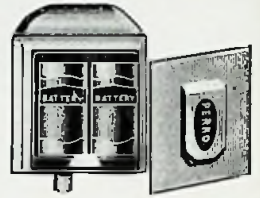
Combination Lights

FOR CLASS 1 BOATS



Fig. 1010

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$4.00	\$4.50	\$5.50



Back view with Door removed

Height Inches	Width Inches	Size Lens Inches
3 3/4	4 1/4	3 3/8 x 3 3/8

Side Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1011

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Height Inches	Size Lens Inches
1	\$6.50	\$8.00	\$10.00	4	3 3/8 x 3 1/8
2	6.80	8.50	10.50	5	4 1/4 x 4 3/4



Back view with Door removed

Bow Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1012

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches	Size Lens Inches
1	\$3.25	\$4.00	\$5.00	4	3 3/8 x 5 1/8
2	3.40	4.25	5.25	5	4 1/4 x 6 1/2



Back view with Door removed

All Above Prices Do Not Include Batteries

Batteries are the regular flashlight type, can be obtained at all hardware stores.

Royal Combination Lights

HEAVY GALVANIZED IRON AND BRASS
ELECTRIC ONLY

FOR CLASS 1 BOATS

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

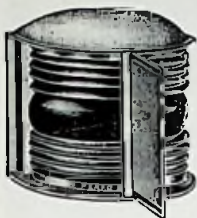


Fig. 89

Height Inches	Width Inches	Size Lens Inches	Weight Lbs.
3¾	4¼	3¾ x 3¾	1¼
Galvanized Iron Each	Polished Brass Each	Chromium Plated Each	
\$3.00	\$3.50	\$4.50	

Royal Side Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.



Fig. 91

Class	Height Inches	Size Lens Inches	Weight per Pair Lbs.
Class 1	4	3¾ x 3¾	1½
Class 2	5	4¼ x 4¼	2
Class 3	6	5¼ x 5¼	3
		Galv. Iron Per Pair	Pol. Brass Per Pair
Class 1		\$4.00	\$6.00
Class 2		4.00	6.00
Class 3		6.00	8.00
			Chrom. Plated Per Pair
			\$ 8.00
			8.00
			10.00

Royal Bow Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS

Same construction as above.



Fig. 92

Class	Height Inches	Size Lens Inches	Weight Each Lbs.
Class 1	4	3¾ x 5½	1
Class 2	5	4¼ x 6½	1½
Class 3	6	5¼ x 7¾	2
		Galv. Iron Each	Pol. Brass Each
Class 1		\$2.00	\$3.00
Class 2		2.00	3.00
Class 3		3.00	4.00
			Chrom. Plated Each
			\$4.00
			4.00
			5.00

Royal Stern Lights

ELECTRIC ONLY

FOR CLASS 1, 2 AND 3 BOATS



Fig. 90

Class	Height Inches	Size Lens Inches	Weight Lbs.
Class 1	4½	3¾ x 3¾	1¼
Class 2 or 3	5½	4¼ x 4¼	2
		Galv. Iron Each	Pol. Brass Each
Class 1		\$2.50	\$3.50
Class 2 or 3		3.50	4.50
			Chrom. Plated Each
			\$4.50
			4.50
			5.50

Battery Running Lights

200 HOUR LIFE—STANDARD BULBS
GALVANIZED AND BRASS

These are self contained marine running lights using the Burgess twin six 3 volt battery inside the body of the light in combination with a mazda No. 13 bulb. The batteries and bulbs can be obtained in practically any electrical supply shop.

That battery and bulb combination furnishes 200 consecutive hours of light without replacing either, but with ordinary use should last several months.

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

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

Furnished with toggle switch and bulb, batteries extra.

Side Lights

FOR CLASS 2 AND 3 BOATS

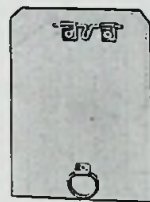
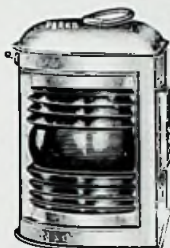


Fig. 998

Height Inches	Size Base Inches	Size Lens Inches	Weight Per Pair With Batteries Pounds
7¾	5½	5¼ x 5¾	11
		Polished Brass Per Pair	Bulbs Only Each
		\$8.10	\$.20
		\$11.10	\$.70
		\$13.50	

With batteries if desired, add \$1.40 per pair.

Bow Lights

FOR CLASS 2 AND 3 BOATS



Fig. 999

Height Inches	Size Base Inches	Size Lens Inches	Weight Each With Battery Pounds
7¾	5¾	5¼ x 5½	5½
		Polished Brass Each	Bulbs Only Each
		\$4.30	\$.20
		\$5.80	\$.70
		\$7.00	

With batteries if desired, add \$.70 each.

To obtain batteries and bulbs from local electrical supply store ask for Burgess twin six 3 volt batteries and Mazda No. 13 bulbs.



Flag Pole Lights

ELECTRIC ONLY—SOLID MAHOGANY POLE

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



Fig. 492

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

Length Overall Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$5.00	\$5.50	\$6.00
24	5.00	5.50	6.00
30	5.40	5.90	6.40
36	6.00	6.50	7.00
42	6.50	7.00	7.50
48	7.00	7.50	8.00
60	7.50	8.00	8.50
72	8.50	9.00	9.50

NOTE—Furnished with wire outlet in side of pole instead of bottom if desired. 2½ inch globes furnished unless 3 inch is specified.

Pole Light Assembly

COMPLETE WITH FLAG POLE SOCKET AND ELECTRIC CONNECTIONS IN POLE AND SOCKET

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, connection only is shown on page 53, Fig. 404. Female end of connector is mortised into base of pole, male end fastened securely in flag pole socket. Brass ferrule on base of pole, brass light on top as Fig. 491.



Fig. 590

Length Overall Inches	Diam. Base of Pole Inches
20	1¼
24	1¼
30	1¼
36	1¼
42	1¼
48	1¼
60	1¼
72	1¼

Length Overall Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$ 7.00	\$ 8.00	\$ 9.00
24	7.00	8.00	9.00
30	7.50	8.50	9.50
36	8.00	9.00	10.00
42	8.50	9.50	10.50
48	9.00	10.00	11.00
60	9.50	10.50	11.50
72	10.50	11.50	12.50

Flag Pole Light

CAST BRONZE TOP—MAHOGANY POLE

Same pole as Fig. 492, except that top is of cast bronze with 2½ or 3 inch globe, threaded base. Complete with brass ferrule and connector.



Fig. 537

Length Overall Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
20	\$6.00	\$ 6.50	\$ 7.00
24	6.00	6.50	7.00
30	6.40	6.90	7.40
36	7.00	7.50	8.00
42	7.50	8.00	8.50
48	8.00	8.50	9.00
60	8.50	9.00	9.50
72	9.50	10.00	10.50

NOTE—2½ inch globes furnished unless 3 inch is specified. Furnished with wire outlet in side or bottom of pole. For information on light only, refer to Fig. 484.



Fig. 591



Fig. 481

The above pole lights can be furnished with either of these sockets at same price as above.

Battery Pole Lights

BRASS BATTERY CASE—FRESNEL BALL GLOBE MAHOGANY FINISH POLE



Fig. 710

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

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

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

Length Overall Inches	Chromium Plated Each
24	\$4.00
30	4.25

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

Flag Pole Lights

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

An extra small size fresnel globe, 1 3/8 inch diameter, just large enough to admit a 3 c. p. electric bulb. Fitted on our high grade solid mahogany flag pole, which is drilled through center for wires.



Fig. 602

Length Overall Inches	Diam. Base Inches	Weight Oz.	Plating		
			Polished Brass Each	Nickel Plated Each	Chromium Plated Each
24	3/4	8			
30	3/4	9			
Height Inches					
24			\$4.00	\$4.50	\$4.75
30			4.25	4.75	5.00

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

Flag Pole Light

WITH 2 1/2 INCH GLOBE—HOLLOW BRASS POLE
FOR OUTBOARD MOTOR BOATS AND RUNABOUTS
Complete with cast bronze flag pole socket, wired ready for use, wires concealed in pole.



Fig. 538

Length Overall Inches	Outside Diam. Pole Inches	Weight Lbs.	Plating		
			Polished Brass Each	Nickel Plated Each	Chromium Plated Each
24	7/8	1 1/4			
30	7/8	1 1/2			
Length Inches					
24			\$4.25	\$4.75	\$5.25
30			4.75	5.25	6.00

Junior Pole Light Assembly

ELECTRIC CONNECTIONS IN POLE AND SOCKET
HOLLOW BRASS POLE—CAST BRONZE SOCKET

For outboard
motor boats and
small runabouts

No wires to bother with when pole is removed; insert pole in socket with a half turn which makes contact and locks pole in socket. All double contact connections.



Fig. 846

Length Pole Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Globe Inches	Size Socket Inches
24	\$5.00	\$5.50	\$6.50	1 3/8	3/4
30	5.50	6.00	7.00	1 3/8	3/4

Flag Pole Lights

ELECTRIC ONLY—HOLLOW BRASS POLE

With 1 3/8 inch fresnel globe, hollow brass pole, wiring concealed inside pole, and cast bronze flag pole socket complete ready for installation.



Fig. 603

Length Overall Inches	Outside Diam. Pole Inches	Weight Oz.	Plating		
			Polished Brass Each	Nickel Plated Each	Chromium Plated Each
24	1 1/8	12			
30	1 1/8	16			
Length Inches					
24			\$4.00	\$4.50	\$5.25
30			4.25	4.75	6.00

Maple Flag Poles

POLISHED

Length Overall Inches	Diameter Base Inches	Each
18	1	\$.30
24	1	.35
30	1	.40
36	1 1/4	.45
42	1 1/4	.55
48	1 1/4	.65
54	1 1/4	.80
60	1 1/2	.85
66	1 1/2	1.00

Fig. 713

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished. Diameter base 1 1/4 inches.



Fig. 496

Length Overall Inches	Weight Oz.	Price Each
18	2 1/2	\$1.00
20	3	1.20
24	3 1/2	1.40
30	4	2.00
36	4 3/4	2.40
42	5 1/4	2.60
48	6	2.80

Can be furnished with 1 inch base if specified.

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



Pole Lights

WROUGHT BRASS

All with screw type fresnel ball globes, double contact electric sockets and 5 feet of rubber covered waterproof cable. Opening in globes is 1 1/2 inch which will admit a 50 C. P. bulb.

Pole Lights

CAST BRONZE

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



Fig. 482

WITH 2 1/2 INCH GLOBE
FOR SOLID POLE
CABLE THROUGH SIDE

Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
5	3/4	12
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.25	\$2.50	\$3.00



Fig. 601

JUNIOR PATTERN
FOR SOLID POLE
CABLE THROUGH SIDE
Globe with brass ferrule, cut thread opening will admit a 3 or 6 C. P. bulb.

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
1 3/8	4 1/4	1/2	4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.00	\$2.25	\$2.75	



Fig. 491

WITH 2 1/2 INCH GLOBE
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
5	3/4	12
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.25	\$2.50	\$3.00



Fig. 600

JUNIOR PATTERN
FOR HOLLOW POLE
CABLE THROUGH BOTTOM
Globe with brass ferrule, cut thread opening will admit a 3 or 6 C. P. bulb.

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
1 3/8	4 1/4	1/2	4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.00	\$2.25	\$2.75	

Figs. 600 and 601 Pole Lights can be furnished with 1/4 inch pipe thread in bottom—add \$.20 each.

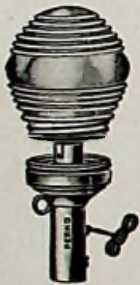


Fig. 508

WITH 3 INCH GLOBE
FOR SOLID POLE
CABLE THROUGH SIDE

Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
5 3/4	3/4	1
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.25	\$2.50	\$3.00



Fig. 498

HEAVY PATTERN
FOR SOLID POLE
CABLE THROUGH SIDE
WITH 2 1/2 OR 3 INCH GLOBE

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2 1/2 or 3	5	3/4	1 1/2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$3.50	\$3.75	\$4.75	



Fig. 483

WITH 3 INCH GLOBE
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
5 3/4	3/4	1
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.25	\$2.50	\$3.00



Fig. 484

HEAVY PATTERN
FOR HOLLOW POLE
CABLE THROUGH BOTTOM
WITH 2 1/2 OR 3 INCH GLOBE

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2 1/2 or 3	5	3/4	1 1/2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$3.50	\$3.75	\$4.75	



Stern Lights

BRASS

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

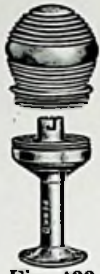


Fig. 422

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
7	2½	2½ or 3	12
Polished Brass Each		Nickel Plated Each	Chromium Plated Each
\$3.00		\$3.25	\$3.75

Can be had in any height from 4 inches up. For each additional inch above the standard height add 20c. 2½ inch globes furnished unless 3 inch are requested.

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

Stern Lights

CAST BRONZE

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



Fig. 506

Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
6½	1½	2½ or 3	18
Polished Bronze Each		Nickel Plated Each	Chromium Plated Each
\$4.00		\$4.25	\$4.75

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

2½ inch globes furnished unless 3 inch are requested.

Stern Lights

CAST BRONZE



Fig. 375

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

Height Inches	Diam. Base Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.
7	3½	3½	3¾ x 3¾	2½
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each
\$7.00		\$7.50		\$8.00

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

Furnished with standard screw socket at above prices if desired.

Mast Lights

CAST BRONZE



Fig. 521

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

Height Inches	Diam. Body Inches	Size Lens Inches	Inside Diam. Neck Inches	Weight Lbs.
6¾	3½	3¾ x 3¾	1¼ or 1½	2
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each
\$6.50		\$6.90		\$7.25

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

Furnished with standard screw sockets at above prices if desired.

Stern Lights

WITH THREADED BASE GLOBE

CAST BRONZE



Fig. 112

Equipped with clear fresnel lens and double contact or standard screw electric sockets.

Height Overall Inches	Diam. Base Inches	Size of Globe Inches	
8¾	3½	5 x 3½	
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$4.00	\$4.50	\$5.00	\$5.50

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

Mast Lights

WITH THREADED BASE GLOBE

CAST BRONZE



Fig. 113

Equipped with clear fresnel lens and double contact or standard screw electric socket.

Height Overall Inches	For Mast Inches	Size of Globe Inches	
9	2½	5 x 3½	
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$4.50	\$5.50	\$6.00	\$7.00

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



Yard Arm Light

CAST BRONZE

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



Fig. 565

Diam. Globe Inches	Height Overall Inches	Size Base Inches	Weight Lbs.
4 1/4	5 3/4	2 3/4 x 1 1/4	1 1/4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$4.50	\$5.00	\$5.50	

Furnished with 2 inch diameter round base if desired.

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

Mast Truck and Yardarm Fixture

CAST BRONZE



Fig. 104

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

Height Overall Inches	Height Globe Inches	Width to Ends of Lugs Inches	Inside Diam. Globe Inches	Weight Lbs.
5 5/8	2 7/8	4 1/4	2 1/4	2
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$4.00	\$5.00	\$5.50	\$6.00	

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

Special Mast Light

MEDIUM SCREW SOCKET—PORCELAIN BASE
CAST BRONZE—THREADED GLOBE



Fig. 488



Fig. 489

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

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

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

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening In globe Inches
\$2.50	\$3.00	6	2 3/4	5 1/2 x 2 3/4	1 7/8

With Red, Green or Blue Globe add \$.50 Each
Clear Globes only80 Each
Extra Red, Green or Blue Globes only 2.00 Each
Special Porcelain Electric Sockets only50 Each

Mast Light

CAST BRONZE



Fig. 103

Threaded base, fresnel ball globe, cast bronze support and fittings, standard Edison socket (medium screw base). Globe is large enough to take 110 volt, 25 watt lamp. Base of light is threaded for 1/2 inch pipe, standard thread. Rubber gasket insures water-tight fitting.

Height Overall Inches	Height Globe Inches	Outside Diam. Globe Inches	Inside Diam. Globe Inches	Weight Lbs.
5 5/8	2 7/8	3	2 1/4	2
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$4.00	\$5.00	\$5.50	\$6.00	

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

Mast Light

MEDIUM SCREW SOCKET—PORCELAIN BASE
CAST BRONZE—THREADED GLOBE



Fig. 309

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

Height Overall Inches	Size Globe Inches	Opening In globe Inches	
6 1/2	5 x 3 1/2	2 3/4	
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$4.00	\$5.00	\$5.50	\$6.00

Mast Light

CAST BRONZE—THREADED GLOBE
DOUBLE CONTACT SOCKET



Fig. 362

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

Height Overall Inches	Diameter Base Inches	Size Globe Inches	Weight Pounds
3 1/2	2 1/4	2 1/2 or 3	1
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$2.50	\$3.00	\$3.50	\$4.00

New Meal and Absent Light

CAST BRONZE—WATERTIGHT

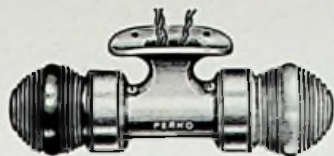


Fig. 330

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

One solid bronze casting with a curved mounting base and two fresnel ball globes, one blue, the other clear. Can also furnish with red or green globes if desired. 2½ inch diameter globes are furnished unless 3 inch are specified.

For bulbs to fit, see Fig. 8, page 43.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Weight Pounds
\$6.00	\$6.50	\$7.00	8¾	3¼ x 1¾	2¼

Yardarm Fixture

FOR MEAL AND ABSENT LIGHT
CAST BRONZE



Fig. 573

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Without Bulbs Inches	Size of Base Inches
\$5.00	\$5.50	\$6.00	4¾	3 1/8 x 2 1/8

Mast, Anchor, or Signal Light

CAST BRONZE

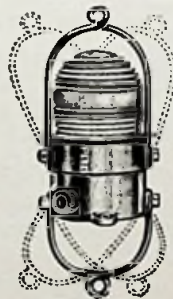


Fig. 105

Threaded base, fresnel ball globe, cast bronze fittings, standard Edison socket (medium screw base). Water-tight stuffing gland on side for wiring. Bail handles top and bottom for hanging from mast or yardarm. Two of these lights joined together by bottom lugs, one clear and one blue globe, makes a handy meal and absent light.

Height Overall Inches	Width Overall Inches	Inside Diam. Globe Inches	Height Globe Inches	Weight Lbs.
9	4	2¼	2¾	2¾

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$7.00	\$8.00	\$9.00	\$10.50

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

Mast or Blinker Lights

WITH MEDIUM SCREW SOCKETS

CAST BRONZE

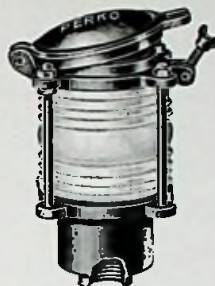


Fig. 403

With hinged top for quick replacement of bulb. Bottom is hexagon shape threaded for pipe. Used on yachts and ships for blinker signaling.

No.	Height Inches	Width Inches	Size Lens Inches	Threaded for Pipe Inches
1	6¾	4¾	3 3/8 x 3 1/2	1/2
2	8	5 5/8	4 1/4 x 4 1/4	3/4
3	9 1/2	7 1/4	5 3/8 x 6	1

No.	Black Finish Each	Polished Bronze Each	Chromium Plated Each
1	\$10.00	\$14.00	\$16.00
2	12.50	17.00	19.50
3	18.00	24.00	28.00

Anchor Light Bracket

FOR RIGGING—CAST BRONZE

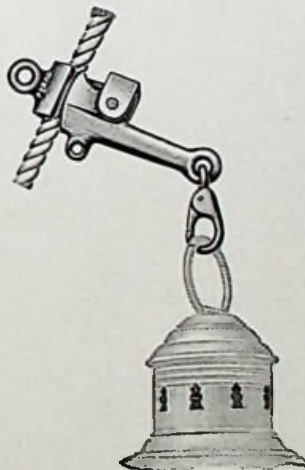


Fig. 356

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

Each	Length Inches	Weight Ounces
\$1.25	5	9



225 Degree or 20 Points of Compass

MASTHEAD, TOWING OR RANGE LIGHTS

American Improved Style

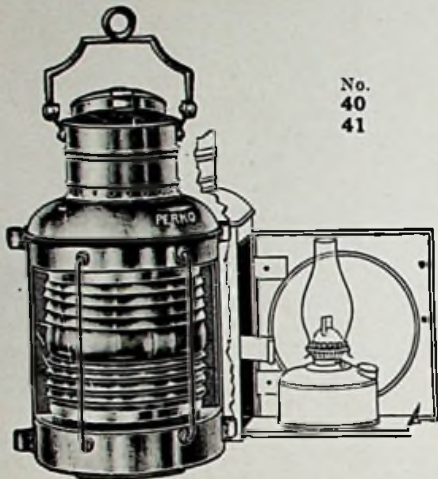


Fig. 981

OIL ONLY—OIL AND ELECTRIC OR ELECTRIC ONLY

No.	Size of Lens		Extreme Height Less Handle Inches	Size Base Inches	Centers of Lugs Inches
	Height Inches	Circum. Inches			
40	6 $\frac{3}{8}$	12 $\frac{1}{8}$	14 $\frac{1}{2}$	7x7 $\frac{1}{2}$	8 $\frac{1}{2}$
41	7	17 $\frac{1}{4}$	18 $\frac{1}{4}$	9x9 $\frac{3}{4}$	10 $\frac{3}{4}$

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished Copper
40	\$26.50	\$30.50	\$33.50
41	30.00	36.00	42.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$2.50 each.

For oil and two light electric equipment, add \$3.00 each.

For construction of this light and for Side, Bow and Anchor Lights to match see Page 26.



Fig. 982

Turret Top Style

OIL ONLY—OIL AND ELECTRIC OR ELECTRIC ONLY

No.	Size of Lens		Extreme Height Less Ring Inches	Size Base Inches
	Height Inches	Circum. Inches		
42	6 $\frac{3}{8}$	12 $\frac{1}{8}$	15	7x 7 $\frac{3}{4}$
43	7	17 $\frac{1}{4}$	18	9x10

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished Copper
42	\$18.00	\$23.50	\$29.50
43	23.00	30.00	36.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 42—For oil and one light electric equipment, add \$1.50 each

No. 43—For oil and one light electric equipment, add \$2.00 each. Oil and two light electric equipment, add \$2.50 each.

For construction of this light and for Side, Bow and Anchor Lights to match see Page 24.



Fig. 983

Flat Top Electric Style

ELECTRIC ONLY

No.	Size of Lens		Extreme Height Less Handle Inches	Size Base Inches	Centers of Lugs Inches
	Height Inches	Circum. Inches			
44	6 $\frac{3}{8}$	12 $\frac{1}{8}$	11	7x 7 $\frac{3}{4}$	8 $\frac{3}{8}$
45	7	17 $\frac{1}{4}$	13 $\frac{1}{2}$	9x10	11

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished Copper
44	\$18.00	\$23.50	\$29.50
45	23.00	30.00	36.00

For construction of this light and for Side, Bow and Anchor Lights to match see Page 28.

FOR NEW STYLE 3 WIRE SOCKET AND SPECIAL 2 FILAMENT BULB, SEE PAGE 2

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices

135 Degree Stern Lights Or 16 Points of Compass

American Improved Style

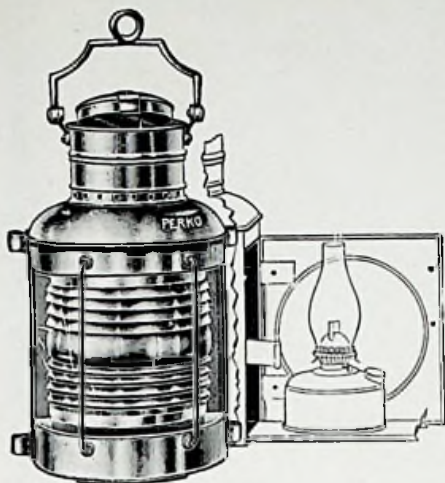


Fig. 984

Turret Top Style

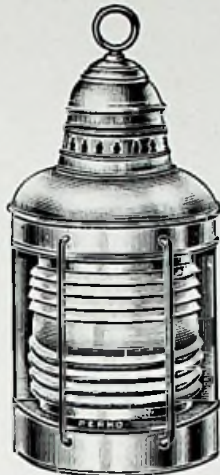


Fig. 985

Flat Top Electric Style



Fig. 986

FOR PRICES AND SIZES

FOR PRICES AND SIZES

FOR PRICES AND SIZES

No. 46—See Fig. 981, Lamp No. 40
47—See Fig. 981, Lamp No. 41

No. 48—See Fig. 982, Lamp No. 42
49—See Fig. 982, Lamp No. 43

No. 50—See Fig. 983, Lamp No. 44
51—See Fig. 983, Lamp No. 45

No. 46, 48 and 50—Size of Lens
No. 47, 49 and 51—Size of Lens

Height	Circum.
6 3/8	x 6 3/8
7	x 9 1/2

THE ABOVE LIGHTS ARE THE SAME CONSTRUCTION AS THOSE ILLUSTRATED ON PAGE 22 EXCEPT THAT THE LENS SHOWS A 135 DEGREE RADIUS OF LIGHT OR 16 POINTS OF THE COMPASS

New 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.



Fig. 532

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

Mogul Socket

PORCELAIN
FOR 3 WIRE SYSTEM

Used with our double filament bulb, Fig. 532.

Each\$1.50



Fig. 533

Sliding Fount

FOR BACK DOOR LIGHTS—BRASS



Fig. 1081

With double filament bulb, Fig. 532, mogul 3 wire socket, Fig. 533, and watertight stuffing gland.

Complete with bulb	Each \$11.00
Complete except bulb	6.00
Without reflector deduct	1.25

Swivel Fount

FOR ALL LIGHTS WITH BOTTOM OPENING



Fig. 1082

With double filament bulb, Fig. 532, mogul 3 wire socket, Fig. 533, and watertight stuffing gland.

Complete with bulb	Each \$8.00
Complete except bulb	3.25



Turret Top Running Lights

Made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after they are formed. All have heavy wire guards and are furnished complete with burner, wick and brackets. Brass or copper lamps are highly polished. Solid brass screw oil or electric founts for these lights are shown on page 41, F. Nos. 282, 288, 289, 335.



Fig. 21

Side Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens—		Extreme Height Inches	Height of Frame Inches	Size Base Inches	Weight per Pair Lbs.	For Size Boat Feet
	Height Inches	Cir. Inches					
8	5 5/8	6 1/4	15 1/2	9 1/2	6 1/2 x 7 1/2	12	65 to 70
9	5 3/4	8 1/2	16	10 1/4	6 1/2 x 8	15	76 to 80
10	6 3/4	8 3/4	17 1/2	11 1/2	7 1/2 x 9	17	96 to 100
11	7 1/2	11 1/2	21 1/4	13 3/4	9 1/2 x 12	29	126 & up

Furnished } Red for Port
in Pairs } Green for Starboard

PRICE PER PAIR

Nos.	Galvanized	Brass	Copper
8	\$18.00	\$30.00	\$42.00
9	20.00	35.00	46.00
10	22.00	37.00	50.00
11	34.00	50.00	60.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

Nos. 8, 9, 10—For oil and one light electric equipment, add \$3.00 per pair to above prices.

No. 11—For oil and one light electric equipment, add \$4.00 per pair. Oil and two light electric equipment, add \$5.00 per pair to above prices.

180 Degree Bow Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens—		Extreme Height Inches	Height of Frame Inches	Size Base Inches	Weight Each Lbs.	For Size Boat Feet
	Height Inches	Cir. Inches					
14	5 1/2	9 1/2	16 1/2	10 1/2	7 x 7	8	65 to 70
15	6 3/8	9 1/2	17	11	7 1/2 x 7	9	96 to 100
16	7 3/8	12 1/2	21 1/4	13 3/4	9 x 9 1/2	14	126 & up

PRICE EACH—CLEAR LENS

Nos.	Galvanized	Brass	Copper
14	\$12.00	\$18.00	\$23.00
15	13.50	19.00	25.00
16	18.00	25.00	31.00

WITH RED, GREEN OR BLUE LENSES

14	\$15.00	\$21.00	\$26.00
15	17.00	22.50	28.50
16	23.00	30.00	36.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 14 and 15—For oil and one light electric equipment, add \$1.50 each to above prices.

No. 16—For oil and one light electric equipment, add \$2.00 each. Oil and two light electric equipment, add \$2.50 each to above prices.



Fig. 22

Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens—		Extreme Height Inches	Height of Frame Inches	Diam. of Base Inches	Weight Each Lbs.	For Size Boat Feet
	Height Inches	Diam. Inches					
22	5 3/8	5 3/8	17	11	7 1/2	9	65 to 70
22 1/2	6 3/8	5 3/8	18 1/2	12 1/2	7 1/2	10	96 to 100
23	7	7 1/2	21 1/2	14 1/4	9 1/2	16	126 & up

PRICE EACH—CLEAR LENS

Nos.	Galvanized	Brass	Copper
22	\$12.00	\$19.00	\$25.00
22 1/2	14.00	20.00	27.00
23	18.00	26.50	34.00

WITH RED, GREEN OR BLUE LENSES

22	\$15.00	\$22.00	\$28.00
22 1/2	17.50	23.50	30.50
23	23.00	31.50	39.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 22 and 22 1/2—For oil and one light electric equipment, add \$1.50 each to above prices.

No. 23—For oil and one light electric equipment, add \$2.00 each. For oil and two light electric equipment, add \$2.50 each to above prices.

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices



Fig. 23

"Perko" Turret Top De-Lite Running Lights

FOR TUG BOATS OR ANY VESSEL 96 TO 125 FEET IN LENGTH

The "Perko" front door motor boat lights have proven such a success that a demand has been created for the larger lights containing the same features. Front door stamped from one piece of brass for both the galvanized and brass lights. Copper lights have heavy sheet copper door. Lens and guards fastened with screws can easily be replaced, nickel plated brass reflector, brass oil fount leak-proof, electric socket set in back of oil fount and properly focused. Standard Edison socket (medium screw base).

PATENTED AND OTHER PATENTS PENDING

De-Lite Side Lights

Furnished } Red for Port
in Pairs } Green for Starboard

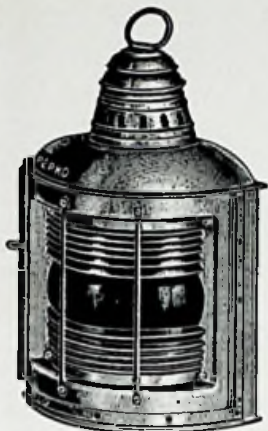
NO. 10 SIZE

Extreme height, 17½ inches
Height of frame, 11½ inches
Width, 7½ inches x 9 inches
Size of lens, 6¾ inches x 8¾ inches
Net weight, per pair, 17 pounds.

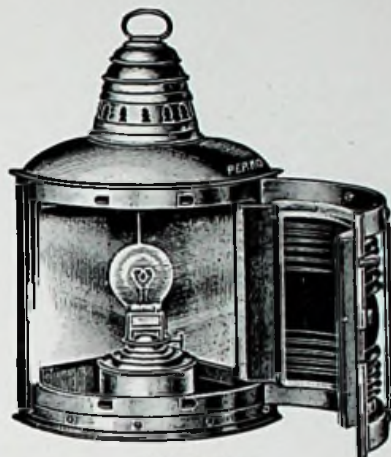
PRICE PER PAIR

	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$22.00	\$37.00	\$50.00
Oil and Electric	25.00	40.00	53.00

For oil and two light electric equipment, add \$1.00 per pair to above prices on oil and electric.



(Closed)
Fig. 0-21



(Opened)

180 Degree De-Lite Bow Lights

NO. 15 SIZE

Extreme height, 17 inches
Height of frame, 11 inches
Width, 7½ inches x 7 inches
Size of lens, 6¾ inches x 9½ inches
Net weight, each, 9 pounds

PRICE EACH—CLEAR LENS

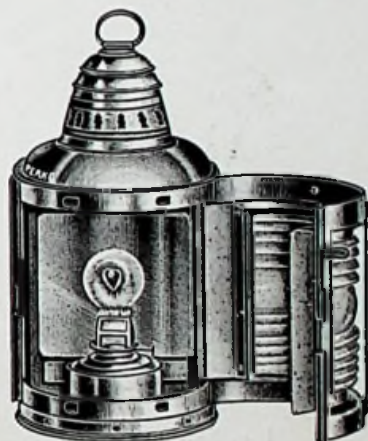
	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$13.50	\$19.50	\$25.00
Oil and Electric	15.00	20.50	26.50

For oil and two light electric equipment, add \$.50 each to above prices on oil and electric.

With red, green or blue lens, add \$3.50 each to above prices.



(Closed)
Fig 0-22



(Opened)

De-Lite Anchor Lights

Furnished with fresnel lens, 360 degree, and the "Perko" 2 in 1 oil and electric fount, swivel type (patent applied for).

NO. 22½ SIZE

Extreme height, 18½ inches
Height of frame, 12½ inches
Diameter of base, 7½ inches
Size of lens, 6¾ inches x 5¾ inches
Net weight, each, 10 pounds

PRICE EACH—CLEAR LENS

	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$14.00	\$20.00	\$27.00
Oil and Electric	15.50	21.50	28.50

With red, green or blue lens, add \$3.50 each to above prices.

All the above lights are guaranteed to pass the requirements of the U. S. Steamboat Inspection Department.



Fig. 0-23



Fig. 335

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices



American Improved Running Lights

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

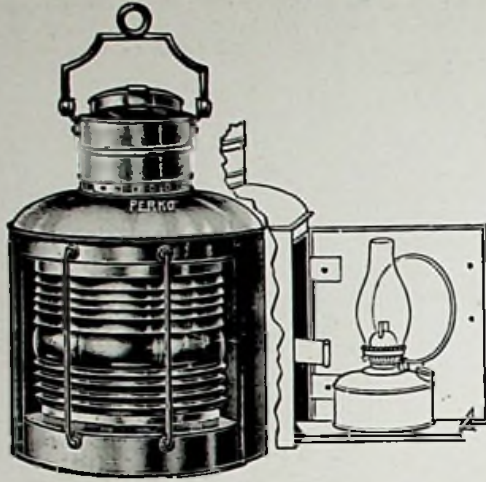


Fig. 24

Side Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens		Extreme Height Inches	Height of Frame Inches	Width Inches	Weight per Pair Lbs.	For Size Boat Feet
	Height Inches	Clr. Inches					
62	5 3/4	8 1/2	13 1/2	10 1/2	6 1/2 x 7 3/4	18	75 to 95
63	6 3/4	8 3/4	15	11 3/4	7 3/4 x 8 3/4	21	96 to 125
64	7 1/2	11 1/2	18	13 1/2	9 1/2 x 11 1/2	36	126 & up

PRICE PER PAIR

Lamp Nos.	Galvanized Iron	Polished Brass	Polished Copper
62	\$36.00	\$43.00	\$56.00
63	38.00	45.00	60.00
64	48.00	66.00	74.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$5.00 per pair above prices.

For oil and two light electric equipment, add \$6.00 per pair above prices.

180 Degree Bow Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens		Extreme Height Inches	Height of Frame Inches	Width Inches	Weight Each Lbs.	For Size Boat Feet
	Height Inches	Clr. Inches					
76	5 1/2	9 1/2	14	11	7 x 7	10	65 to 95
77	6 5/8	9 1/2	15	11 3/4	7 x 7	11	96 to 125
78	7 3/8	12 1/2	18	13 1/2	9 x 9 1/2	17	126 & up

PRICE EACH—CLEAR LENS

Lamp Nos.	Galvanized Iron	Polished Brass	Polished Copper
76	\$20.00	\$24.00	\$28.00
77	22.00	26.00	29.00
78	25.00	31.00	37.00

WITH RED, GREEN OR BLUE LENSES

76	\$23.00	\$27.00	\$31.00
77	25.50	29.50	32.50
78	30.00	36.00	42.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$2.50 each to above prices.

For oil and two light electric equipment, add \$3.00 each to above prices.

Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Lamp Nos.	Size of Lens		Extreme Height Inches	Height of Frame Inches	Diam. of Base Inches	Weight Each Lbs.	For Size Boat Feet
	Height Inches	Diam. Inches					
84	5 3/8	5 3/8	13 3/4	11 1/4	7 1/4	10	65 to 95
85	6 3/8	5 3/8	15 3/4	12 3/4	7 1/4	12	96 to 125
86	7	7 1/2	17	13 3/4	9 1/2	18	126 & up

PRICE EACH—CLEAR LENS

Lamp Nos.	Galvanized Iron	Polished Brass	Polished Copper
84	\$14.00	\$21.00	\$28.00
85	15.00	22.00	29.00
86	22.00	32.00	36.00

WITH RED, GREEN OR BLUE LENSES

84	\$17.00	\$24.00	\$31.00
85	18.50	25.50	32.50
86	27.00	37.00	41.00

FOR COMBINATION OIL AND ELECTRIC EQUIPMENT

No. 84 and 85—Oil and one light electric equipment, add \$1.50 each to above prices.

No. 86—Oil and one light electric equipment, add \$2.00 each; oil and two light electric equipment, add \$2.50 each to above prices.



Fig. 26

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices

"Perko" American Improved De-Lite Running Lights

FOR VESSELS 96 TO 125 FEET IN LENGTH

The most practical and dependable running lights on the market for large vessels. They contain the same principles of construction as the American improved lights specified by the U. S. Shipping Board for use on American vessels and shown on page 26, except that these are further improved by the adoption of the front door instead of a back door. These lights can be mounted permanently. Interior can be cleaned or oil lamp lighted while light is mounted. Old style back door lights will not allow permanent mounting.

PATENTED AND OTHER PATENTS PENDING

De-Lite Side Lights

Furnished } Red for Port
in Pairs } Green for Starboard

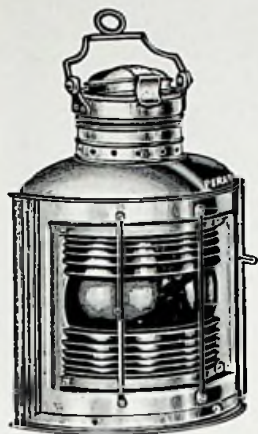
NO. 63 SIZE

Extreme height, 15 inches
Height of frame, 11 $\frac{3}{4}$ inches
Width, 7 $\frac{3}{4}$ inches x 8 $\frac{3}{4}$ inches
Size of lens, 6 $\frac{3}{4}$ inches x 9 inches
Weight, per pair, 21 pounds

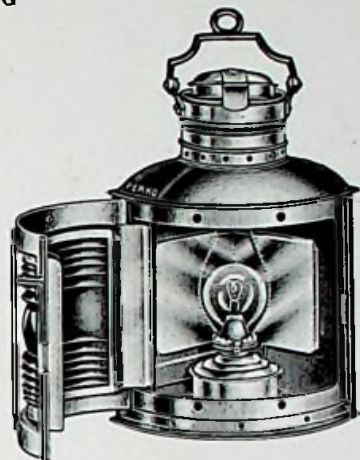
PRICE PER PAIR

	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$38.00	\$45.00	\$60.00
Oil and Electric	43.00	50.00	65.00

For oil and two light electric equipment, add \$1.00 per pair to above prices on oil and electric.



(Closed)
Fig. 0-24



(Opened)

180 Degree De-Lite Bow Lights

NO. 77 SIZE

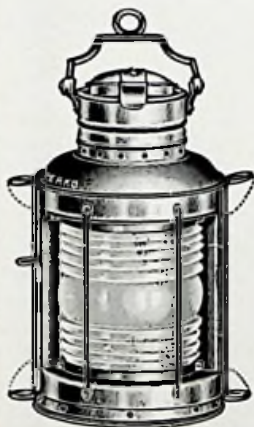
Extreme height, 15 inches
Height of frame, 11 $\frac{3}{4}$ inches
Width, 7 inches x 7 inches
Size of lens, 6 $\frac{3}{4}$ inches x 9 $\frac{1}{2}$ inches
Weight, each, 11 pounds

PRICE EACH—CLEAR LENS

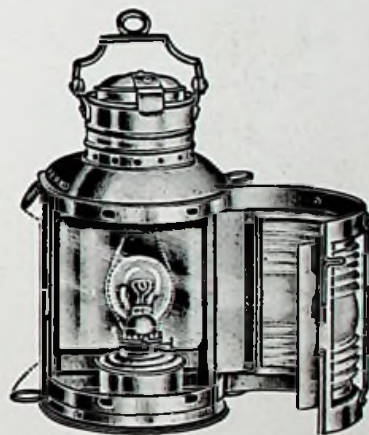
	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$22.00	\$26.00	\$29.00
Oil and Electric	24.50	28.50	31.50

With oil and two light electric equipment, add \$.50 each to above prices, on oil and electric.

With red, green or blue lenses, add \$3.50 to above prices.



(Closed)
Fig. 0-25



(Opened)

De-Lite Anchor Lights

Furnished with fresnel lens, 360 degree, and the "Perko" 2 in 1 oil and electric fount, swivel type (patent applied for).

NO. 85 SIZE

Extreme height, 15 $\frac{1}{4}$ inches
Height of frame, 12 $\frac{1}{4}$ inches
Diameter of base, 7 $\frac{1}{4}$ inches
Size of lens, 6 $\frac{3}{4}$ inches x 6 inches
Net weight, each, 12 pounds

PRICE EACH—CLEAR LENS

	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$15.00	\$22.00	\$29.00
Oil and Electric	16.50	23.50	30.50

With red, green or blue lenses, add \$3.50 each to above prices.

All the above lights are guaranteed to pass the requirements of the U. S. Steamboat Inspection Department.

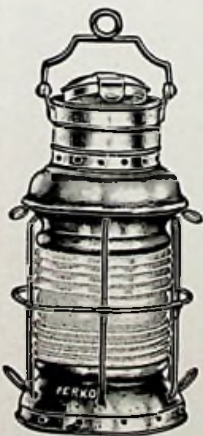


Fig. 0-26



Fig. 335

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices



Electric Regulation Size Running Lights



Fig. 30

Side Lights	Nos.	Size of Lens Inches
	109	5 3/4 x 8 1/2
	110	6 3/4 x 8 3/4
Fig. 30	111	7 1/2 x 11 1/2



Fig. 31

	Nos.	Size of Lens Inches	Height less Handle Inches	Extreme Height Inches	Size Base Inches	Net Weight per Pair Lbs.	Price Per Pair		
							Galv.	Brass	Cop
	114	5 1/2 x 9 1/2	11	13 1/2	7 x 7	6	\$12.00	\$18.00	\$23.00
	115	6 3/8 x 9 1/2	11 3/4	14 1/4	7 1/2 x 7	6 1/2	13.50	19.00	25.00
Fig. 31	116	7 3/8 x 12 1/2	13 1/2	16	9 x 9 1/2	10 1/2	18.00	25.00	31.00



Fig. 32

Anchor Light	Nos.	Size of Lens Inches	Height less Handle Inches	Extreme Height Inches	Diameter Inches	Net Weight Each Lbs.	Price Each, Clear Lens		
							Galv.	Brass	Cop
	122	5 3/8 x 5 3/8	11 1/4	13 3/4	7 1/2	8	\$12.00	\$19.00	\$25.00
	122 1/2	6 5/8 x 5 1/4	12 1/4	14 3/4	7 1/2	10 1/2	14.00	20.00	27.00
Fig. 32	123	7 x 7 1/2	12 3/8	15 1/2	9 1/2	15	18.00	26.50	34.00

With Ruby, Green or Blue Lens

No. 114	15.00	21.00	26.00
No. 115	17.00	22.50	28.00
No. 116	23.00	30.00	36.00

With Ruby, Green or Blue Lens

No. 122	15.00	22.00	28.00
No. 122 1/2	17.50	23.50	30.00
No. 123	23.00	31.50	39.00

Extra Heavy Large Size 8-Inch Face Lights

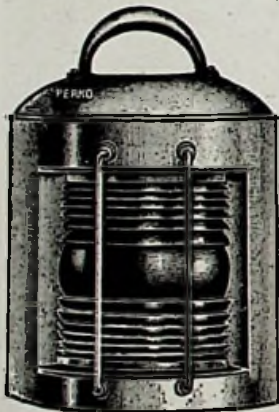


Fig. 33

Side Light—Fig. 33	Size of Lens Inches	8 7/8 x 9 3/4
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Fig. 34

Masthead Light—Fig. 34	Size of Lens Inches	8 7/8 x 20	Height less Handle Inches	14 1/4	Extreme Height Inches	16 7/8
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Fig. 34	Size Base Inches	9 1/2 x 11	Net Weight per Pair Lbs.	30	Price per Pair—	Brass	Cop
	Size Base Inches	12 x 9 3/4	Net Weight Each Lbs.	18	Price Each, Clear Lens	Brass	Cop

With Two Ruby or Green Lenses

Anchor Light—Fig. 35	Size of Lens Inches	7 x 8	Height less Handle Inches	12 3/8	Extreme Height Inches	15 1/2	Diameter Inches	9 1/2	Net Weight Each Lbs.	15	Price Each, Clear Lens	Brass	Cop
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With Ruby, Green or Blue Lens

Lights Nos. 109, 110, 114, 115, 122, 122 1/2 furnished with one light electric equipment. All other sizes can be furnished with one or two light electric equipment at the above prices.

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices

“Perko” Flat Top De-Lite Running Lights

FOR VESSELS 96 TO 125 FEET IN LENGTH

Used for practicability and appearance, front door stamped in one piece, lens and guards fastened with screws, nickel plated brass reflector, large capacity oil fount—leak-proof. No. 2 oil burner, electric socket in back of oil fount, properly focused, Standard Edison Socket (medium screw base).

PATENTED AND OTHER PATENTS PENDING

De-Lite Side Lights

Furnished } Red for Port
in Pairs } Green for Starboard

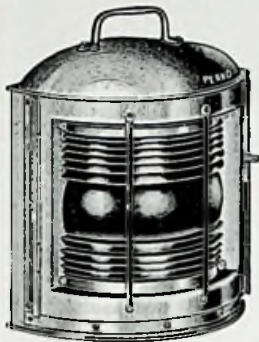
NO. 110 SIZE

Extreme height, 14¼ inches
Height, less handle, 11¼ inches
Width, 7¼ inches x 9 inches
Size of lens, 6¾ inches x 8¾ inches
Net weight, per pair, 15½ pounds

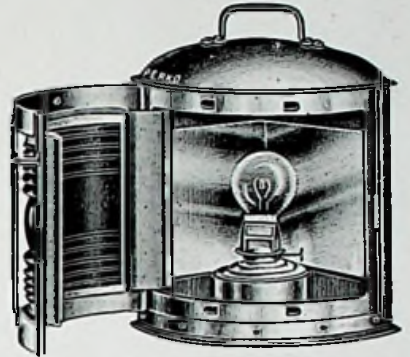
PRICE PER PAIR

	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$22.00	\$37.00	\$50.00
Oil and Electric	25.00	40.00	53.00

For oil and two light electric equipment, add \$1.00 per pair to above prices on oil and electric.



(Closed)
Fig. 0-27



(Opened)

180 Degree De-Lite Bow Lights

NO. 115 SIZE

Extreme height, 14¼ inches
Height, less handle, 11¼ inches
Width, 7½ inches x 7 inches
Size of lens, 6½ inches x 9½ inches
Net weight, each, 6½ pounds

PRICE EACH—CLEAR LENS

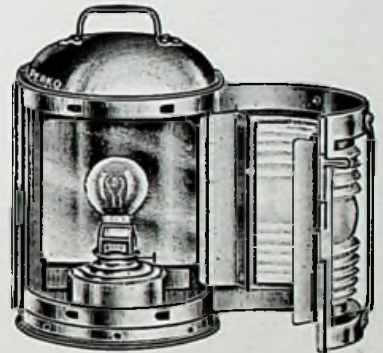
	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$13.50	\$19.00	\$25.00
Oil and Electric	15.00	20.50	26.50

For oil and two light electric equipment, add \$.50 each to above prices on oil and electric.

With red, green or blue lens, add \$3.50 to above prices.



(Closed)
Fig. 0-28



(Opened)

De-Lite Anchor Lights

Furnished with fresnel lens, 360 degree, and the “Perko” 2 in 1 oil and electric fount, swivel type (patent applied for).

NO. 122½ SIZE

Extreme height, 14¾ inches
Height, less handle, 12¼ inches
Diameter of base, 7½ inches
Size of lens, 6¾ inches x 5¼ inches
Net weight, each, 10½ pounds

	Galvanized Iron	Polished Brass	Polished Copper
Oil or Electric	\$14.00	\$20.00	\$27.50
Oil and Electric	15.50	21.50	28.50

With red, green or blue lens, add \$3.50 to above prices.

The above lights are guaranteed to pass the requirements of the U. S. Steamboat Inspection Department.

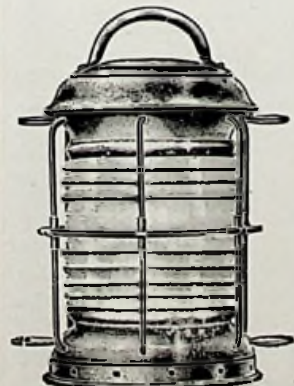


Fig. 0-29



Fig. 335

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices

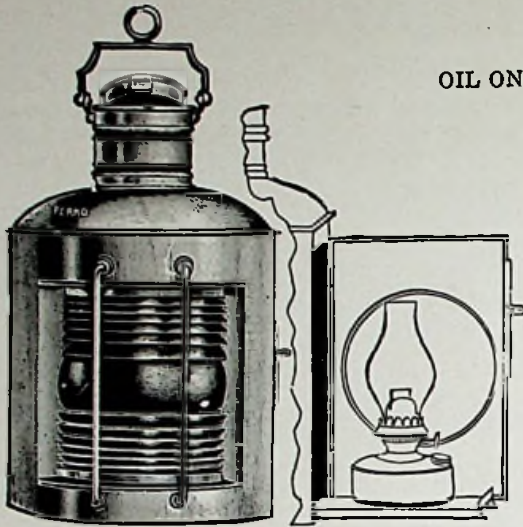


Fig. 27

8-Inch Face Side Lights

LARGE SIZE—EXTRA HEAVY

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Same construction as the American improved running light but of heavier metal and in larger size, used on the larger ocean going vessels. Has heavy cast bronze trimmings, heavy wire guards, soldered and reinforced, body riveted and soldered, back door and sliding fount, burner wick. Chimney and reflector included in the standard equipment. Standard Edison sockets used in electric equipment.

Furnished } Red for Port
in Pairs } Green for Starboard

Extreme height, 20 1/4 inches
Height of frame, 15 1/2 inches
Width, 9 1/2 inches x 11 inches
Size of lens, 8 3/8 inches x 9 3/4 inches
Weight, per pair, 36 pounds

Oil or electric only
Oil and one light electric
Oil and two light electric

PRICE PER PAIR		
	Brass	Copper
Oil or electric only	\$72.00	\$80.00
Oil and one light electric	77.00	85.00
Oil and two light electric	78.00	86.00

8-Inch Double Face Masthead—Bow Range or Stern Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Same construction as side light above, equipped with two inch clear fresnel lenses, back door, sliding fount, No. 2 dual burner and chimney, nickel plated reflector. Electric equipment consists of one or two standard Edison porcelain sockets mounted on sliding platform. Colored lenses, red or green.

Extreme height, 20 1/4 inches
Height of frame, 14 1/4 inches
Width, 12 inches x 9 3/4 inches
Size of lens, 8 3/8 inches x 20 inches
Net weight, each, 19 pounds

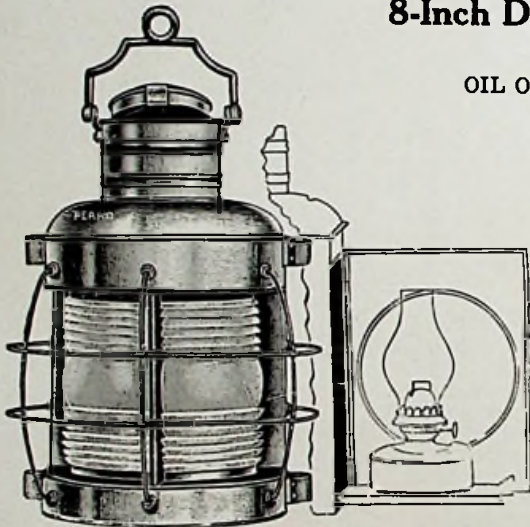


Fig. 28

	PRICE EACH	
	Brass	Copper
With clear lenses—Oil or Electric only	\$66.00	\$78.00
With colored lenses—Oil or Electric only	72.00	85.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

Oil and one light electric equipment, add \$2.50 each to above price
Oil and two light electric equipment, add \$3.00 each to above price

8-Inch Anchor or Riding Lights

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Extra heavy construction, for use on large ocean going vessels. Equipped with 8-inch diameter fresnel lens, large swivel fount, No. 2 dual burner and chimney. Electric equipment consists of one or two electric Edison porcelain sockets mounted on one base. Colored fresnel lens, red, green or blue.

Extreme height, 17 inches
Height of frame, 12 1/2 inches
Diameter of base, 9 1/2 inches
Size of lens, 7 inches x 8 inches
Net weight, each, 18 pounds

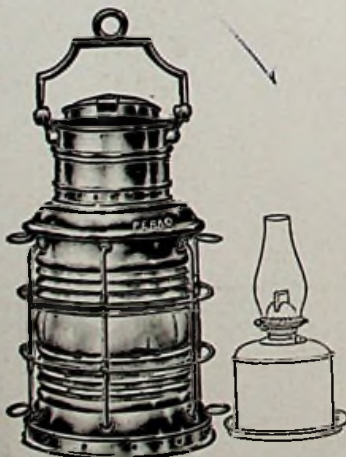


Fig. 29

With clear lens—Oil or Electric only
With colored lens—Oil or Electric only

	PRICE EACH		Copper
	Galvanized	Brass	
With clear lens—Oil or Electric only	\$22.00	\$32.00	\$36.00
With colored lens—Oil or Electric only	27.00	37.00	41.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

For oil and one light electric equipment, add \$2.00 to above prices.
For oil and two light electric equipment, add \$2.50 to above prices.

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices

Norwegian Regulation Running Lights

GUARANTEED TO PASS NORWEGIAN REGULATIONS ON RUNNING LIGHTS

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

TO BURN OIL OR ELECTRIC

Side



Fig. 36

Masthead



Fig. 37

Stern



Fig. 38

Anchor



Fig. 39

Fig.		Size of Lens		Extreme Height Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. Inches						Galv.	Copper
36	Side Lights	7	12 1/4	21 1/2	14	9 1/2 x 12	37	Pair	\$65.00	\$115.00
37	Masthead Lights	7 1/2	21	21 1/2	14	11 x 11 1/4	27	Each	50.00	65.00
38	Stern Lights	7 1/2	10 7/8	21 1/2	14	10 1/2 x 9 1/4	17	Each	45.00	60.00
39	Anchor Lights	7 1/2	10 diam.	21 1/2	14	10 1/2 diam.	22	Each	45.00	60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

For combination oil and electric, add \$3.00 to above prices.

Extra colored shades with brass frame for side lights, price, each, \$3.50.

English Regulation Running Lights

GUARANTEED TO PASS INSPECTION OF THE BRITISH BOARD OF TRADE

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

TO BURN OIL OR ELECTRIC

Side



Fig. 40

Masthead



Fig. 41

Stern



Fig. 48

Anchor



Fig. 42

Fig.		Size of Lens		Extreme Height Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. Inches						Galv.	Copper
40	Side Lights	7	12 1/4	20 3/4	14 1/4	9 1/2 x 11 3/4	32	Pair	\$65.00	\$115.00
41	Masthead Lights	7 1/2	21	22	15 1/2	11 1/4 x 11 1/4	30	Each	50.00	65.00
48	Stern Lights	7 1/2	10 7/8	21 1/2	14	10 1/2 x 9 1/4	20	Each	45.00	60.00
42	Anchor Lights	7 1/2	10 diam.	20 1/2	14	10 1/2 diam.	24	Each	45.00	60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

For combination oil and electric, add \$5.00 to above prices.

Extra colored shades for side lights—Price, each, \$3.00.

Electric socket is standard Edison (medium screw base) or double contact English bayonet type.



Ferry Boat Side Lights

FOR DOUBLE END BOATS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

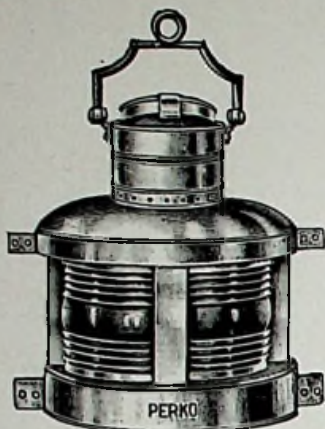


Fig. 62

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

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

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

Pilot House Lights—For Ferry Boats

HEXAGON SHAPE

Made from 32 ounce copper (cold rolled). Spun ball top, shaped body joined together with braces inside and well soldered. Glass is 3/8 inch thick, rubber packing around, then slid into a copper frame, which is held together by screws and wing nut. Front hinge door, two light electric fixture on the inside. Made according to specifications.

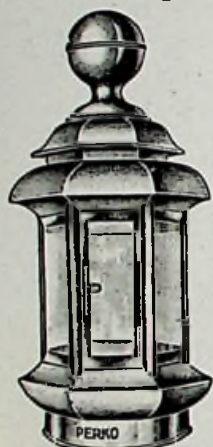


Fig. 61

Size Nos.	Height Overall Inches	Size of Lenses Inches	Diam. of Base Inches	Net Weight Lbs.	Price Each	
					Brass	Copper
1	38	8 1/2 x 15	15	55	\$250.00	\$275.00
2	53 1/2	8 3/4 x 20	15	80	275.00	300.00

(Price does not include gilding)

Pilot House Light—For Small Size Ferry Boats

ROUND BODY WITH HEXAGON SHAPED PANELS

Spun from 32 ounce, cold rolled copper. Front hinge door, two light electric, 3/8 inch thick glasses. Rubber packing around glass held in place by screws and wing nuts.



Fig. 79

Height Overall Inches	Size of Glass Inches	Diam. of Base Inches	Net Weight Lbs.	Price Each Polished Copper
24	3 3/8 x 10	8	10 1/2	\$80.00

Anchor Staff or Pole Light

BRASS OR COPPER—ELECTRIC ONLY

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



Fig. 16

Height Overall including Balls Inches	Size of Lens Inches	Height Overall less Balls Inches	Diam. Base Inches	Net Weight Each Lbs.	Price Each	
13 1/2	4 1/4 x 4 1/4	8 1/4	5 3/8	2 1/2	Brass	Copper
					\$9.00	\$12.00

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

Fisherman's Side Light

GLOUCESTER TYPE

For deep sea fishing vessels. This type of oil burning light is the most dependable light for its purpose on the market. Made of heavy gauge steel, hot galvanized after forming. A tubular lantern which slides in through open top of light is included in the equipment, furnished in pairs, for Port and Starboard sides.



Fig. 346

Extreme Height Inches	Diam. Bottom Inches	Size of Lens		Inside Lantern Used	Net Weight Per Pair Lbs.	Price per Pair	
		Height Inches	Clr. Inches			Galv.	Brass
16	10	6 3/4	9	Monarch Tubular	23	\$30.00	\$50.00
For combination oil and electric equipment						33.00	53.00

Fisherman's Bow Light

GLOUCESTER TYPE

Made of heavy gauge steel, hot galvanized after forming. Same construction and equipment as the famous Gloucester Fisherman's side light. Equipment consists of tubular oil lantern and clear fresnel lens, hinged top and back bracket.



Fig. 574

Extreme Height Inches	Diam. Bottom Inches	Size of Lens		Inside Lantern Used	Net Weight Each Lbs.	Each	
		Height Inches	Clr. Inches			Galv.	Brass
16	10	7	12 1/2	Monarch Tubular	12	\$16.00	\$30.00
For combination oil and electric equipment						17.50	31.50

Colored lens (red, green or blue) can be furnished if required. Add \$5.00 each to above prices.



Fig. 562

Fisherman's Anchor Light

GLOUCESTER TYPE

Made of heavy gauge steel, hot galvanized after forming. Same construction and equipment as the famous Gloucester Fisherman's side light. Equipment consists of tubular oil lantern and clear fresnel lens, hinged top.

Extreme Height Inches	Diam. Bottom Inches	Size of Lens		Inside Lantern Used	Net Weight Each Lbs.	Each	
		Height Inches	Diam. Inches			Galv.	Brass
17	10	7	8	Monarch Tubular	16 1/2	\$18.00	\$32.00

Colored lens (red, green or blue) can be furnished if required. Add \$5.00 each to above prices.

Tri-Color Trawler Light

FOR STEAM TRAWLERS

Constructed to comply with the international laws governing running lights on steam trawlers. Equipped with three fresnel lenses, red, white and green, of regulation size. Oil lamp is equipped with brass fount, No. 2 hinge burner, wick and chimney. Electric lamp is equipped with Edison base standard sockets (medium screw base), one or two light.

No.	Extreme Height Inches		Size of Base Inches	Height Lens Inches	Galvanized Each	Polished Brass Each	Polished Copper Each
	Fig. 407	Fig. 408					
1	15	11	7 x 7 3/4	6 3/4	\$27.00	\$37.00	\$45.00
2	17 1/2	13 1/4	9 1/4 x 10	7 3/8	30.00	40.00	48.00



Fig. 407
Oil Burning



Fig. 408
Electric Burning



Fig. 59

Regulation Pier Lights

180 DEGREE RUBY FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made in accordance with specifications of the U. S. Department of Commerce regulations for lighting of bridges and piers, of heavy gauge sheet metal, 180 degree ruby fresnel lens, oil or electric equipment, brackets for mounting, made with back door and sliding fount, as shown on Fig. No. 25, page 26, or with swivel fount, Fig. No. 2 going through bottom. Medium screw sockets in electric equipment.

Extreme height, 21 inches
 Meas. of base, 9 inches x 10 inches
 Width of back, overall, 14 1/2 inches
 Net weight, each, 13 pounds
 Size of lens, 7 inches x 12 1/2 inches

PRICE EACH—OIL OR ELECTRIC

	Galvanized	Brass	Copper
With back door	\$30.00	\$36.00	\$42.00
With swivel fount	26.00	33.00	39.00

Can also be had with flat top—electric only, same price as above.
 For combination Oil and Electric, add \$2.00 to above prices.
 With green or clear lens if desired at above prices.

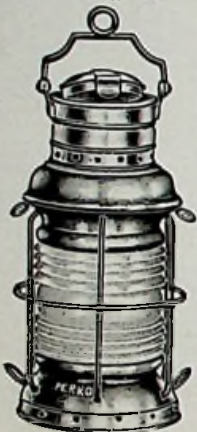


Fig. 80

Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

Extreme height, 17 inches
 Diameter of base, 9 1/2 inches
 Size of lens, 7 inches x 8 inches
 Net weight, each, 18 pounds

PRICE EACH

	Galvanized	Brass	Copper
With hinged top, for oil or electric	\$27.00	\$37.00	\$44.00
With hinge top, combination oil and electric	28.50	39.50	47.00
With flat top, for electric only as Fig. 32	23.00	31.50	39.00

With Ruby, Blue or Clear Lens if desired at above prices.

Regulation Draw Bridge Light

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

Height overall, 18 inches
 Size of square, 11 1/4 inches
 Net weight, each, 18 pounds
 Size of lens, 7 inches x 8 inches
 Size of glass panels overall 9 1/2 inches x 11 inches
 Size of glass panels exposed 8 1/4 inches x 10 inches

PRICE EACH

	Galvanized	Brass	Copper
	\$40.00	\$60.00	\$80.00

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



Fig. 63

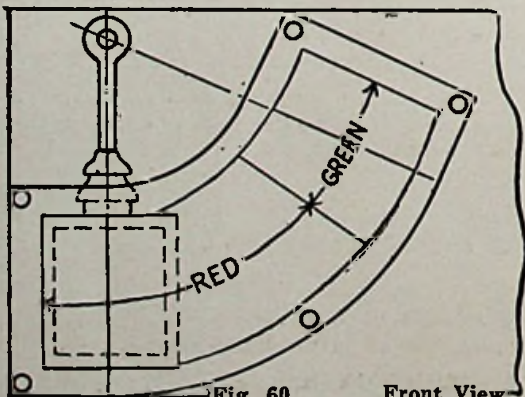


Fig. 60

Front View

Lift Bridge Lights

OIL OR ELECTRIC

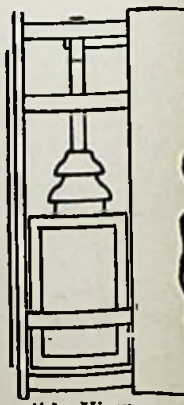
COMPLETE AS ILLUSTRATED

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

Extreme height, 23 inches
 Extreme width, 30 inches

PRICE EACH

Oil or electric, galvanized	\$150.00
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Side View

CAST BRONZE BRIDGE AND PIER LIGHTS

Made in accordance with specification of U. S. Department of Commerce regulations for lighting of bridges and piers.

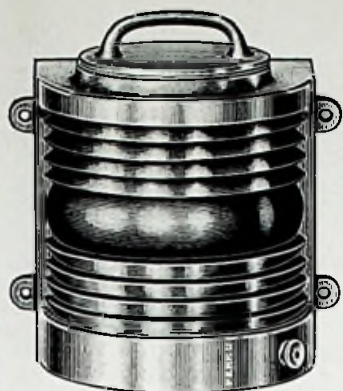


Fig. 1005

Regulation Pier Light

180 DEGREE RUBY FRESNEL LENS

Height overall less handle—9 $\frac{3}{8}$ inches.
 Width, between holes, center to center—9 $\frac{3}{8}$ inches.
 Height between holes, center to center—5 $\frac{3}{8}$ inches.
 Size of lens—7 $\frac{3}{8}$ inches high x 12 $\frac{1}{2}$ inches circumference of bulls eye.
 Sizes of base—width 8 $\frac{1}{4}$ inches; depth, 7 $\frac{1}{2}$ inches.
 Diameter of opening in top—5 inches.
 Weight—19 $\frac{1}{2}$ pounds.

Black Nickel Finish (not polished), each, \$30.00

With Green or Clear Lens if desired at above price

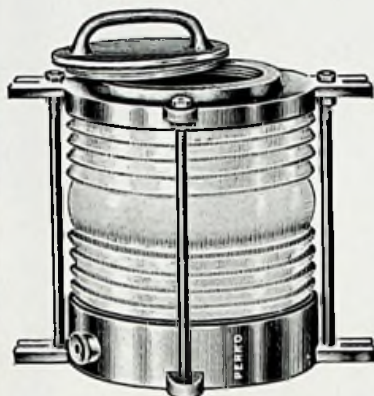


Fig. 1006

Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS

Height overall less handle—9 $\frac{1}{2}$ inches.
 Diameter body—8 inches.
 Width, end to end of guides—11 $\frac{1}{8}$ inches.
 Size of slot in guides— $\frac{3}{8}$ x1 inch.
 Size of lens—7 inches high x 8 inches diameter.
 Diameter of opening in top—5 inches.
 Weight—22 pounds.

Black Nickel Finish (not polished), each, \$32.00

With Ruby, Blue or Clear Lens if desired at above price

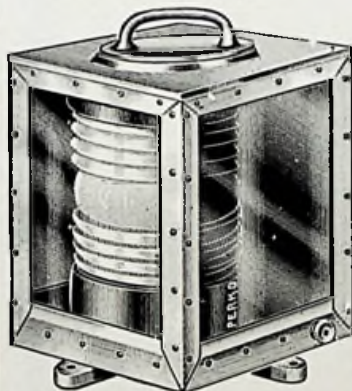


Fig. 1007

Draw Bridge Light

TWO RED AND TWO GREEN PANEL GLASSES
 SURROUNDING A 360 DEGREE CLEAR FRESNEL LENS

Height overall less handle—11 $\frac{1}{2}$ inches.
 Body—10 $\frac{3}{8}$ inches x 10 $\frac{3}{8}$ inches x 10 $\frac{3}{8}$ inches high.
 Width between holes, center to center in bottom—11 $\frac{1}{2}$ inches.
 Size of panels overall—9 $\frac{1}{4}$ inches x 9 $\frac{1}{8}$ inches.
 Size of panels exposed—8 $\frac{3}{8}$ inches x 8 $\frac{3}{8}$ inches.
 Size of clear fresnel—7 inches high x 8 inches diameter.
 Diameter of opening in top—5 inches.
 Weight—51 pounds.

Black Nickel Finish (not polished), each, \$50.00

Extra Red or Green Panel Glasses, \$2.00 Each



Fig. 1008

Aerial Beacon Light

Aeronautical regulations require beacon lights on all high structures around air ports and along air routes.

Of extra heavy and sturdy construction to withstand very extreme weather conditions. Globe is held by threaded collar and is easily removed to change bulb, absolutely water-tight. Greater height can be secured by adding required length of 1 inch pipe at joint in standard which is threaded.

Height overall—12 $\frac{3}{4}$ inches.
 Diameter of base—5 inches.
 Size of lens—4 $\frac{1}{4}$ inches diameter x 6 $\frac{1}{2}$ inches high x 3 $\frac{1}{2}$ inches opening.
 Weight—10 $\frac{1}{4}$ pounds.
 Bulb—will take up to 100 watt.

Black Nickel Finish (not polished), each, \$18.00

Extra Lens, Clear \$4.00; Ruby, Green, Blue or Amber, \$6.50 Each

DETAILED BLUE PRINTS OF ABOVE LIGHTS FURNISHED ON REQUEST

Globe—Distress or Signal Light

TURRET TOP
OIL OR ELECTRIC

Constructed of high grade, heavy materials. Colored globes are solid color—painted. Heavy wire guards protect globe.

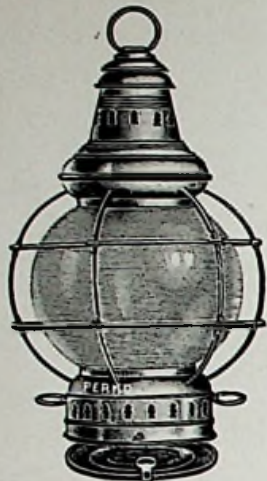


Fig. 44

WITH CLEAR GLOBE

Trade Size Inches	Diam. Globe Inches	Height Overall Inches	Net Weight Each Lbs.	Galvanized	Price Each Brass	Com
6	6	11	4	\$ 5.00	\$ 7.00	\$
8	8	14½	6	6.00	9.00	1
10	10	22	12	13.00	18.00	20

WITH RUBY, GREEN, BLUE OR FROSTED GLOBES

6	\$ 6.00	\$ 9.00	\$1
8	7.00	11.50	13
10	15.00	21.00	23

For combination Oil and Electric—6 and 8 inch sizes, add \$1.00.

For combination Oil and Electric—10 inch sizes, add \$1.50.

Navy or Life Boat Lantern

OIL ONLY

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



Fig. 49

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

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$2.50	\$5.00
With Ruby, Green or Blue Globe	4.00	6.50
With Electric Fount, Fig. 292, add	.50	.50

Superior Bulkhead Lantern

With Outside Sliding Glass

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



Fig. 46

Size Body		Height Overall Inches	Galvanized Each	Brass Each
Front Inches	Side Inches			
7x11	5¾x11	14	\$8.00	\$13
8x12	6½x12	15½	8.50	14
9x13	7¾x13	16	9.00	15

Engineer's Hand Lantern

OIL ONLY

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



Fig. 50

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

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$2.00	\$4.00
With Ruby, Green or Blue Globe	3.30	5.30
Spring Founts Only—All Brass		.67

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

Universal Wall Lamp

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



Fig. 312

Height of Back of Fount Inches	Diam. of Fount Inches	Net Weight Each Lbs.	Price Each Complete
9	5	1½	\$1.50

Above items desired CHROMIUM PLATED, add 40% to Brass or Copper Prices

Detroit Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS—POLISHED

Gimbel arrangement keeps the lamp in an upright position in a very heavy sea.

Equipped with hinge burner, wick, and lip chimney.



Fig. 138

No.	Capacity Pount Plnts	Diam. Wall Plate Inches	Height Inches	Extension Inches
1	1	4½	12½	6¼
2	1¼	5	12½	7

No.	Each
1	\$5.00
2	6.00

Arizona Cabin Lamp

DOUBLE SWING—WEIGHTED BASE

ALL BRASS—POLISHED

This is the Philadelphia cabin lamp Fig. 137 equipped with white opal shade, brass tripod, brass smoke bell and arm.

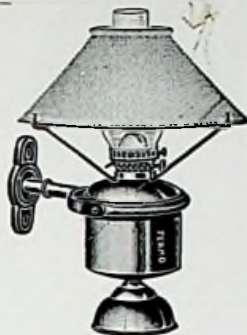


Fig. 126

Each Complete
\$11.00

Extension From
Wall to End
of Shade
Inches
11

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE

ALL BRASS—POLISHED

With gimbel arrangement, cast bronze wall plate and removable fount.

Fount capacity is 1½ pints, wall plate size is 4¾ x 2¾ inches.

Equipped with No. 2 hinge burner, wick, and lip chimney.



Fig. 137

No.	Each	Height Inches	Extension Inches
2	\$8.00	14	8½

Montana Cabin Lamp

STIFF BRACKET—NON SWING

ALL BRASS—POLISHED

This is the Maine cabin lamp Fig. 136 equipped with white opal shade, brass tripod, brass smoke bell and arm.



Fig. 125

Each Complete
\$9.00

Extension From
Wall to End
of Shade
Inches
10

Maine Cabin Lamp

STIFF BRACKET—NON SWING

ALL BRASS—POLISHED

With cast bronze bracket riveted to body, removable fount.

Fount capacity is 1½ pints, wall plate size is 3 x 1¾.

Equipped with No. 2 hinge burner, wick, and lip.



Fig. 136

No.	Each	Height Inches	Extension Inches
2	\$6.00	12	8

Midget Cabin Lamp

ALL BRASS—POLISHED
DOUBLE SWING—WEIGHTED BASE

Designed primarily for use in the cabins of small cruisers, ideal for the popular small motor sailers now in use, made as small and compact as possible.

Lamp body set in gimbal ring, will retain upright position regardless of motion of the boat.

One piece leak-proof fount holds ½ pint of oil.

Equipped complete with hinged burner, wick and 4 inch lip chimney.

Height Inches	Extension From wall Inches	Diameter Wall plate Inches
9	5	4

Complete with smoke bell \$6.10
Lamp only, without smoke bell 5.00
Smoke bell and arm only 1.10

Smoke Bell and Arm

Made of spun brass, cast brass arm.
Diameter of bell, 6 inches



Fig. 128

Polished Brass Each	Nickel Plated Each
\$1.10	\$1.75

When ordering Smoke Bells, specify whether for No. 1 or 2 cabin lamps.

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.

Constructed of high
ed. Heavy wire gua



Fig. 169



Fig. 170



Fig. 171



Ball Folded

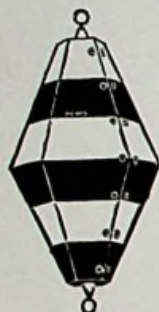


Fig. 172



Fig. 173



Frustrum Folded



Fig. 175



Fig. 176

Fig. No.	Description	Diam. Inches	Height Inches	Weight Lbs.	Price Each
169	5 Black ball signal	24	24	2 1/2	\$ 6.00
170	3 Red ball signal	24	24	2 1/2	9.00
171	4 Black and white ball signal	24	24	2 1/2	10.50
172	1 Black and white frustrum	24	48	5	25.00
173	2 Red frustrum	24	48	5	25.00
175	6 Clear towing light, galvanized	7 1/2	17	9	13.20
176	7 Red towing light, galvanized	7 1/2	17	9	16.50

Day Signals

ALL METAL

Made of heavy gauge sheet iron and painted.

A 24 inch diameter sphere when open, can be closed for storage, taking up very little space.



Opened
Fig. 256

Painted and clear globe, Each
Painted

Size of Globe Each
Inches Lbs.

The following signals we guarantee 1/2 x 4 1/4
our Day Shapes are made of highest grade
space.

- RULE NO. 1—For vessels having 1
- and in the night, in addition to regulati
- RULE NO. 2—For all style vessels (vanized
- required during the day, and at night tw
- RULE NO. 3—Dredges in station, 2.00
- No. 6 White Towing Lights and two of 4.00
- RULE NO. 4—For Self-Propelling 3.30
- two of our No. 5 Black Balls, and durin
- Four Point Red Lights. 5.30
- RULE NO. 5—For vessels which are
- Black and White Ball and one No. 3 Red

CHROMIUM PLATED

Signal Balls

AND FOR MARKING RACE COURSES

12 inch and 24 inch diameters
collapsible

Heavy wire ribs, brass finish
ends, 8 ounce cotton duck cover
in all colors.



Fig. 513

Diameter	Each	Each
12"	24	24
Black	\$ 6.00	\$ 6.00
Blue	9.00	9.00
White	9.00	9.00
Red	9.00	9.00
Striped	10.50	10.50

ON DAY SIGNALS

matation with new rules taking effect September 1, 1914. All
folded up when not in use and stowed away in a very s

w, shall display in daytime one No. 1 shape and one No. 2 sh
7 and two White No. 6 Towing Lights.
reeks, or moored over a wreck, two of our No. 2 shapes
d two of our No. 7 Red Towing Lights.
of our No. 3 Red Balls during the day, and at night two of
lights.
way with their suction in the bottom, require during the
to regulation lights, two Red Mast Head Lights and two sp
laying pipe on submarine construction during the day, one
ght three of our No. 7 Red Towing Lights.



Memorandums



"Perko" Brass Swivel Founts

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

Oil Fount

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

Net weight, each, 4 ounces Diameter of fount, 2 3/4 inches

PRICE PER DOZEN

Oil fount only, Fig. 582	\$ 8.00
Oil fount and burner, complete	9.90
Electric fount (medium screw base), Fig. 588	12.00



Fig. 582

Edison Electric Fount



Fig. 588

Brass Spring Founts

FOR OLD STYLE RUNNING LIGHTS
CLASSES 1, 2 AND 3

Oil and Electric Fount

Oil Fount

Oil and Electric Fount

Ediswan Fount Double Contact

Edison Fount Medium Screw Base



Fig. 733



Fig. 286

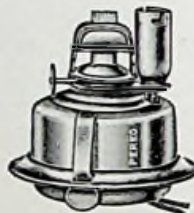


Fig. 736

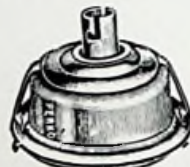


Fig. 291



Fig. 292

Fig. 733 for Fig. 1 Combination Lights, the balance illustrated are for Classes 2 and 3 Side and Bow Lights, Fig. 06 and Fig. 10 Anchor Lights, 8 inch Globe Lights and Navy Lanterns.

	Diameter Overall Inches	Diam. Opening in Light Inches	Net Weight Per Dozen Lbs.	Price Per Dozen
Fig. 286—Oil founts	3 3/8	3 1/8	1 1/2	\$ 8.00
Fig. 291—Ediswan founts	3 3/8	3 1/8	2	12.00
Fig. 292—Edison founts	3 3/8	3 1/8	2	12.00
Fig. 290—Candelabra founts	3 3/8	3 1/8	2	12.00
Fig. 736—Oil and Electric founts	3 3/8	3 1/8	4 1/2	18.00
Fig. 733—Oil and Electric founts	3 1/2	3 5/8	3 3/4	18.00
Fig. 733—For Oil only	3 1/2	3 5/8	3	8.00

Brass Swivel Founts

FOR CLASS 1 STERN LIGHT AND 6 INCH GLOBE LIGHTS

Oil and Electric Fount

Oil Fount

Ediswan Fount Double Contact

Edison Fount Medium Screw Base



Fig. 735



Fig. 287



Fig. 293



Fig. 274

	Diameter Overall Inches	Diam. Opening in Light Inches	Net Weight Per Dozen Lbs.	Price Per Dozen
Fig. 287—Oil fount	4 1/2	4	4	\$ 8.00
Fig. 293—Ediswan fount	4 1/2	4	4	12.00
Fig. 274—Edison fount	4 1/2	4	4	12.00
Fig. 735—Oil and Electric fount	4 1/2	4	4 1/2	18.00

Brass Swivel Founts

FOR TURRET TOP LIGHTS LARGER THAN CLASS 3

Oil Fount



Fig. 282

One Light Electric Fount
Medium Screw Base



Fig. 288

Two Light Electric Fount
Medium Screw Base

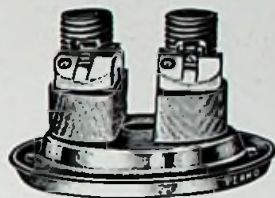


Fig. 289

Made of heavy gauge brass, with brass bar passing through sides and across bottom to hold fount in lamp and act as turning handle.

Nos.	For Side Light Nos.	For Bow Light Nos.	For Anchor Light Nos.	Diam. Opening in Light Inches	Diam. Base of Fount Inches	Burner Size Nos.	Fig. 282		Fig. 288		Fig. 289	
							Brass Each	Copper Each	Brass Each	Copper Each	Brass Each	Copper Each
1	8 & 9	14		3 3/4	4 3/4	1	\$1.00	\$1.50	\$1.50	\$2.00	....	....
2	10	15	22, 22 1/2 & 85	3 3/4	4 3/4	2	1.00	1.50	1.50	2.00	....	....
3	11	16	23 & 86	4 3/4	5 3/4	2	1.50	2.00	2.00	2.50	\$2.50	\$3.00

Brass Spring Founts

FOR TURRET TOP LIGHTS LARGER THAN CLASS 3

Oil Fount

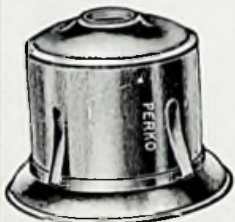


Fig. 283

Made of heavy gauge brass with brass spring clips to hold fount in lamp. Furnished for oil only, or one light and two light electric burning. Two light electric fount, Fig. No. 301.

Fig. 301 not illustrated, same as Fig. 300, but with two light electric sockets.

One Light Electric Fount
Medium Screw Base



Fig. 300

Nos.	For Side Light Nos.	For Bow Light Nos.	For Anchor Light Nos.	Diam. Opening in Light Inches	Diam. Base of Fount Inches	Burner Size Nos.	Fig. 283		Fig. 300		Fig. 301	
							Brass Each	Copper Each	Brass Each	Copper Each	Brass Each	Copper Each
4	8 & 9	14		3 3/4	4 3/4	1	\$1.00	\$1.50	\$1.50	\$2.00	....	....
5	10	15	22, 22 1/2 & 85	3 3/4	4 3/4	2	1.00	1.50	1.50	2.00	....	....
6	11	16	23 & 86	4 3/4	5 3/4	2	1.50	2.00	2.00	2.50	\$2.50	\$3.00

2 in 1 Fount for Turret Top Lights

LARGER THAN CLASS 3

Swivel Fount for Improved Turret Top Lights



Fig. 335

This type of fount is used in the larger running lights and fits the following:

No. 1 fits Nos. 8, 9, 10, side lights, Nos. 14 and 15 bow lights, Nos. 22 and 22 1/2 anchor, 10 inch globe light and Nos. 84 and 85 anchor lights.

No. 2 fits No. 11 side, No. 16 bow, Nos. 23 and 86 anchor lights. The above are oil and one light electric—either swivel or spring type.

No. 3 oil and two light electric fits No. 11 side, No. 16 bow, Nos. 23 and 86 anchor lights.

No. 1
Each
\$2.00

No. 2
Each
\$2.50

No. 3
Each
\$3.00

Spring Fount for Old Style Turret Top Lights



Fig. 587



Sliding Founts for Back Door Lights

2 in 1
Oil and Electric
Founts



Fig. 336

Oil Fount

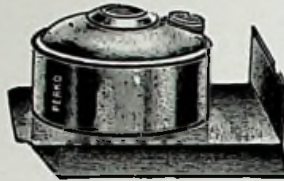


Fig. 284

One Light Electric Fount
Medium Screw Base

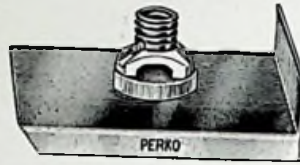


Fig. 281

Two Light Electric Fount
Medium Screw Base

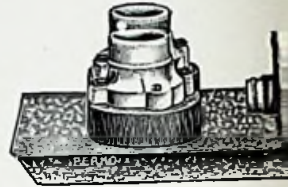


Fig. 285

- Fig. 336—Oil and 1 Light Electric fount
- Oil and 2 Light Electric fount
- Fig. 284—Oil Only fount
- Fig. 281—1 Light Electric fount
- Fig. 285—2 Light Electric fount

PRICE EACH	
Brass	Copper
\$3.25	\$3.50
3.60	3.85
2.50	2.75
2.50	2.75
3.00	3.25

NOTE—WHEN ORDERING SLIDING FOUNTS, PLEASE SPECIFY WHETHER FOR SIDE OR BACK DOOR LIGHTS AND GIVE FIGURE NUMBER AND SIZE. IF POSSIBLE, GIVE EXACT SIZE OF SLIDING PLATE FORM.

Double Contact Socket FOR DE-LITE RUNNING LIGHTS



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

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

Price, each \$.36

Fig. 276

Color Shield

FOR COMBINATION LIGHTS
DIVIDES RED AND GREEN LENSES



Used on class 1 combination lights, Fig. 101, 010, etc.
Made of heavy gauge brass or galvanized iron.

Galvanized Each	Polished Brass Each
\$.50	\$.75

Fig. 130

Socket Holder

FOR DE-LITE RUNNING LIGHTS
BRASS



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

Price, each \$.50

Fig. 277

T Brackets

FOR LARGE SIZE RUNNING LIGHTS



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

Galvanized Cast Iron, Each \$1.

Fig. 135

Electric Converter

ALL BRASS



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

Per Set, Complete \$.75

For illustration of complete conversion see Fig. 736, page 40.

Brackets

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



No. 1—For classes 1, 2 and 3 lights.	No. 2—For intermediate size lights.		
No.	Width Inches	Height Inches	Galvanized Each
1	1 1/2	4 1/2	\$.30
2	2	6 1/2	.50

Fig. 131



Mazda Lighting Bulbs



Fig. 337

Bulb No.
G-6
S-8
S-10
S-11

Diam. Inches
3/4
1
1 1/4
1 3/8

Length Overall Inches
1 1/8
2
2 1/8
2 3/8



Fig. 340

Bulb No.
A-17
A-19
A-21

Diam. Inches
2 1/8
2 3/8
2 5/8

Length Overall Inches
3 3/8
3 1/2
4 1/8

Volts	Candle Power	No.	Base	Price Each Clear	Volts	Watts	No.	Base	Clear Each	Frosted Each	Natural Blue Each
6-8	3	G-6	D. C.	\$.16	6	15	A-17	Medium	.75	.60	1.50
6-8	6	G-6	D. C.	.18	6	25	A-19	Medium		.60	
6-8	15	S-8	D. C.	.28	6	50	A-21	Medium		.80	
6-8	21	PR-11	D. C.	.30							
6-8	32	PR-11	D. C.	.50							
6-8	50	S-11	D. C.	.80							
12-16	3	G-6	D. C.	.28	12	15	A-17	Medium	.75	.60	1.50
12-16	6	G-6	D. C.	.35	12	25	A-19	Medium		.60	
12-16	15	S-8	D. C.	.36	12	50	A-21	Medium		.80	
12-16	21	S-10	D. C.	.50							
12-16	32	PR-11	D. C.	.70							
12-16	50	PR-11	D. C.	1.00							
32	3	G-6	D. C.	.75	32	15	A-17	Medium	.75	.50	1.50
32	6	G-8	D. C.	.80	32	25	A-19	Medium		.60	
32	15	S-8	D. C.	1.00	32	50	A-21	Medium		.80	
32	21	S-10	D. C.	1.20							
32	32	PR-11	D. C.	1.40							
32	50	PR-11	D. C.	1.80							

FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.
S-10
S-11

Diam. Inches
1 1/4
1 3/8

Length Overall Inches
2 1/8
2 3/8

Volts	No.	C. P. or Watts	Base	Price Each Clear
6-8	S-10	15	Medium	\$1.00
12-16	S-10	15	Medium	1.10
32	S-11	15	Medium	1.80
120	S-11	15	Medium	1.50
120	S-6	6	Candelabra	.50

Mazda Searchlight Bulbs

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

Marcy Hinge Burner
ALL BRASS—HEAVY PATTERN

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



Fig. 242

No.	Diam. Thread Inch	Wick Inch	Per Doz.
1	7/8	5/8	\$6.00
2	1 1/4	3/8	6.00

Dual Burners

ALL BRASS—DOUBLE WICK



Fig. 241

No.	Diam. Thread Inch	Wick Inch	Per Doz.
1	7/8	5/8	\$10.50
2	1 1/4	3/8	14.50

Eagle Burner

ALL BRASS—HEAVY PATTERN

Standard equipment on wall lamp, Fig. No. 312.



Fig. 248

No.	Diam. Thread Inch	Wick Inch	Per Doz.
2	1 1/4	7/8	\$3.50

Cosmos or Ligne Burner

ALL BRASS—HEAVY PATTERN

Standard equipment on Norwegian running lights on page 31.

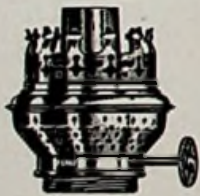


Fig. 240

Nos. Lignes	Width Wick Inches	Per Doz.
10	2	\$ 9.00
14	2 3/4	10.00

Long Time Burner

HEAVY BRASS

Standard equipment on 10-day anchor light, Fig. No. 596.

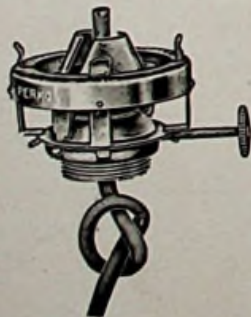


Fig. 245

Burners only	Per Doz. \$9.00
Wicks only	1.50

Marcy Lip or Dual Chimney



Fig. 267

Size	Diam. Bottom Inches	Height Inches	Weight Per Lb.
1 or A	1 5/8	4	1
1 or A	1 5/8	6	1
2 or B	2 1/8	6	1

Size 1 or A	\$3.50
2 or B	4.50

Specify height of chimney when ordering.

Eagle Chimney
PLAIN TOP

Standard equipment on wall lamp Fig. 312.



Fig. 268

Sizes	2 or B
Diameter of bottom	2 1/2
Diameter of top	1 1/2
Height overall	7
Net weight, per doz., lbs.	

Per Doz. \$4.

Cosmos or Ligne Chimneys

Standard equipment on Norwegian running lights shown on page 31.

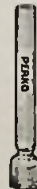


Fig. 270

	Height Overall Inches	Diam. Bottom Inches	Price Per Doz.
10 ligne	6	1 1/2	\$4.00
14 ligne	7	2	5.00

Long Time Chimney

Standard equipment on 10-day anchor light, Fig. 596.



Fig. 272

Diam. Bottom Inches	Height Inches	Per Dozen
1 1/2	1 1/2	\$6.

Mirror Reflectors

PARABOLIC

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

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

	Each
8 inch diameter	\$18.00
10 inch diameter	20.00
12 inch diameter	25.00
14 inch diameter	34.00



Fig. 427

Metal Reflectors

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

	Each
4 1/4 inch diameter	\$2.00
6 1/8 inch diameter	3.75
7 3/8 inch diameter	4.25
10 inch diameter	7.50

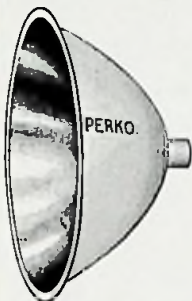


Fig. 428

Convex Front Lens

FOR SEARCHLIGHTS

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

	Each
4 7/8 inch diameter	\$.80
6 inch diameter	1.00
7 3/4 inch diameter	1.00
10 inch diameter	2.75

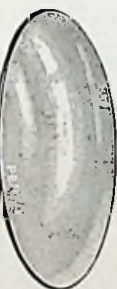


Fig. 429

White Opal Shades



Fig. 266

	Inches
Inside Diam. Top	4
Outside Diam. Top	5
Diam. Bottom	10
Height Overall	5
Price Each	\$2.50

For shade holder, refer to Fig. No. 129.

Brass Burner



Fig. 246

No.	Diam. Thread Inch	Wick Inch	Per Doz.
0	3/8	1/2	\$1.70
1	3/8	5/8	1.90
2	1/4	3/8	2.90

Shade Tripod

ALL BRASS

Used with cabin lamps, Fig. No. 125 and 126. For 10 inch diameter shade. Net weight, each, 2 ounces.

Price, each \$1.00



Fig. 129

For Opal Shades see Fig. 266.

Wicks



Fig. 302

	Per Dozen
Flat Wicks, No. 0, 1/2 inch wide	\$.30
Flat Wicks, No. 1, 5/8 inch wide	.35
Flat Wicks, No. 2, 3/4 inch wide	.45
Cosmos Wicks—10 ligne	1.30
Cosmos Wicks—14 ligne	1.40
Wicks for long time burner	1.50

Wick Trimmers

CAST STEEL

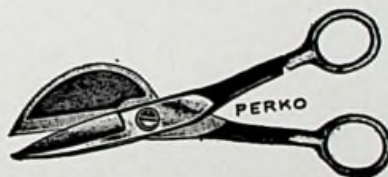


Fig. 141

With wide lip for catching trimmings, as illustrated. Length overall, 6 inches.

Per Dozen \$6.00

Side Light Screens

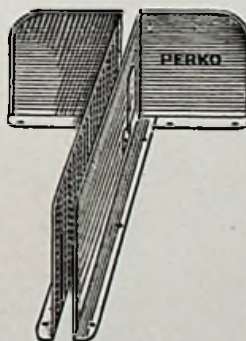


Fig. 316

Made of heavy sheet iron, well reinforced, painted red and green. Collapsible when not in use.

Class	Length inches	Price Per Pair
2	18	\$2.50
3	24	3.00



Holophane Ball Globe

2 1/2 INCH DIAMETER FOR FIXTURES AND POLE LIGHTS—CLEAR



Fig. 254

With threaded brass ferrule spun over opening. Fits cabin fixtures, Fig. Nos. 81 and 554.

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

PRICE EACH
With Ferrule \$1.50
Without Ferrule \$1.00

Engineer's Lantern Globes



Fig. 263

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

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

PER DOZEN
Clear \$3.00
Ruby \$8.00
Green \$8.00

Colored globes are solid colors, painted.

Holophane Shade



Fig. 255

With threaded brass ferrule spun around top opening. Fits cabin fixtures, Fig. Nos. 83 and 553.

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

PRICE EACH
With Ferrule \$1.40
Without Ferrule \$.90

Navy Lantern Globes



Fig. 262

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

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

PER DOZEN
Clear \$5.00
Ruby \$18.00
Green \$18.00

Colored globes are solid colors, not painted.

Holophane or Frosted Dome Glasses

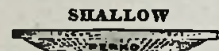


Fig. 257

Fits dome lights, Fig. Nos. 387, 555, 294, 295, 296, 460.

Trade Size Inches	Diam. Overall Inches	Depth Inches	Net Weight Each Ounces	Price Each
3	2 1/8	5/8	1	\$.60
4	4	5/8	2	.70
5	5	1 1/2	4	.90
6	6	1 3/8	6	1.40

Holophane Dome Glasses



Fig. 258

Fits dome light, Fig. No. 454.

Outside Diam. Inches	Depth Inches	Net Weight Each Ounces	Price Each
4	1 3/4	3	\$.70
6	2 3/4	11	2.80

Globe Light Globes



Fig. 264

Standard equipment in our globe lights, Fig. Nos. 44.

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

Size	Diameter		Height Overall Inches	Clear Each	Frosted or Colored Each
	Top	Bottom			
6	3 1/8	3 1/8	6 1/2	\$1.50	\$3.
8	4	4	7 1/2	2.50	4.
10	5 3/8	5 3/8	10 1/8	4.00	6.

English Cone Burner

ALL BRASS—HEAVY PATTERN



Fig. 244

Standard equipment on English running lights on page 31. Takes 3/8 inch flat wick.

Per Dozen \$24.00

English Cone Chimneys



Fig. 269

Standard equipment on English running lights, on page 31.

Diameter of top 4 1/2 in.
Diameter of bottom 4 in.
Height overall 3 in.
Weight, per dozen

PER DOZEN
Clear \$3.00
Colored (stained) \$3.00



Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS



Fig. 259

For	Height Overall In.	Outside Dia. of Back In.	Clr. of Bull's Eye In.	Clear Each	Ruby or Green Each
Outboard Comb. Lights	2½	2¾	3		\$.55
Class 1 Comb. Lights	3¾	3¾	3¾	\$1.00	.80
Class 2 Side Lights	4¼	3¾	4¾	1.50	1.10
Class 3 Side Lights	5¼	4¾	5¾	2.00	1.35
No. 8 Side Lights	5¾	4¾	6¼	.....	2.70
No. 9 Side Lights	5¾	6¾	8½	.....	3.70
No. 10 Side Lights	6¾	7	8¾	.....	4.20
No. 11 Side Lights	7¾	9¾	11½	.....	8.00
8 inch Face Side Light	8¾	7¾	9¾	.....	8.00
English or Norwegian Side Lights	7	10½	12¼	\$8.00	.....

FOR BOW LIGHTS—180 DEGREES



Fig. 260

For	Height Overall Inches	Outside Dian. of Back Inches	Clr. of Bull's Eye Inches	Clear Each	Col. Each
Class 1 Bow Lights	3¾	3¾	5½	\$ 1.10	\$1.75
Class 2 Bow Lights	4¼	4¾	6½	1.10	1.75
Class 3 Bow Lights	5¼	4¾	7¾	1.35	2.25
No. 14 Bow Lights	5½	5¾	9½	4.00	5.00
No. 15 Bow Lights	6¾	6	9½	5.00	6.00
No. 16 Bow Lights	7¾	7¾	12½	6.00	8.00
8" Face Masthead Light	8¾	7¾	9¾	7.00	9.00
Eng. or Nor. Mast Light	7½	8¾	21	12.00	.....
Eng. or Nor. Stern Light	7½	8¼	10¾	6.50	.....

FOR ANCHOR LIGHTS—360 DEGREES



Fig. 261

For	Height Overall Inches	Diam. Outside of Rim Inches	Clear Each	Colored Each
Class 1 Stern Lights	3¾	3¾	\$.75	\$ 1.10
No. 21 Anchor Lights	4¼	4	1.10	1.65
No. 22 Anchor Lights	5¾	5¾	3.00	5.50
No. 22½ Anchor Lights	6¾	5¼	4.00	7.00
No. 23 Anchor Lights	7	7½	5.60	10.50
English or Norwegian Anchor Lights	7½	9¼	12.00	.....

Fresnel Ball Globe

1¾ INCH DIAMETER



Fig. 604

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

Outside diameter	1¾ in.
Height overall	1½ in.
Diameter of opening	¾ in.
Net weight, each	1 oz.

Clear Each	Ruby Each	Green Each	Blue Each
\$.55	\$.90	\$.90	\$.90

2½ INCH DIAMETER

With threaded base, as illustrated, for pole lights, Fig. Nos. 470, 491, 498, 506, 422.



Fig. 250

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

Clear Each	Ruby Each	Green Each	Blue Each
\$.75	\$1.00	\$1.00	\$1.00

3 INCH DIAMETER

With threaded base, as illustrated, for pole lights, Fig. Nos. 508, 422, 470, 498, 506.



Fig. 251

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

Clear Each	Ruby Each	Green Each	Blue Each
\$.75	\$1.00	\$1.00	\$1.00

3 INCH DIAMETER

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



Fig. 249

Outside diameter	3 in.
Height overall	3½ in.
Diameter of opening	2¼ in.
Diameter of thread	2¼ in.
Net weight, each	10 ozs.

Clear Each	Ruby Each	Green Each	Blue Each
\$.90	\$1.25	\$1.25	\$1.25

4¼ INCH DIAMETER

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



Fig. 252

Outside diameter	4¼ in.
Height overall	3¾ in.
Diameter of opening	2¾ in.
Diameter of thread	3 in.
Net weight, each	10 ozs.

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

3½ INCH DIAMETER

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



Fig. 106

Outside diameter	3½ in.
Height overall	5 in.
Diameter of opening	2¾ in.
Diameter of thread	3¾ in.
Net weight, each	1¼ lbs.

Clear Each	Ruby Each	Green Each	Blue Each
\$1.20	\$2.30	\$2.30	\$2.30



"Perko" Zinc Marine Oilers
BRASS BOTTOM



Fig. 326

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

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

PRICE PER GROSS

No.	3	\$56.00
4	70.00	

EXTRA SPOUTS

No.	3	4 inch	\$16.00
4	6 inch	18.00	

Gasoline Funnels

GALVANIZED—FOR OUTBOARD MOTORS AND RUNABOUTS



Fig. 589

Heavy gauge iron, fine copper mesh strainer and splash guard.

Diam. Top Inches	Height Inches	Capacity Gallons	Price Per Doz.
8	9	½	\$12.-

Gasoline Funnel
GALVANIZED



Fig. 196

Heavy galvanized iron, extra long spout, splash guard, fine copper mesh strainer, and extra ring for chain.

Diam. Top Inches	Diam. Spout Inches	Height Inches	Capacity Gallons	Price Per Doz.
8	¾	13	½	\$1.-
10	¾	13½	1	1.-

"Perko" All Brass Marine Oilers
INTERCHANGEABLE SPOUTS



Fig. 127

Heavy brass body, machine cut threads, spring brass bottoms.

No.	Capacity Oz.	Diam. Inches	Length Spouts Inches	Weight Per Gross Lbs.
33	8	4	4	70
44	12	4½	6	78

PRICE PER GROSS

No.	33	\$65.00
44	80.00	

EXTRA SPOUTS

No.	33	4 inch	\$22.00
44	6 inch	26.00	

Eastern Funnel

NARROW TOP—FOR NARROW SPACES



Fig. 318

Heavy galvanized iron, wire enclosed head around mouth, extra long spout, fine copper mesh strainer.

Diam. Top Inches	Length Overall Inches	Diam. Spout Inches	Length Spout Inches
5½	16	1	

PRICE PER DOZEN

Galvanized \$1

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	\$3.60	\$7.00
4	36	4.50	8.00

NOTE

Have you noticed greatly reduced prices on chromium plated items?

Pitch Payers



Fig. 178

Heavy galvanized iron, do-seamed and dished, handle attached to top, in-strainer riveted to body.

Diam. Inches	Length Body Inches	Length Overall Inches	Weight Lbs.
7	13	20	1½

Signal Torch



Fig. 177

Made of heavy galvanized iron. Handle riveted to body, cast iron claws for holding wick.

Diameter, 5½ inches
Height, 15 inches
Weight, 2¾ pounds

Price each \$3.00

Western Trap Lantern

OIL BURNING
WITH 8 DAY CAPACITY OIL FOUNT



Fig. 14

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

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

With Clear Lens Each	With Colored Lens Each	Extreme Height Inches	Diam. Bottom Inches	Size Lens Inches
\$38.00	\$43.00	22	9¾	7x8

Colored Lenses are Red, Green or Blue

Binnacle Lamp

HALF ROUND—WROUGHT BRASS

Made of heavy brass. Complete with oil fount and burner. Hinged door and sliding latch.



Fig. 147

No.	Height Overall Inches	Height Frame Inches	Width Overall Inches	Size Glass Inches
2	8¼	5¾	4¾	3 x 4½
3	10	7	6	3¾ x 5½

No.	Polished Brass Each
2	\$6.00
3	7.50

Round Binnacle Lamp

Spun from heavy brass, removable oil or electric fount, spring catch and collar for mounting.

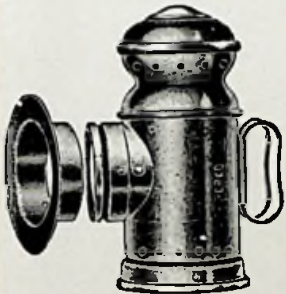


Fig. 148

No.	Height Overall Inches	Diam. Body Inches	Diam. Glass Inches
4	4¾	2	1¾
5	7	2¾	2½

No.	Polished Brass Each
4	\$5.50
5	6.50

Binnacle Lamp

WROUGHT BRASS

Made for use with skylight type binnacles, Figs. 530 and 534. Brass body, complete with oil fount and burner.



Fig. 413

No.	Height Inches	Diam. Inches	Size Glass Inches	Price Each
1	5½	2¾	1¾ x 2¼	\$2.50
2	6½	3	2¼ x 2¾	2.50

Trouble Light

Brass body, nickel plated, double contact socket, 21 candle power, 6 volt bulb. 3 inch diameter magnifying lens, complete with switch, 10 feet wire and plug.

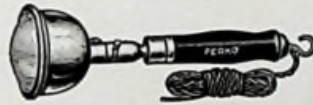


Fig. 389

Length overall, 10"

Price each \$3.00

Emergency Light

WITH RUBBER SUCTION HOLDER



Fig. 798

Small and compact, easily stored but always ready for use in emergencies, used as a trouble light when working around motor or inside of hull, can also be used as emergency riding light when necessary, furnished with 10 ft. wire, bulb and battery clips, ready for instant use.

Price Each\$1.50



Emergency Self Lighting Water Light

FOR ATTACHMENT TO RING BUOYS



Fig. 843

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

Size Overall Inches	Weight Pounds	Price Each
5x8	3	\$5.00

Bread Breakers GALVANIZED

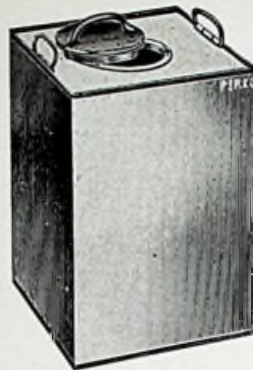


Fig. 155

Heavy galvanized sheet iron, double seamed edges, well soldered, cast bronze cover and ring, thick rubber gasket, water-tight, 1 folding handles. Every bread breaker fully tested before leaving factory.

Diameter cover, 5 inches

Capacity l.bs.	Size Inches	Weight l.bs.
25	12 x 12 x 18	13
40	15 x 15 x 21	15
50	15 x 15 x 24	18
60	15 x 15 x 30	19
80	24 x 24 x 24	32
100	24 x 24 x 30	40

Distress Outfits

IMPROVED COPPER CASE



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.

Case made of 18 oz. cold rolled copper, cast brass cover and rubber gasket, (cut thread), absolutely water tight. Approved by U. S. Board of Supervising Inspectors.

Price per outfit, complete	\$7.50
Flares Only—Per Dozen	4.20
Cans Only—10½ inches high—Price Each	5.00

Height does not include cover, but price does.

Axe Brackets

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

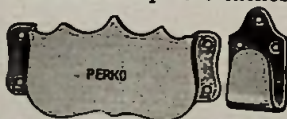


Fig. 325

	Blade Brackets Only Per Dozen	Hooks Only Per Dozen
Japanned Steel	\$3.60	\$1.20
Polished Brass	6.00	2.00

Bread Breaker Caps

NEW STYLE CAST BRONZE



Fig. 72

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 Pound
\$2.50	\$.22	5¾	4¾	

Wood Dory Scoops



Fig. 77

Large and Small Assorted Per \$1

Boat Bailers

GALVANIZED



Fig. 180

Made of black steel, galvanized after completion. Handle riveted to body. Diameter, 8¼ inches. Weight, per doz., 12 lbs.

Price each

Copper Flashlight Case

WATERTIGHT—INSULATED

Every life boat must have a flashlight contained in a portable, watertight metal case.

Made of 18 ounce copper with insulation top, bottom and sides, cast bronze threaded top.

Price Each	Length Inches	Inside Diameter Inches
\$3.00	10	2 1/4

Fig. 132

Match Container

WATERTIGHT

Every life boat must have matches in a watertight container. Made of heavy gauge polished tin, just large enough to contain 12 boxes of safety matches in their original package.

Price Each	Length Inches	Inside Diameter Inches
\$.90	5 1/4	3 3/8

Fig. 133

Ditty Bags COMPLETE

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

Complete, Each \$2.95

One box matches sewed in waterproof canvas, add \$.50.

Fig. 85

Water Breakers

ROUND OAK



Fig. 1001

A water breaker containing at least one quart of water for each person must be carried in every lifeboat.

Capacity Gallons	With Plain Hoops Each	With Galvanized Hoops Each
	5	\$2.50	$2.80
10	3.25	3.55
15	3.75	4.10
20	4.50	5.00

Searchlight

FOR MOTOR LIFE BOATS
WITH 80 WATT BULB—FOR 6, 12 OR 32 VOLTS

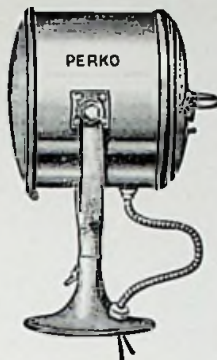


Fig. 305

A heavy brass body on cast bronze base, a highly polished chromium plated reflector and convex front lens, wiring is protected by flexible metal hose and waterproof insulation. Double contact Edison sockets are standard equipment.

Diam. Reflector In.	Height all In.	Diam. Base In.	Polished Brass Each
10	17	5 1/2	\$34.00

Specify voltage when ordering.

Automatic Boat Drain

CAST BRONZE—PLAIN

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 1 1/2 inches, No. 14 thread.



Fig. 213

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches
\$2.50	\$.85	\$1.50	1 1/4	3 3/8

Sea Anchors and Cans

APPROVED BY THE STEAMBOAT INSPECTION SERVICE

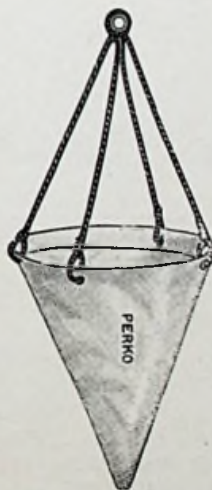


Fig. 517



Fig. 179

Sea anchor, Fig. 517, is made of good quality heavy weight canvas.

Can or oil container made of heavy galvanized sheet iron, complete with attaching ring, two brass petcocks and filling cap.

Diameter of Anchor Inches	Capacity of Can Quarts	Anchor with Can Complete Each	Anchor Only Each	Can Only Each
24	4	\$5.00	\$3.20	\$1.80
30	4	8.50	6.70	1.80



Watertight Receptacles and Plugs CAST BRONZE—DIPPED FINISH

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

For all voltages from 6 to 125

FLUSH TYPE WITHOUT BOX

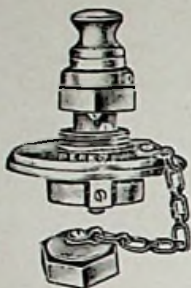


Fig. 968

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

Complete Each	Plug Only Each	Diam. Plate Inches	Depth Inches
\$3.50	\$1.50	2 1/4	3/4

FLUSH TYPE WITH BOX

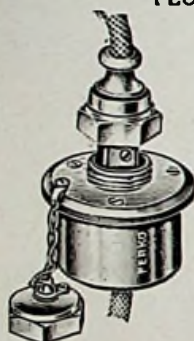


Fig. 969

Furnished with watertight box, bottom inlet.

Diam. Plate Inches	Diam. Box Inches	Depth Box Inches	Complete Each	Plug Only Each
2 1/4	1 1/2	1 1/8	\$4.25	\$1.50

HEAVY DUTY FLUSH TYPE

For the larger yachts from 40 feet up in length.

SIDE INLET

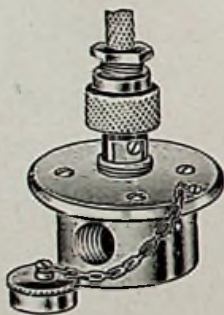


Fig. 970

Diam. Plate Inches	Diam. Box Inches	Depth Box Inches	Complete Each	2 Wire Plug Each	3 Wire Plug Each	3 Wire Interior Extra
3 1/2	2 1/2	1 1/2	\$5.50	\$1.50	\$2.25	\$.50

HEAVY DUTY SURFACE TYPE

Also for larger yachts where a surface type is required.

SIDE INLET

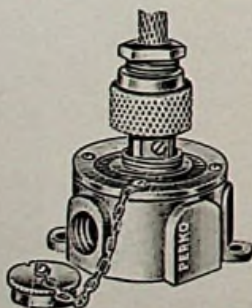


Fig. 971

Diam. Box Inches	Depth Box Inches	Complete Each	2 Wire Plug Each	3 Wire Plug Each	3 Wire Interior Extra
2 3/4	1 3/4	\$5.00	\$1.50	\$2.25	\$.50

Gang Type Receptacle and Plug SURFACE TYPE

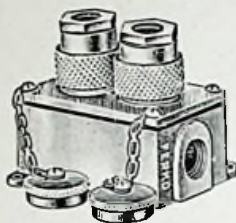


Fig. 972

Two wire type plug insulation is best bakelite. Mounting lug integral part of box.

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

Complete with Plugs, Each

Combination Switch and Receptacle SURFACE TYPE

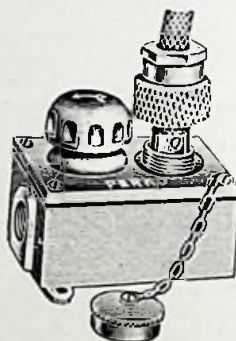


Fig. 973

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

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

Price Complete

Watertight Snap Switch FLUSH TYPE OR SURFACE TYPE

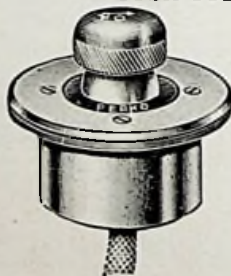


Fig. 974

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

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

Single Pole Switch
Double Pole Switch

Flush Type	Surface Type
\$5.50	5.75

Watertight Junction Box SURFACE TYPE

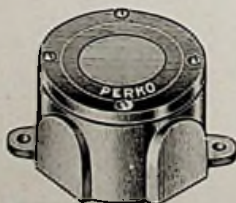


Fig. 975

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

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

Without interior, each

With block for one circuit, Each

Tapped for 2 or 3 circuits at small extra charge

Above items CHROMIUM PLATED, add 50% to Above Prices

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

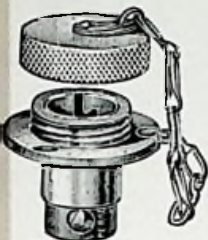


Fig. 423

All Metal Plug



Fig. 425

	Polished Brass	Nickel Plated	Chromium Plated
Socket Only	Each	Each	Each
Plug Only	\$.90	\$1.10	\$1.30
	.90	1.10	1.30

Plugs and Sockets

DOUBLE CONTACT—BRASS CASE



Fig. 404

This is the type connector used in our pole light assembly, Figs. 481, 590 and 591. Hard rubber insulation, no springs to go wrong and cause trouble. We recommend this as the most practical connector for use around salt water.

Complete Each	Diameter Flange Inches	Length Overall Closed Inches
\$1.25	1 1/4	2 1/8

Composition Connector

DOUBLE CONTACT



Fig. 749

Price Each\$0.50

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	Nickel Plated	Chromium Plated
Each	Each	Each
\$1.50	\$1.75	\$2.00

Composition Interiors Only
Per Set, \$.70

Brass Case Connector

DOUBLE CONTACT



Fig. 750

Metal caps and hard rubber body. Price, each\$0.60

Metal clad throughout.
Price, each\$0.70

Flush Deck Socket

WATERTIGHT



Fig. 357

A double contact socket with cover and rubber gasket, watertight, flush with deck.

Heavy brass body and cover.

Price Each\$.80

Bakelite Base Socket

SINGLE OR DOUBLE CONTACT



Fig. 472

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

No.	Each
20 Double Contact	.....\$ .40
21 Single Contact	..... .40

Plugs and Sockets

DOUBLE CONTACT

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

Size of flange, 1 1/2 x 1 1/2.
Price Complete\$.60



Fig. 399

Single End Socket

DOUBLE CONTACT



Fig. 747 Price Each\$.15

Double End Socket

WITH ADJUSTABLE NUTS

DOUBLE CONTACT



Fig. 748

Price Each\$.35

Electric Sockets

DOUBLE CONTACT

Brass, nickel plated casing and flange. Hard rubber insulation.

Single End Socket



Fig. 377

Double End Socket



Fig. 378

Size Flange
1 1/8" x 1 1/2"

	Price Each
Fig. 377—Single end socket	\$.25
Fig. 378—Double end socket .....	.30

Electric Adapters

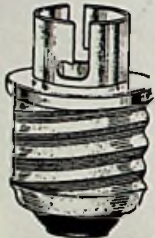


Fig. 405

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

No.	Each
670	\$.50
680 .....	.50

Double Contact Adapter

ALL BRASS



Fig. 355

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

Price per dozen \$4.80

Double Contact Plugs

COMPOSITION OR ALL METAL



Composition
Fig. 746



All Metal
Fig. 383

With flush type contact screws, used with sockets Figs. 357, 472, 747, 748, 377, 378.

Fig. 746—Composition, each	\$.15
Fig. 383—All Metal, each .....	.25

Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

THE STANDARD

With cadmium plated frame bakelite sliding button.

Extreme Length Inches	Extreme Width Inches	Width Frame Inches
1 3/4	3/4	1/2

Price Each

Can be furnished with nickel plated face plate 1"x1 1/8", same as Fig. 718, price complete

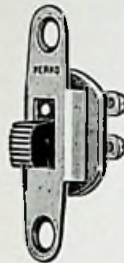


Fig. 717

THE DE-LUXE

With brass face plate polished or plated finish. Ideal for mounting on board or bulkhead.

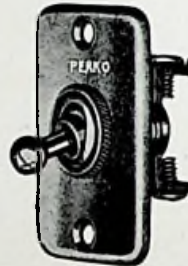


Fig. 718

Polished Brass Each	Nickel Plated Each	Black Enameled Each	Chromium Plated Each
\$.60	\$.60	\$.60	\$.70

Length Face Plate Inches	Width Face Plate Inches
1 7/8	1

THE DE-LITE

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

With brass face plate polished or plated finishes.



Fig. 719

Polished Brass Each	Nickel Plated Each	Black Enameled Each	Chromium Plated Each
\$1.25	\$1.25	\$1.25	\$1.40

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

TOGGLE TYPE
FOR THRU THE DASH MOUNTING

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

Composed of bakelite and brass nickel plated. Includes complete lock nut, washer and wire leads.

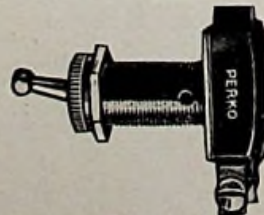


Fig. 745

Price Each

HEAVY DUTY—PUSH AND PULL TYPE

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

Will take more amperage and voltage than any similar switch on the market.



Fig. 740

	Each
1 point	\$0.40
2 point	0.80
3 point	1.20
4 point	1.60

Please specify finish of plate when ordering.

Knife or Battery Switches

UPRIGHT TYPE



Fig. 70

No.	Size Base Inches
1	2 $\frac{7}{16}$ x 1 $\frac{1}{4}$
2	3 $\frac{5}{8}$ x 1 $\frac{3}{16}$

No.	Fibre Base Each	Porcelain Base Each
1 Single Pole, Single Throw	\$.35	\$.20
2 Single Pole, Double Throw .....	.45	.32

Knife or Battery Switches

SIDE TYPE



Fig. 74

No.	Size Base Inches
3	2 $\frac{1}{8}$ x 1 $\frac{1}{8}$
4	2 $\frac{1}{4}$ x 1 $\frac{1}{8}$

No.	Fibre Base Each	Porcelain Base Each
3 Single Pole, Single Throw	\$.30	.40
4 Single Pole, Double Throw .....	.40	.30

Dashboard Lamp

BRASS—NICKEL PLATED

WITH SWITCH

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

Height Overall Inches	Size Base Inches	Weight Each Oz.
2 ft	1 $\frac{1}{2}$ x 1 $\frac{1}{2}$	1 $\frac{1}{2}$
Price Each		\$.90



Fig. 184

Brass Straps

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



Fig. 121



Fig. 1075

Inside Diam. Inches	Fig. 121 Per 100	Fig. 1075 Per 100	Inside Diam. Inches	Fig. 121 Per 100	Fig. 1075 Per 100
$\frac{1}{8}$	\$1.10	\$1.30	$\frac{1}{8}$	\$1.40	\$1.70
$\frac{3}{16}$	1.10	1.30	$\frac{1}{2}$	1.60	1.90
$\frac{1}{4}$	1.20	1.45	$\frac{5}{8}$	2.50	3.00
$\frac{3}{8}$	1.20	1.45	$\frac{3}{4}$	2.75	3.30
$\frac{1}{2}$	1.40	1.70			

Brass Cable Straps

FLAT TYPE FOR LEAD COVERED CABLE BRASS



Fig. 1076



Fig. 1077

Inside Measurements Inches	Fig. 1076 Per 100	Fig. 1077 Per 100
$\frac{7}{16}$ x $\frac{7}{16}$	\$3.00	\$3.60

Brass Cable Straps Cable Outlet

CAST BRONZE



Fig. 424

Waterproof cable outlet with threaded cap and rubber gasket to prevent water running down cable. This fitting makes a watertight outlet on the boat and prevents wear on cable insulation from chafing.

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$.50	\$.70	\$1.00

Duplex Electric Cable

DOUBLE RUBBER COVERED

The cable we use in wiring all of our outside electric fittings such as pole lights, etc.

Stranded cable is protected by double rubber insulation, size is $\frac{1}{4}$ x $\frac{1}{8}$ inches.

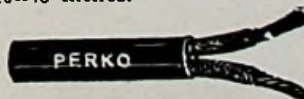


Fig. 497

100 foot coils

Per Coll
\$5.50

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

Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
2 1/2	2 1/2	3	6
Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
\$1.75	\$2.00	\$2.40	

Oval Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE

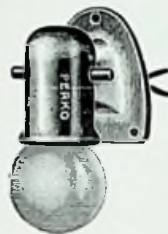


Fig. 516

Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
2 3/4 x 2 3/8	2 1/2	2 5/8	8
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.50	\$2.75	\$3.00	

Square Base Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 450

Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
2x2	2	2 3/8	12
With Switch	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	\$2.50	\$2.75	\$3.00

Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 304

Size Plate Inches	Projection less Lamp Inches
4 1/2 x 2 5/8	2 5/8
Polished Bronze Each	Nickel Plated Each
\$3.50	\$4.00
Chromium Plated Each	Size Plate Inches
\$4.50	4 1/2 x 2 5/8

Square Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 689

Size Base Inches	Drop Less Lamp Inches	Projection Less Lamp Inches	Weight Pounds
2x2	2 1/2	2 3/4	3/4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.50	\$2.75	\$3.00	

Porcelain Cabin Fixture

WITH STANDARD SCREW SOCKET

NO SWITCH



Fig. 191

Width Inches	Drop Less lamp Inches	Projection Less lamp Inches	Pric. Each
2 3/8	1 3/8	1 7/8	\$.6

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

Junior Fixtures

WITH DOUBLE CONTACT SOCKET
TURN SWITCH—CAST BRONZE



Fig. 605

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Drop less lamp Inches	Projection less lamp Inches
\$2.50	\$2.75	\$3.00	1 3/4 x 1 3/4	2	2

WITH OUTLET IN TOP OR BACK
DOUBLE CONTACT SOCKET
TOGGLE SWITCH—CAST BRONZE



Fig. 592

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Drop less lamp Inches	Projection less lamp Inches
\$2.00	\$2.25	\$3.00	2 x 2 7/8	3 1/8	2

Double Cabin Fixture

CAST BRONZE—STANDARD SCREW SOCKETS



Fig. 452

Size base, 2 x 4 1/2 inches
Width (less lamps), 5 5/8 in.
Drop (less lamps), 2 inches
Extends from wall 2 5/8 in.
Weight, 1 1/2 pounds

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
With Toggle Switch	\$6.00	\$6.75	\$7.70

Double Ceiling Fixture

CAST BRONZE—STANDARD SCREW SOCKETS



Fig. 451

Base, 2 x 3 1/2 inches
Extends from wall } 2 5/8 in.
Weight, 1 pound

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
With Toggle Switch	\$5.00	\$5.50	\$6.00

Indirect Lighting Fixtures

CAST BRONZE
WITH STANDARD SCREW SOCKET

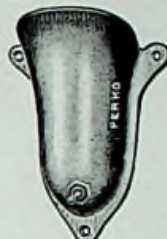


Fig. 847

A truly handsome fixture giving the modern indirect non glare lighting effect, can also be used in the reverse position as a berth light, takes up small space yet roomy enough to accommodate a 50 Watt bulb.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Extends from Wall Inches
\$4.00	\$4.50	\$5.00	5x6	3

WITH DOUBLE CONTACT SOCKET
CAST BRONZE



Fig. 848

Same type as Fig. 847 above, but of a smaller size for small boats using low voltage double contact sockets, will accommodate up to a 50 candlepower RP-11 bulb.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Extends from Wall Inches
\$3.50	\$4.00	\$4.50	4 1/2 x 4	2

Berth or Pullman Light

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



Fig. 416

Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Globe Only Each	Length Inches	Width Inches	Diam. Globe Inches
\$8.50	\$9.00	\$10.50	\$1.10	6	4	2 3/4

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

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

Holophane Cabin Fixture

WROUGHT BRASS—DOUBLE CONTACT SOCKET

For any voltage from 6 to 120. Complete with holophane glass globe and throw switch.



Fig. 81

Diameter base, 2 1/2 inches
Drop, 4 3/4 inches
Extends from wall 4 3/4 inches
Diameter globe, 3 inches
Weight, 8 ounces

With Throw Switch

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.50	\$3.00	\$3.50

Holophane Cabin Fixture

WROUGHT BRASS—DOUBLE CONTACT SOCKET

For any voltage from 6 to 120. Complete with holophane glass shade, and throw switch.



Fig. 83

Diameter base, 2 1/2 inches
Drop, 4 3/4 inches
Extends from wall 4 3/4 inches
Weight, 8 ounces

With Throw Switch

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.25	\$2.75	\$3.25

Holophane Cabin Fixtures

CAST BRONZE—DOUBLE CONTACT SOCKET

FIXTURE WITH OPEN SHADE

Complete with toggle switch. Wired for voltage from 6 to 120.

Base, 1 1/4 x 1 1/4 inches
Drop, 3 1/2 inches
Extends from wall 4 1/4 inches
Weight, 9 ounces



Fig. 553

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$3.00	\$3.25	\$4.00

FIXTURE WITH GLOBE

Base, 1 1/4 x 1 1/4 inches
Drop, 4 1/2 inches
Extends from wall 3 1/2 inches
Weight, 10 ounces



Fig. 554

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$3.25	\$3.50	\$4.25

Bulbs are not included with above fixtures. When ordering bulbs, specify voltage and candle power.

Dome Lights

CAST BRONZE

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

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

WITH DEEP HOLOPHANE GLOBE



Fig. 454

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

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$ 6.50	\$ 7.00	\$ 7.50
2	10.00	10.50	11.00

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

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

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3	\$ 6.50	\$ 7.00	\$ 7.50
4	10.00	10.50	11.00

WITH SHALLOW FROSTED GLOBE



Fig. 460

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

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
5	\$ 6.50	\$ 7.00	\$ 7.50
6	10.00	10.50	11.00

DOME LIGHTS

WROUGHT BRASS—IMPROVED—DOUBLE CONTACT SOCKETS

These are made of the highest grade brass obtainable. Reflectors are heavily nickel plated, furnished with improved throw or toggle switches, all wired ready for installation.

With Holophane Globes

WITH THROW SWITCH



Fig. 387

Trade Size Inches	Diam. Glass Inches	Diam. Base Inches	Depth Overall Inches
3	2 3/4	5	1 7/8
4	3 3/4	6 7/8	1 7/8
5	4 3/4	7 7/8	2 3/4
6	5 3/4	8 3/4	2 3/4

WITH TOGGLE SWITCH



Fig. 294

Trade Size Inches	With Throw Switch (Fig. 387)			Trade Size Inches	With Toggle Switch (Fig. 294)		
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each		Polished Brass Each	Nickel Plated Each	Chromium Plated Each
3	\$2.00	\$2.25	\$3.00	3	\$2.60	\$2.85	\$3.60
4	2.50	2.75	3.50	4	3.10	3.35	4.10
5	3.00	3.25	4.00	5	3.60	3.85	4.60
6	4.00	4.25	5.00	6	4.60	4.85	5.60

With Frosted Globes

WITH THROW SWITCH



Fig. 295

Trade Size Inches	Diam. Glass Inches	Diam. Base Inches	Depth Overall Inches
3	2 3/4	5	1 5/8
4	3 3/4	6 7/8	1 3/4
5	4 3/4	7 7/8	1 3/4
6	5 3/4	8 3/4	2 1/8

WITH TOGGLE SWITCH



Fig. 296

Trade Size Inches	With Throw Switch (Fig. 295)			Trade Size Inches	With Toggle Switch (Fig. 296)		
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each		Polished Brass Each	Nickel Plated Each	Chromium Plated Each
3	\$2.00	\$2.25	\$3.00	3	\$2.60	\$2.85	\$3.60
4	2.50	2.75	3.50	4	3.10	3.35	4.10
5	3.00	3.25	4.00	5	3.60	3.85	4.60
6	4.00	4.25	5.00	6	4.60	4.85	5.60

With Opal Globes

WITH TOGGLE SWITCH



Fig. 385

With Double Contact Socket

No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
7	\$3.25	\$3.50	\$4.25
8	4.25	4.50	5.25

With Standard Screw Socket

No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
9	\$4.50	\$4.75	\$5.50

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

ALL OF THE ABOVE DOME LIGHTS HAVE FLAT BACKS WHICH FIT FLUSH WITH CEILING TRIM. IT IS NOT NECESSARY TO MAKE RECESS WHEN INSTALLING.

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



The New "Perko" Marine Searchlights

LOW VOLTAGE—6-8, 12-16, 32, AND 110 VOLTS—HIGH POWER

BODIES—are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast brass.
REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a greater distance than any other projector of its class.

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

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

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

SOCKETS AND BULBS—all sizes of searchlights are furnished with standard screw sockets. Bulbs furnished as standard equipment in various voltages are as follows—6-8 volts, 18 amps.; 12-16 volts, 18 amps.; 32 volt, 8 amps; 120 volts, 250 watt. Can also furnish 120 volts, 400 or 500 watt bulbs for small additional cost.

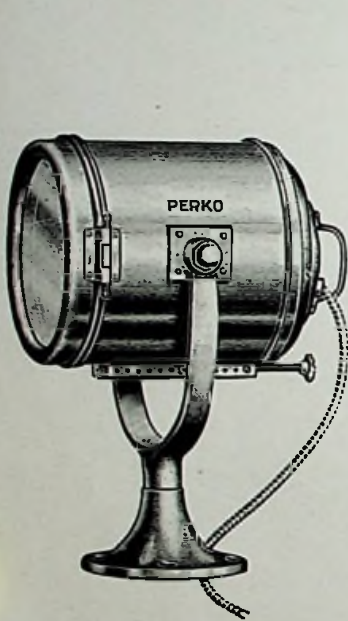


Fig. 480

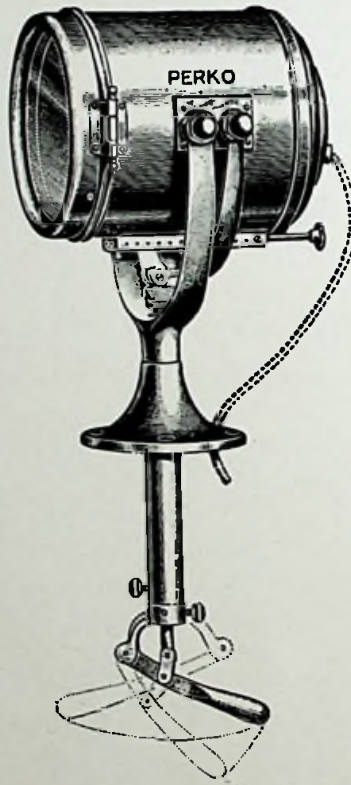


Fig. 297

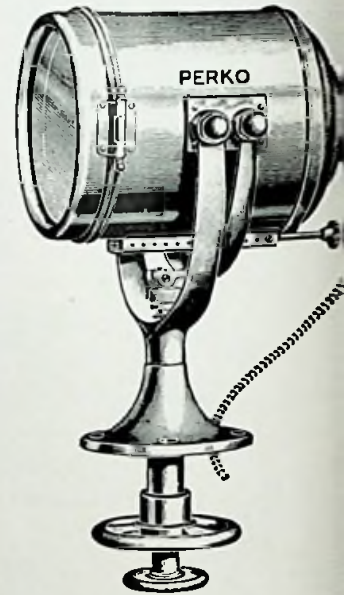


Fig. 529

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Overall Cabin Control Inches	Height Overall Deck Type Inches	Net Weight Cabin Control	Diameter of Base Inches
8	8	up to 3/4 mile	350,000	12 3/4	7 7/8	24	18	31 lbs.	6 3/4
10	10	up to 1 mile	590,000	14 3/4	9 5/8	28	22	36 lbs.	6 3/4
12	12	up to 1 1/2 miles	700,000	17	11 7/8	30	24	48 lbs.	8 1/2
14	14	up to 2 miles	850,000	19	13 1/2	34	28	56 lbs.	8 1/2

PRICE EACH

Size Inches	Fig. 480			Fig. 297			Fig. 529		
	Polished Brass	Nickel Plated	Chrom. Plated	Polished Brass	Nickel Plated	Chrom. Plated	Polished Brass	Nickel Plated	Chrom. Plated
8	\$ 70.00	\$ 76.70	\$ 82.50	\$ 85.00	\$ 91.70	\$ 97.50	\$ 90.00	\$ 96.70	\$ 102.50
10	85.00	92.50	99.50	100.00	107.50	114.50	105.00	112.50	119.50
12	100.00	108.50	116.75	120.00	128.50	136.75	125.00	133.50	141.50
14	125.00	135.00	145.00	150.00	160.00	170.00	155.00	165.00	175.00

NOTE—SPECIFY VOLTAGE AND SIZE WHEN ORDERING. FOR INFORMATION ON EXTRA BU—REFER TO PAGE 43.

“Perko” “Beam” Searchlights

The bodies of these searchlights are made of heavy brass. Control mechanism, stands and yokes are all cast bronze.

REFLECTORS—are heavily plated with chromium and highly polished. This plating gives a very high light efficiency and is more non-corrosive than most other plating processes in use on salt water.

FRONT LENS—is convex and mounted in brass frame, which is easily removed.

WIRING—is protected by flexible metal hose and waterproof insulation.

PILOT HOUSE CONTROL—is of the lever type, which is quick acting and easy to handle.

BULBS—are 6-8, 12-16 or 32 volt, double contact, 50 candlepower. Furnished with 100 candlepower bulbs if desired, add \$2.00 each.

THESE SEARCHLIGHTS WILL THROW A POWERFUL BEAM UP TO ½ MILE DISTANCE, DEPENDING ON WEATHER CONDITIONS.

Sunbeam

WITH PILOT HOUSE CONTROL

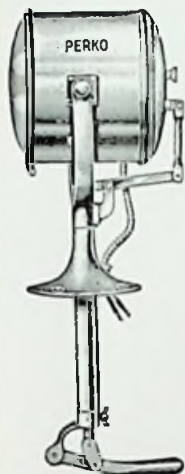


Fig. 306

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
6	6	21	3½
8	8	24	5½
10	10	27	5½
Size In.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
*6	\$22.00	\$25.00	\$28.00
6	27.00	30.00	33.00
8	35.00	39.00	41.00
**8	45.00	49.00	51.00
10	62.00	67.00	70.00

* Indicates this searchlight with T handle control instead of lever control illustrated.

** This searchlight has mirror reflector showing a clearer beam with greater distance of projection, 100 C. P. bulb.

Sunbeam

DECK TYPE

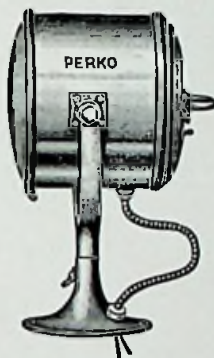


Fig. 305

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
6	6	11	3½
8	8	14	5½
10	10	17	5½
Size In.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
6	\$20.00	\$23.00	\$25.50
8	25.00	28.00	32.00
10	34.00	38.00	42.00

Brightbeam

WITH PILOT HOUSE CONTROL



Fig. 310

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
8	7½	23	3¾
Size In.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
8	\$27.00	\$31.00	\$35.00

Superbeam

DECK TYPE



Fig. 307

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
8	7½	12½	3¾
Size In.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
8	\$13.00	\$15.00	\$18.00

Streamline Searchlight FOR RUNABOUTS AND OUTBOARD MOTOR BOATS



Fig. 433

Canvas Covers FOR SEARCHLIGHTS

To fit Figs. 297, 480, 529.	
Inches	Each
8	\$4.00
10	4.50
12	5.00
14	6.00
To fit Figs. 305, 306, 310.	
Inches	Each
6	\$2.00
8	2.50
10	3.00



Fig. 548

Diam. Body Inches	Height Overall Inches	Size Base Inches
4¾	7½	2½x5
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$8.00	\$9.00	\$10.00

Star Oil Compasses

WITH SAPPHIRE JEWEL BEARINGS

The result of many years of experience in magnetic compass manufacture. An inexpensive yet guaranteed accurate instrument that will pass the most rigid U. S. inspection, unequalled for use on dories, lifeboats and motor boats.

Furnished in open dial with polished bar magnet, and sapphire jewel bearing.

IN MAHOAGANY BOX



Fig. 487

Diam. of Dial Inches	Each	Size of Box Inches	Weight Complete Pounds
2	\$ 6.00	4 3/8	1 3/4
2 1/2	8.50	5 3/8	2 1/4
3	10.50	6 1/4	3 1/2
4	16.50	7 1/4	4 1/4
5	21.50	8 1/2	6 1/2

"Star" Spirit Compasses

WITH CENTRAL BUOYANCY DIAL
REGULAR AND UNDERLIGHTED



Fig. 987

Furnished with flat card and four magnet dial. type of compass is specified and used exclusively by the U. S. Navy. A very high grade instrument seen to none in quality and dependability.

For use on large motor boats, yachts and outgoing vessels.

Diameter Card Inches	Regular Type Each	Underlighted Type Each
4	\$22.50	\$36.00
5	25.00	38.50
6	28.00	43.00
7	31.00	
8	38.00	
9	48.00	

Underlighted Binnacle Compass

POLISHED BRASS



Fig. 988

A combination of compass and binnacle that is new. The usual gimbal ring is eliminated and the deep dipping dial illuminated from below results in a compact and neat compass that has proven popular on various types of small vessels.

Diameter Card Inches	Each	Height Inches	Diameter Base Inches
4	\$50.00	5	6 1/2
5	55.00	6	7 1/2
6	60.00	6 3/4	8 1/2

Underlighted Binnacle Compass

WITH SPHERICAL DOME
POLISHED BRASS



Fig. 989

A deluxe yacht and cruiser outfit to please a most exacting clientele. The spherical dome added to the patented compensator for correction of deviation with which this compass is furnished results in a practical instrument in keeping with the present day demand for modernism.

Diam. Card Inches	Without Compensator Each		Height Inches	Diam. Base Inches
	Each	Each		
4	\$ 80.00	\$100.00	6 1/2	6 1/2
5	90.00	110.00	7 1/2	7 1/2
6	100.00	120.00	8 1/2	8 1/2

Prices Above Do Not Include Box

Binnacles

WROUGHT BRASS—TWO PIECE



Fig. 444

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

For Size Compass Inches	Height Overall Inches	Diameter Base Inches	Without Compass			Between Compass Support Inches
			Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
3	6	5 3/8			5 1/8	
4	7	6 1/2	\$10.00	\$11.00	6 3/8	
5	8	7 1/2	12.00	13.20	7 3/8	
			14.00	15.50	17.00	

With Compass Add Each \$ 9.50 15.00 20.00

Skylight Binnacle

CAST BRONZE—FOR 4 OR 5 INCH COMPASS

Body is one solid casting with cast bronze fittings. All parts screwed together. Broken glasses can easily be replaced. Hexagon skylight head, with six glasses, including two marked with sighting lines for getting bearings. Complete with night hood electric lamp.



Fig. 530



Night Hood
White Inside

Height Overall Inches	Diameter Base Inches	Distance Between Compass Supports Inches	Weight Pounds
12	9 5/8	7 1/4	14 1/2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$37.00	\$41.00	\$44.00	

Cruiser Binnacle

WROUGHT BRASS—ONE PIECE

Spun from heavy gauge brass, white enamel finish inside. Equipped with or without liquid compass. 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.

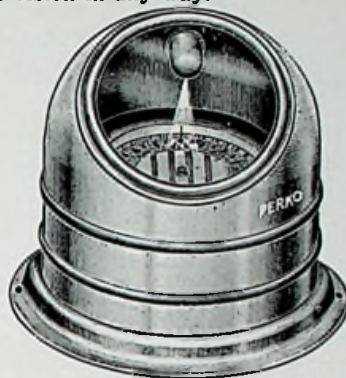


Fig. 412

For Size Compass Inches	Height Overall Inches	Diam. Base Inches	Distance Between Compass Supports Inches	Weight Less Compass Lbs.
3	6 1/2	6 3/4	5 1/2	1
4	7 1/2	9	6 3/4	1 1/2
5	8 3/4	10	7 3/4	2 3/4
For Size Compass Inches	Without Compass			With Compass Add Each
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
3	\$12.50	\$13.50	\$14.50	\$ 9.50
4	14.00	15.20	16.50	15.00
5	15.50	17.00	18.50	20.00

Skylight Binnacle

SPUN BRASS

Same as Fig. 530 above but spun from extra heavy brass throughout. Complete with night hood and electric lamp.



Fig. 534

No.	For Size Compass Inches	Height Overall Inches	Diameter Base Inches	Distance Between Compass Supports Inches
1	2 1/2 or 3	8 3/4	7 1/4	5 1/4
2	4 or 5	12	9 3/8	7 1/4
No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	With Compass Add Each
1	\$25.00	\$28.50	\$32.00	\$ 9.50
2	30.00	34.00	37.00	20.00

Cruiser Binnacle

WROUGHT BRASS—TWO PIECE

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.



Fig. 401

For Size Compass Inches	Height Overall Inches	Diam. Base Inches	Distance Between Compass Supports Inches	Weight Less Compass Pounds
3	6 1/2	6 3/4	5 1/2	1
4	7 1/2	9	6 3/4	1 1/2
5	8 3/4	10	7 3/4	2 3/4
For Size Compass Inches	Without Compass			With Compass Add Each
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
3	\$14.50	\$15.50	\$16.50	\$ 9.50
4	16.00	17.20	18.50	15.00
5	17.50	19.00	20.50	20.00

PIONEER LIGHTING PLANTS

AIR COOLED — GASOLINE ENGINE DRIVEN — PUSH BUTTON STARTING

These energetic little plants are extremely simple in design. They are sturdily built for long life under duty service. The complete unit is easily moved about and will furnish current for a lighting system, charging batteries, run electrically driven tools, and operate the water pumps and other belt driven machines.

ENGINE specifications, L head, vertical, air cooled, 5/8 H.P., 4 cycle, single cylinder. Develops rated output 2,400 R.P.M., crank shaft runs on ball bearings. Three piston rings, one quart fuel tank, equipped with fly ball governor, suction feed carburetor, splash lubrication.

FUEL consumption, 15 hours on one gallon. Oil consumption, 2 ounces in 10 hours.

STARTING, a touch of the push button starts the motor, with current provided by the storage battery emergency rope-pull starter is also provided.

ACCESSORIES, all plants are furnished complete with ammeter, cutout relay, leads, and battery clips, fill with gas and oil, connect with battery, press the starter button, and it goes to work.

GENERATOR armature mounted directly on crank shaft, outer end supported in oil-less self aligning bearing. Surplus oil for 1,000 hours operation. Self excited, two pole type.

Cub Type

6 OR 12 VOLT, 200 WATTS
BATTERY IGNITION

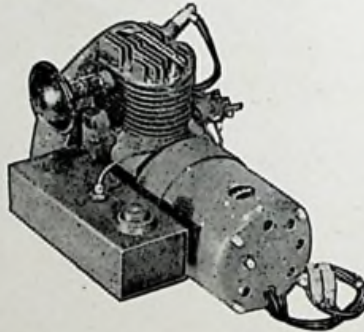


Fig. 706

Each	Overall Length Inches	Overall Height Inches	Overall Width Inches	Weight Pounds
\$44.95	15 3/4	11	10	49

Marine Type

6-12 OR 32 VOLT
MAGNETO IGNITION

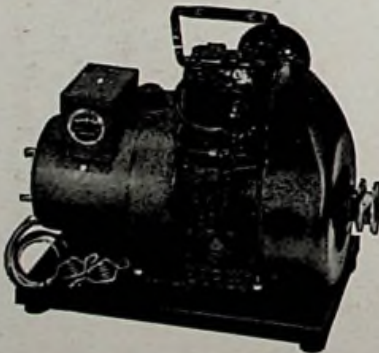


Fig. 707

Especially designed for marine duty. Furnished with carrying handle and mounting base.

Volts	Each	Watts	Overall Length Inches	Overall Width Inches	Wt. Lbs.
6	\$55.00	150	15 3/4	10	49
6	59.95	200	16	10 1/4	52
12	64.45	250	16	10 1/4	52
32	63.95	250	16	10 1/4	52

2 in 1 Type

6 AND 12 VOLT—200 WATTS
MAGNETO IGNITION

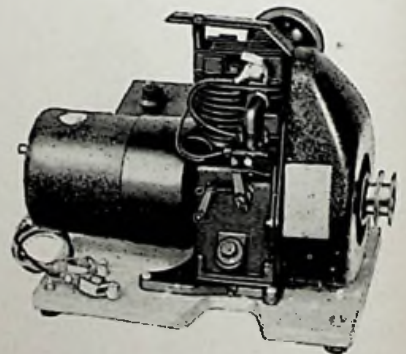


Fig. 708

This is a 12 volt plant and can be used for charging 6 volt batteries as well as 12 volt batteries.

Each	Overall Length Inches	Overall Height Inches	Overall Width Inches
\$55.00	16	11	10 1/4



"Perko" Lighting Plant

WATER COOLED
12 OR 32 VOLT—17 AMPERE CAPACITY
SINGLE CYLINDER—4 CYCLE ENGINE

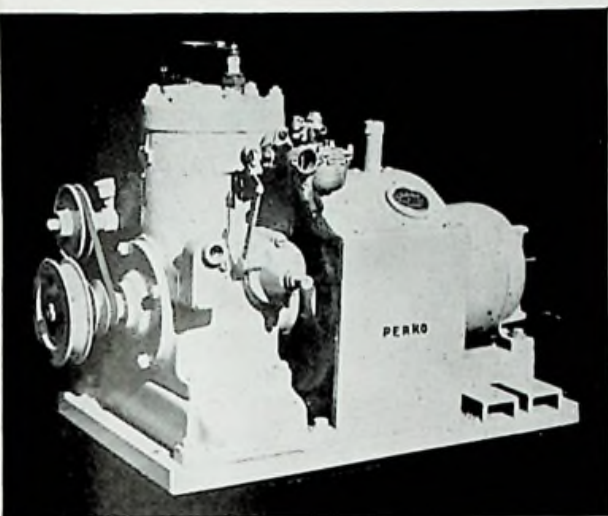


Fig. 567

The finest electric generating plant that can be made for its size and capacity.

Especially valuable where continuous operation is required in any enclosed place where the heat from an air cooled engine is dangerous or uncomfortable.

Generator driven by special flexible coupling from flywheel side of the engine.

The engine flywheel and coupling are enclosed in an aluminum box which also contains all wiring and reverse current relay.

Ammeter and starting switch are located on this housing and the stop button and output control are located so that all controls are accessible from one side.

No.	Each	Volts	Watts	Overall Height Inches	Overall Length Inches	Overall Width Inches
1	\$215.00	12	260	17½	21¼	12¼
2	215.00	32	700	17½	21¼	12¼

Prices do not include Batteries

WEIGHT 150 POUNDS

ENGINE SPECIFICATIONS

Single cylinder—4 cycle—Water cooled—Float feed carburetor—High tension magneto—Speed regulation and output adjustment by mechanical governor—Hand starting pulley for starting when battery is fully discharged—Cooling by water circulated by an all bronze gear pump.

GENERATOR SPECIFICATIONS

Direct coupled ball bearing type—Special marine type—Compound wound—Air cooled drip-proof construction—Large commutator.

This Plant can be furnished in the full automatic type so arranged so that it will start itself when the load reaches a predetermined point and will stop again when the load drops below this point—Price on Application.

Auxiliary Generators

TO BE DRIVEN FROM MAIN MOTOR BY V BELT
AND PULLEY
6-12 AND 32 VOLTS



Fig. 659

This outfit now consists of an air cooled generator with V pulley, ammeter in panel, cutout and terminals all mounted on a base.

A necessity on the boat where the lighting or starting load is so great that the generator on the engine is not sufficient to keep the batteries charged.

Volts	Each	Amperes	Overall Length Inches	Overall Width Inches	Diameter Pulley Inches
6	\$27.00	20	10	7¾	4
12	29.00	15	10	7¾	4
32	32.00	7	10	7¾	4

Remote Control Panel

WITH STARTING RELAY
FOR ALL SELF STARTING LIGHTING PLANTS



Fig. 658

When the boat is equipped with this control the generating plant can be started and run just the same as the main engine. It being only necessary to enter the generator compartment to supply oil and to make routine inspection and adjustments.

Consists of a bakelite panel on a galvanized box which consists of a starting relay, choke control, start and stop switches and ammeter.

Can be mounted flush or on the surface of the dash or bulkhead.

Each	Size Panel Inches	Size Box Behind Panel Inches
\$14.00	5 x 5	4 1/8 x 4 1/8 x 1 3/4

“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 joints, blank bearing ends are solid (not soldered), all bearings are fully lubricated by brass grease cups. drive shaft is in perfect alignment with the pump body. Pipe connections are Briggs standard pipe tap.

Single Lower Drive Shaft

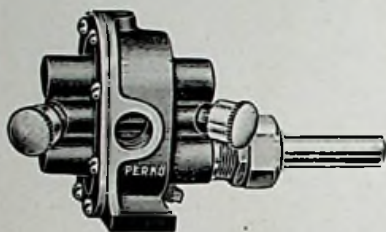


Fig. 684

Pump No.	Price Each Complete	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$ 9.00	1/4	1/2	3 3/4
3	10.50	3/8	5/8	5 1/2
4	11.25	1/2	3/4	6
7	13.75	3/4	5/8	9
9	14.85	1	3/4	9 1/2

Single Upper Drive Shaft

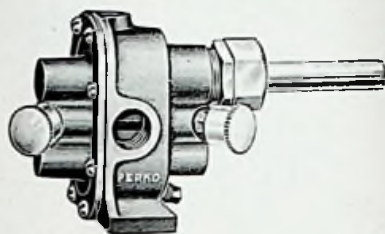


Fig. 682

Pump No.	Price Each Complete	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$ 9.00	1/4	1/2	3 3/4
3	10.50	3/8	5/8	5 1/2
4	11.25	1/2	3/4	6
7	13.75	3/4	5/8	9
9	14.85	1	3/4	9 1/2

Double Lower Drive Shaft

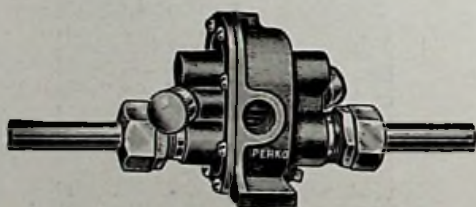


Fig. 685

Pump No.	Price Each Complete	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$10.20	1/4	1/2	4 1/2
3	11.25	3/8	5/8	6 1/4
4	12.40	1/2	3/4	6 3/4
7	14.85	3/4	5/8	9 1/2
9	15.95	1	3/4	9 3/4

Double Upper Drive Shaft

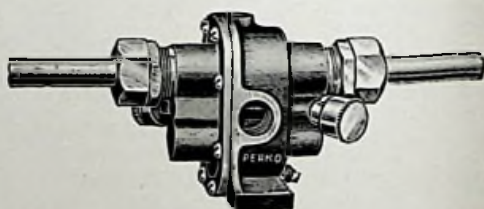
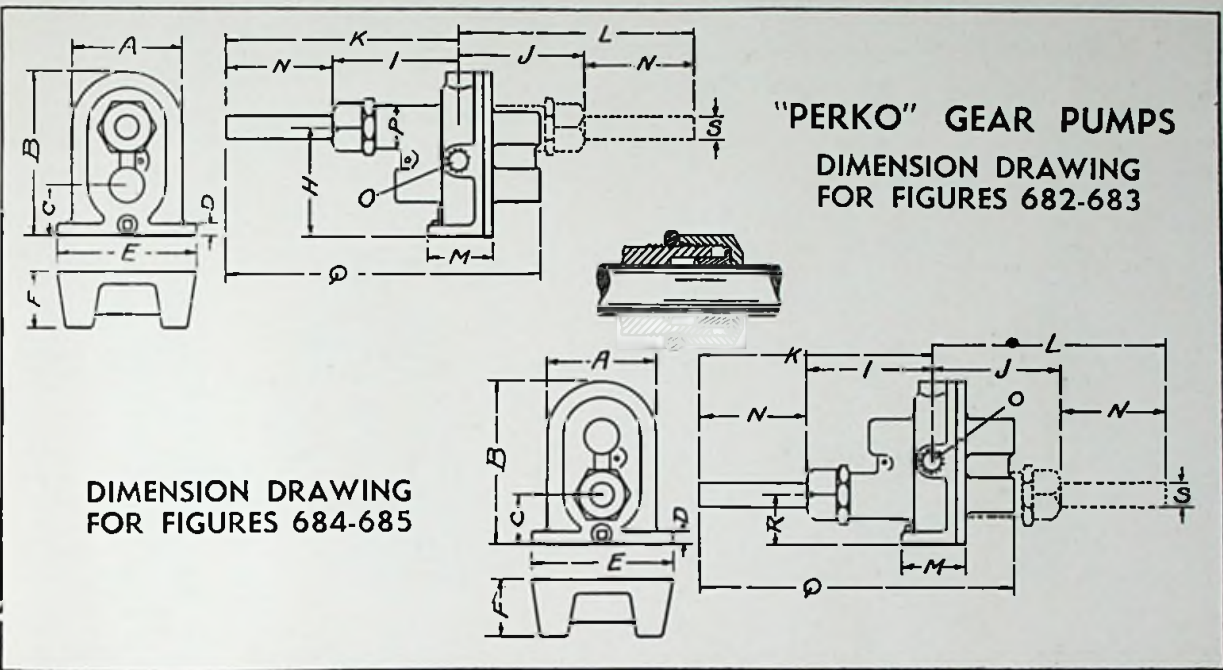


Fig. 683

Pump No.	Price Each Complete	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$10.20	1/4	1/2	4 1/2
3	11.25	3/8	5/8	6 1/4
4	12.40	1/2	3/4	6 3/4
7	14.85	3/4	5/8	9 1/2
9	15.95	1	3/4	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.



DIMENSION TABLE FOR "PERKO" GEAR PUMPS

Pump N.	A	B	C	D	E	F	H	I*	J*	K*	L*	M	N	O†	P	Q	R	S
1½	1⅝	2⅞	1⅓	¾	2¼	1⅞	1⅞	2½	2⅝	4¾	4¾	1⅜	2⅝	⅝	⅞	6⅝	⅝	¾
2	2⅜	3½	1⅓	¾	2⅞	1⅜	2⅜	2⅝	2⅞	4⅝	4⅝	1⅜	2⅝	¼	1	6⅝	1⅞	½
3	2¾	4	1⅞	¼	3½	1⅜	2⅝	2⅞	2⅞	5⅞	5⅞	1⅜	2½	⅝	1⅞	6⅝	1⅞	⅝
4	2¾	4	1⅞	¼	3⅝	1⅞	2⅝	3⅞	3⅞	5⅞	5⅞	1⅞	2½	½	1⅞	7⅝	1⅞	⅝
7	3¼	5⅝	2⅞	¼	4	1½	3⅞	3⅞	3⅞	5⅞	5⅞	1⅞	2½	¾	1⅞	7⅝	1⅞	⅝
9	3¼	5⅝	2⅞	¼	4	1⅞	3⅞	3⅞	3⅞	5⅞	5⅞	1⅞	2½	1	1⅞	7⅞	1⅞	⅝

Dimensions in inches—Standard Pumps. *From center line of gear. †Briggs standard pipe tap.

CAPACITY TABLE FOR "PERKO" GEAR PUMPS

1200 REVOLUTIONS PER MINUTE

1800 REVOLUTIONS PER MINUTE

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1½	1.57	⅙	1.43	⅙	1.35	⅙	1.3	⅙	1.2	⅙
2	3.	⅙	2.62	⅙	2.25	⅙	1.8	⅙	1.45	⅙
3	5.	⅙	4.25	⅙	3.7	⅙	3.2	⅙	2.8	⅙
4	7.5	⅙	6.3	⅙	5.4	⅙	4.6	⅙	3.8	1
7	13.5	⅙	11.5	⅙	9.9	⅙	8.75	1	7.7	1½
9	17.	⅙	15.5	⅙	14.1	1¼	12.7	1¼	11.2	1½

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
1½	2.3	⅙	2.2	⅙	2.15	⅙	2.1	¼	2.	¼
2	4.5	¼	4.2	¼	3.85	⅙	3.45	½	3.1	½
3	7.5	⅙	6.75	⅙	6.1	¾	5.6	1	5.25	1
4	11.	½	10.	¾	9.	¾	8.2	1	7.3	1½
7	16.*	*⅙	15.*	1*	13.3*	*1	12.*	1½*	10.8*	*1½
9	20.*	*¾	18.75*	1*	17.7*	*1½	16.5*	*2	15.3*	*2

*At 1500 R.P.M.
 Gallons per minute flow of clean water—63° F.—no pipe friction.
 Motor recommended shown by H. P. indicated.
 Head in feet = 2.3 x lbs. pressure.



"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE
FOR MARINE, INDUSTRIAL AND DOMESTIC USE

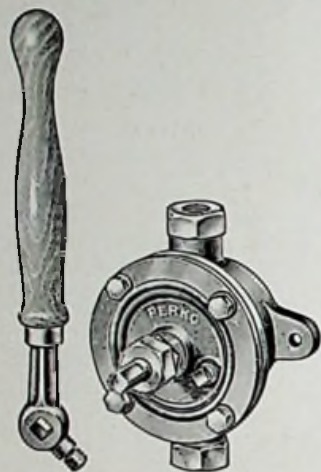


Fig. 681

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

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

EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Price Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$15.00	½	5½	5	11½
1	17.00	¾	5¾	7	14
2	19.50	1	6¾	9¾	19½

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

"Perko" Special Gear Pump

ALL BRONZE
FOR STAR MARINE MOTOR CONVERSION

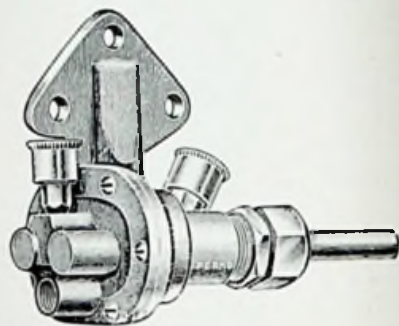


Fig. 804

This pump is designed primarily for Star and other motors, has a triangular bracket to fit the intake manifold on the motor with water passage through bracket.

Furnished complete with grease cups, tobins, gears and shafts, all bearings machined, all pipe ends are solid, not soldered.

Price Each Complete	Size Pipe Connection Inches	Diameter Drive Shaft Inches
\$10.00	¾	½

"PERKO" BRONZE GEAR PUMP PARTS

Pump No.	Size Pipe Con'c'n	Cover	Screws	Spur Idle Gear	Spur Drive Gear	Body	Drive Shaft	Metal Pack Gland	Lock Nut	Pack Nut	Id Ge Sh
1½	⅛"	\$1.50	\$.02	\$.95	\$.95	\$2.50	\$.75	\$.35	\$.30	\$.38	\$.
2	¼"	1.60	.02	1.00	1.00	2.70	.75	.55	.30	.54	.
3	⅜"	1.75	.02	1.15	1.15	2.75	.75	.65	.38	.60	.
4	½"	2.10	.02	1.45	1.45	3.25	.91	.65	.38	.60	.
7	¾"	2.40	.02	1.90	1.90	4.00	.91	.65	.38	.60	.
9	1"	3.25	.02	2.20	2.20	4.80	.91	.65	.38	.60	.

"Champion" Navy Bilge Pump BRASS CYLINDER—CAST BRONZE PARTS



Fig. 1016

Patent Pending



View of New Improved Plunger

Truly a champion among bilge pumps. The improvement is so great that we can truthfully claim this pump gives greater capacity with less effort than any other Navy type on the market today.

The plunger or "heart" of the pump is absolutely dependable at all times and can not get out of order. Made of machined brass with heavy square lubricated flax packing set in a groove. This packing is far superior in action and durability to leather washers which have never been fully satisfactory for salt water.

Furnished complete with brackets adjustable for starboard or port mounting.

CAPACITY—20 GALLONS PER MINUTE.

Tested at 55 strokes per minute showing 1 1/2 quarts per stroke.

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$7.50	24	2 3/4	1 1/4	1 1/2	1/2

Bronze Navy Pump Strainers

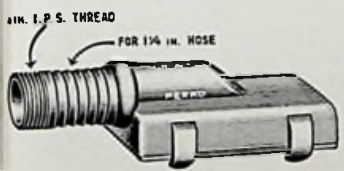


Fig. 704

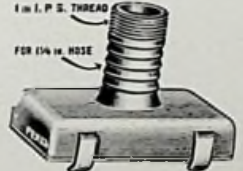


Fig. 705



Fig. 721



Fig. 722

Fig.	Price Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
721	\$1.50	1 1/4		5	2 3/4	1 1/2
722	1.50	1 1/4		4 3/4	2 3/4	1 3/8
704	1.50	1	1 1/4	7	2 3/4	2
705	1.50	1	1 1/4	4 3/4	2 3/4	1 1/2

"Super" Navy Bilge Pump FOR HOSE OR PIPE

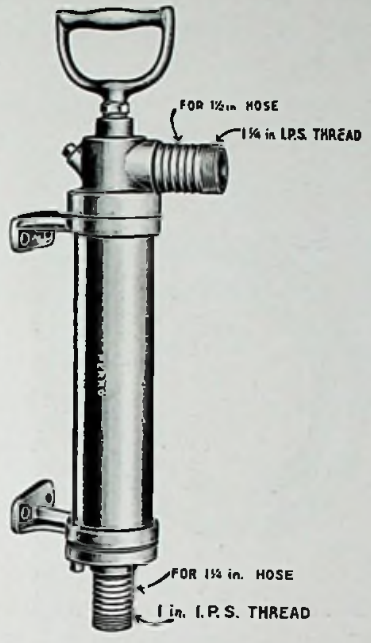


Fig. 701

This is our very popular "Champion" Pump improved by cast bronze integral fittings at inlet and outlet ends for connecting hose or pipe. Retaining of course our improved flax packed plunger and 1/2 inch plunger rod.

Each \$7.50	Extreme Length Inches 27	Inlet Sizes		Outlet Sizes	
		Pipe Inches 1	Hose Inches 1 1/4	Pipe Inches 1 1/4	Hose Inches 1 1/2

"Midget" Navy Bilge Pumps FOR HOSE OR PIPE

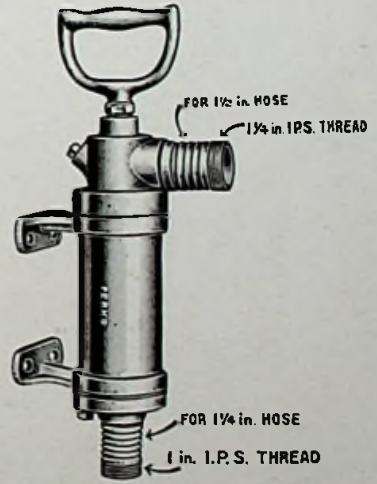


Fig. 702

Our regular pump reduced in length for boats requiring a large capacity pump to be installed where space is limited.

Each \$7.50	Extreme Length Inches 18 1/4	Diam. Cylinder Inches 2 3/4	Inlet Sizes		Outlet Sizes	
			Pipe Inches 1	Hose Inches 1 1/4	Pipe Inches 1 1/4	Hose Inches 1 1/2

Brass Bilge Pumps
DOUBLE ACTION

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.

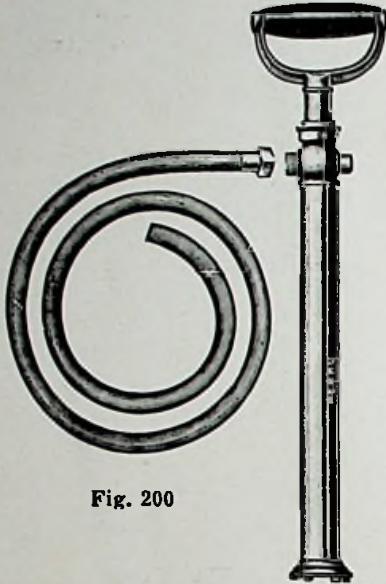


Fig. 200

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$3.60	16	1½	6	2¼
2	4.40	17	1½	12	3¼
3	4.70	26	1½	8½	3
4	5.50	26	1½	16½	4

Brass Bilge Pumps

WITH SUCTION HOSE AND STRAINER

Cast bronze foot rest and two 5 foot lengths of hose for suction and discharge.

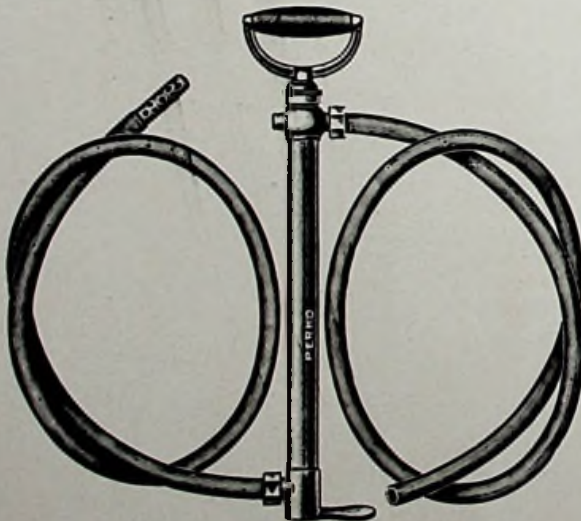


Fig. 202

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$5.75	16	1½	6	3
6	6.60	17	1½	12	4
7	7.15	26	1½	8½	3¼
8	8.25	26	1½	16½	5

Brass Bilge Pump

DOUBLE ACTION

WITH BULKHEAD BRACKETS

Complete with 2 five foot lengths of hose and strainer.

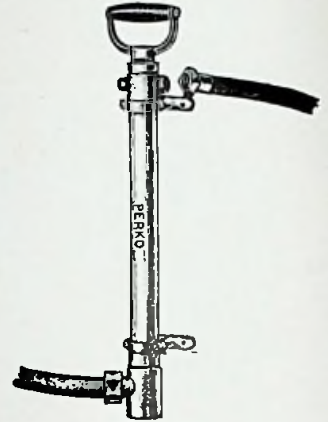


Fig. 524

Nos.	With Hose Each	Height Overall Inches	Diam. Pump Inches
11	\$7.50	21	1½
12	8.75	31	1½

Special Bilge Pump
SINGLE ACTION — ALL BRASS

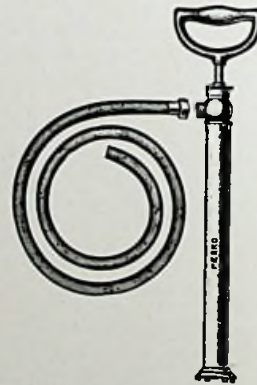


Fig. 723

Designed primarily for the small outboard boat or runabout.

Well constructed, brass, furnished complete with 5 feet of rubber hose.

CAPACITY—at one stroke, 3½ gallons per minute.

Complete Each	Extra Hose Each	Diameter Inches	Extreme Length Inches
\$2.50	\$.90	1½	16

Rubber Hose and Strainer

FOR FIG. 200 AND 202 BRASS BILGE PUMPS



Fig. 208 Fig. 209

Heavy moulded rubber durable and lasting. ½" inside diameter.

Standard 5 ft. lengths Cast Bronze Strainer

Other lengths of hose can be furnished. Price on application.

Trench or Bilge Pump

GALVANIZED

Made of heavy tubing, formed from black iron and hot galvanized afterwards, water-tight and rustproof seams. Galvanized iron valves with oak leather clapper, wood rod and handle, cone shaped oak leather plunger, as per Fig. 239, well reinforced with galvanized iron bands around body.

ALSO KNOWN AS CONTRACTOR'S PUMP



Fig. 156

Diameter, inches	2	2½	3	3½	4
Price per foot	\$.60	\$.65	\$.70	\$.75	\$.80

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

Handy Bilge Pump

GALVANIZED

With iron rod and handle, improved oak leather disc plunger as Fig. 238, galvanized iron valve and top cap.

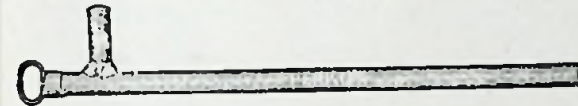


Fig. 158
PRICE EACH

Length Overall Feet	Diameter of Pump			
	1½ in.	2 in.	2½ in.	3 in.
2	\$1.90	\$2.00	...	...
2½	1.90	2.00	\$2.50	\$2.75
3	2.15	2.25	2.50	2.75
3½	2.30	2.40	2.70	3.10
4	2.60	2.70	3.00	3.50
4½	2.70	2.80	3.15	3.75
5	2.80	2.90	3.25	4.00
5½	3.00	3.10	3.50	4.30
6	3.15	3.25	3.75	4.60

Wizard Bilge Pump

WITH WOOD ROD AND LEATHER PLUNGER
Galvanized with Galvanized Valve

PRICE EACH

Length Overall Feet	Diameter of Pump				
	2 in.	2½ in.	3 in.	3½ in.	4 in.
2	\$2.25	\$2.70	\$3.00	...	...
2½	2.35	2.70	3.00	...	...
3	2.50	2.90	3.00	\$3.30	...
3½	2.65	3.00	3.10	3.30	\$3.60
4	2.75	3.00	3.20	3.40	3.70
4½	2.85	3.10	3.30	3.50	3.80
5	2.95	3.20	3.40	3.65	3.90
6	3.40	3.80	4.00	4.40	4.70

Copper with Bronze Valve

Diameter Inches	Price Each
2	\$6.00
2½	6.50
3	7.00

Fig. 344

Above prices on copper pumps apply to all lengths up to 5 foot inclusive. Longer lengths, price on application.

NOTE—ON ALL PUMPS LISTED HERewith THERE IS A CHARGE OF \$1.00 FOR CRATING 6 PUMPS OR LESS. 7 OR MORE PUMPS—NO CRATING CHARGE.

Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY

24 B. & S. Gauge Steel, Hot Galvanized After Forming

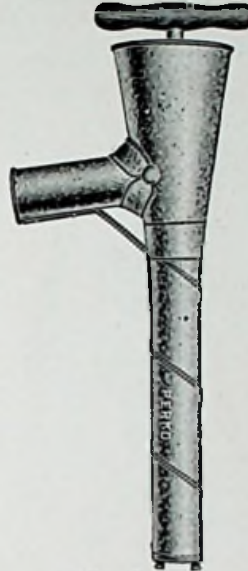


Fig. 724

SOLDERED JOINTS

Galvanized cast iron bottom valve with heavy leather clapper, galvanized steel support for spout rivited to spout and body.

Especially recommended for use by Public Utilities, Contractors and Industrials where pumps are put to very severe use.

Inside Diameter Body Inches	Price Per Foot
3	\$1.80
4	2.25

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

Crank Case Pump

DOUBLE ACTION—ALL BRASS

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

Capacity per minute—2 Gallons

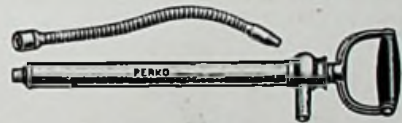


Fig. 146

Length Pump Overall Inches	Length Inlet Spout Inches	Length Outlet Spout Inches	Diameter Pump Inches	Weight Pounds
17½	12½	1¾	1⅞	2½

Price Each—Complete, as illustrated \$3.75
Price Each—Flexible Metal Spouts Only 1.90
Moulded Rubber Hose to fit Outlet Spout, .20 per foot
Rubber hose not furnished as standard equipment.

Crank Case Pump

SINGLE ACTION—ALL BRASS

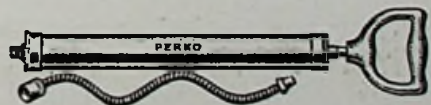


Fig. 388

Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Each Pounds	Complete Each	Extra Spouts Each
1½	12	15½	2	\$2.75	\$1.10



Basin or Galley Pumps

CAST BRONZE, POLISHED, NICKEL AND CHROMIUM PLATED

With a finished mahogany handle which when all the way down will not pinch the hand against the upright base. Furnished with lock nut and two rubber washers.

These pumps have brass ball check in the plunger, and flapper valve at the bottom.

The handle is adjustable for operating from most convenient position.



Fig. 473
With High Spout
Straight Base



Fig. 478
With High Spout
Flange Base

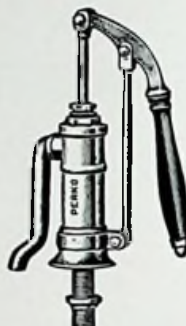


Fig. 474
With Low Spout
Flange Base

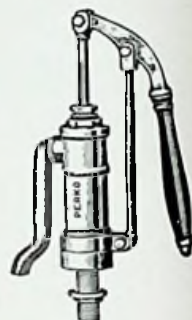


Fig. 479
With Low Spout
Straight Base

Fig.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Diameter Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds
473-478	\$ 9.00	\$ 9.75	\$10.50	1 1/2	6	2 1/2	1/2	14	3 1/2
474-479	10.00	10.75	11.50	1 1/2	6	2 1/2	1/2	13	3 3/4

New Basin Pump

WITH METAL LEVER HANDLE

A well made good looking pump with brass ball checks in plunger and at the bottom or intake. Adjustable handle for operating from most convenient position.

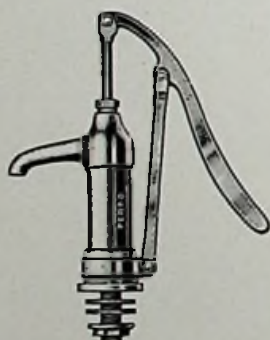


Fig. 467

Basin Pump

WITH STOP COCK

Same pump as those above with cast bronze stop cock. Furnished with straight or flange base, flange base furnished unless otherwise specified.

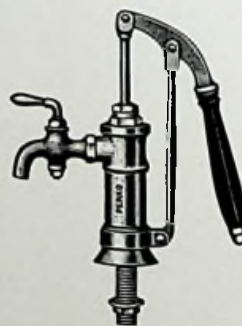


Fig. 525

Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Spread Handle Up Inches	Weight Pounds	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	1 1/2	6	2 1/2	1/2	14	4 1/2
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each		Polished Bronze Each		Nickel Plated Each		Chromium Plated Each	
\$7.50		\$8.00		\$8.75		\$11.00		\$12.00		\$13.00	

Tail Pieces for above pumps for attaching hose or lead pipe are shown on page 81, Figs. 67 and 68

Marvel Basin Pumps

ALL BRONZE

Designed for beauty as well as simplicity, just as attractive as the water fittings in the modern home. Furnished with brass ball checks in plunger and at bottom or intake.

Length of stroke is 5¼ inches.

Inlet is threaded for ¾ inch pipe.

Capacity per minute, Low Speed Stroke—3 Gallons.



Fig. 144
Low Spout

Fig. 145
High Spout

Fig. 1040
Gooseneck Spout

Fig.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds
144	1½	13½	3	0	3
145	1½	16½	3	3	3½
1040	1½	14½	4½	3	3½

Fig.	Exposed Parts Only		
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
144	\$6.00	\$6.50	\$7.75
145	7.50	8.25	8.75
1040	7.00	7.50	9.50

Cruiser Basin Pump

ALL BRONZE

With brass ball checks in plunger and bottom intake. Threaded for ½ inch pipe, neck is 2¼ inches long, weight, 3 pounds.



Fig. 495

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Diam. Barrel Inches	Height to Spout Inches	Projection of Spout Inches
	\$5.50	\$6.00	\$6.50	1¾	5	2¼

Double Action Galley Pump

BRASS TUBING—CAST BRONZE FITTINGS

A large capacity pump ideal for galley use, complete with bulkhead brackets and tail pieces for attaching hose or lead pipe. Brass ball checks in plunger and intake. Threaded for ¾ inch pipe.



Fig. 345

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Diam. Barrel Inches	Length Overall Inches
9	\$5.50	\$6.50	\$ 9.00	1½	21
10	7.00	8.00	10.50	1½	31

Double Action Basin Pump

ALL BRONZE

With double tubing and brass ball checks in plunger and bottom intake. Furnished with solid flange or clamp flange.

Capacity per minute, Low Speed Stroke—3½ Gallons.



With Solid Flange
Fig. 373

With Clamp Flange
Fig. 374

Fig.	Diam. Barrel Inches	Length Up To Spout Inches	Projection Spout Inches	Inlet Pipe Thread Inches	Diam. Flange Inches	Weight Pounds
373	1½	13½	4¼	¾	2½	2¾
374						

Fig.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
373	\$3.75	\$4.10	\$5.10
374	4.10	4.50	5.50

Bulkhead Bracket

FOR BASIN PUMPS—CAST BRONZE

For mounting any of the basin pumps shown above on bulkhead. Removable clamp makes tight fit on body of pump.

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	\$1.50	\$1.80	\$2.50

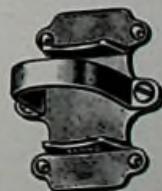


Fig. 475

"Challenge" Force Pumps

DOUBLE ACTION

Recommended as the best hand force pump for pumping into overhead tanks or forcing water to distant points, widely used aboard vessels as a deck pump.

The Steamboat Inspection Service specifications require that a deck pump for fire service should have a capacity of 100 cubic inches per revolution, the No. 12 size is approved for this service.

The No. 16½ pump meets Lloyds' specifications. All valves are brass on brass seats.

Piston rod is brass cased operating through a brass packing gland.

Cylinder is brass lined.

Suction lift is 25 feet, the suction pipe may extend horizontally a short distance.

WITH ONE LEVER



Fig. 694

No.	Each	Diam. Cyl-inder In.	Lgth. Stroke In.	Pipe Size In.	*Lift and Force Feet	Cap. Per Rev. Gals.	Approx. Wt. Lbs.
2	\$25.50	2½	4½	1½	150	.19	89
4	26.50	3	4½	1½	150	.28	90
8	28.00	4	4½	2	100	.49	105
12	41.00	5	5¼	2½	100	.89	190
16	49.00	6	5¼	2½	100	1.28	229
16½	50.00	6	5¼	3	100	1.28	229

WITH TWO LEVERS

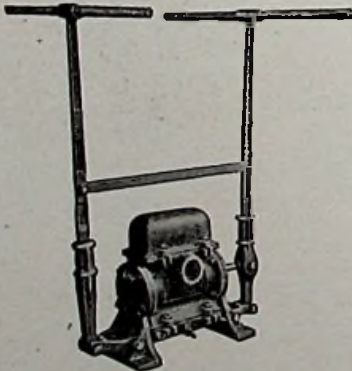


Fig. 695

No.	Each	Diam. Cyl-inder In.	Lgth. Stroke In.	Pipe Size In.	*Lift and Force Feet	Cap. Per Rev. Gals.	Approx. Wt. Lbs.
8	\$34.00	4	4½	2	125	.49	130
12	45.00	5	5¼	2½	125	.89	215
16	53.50	6	5¼	2½	125	1.28	260
16½	55.00	6	5¼	3	125	1.28	260

* Lift and force figured from supply to point of delivery.

Diaphragm Suction Pumps

IRON

Unexcelled for rough and ready service such as required by bilge pumping on vessels, barges and dredges.

The diaphragm is the best quality rubber guaranteed to stand hard service. Diaphragm can be replaced removing only four nuts and lifting off top section. These nuts are brass to prevent rusting fast to bolts.

The suction valve is metal, rubber faced, easily removable.

The hand lever is wrought iron, reversible, enabling to be used vertically or horizontally from either side of the back of the pump.

Hand lever is furnished unless power lever is specified.

WITH BOTTOM SUCTION



Fig. 696

No.	Each	Suction Pipe Size Inches	Stroke Inches	Capacity Per Hour Gallons	Weight Pounds
2	\$20.50	2½	3	1800	111
3	25.00	3	3	3500	171
4	40.00	4	4	6000	250

WITH SIDE SUCTION



Fig. 697

No.	Each	Suction Pipe Size Inches	Stroke Inches	Capacity Per Hour Gallons	Weight Pounds
2	\$22.50	2½	3	1800	121
3	27.00	3	3	3500	171
4	44.00	4	4	6000	260

RUBBER DIAPHRAGMS ONLY

No.	Each
2	\$1.75
3	2.00
4	2.50

Electric Sump Pump

ALL BRONZE CONSTRUCTION



Fig. 698

A self contained vertical type centrifugal pump of all bronze construction. All the user has to do is connect the discharge to some waste point, plug in the electric cord and the unit will operate automatically.

The pump, vertical tubing, float, etc., are all bronze, the pump shaft is stainless steel. No chance of rust or corrosion during idle periods.

The pump casing contains suction opening and discharge nozzle, a large area strainer and supporting feet.

The motor is designed specifically for use with this pump and is ¼ H.P. single phase A. C., 60-cycle, 110 volt, 1,750 R.P.M., with 8 feet rubber covered cord and plug.

The float is a large size made of copper with rod and stops for adjusting to various liquid levels in sump.

Rating—1,900 G.P.H. at 5 foot head.

1,500 G.P.H. at 10 foot head.

900 G.P.H. at 15 foot head.

Each	Height Overall Inches	Size Discharge Inches	Weight Pounds	Minimum Pit Diam. Inches
\$35.00	38	1	55	18

Pitcher Spout Pumps

IRON



Fig. 699

A moderate priced pump with open top. The inside of the cylinder is polished to lessen wear on plunger leathers. The lever can be adjusted to operate in the most convenient position.

Has a suction lift of 25 feet. The suction pipe may extend a short horizontal distance.

No.	Each	Diam. Cylinder Inches	Suction Pipe Inches	Capacity Per Stroke Gallons	Approx. Weight Pounds
2	\$2.20	3	1¼	.12	23
3	2.45	3½	1¼	.17	26
4	4.00	4	1½	.22	30

Power Rotary Pumps

ALL IRON OR IRON BRONZE LINED

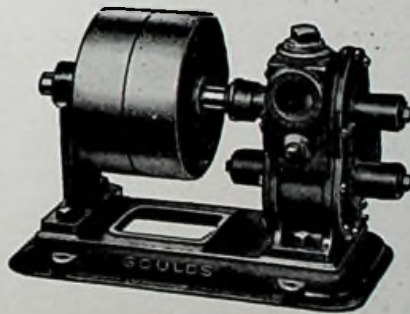


Fig. 700

Fitted with tight and loose pulleys which makes them especially adaptable for line shaft drive. Capacities given are at 100 R.P.M.—100 foot head, but pump will give satisfactory service at speeds up to 300 R.P.M.

Furnished in all iron, iron with bronze case and cams or all bronze.

No.	Pipe Size Inches	Size Pulleys Inches	Gallons Per Min. 100 R.P.M.	Discharge Head Feet	Approx. Weight Pounds
1	1½	8x2½	10	100	66
2	1½	8x2½	12½	100	73
3	2	8x2½	14	100	78







No.	All Iron Each	With Bronze Case and Cams Each	All Bronze Each
1	\$20.00	\$53.50	\$59.00
2	22.50	58.50	63.50
3	24.50	68.50	73.50



Parts for Brass Bilge Pumps

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

No. 1 fits numbers 1, 3, 5 and 7 bilge pumps. } Page
 No. 2 fits numbers 2, 4, 6 and 8 bilge pumps. } 70

	Flange Washer { No. 1 Fig. 203 { No. 2	Each \$.20 .25
	Cup Washer { No. 1 Fig. 204 { No. 2	\$.20 .25
	Split Washer { No. 1 Fig. 205 { No. 2	\$.05 .07
	Hollow Ball { No. 1 Fig. 206 { No. 2	\$.30 .40
	Valve Fitting For Plunger { No. 1 Fig. 456 { No. 2	\$.50 .60
	Packing Nut { No. 1 Fig. 457 { No. 2	\$.60 .80

Bottom Valves

FOR BRASS BILGE PUMPS—CAST BRONZE



Fig. 549
For Fig. 200
Single Hose Pump



Fig. 550
For Fig. 202
Double Hose Pump

Furnished complete with hollow brass ball and strainer.

Fig. 549	
For Pump Size No.	Each
0	\$.90
1	1.00
2	1.30
3	1.00
4	1.30

Fig. 550	
For Pump Size No.	Each
5	\$1.30
6	1.60
7	1.30
8	1.60

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

Pump Valve



Galvanized iron with oak leather clapper, galvanized iron weights both sides of leather riveted together and screwed to casting.

Fig. 237						
Diameter, inches	1 1/2	2	2 1/2	3	3 1/2	4
Wgt. per doz., lbs.	3	4	6	7	9	11
Price per doz.	2.75	3.25	4.00	4.50	5.50	6.50

Improved Plunger

Malleable iron stem threaded to iron wheel to support oak leather plunger.



Fig. 238

	Diam. Inches	Weight Per Dozen Lbs.	Price Per Doz.
	1 1/2	2 1/2	\$3.00
	2	3	3.50
	2 1/2	4 1/2	4.00
	3	6	4.50

Leather Plungers

OAK LEATHER Riveted together, strong and durable.



Fig. 239

	For Diam. Pump Inches	Weight Per Dozen Lbs.	Price Per Doz.
	2	2	\$2.60
	2 1/2	2 1/2	3.30
	3	3	4.00
	3 1/2	3 1/2	4.80
	4	4	5.60
	4 1/2	4 1/2	8.00

Wood Pump Handles



Fig. 230

Turned from soft wood, smooth finish, 9 inches long. Diam. of hole, in. 7/8 1 Price per doz. \$1.44 \$1

Wood Pump Rods



Fig. 231

Pointed on one end. Diam., inches 7/8 1 Lengths, ft. 2 to 6 6 to 10 Price per ft. \$.08 \$-

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

Plunger for Navy Bilge Pumps

ALL BRASS



Fig. 108

This style plunger assembly used all "Perko" navy type bilge pumps. cast bronze handle with "man size" The brass vertical rod is 1/2 inch diameter. The plunger itself consists of bronze casting with 1/4 inch self lubricated flax packing set in a groove. packing is far superior to leather with ordinary use will give fine results for years, yet it is very easy to repair.

For cylinder—2 3/4 inches inside diameter. Each, complete \$

Flexible Couplings

DIE CAST WHITE BRASS

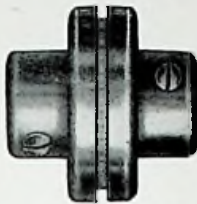


Fig. 687

Die cast under tremendous pressure, a heavy leather disc, 5/16" thick with two inserts on each side furnished complete with set screws. 5/8 and larger have keyway and set screws.

No.	Price Each	Bore Inches	Length Inches	Outside Diameter Inches	Outside Diameter Hub Inches
1	\$1.00	3/8 and 1/2	1 1/8	1 7/8	1
2	1.50	3/8 to 3/4	1 1/8	2 1/8	1 1/2

No extra charge for combination of size bores.

Be sure to specify size bore, both ends, when ordering.

V Type Pulleys

DIE CAST WHITE BRASS



Fig. 688

No.	Price Each	Outside Diameter Inches	Bores Inches	Running Diameter Inches
1	\$1.00	3	3/8 to 3/4	2 1/8
2	1.50	4	1/2 to 3/4	3 1/2
3	2.00	5	1/2 to 3/4	4 3/4

Be sure to specify size bore when ordering.

Brass Grease Cups

FOR PERKO GEAR PUMPS



Fig. 961

Drawn from heavy gauge sheet brass. This cup is of light weight yet practically indestructible.

No.	Each	Height Inches	Inside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$.30	1 1/4	1/2	1/8	1/8
2	.35	1 3/8	3/4	1/8	1/4
3	.45	2 1/8	1 1/4	1/8	3/4

Motor Driven Gear Pump

WITH 12 OR 32 VOLT MOTOR

3/4 INCH PUMP—1/6 H.P. MOTOR

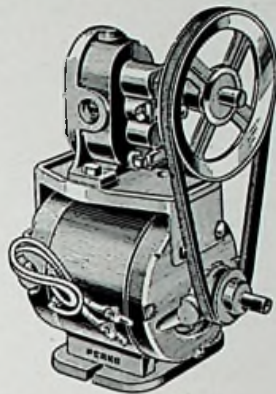


Fig. 576

Designed primarily for bilge pumping, fire fighting, washing down decks and top sides, for all general purposes.

Pump—All bronze gear type with 3/4 inch pipe connection.

Motor—A specially built drip-proof type treated to withstand dampness. Its normal current draw is about 7 amperes for 32 volt type and 18 amperes for 12 volt type.

Capacity—Motor drives pump at 580 R.P.M. through a V belt. Pumps about 350 gallons per hour at 0 lbs. pressure. Reasonable pressures can be obtained for intermittent service.

No.	Each	Voltage of Motor	Size of Base Inches	Height Overall Inches
1	\$75.00	12	5 3/4 x 4 3/4	14
2	70.00	32	5 3/4 x 4 3/4	14

Rubber Hose and Couplings

FOR NAVY BILGE PUMPS



Fig. 812

An extra heavy rubber hose in sizes necessary to fit our navy type bilge pumps and strainers. Couplings are cast bronze.

Hose Only			Couplings Only	
Inside Diam. Inches	Outside Diam. Inches	Per Foot	Pipe Size	Each
1	1 1/2	\$.36	1	\$.54
1 1/4	1 7/8	.46	1 1/4	.90
1 1/2	2 1/8	.60	1 1/2	1.20

Hose Clamps

GALVANIZED—HEAVY



Fig. 823

For Inside Diameter Hose Inches	Per Dozen
1	\$1.00
1 1/4	2.00
1 1/2	2.25

The Improved Boatman Closet

ALL BRONZE PUMP AND FITTINGS
BIRCH SEAT AND COVER—MAHOGANY FINISH

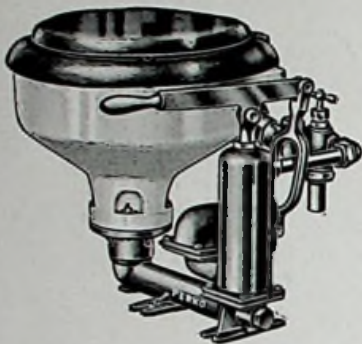
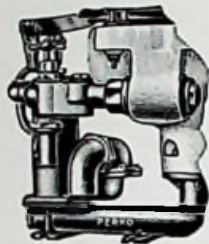


Fig. 828



Back View of Pump and Supply Connections

Used either above or below water line. White vitreous china bowl, rim flushing. Pump for supply and discharge 2½ inch diameter with hemp packed piston.

Waste valve contains leather clack washers.

Combination supply and check valve.

Chromium plated hinges on seat and cover.

Overall Width Side to Side Inches	Overall Width Front to Back Inches	Overall Height Inches	Inlet Pipe Size Inches	Outlet Pipe Size Inches
17½	17½	14¼	¾	1½

Price each, Complete	\$36.00
With White Seat and Cover, add each	3.00
Mahogany finish Seat and Cover only	4.75
White Vitreous China Bowls only, each	13.00

We have made a number of improvements in our boat closets, such as, a new bowl which eliminates loose pipe connections where supply pipe is connected to it, fewer bends in pipe, a longer stroke pump, improved supply valve, improved and positive discharge, fewer parts to replace, easier and effortless operation. We, of course, retained the large cleanout plug which has always been a popular feature.

Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED
WHITE AND OLD IVORY



Fig. 402

With flat rim and nickel plated combination sink drain and stopper in one unit, 1¼ inch tail piece.

Each	Size Inside Inches	Size Outside Inches	Depth Inches	Weight Pounds
\$4.80	10½x16	12¾x18	4¾	5

Specify color when ordering, otherwise white is shipped.

The Yachtsman

WITH SELF CLOSING FOOT VALVE

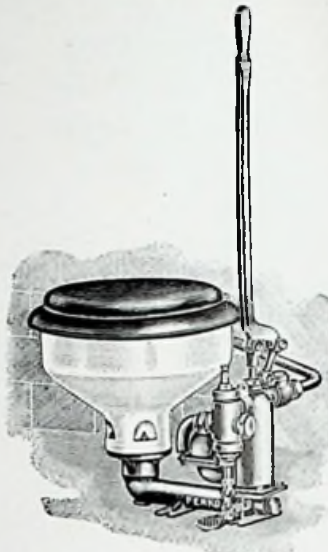


Fig. 829

Sizes overall—side to side, 17½ inches; back to front 17½ inches; height to cover, 14¼ inches; net weight 41 pounds; inlet, ¾ inch I. P. S.; outlet, 1½ inch I. P.

PRICE EACH COMPLETE	\$44
With White Seat and Cover	47
Mahogany Finish Seat and Cover Only	4

Galley Sinks

CAST IRON—PORCELAIN ENAMELED INSIDE

With flat rim and 1 inch flange, complete with chromium plated brass plug type strainer and rubber stopper. Connections for 1½ inch lead pipe, 2 inch outlet in sink.



Fig. 833

No.	Width Overall Inches	Length Overall Inches	Depth Inside Inches	P	E	S
1	12	12	6			
2	12	18	6			
3	14	20	6			
4	16	24	6			

Corner Lavatory WHITE VITREOUS CHINA

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.

With chromium plated low spout pump, Fig. 479



Fig. 830

No.	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches	Complete with Pump Each	Complete Except Pump Each
1	12x12	10	2½	\$29.75	\$18.25
2	14x14	11	2½	31.25	19.75

Furnished with chromium plated compression faucet if desired, add \$3.50 to price of lavatory without pump.

Flat Back Lavatory

With Chromium Plated low spout compression faucet.



Fig. 831

No.	Size Inches	Diam. of Basin Inches	Height Back Inches	Complete with Faucet Each	Complete Except Faucet Each
3	12x12	10	2½	\$19.50	\$16.00

Folding Lavatories

VITREOUS ENAMELED ENTIRELY
CHROMIUM PLATED PUMP AND FITTINGS

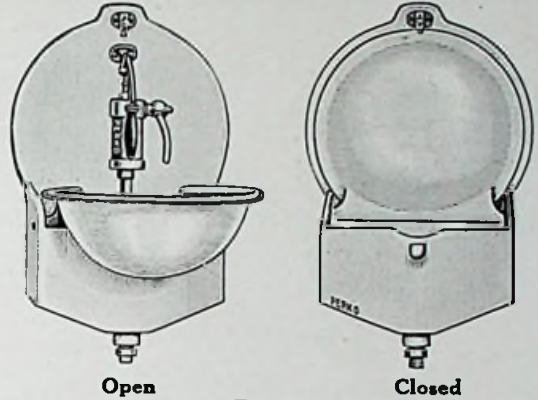


Fig. 732

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

Complete assembly weighs 42 pounds.

Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches	Depth Basin Inches
\$33.00	20	13¾	14	10	4½

Folding Wash Basin

PORTABLE

WITH ENAMELLED BASIN

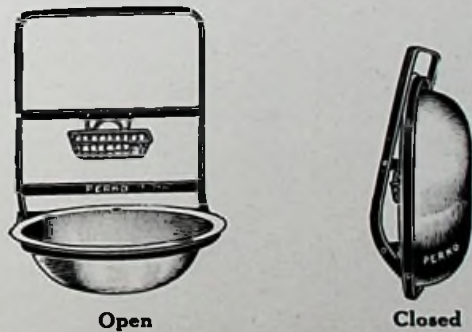


Fig. 459

Owners of boats large and small will appreciate how useful a basin of this sort can be at various times especially when plenty of visitors are aboard. Its low price will enable one to have a few on the boat stowed away for emergencies, basin is removable from rack, complete with wire soap holder.

Complete Each	Diameter Basin Inches	Height Back Inches	Width Back Inches	Depth Open Inches	Depth Closed Inches
\$2.90	11¾	12	11	12	4½

For detailed information on various types of basin and galley pumps see page 72-73.

Outlet Connections CAST BRONZE

Used as outlet fittings for engines, pumps, lavatories, water closets, etc. Threaded to fit standard pipe. Complete with large flange lock nut.



Fig. 322

Size Pipe Inches	Price Each	Length under Flange Inches	Weight Each
1/4	.65	1 1/2	1 oz.
3/8	.75	2 1/2	3 oz.
1/2	.90	2 3/4	4 oz.
3/4	1.00	2 1/2	8
1	1.25	2 1/2	12
1 1/4	1.75	3	1 1/2 lbs.
1 1/2	2.50	3 3/4	2 1/2
2	3.00	3 1/2	2 1/2
2 1/2	5.00	3 1/2	3 1/4

Inlet Connections CAST BRONZE

A good, dependable connection, easy to install. Fits flush with outside of hull. Complete with large flange lock nut and hose coupling.



Fig. 64

Size Pipe Inches	Without Strainer Each	With Strainer Each	For Plank-ing Inches	Weight
3/8	\$1.15	\$1.50	7/8	2 oz.
1/2	1.25	1.75	1 1/8	4 oz.
3/4	1.40	1.90	1 1/4	7 oz.
1	1.65	2.15	1 1/2	10
1 1/4	2.00	2.75	1 3/4	1 lb.
1 1/2	2.75	3.75	1 3/4	2
1 3/4	3.75	5.50	2 1/4	2 1/2
2	5.00	7.00	2 1/2	3 1/4

Water Outlet CAST BRONZE

For use on boats with water outlet on side of hull. Large flange protects hull from stain. Hood prevents spray entering boat. Standard pipe thread will fit standard lead pipe connections.



Fig. 332

No.	Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight
1	3/4	2 1/4	2 1/4	12 oz.
2	1	3	3 1/4	1 lb.

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$2.00	\$2.50	\$2.75
2	2.50	3.00	3.25

Speedboat Strainers CAST BRONZE ONE PIECE

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

Entire strainer including threaded neck is one solid casting.



Fig. 65

Size Pipe Inches	Price Each	Length Pipe Inches	Size Strainer Inches	Weight Each
1/2	\$1.25	2 1/4	2 1/2 x 3 1/2	11 oz.
3/4	1.50	2 3/4	3 x 4	14 oz.
1	2.00	3	3 x 4	1 1/4 lbs.
1 1/4	2.50	3 3/4	3 3/4 x 4 1/2	1 1/2 lbs.
1 1/2	3.00	3 3/4	4 x 6 1/4	2 1/2 lbs.

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 3/4 inch. No. 3 will fit up to 1 inch.



Fig. 66

No.	Price Each	Outside Dimensions Inches	Weight Each
1	\$.30	3 1/2 x 2 1/2	4 oz.
2	.50	5 x 3 1/4	7 oz.
3	.90	6 1/4 x 4 1/4	1 lb.

Round Strainers PLAIN CAST BRONZE



Fig. 86

Diam. Inches	Price Each	Depth Inches	Weight Each
2 1/2	\$.25	1/2	2 oz.
3	.30	3/4	4 oz.
3 1/2	.40	3/4	5 oz.
4	.40	3/4	6 oz.
5	.75	1	12 oz.
6	1.00	1 1/4	1 lb.
8	2.00	1 3/4	2 lb.
10	4.00	1 3/4	3 lb.

Bronze Sea Cocks

CAST BRONZE HANDLE—DRAIN PLUGS



Fig. 835



Fig. 834

Iron Pipe Size Inches	Weight Each Pounds	With Hull Connection Each	Without Hull Connection Each	With Strain Add Each
3/4	3	\$4.40	\$3.75	\$.25
1	4 1/2	5.50	4.40	.25
1 1/2	9 1/2	9.75	8.50	.55
2	12	14.25	12.50	.75

Angle Sea Cocks CAST BRONZE

WITHOUT THROUGH HULL CONNECTIONS

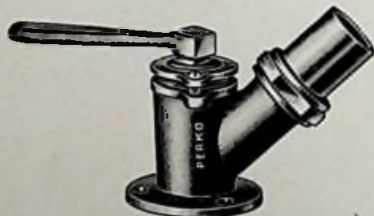


Fig. 836

Heavy cast bronze handle.

Tail piece lead pipe or hose connection — 1 inch for inlet, 1 inch for outlet.

Iron Pipe Size Inches	Weight Each Pounds	Without Strainer Each	With Strain Each
3/4	2	\$3.00	\$3.50
1 1/2	4	5.50	6.00

"Perko" Alcohol Burner

CAST BRONZE—NICKEL FINISH

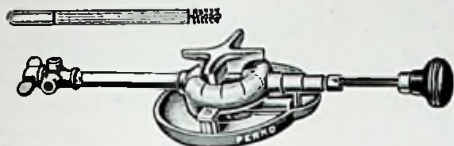


Fig. 979

The burner that is used in Perko Alcohol Stoves, which have proven very successful and are used on hundreds of boats throughout the country.

This burner furnishes intense cooking heat and is practically noiseless in operation, safe and dependable. A good grade of denatured alcohol should always be used.

The slotted burner is more desirable than other types as the flame covers a larger area.

Complete with wire brush filter and fittings for installing \$6.00
 Wire brush filters only, each80
 Needle Valves with handle only 1.30

Fuel Tank for Alcohol Stoves

COPPER—1 GALLON CAPACITY



Fig. 980

Made of heavy weight sheet copper, highly polished. Fittings include shutoff valve, 5 feet of copper tubing and tubing connections.

Complete With Fittings Each	Tank Only No Fittings Each	Diameter Inches	Length Inches
\$5.00	\$4.00	5 1/2	11 1/4

Adjustable Pot Holders

CAST BRONZE—POLISHED
 FOR ALL "PERKO" STOVES

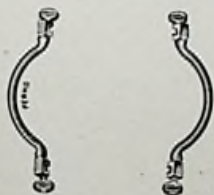


Fig. 507

A pair of these around the pot or pan on the stove will prevent a very annoying and sometimes disastrous detriment to full boating enjoyment. Adjustable to fit whatever size utensil the stove will hold.

Per pair \$2.50

Liverpool Heads

Of heavy gauge metal, all parts riveted, top and bottom double seamed. Fits over standard stove pipe.



Fig. 347

Size Inches	Galv. Each	Brass Each
3	\$ 5.50	\$ 7.00
3 1/2	5.75	7.25
4	6.00	7.50
4 1/2	6.60	8.60
5	7.20	9.30
5 1/2	8.60	10.20
6	8.90	12.00
7	10.00	15.00
8	15.00	18.00
10	18.00	25.00

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	\$1.10	2 3/4	6 3/4	1 7/8
3	1.60	3 1/8	7 1/2	3 1/2
3 1/2	1.80	3 1/4	8 3/8	4
4	2.10	4 3/8	9 1/4	5 3/8
4 1/2	2.30	4 1/2	10	6 1/2
5	2.50	5 3/8	10 1/2	7
5 1/2	3.00	5 1/2	11	9
6	3.40	6 1/8	11 1/4	9 3/8
7	3.90	7 3/8	13	11
8	5.75	8 1/4	14 5/8	16 1/4

Tail Pieces

CAST BRONZE—FOR SEACOCKS

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



Fig. 67
 Straight Tail Piece



Fig. 78
 90 Degree Tail Piece

Pipe Size Inches	Price Each Fig. 67	Price Each Fig. 78	Weight Each
3/4	\$.60	\$.60	5 oz.
1	.75	.75	6 oz.
1 1/4	1.25		8 oz.
1 1/2	1.25	1.25	1 lb.
2	1.75	1.75	1 1/2 lbs.



“Perko” Alcohol Stoves

GRAVITY TYPE—IMPROVED

FURNISHED COMPLETE WITH 1 GALLON COPPER TANK, 5 FEET COPPER TUBING AND ALL FITTINGS FOR IMMEDIATE INSTALLATION AND USE.

ALSO FURNISHED, IF DESIRED, WITH CAST BRONZE POT HOLDERS AS ILLUSTRATED (PAT. PENDING), ADJUSTABLE FOR ANY SIZE POT.

Constructed of heavy gauge sheet steel, double seamed and riveted at all joints, heavy wire bead around all edges.

This stove uses high grade denatured alcohol which is a safe, dependable fuel and can be obtained anywhere at small cost.

The improved burners give a clear blue flame not disturbed by vibration or rough seas, and will burn for about 10 hours on one gallon of alcohol. A sliding tray is furnished which is firmly held in place, yet easily removed.

Standard finish is a baked neutral gray enamel, alcohol resisting, which will harmonize with the finish of most galleys.

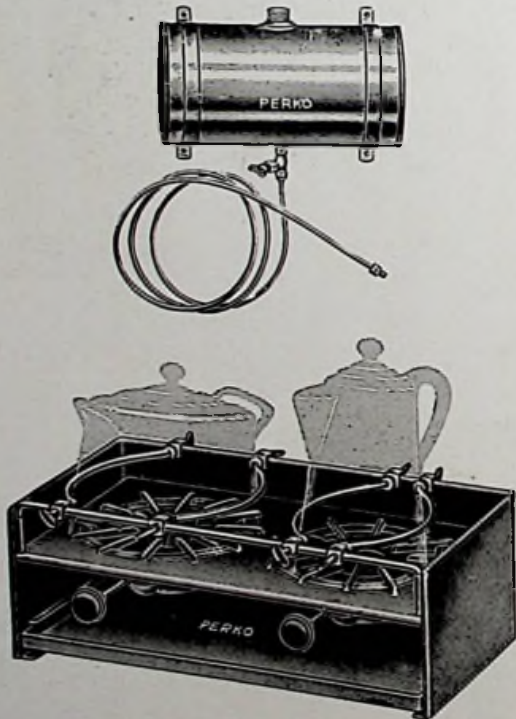


Fig. 714

Extreme Length Inches	Extreme Height Inches	*Extreme Width Inches	Wt. Complete With Tank Pounds
20	7	12 1/4	24

Complete with fuel tank, tubing and fittings \$18.00
 Stove only, without tank, tubing or fittings 16.00
 Pot Holders—per pair—for one Burner 2.50
 * Width shown is extreme of body, not including valve handle.

“Perko” Gravity Alcohol Stove

THREE BURNER

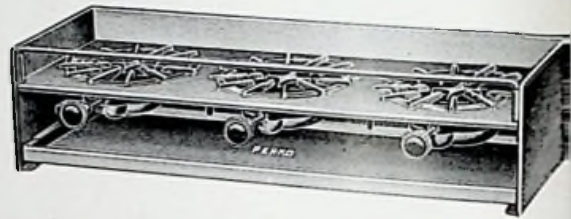


Fig. 990

Extreme Length Inches	Extreme Height Inches	Extreme Width Inches	Capacity of Tank Gallons
31	7	11 1/2	1

Complete with copper fuel tank, tubing and fittings \$27.00
 Stove only, without tank, tubing or fittings 25.00

Width shown is extreme of body not including valve handle.

“Perko” Alcohol Water Heater

PRESSED STEEL JACKET

GRAY VITREOUS ENAMEL FINISH



Fig. 557

Heavily constructed for marine use. A pressed steel jacket fitted with substantial double copper coils and baffle plate which distributes the heat directly on the coils.

Equipped with Perko alcohol burner.

Suitable for use with gallon tank.

Overall Height Inches	Diam. Inches	Pipe Connection Incht
25	8	3/4

Price Complete with Copper Alcohol Tank and Fittings \$19



“PERKO” IMPROVED PRESSURE ALCOHOL STOVES

ONE, TWO AND THREE BURNER TYPES, WITH PRESSURE GAUGE

Our new 1937 pressure stoves have been vastly improved and we now firmly believe them to be the finest and most dependable alcohol stoves obtainable today.

FUEL TANKS are of heavier gauge lead coated sheet steel with two interior baffle and reinforcing plates, bulge proof.

AIR PRESSURE GAUGE is installed in the tank. It is very accurate, easy to read and shows the maximum operating pressure to use for best results.

FILLER PLUG, improved, guaranteed non leakable.

NEEDLE VALVES, improved for finer flame adjustment. Bakelite ferrules on valve stem to prevent burnt fingers.

CONNECTIONS from tank to burners are of the flared type, non leakable.

BURNERS are cast bronze, carefully made. Grates are cast iron hot galvanized.

FINISH, a new improved finish of neutral gray alcohol resisting enamel.

FUEL CONSUMPTION, one gallon of alcohol with one pound of air pressure operates two burners at the same time for twelve hours continuous burning.

FUEL, a good grade of “burning alcohol” should always be used, easily obtainable.

TRAY is removable and as it's placed between the burners and the tank it protects tank from heat.

HEAT, with ordinary operating flame, a quart of water is brought to boiling point in three minutes.

One Burner

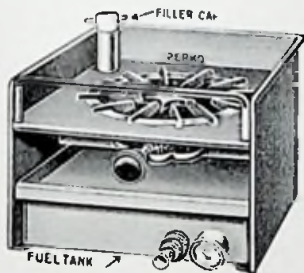


Fig. 1013

Each Complete	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches	Capacity of Tank Gallons
\$18.00	11 3/4	12 1/4	8 1/2	3/4

Two Burner

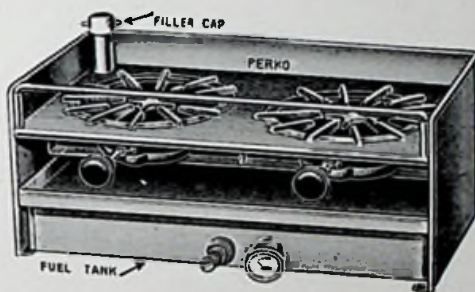


Fig. 1014

Each Complete	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches	Capacity of Tank Gallons
\$25.00	20	12 1/4	8 1/2	1 1/2

Three Burner

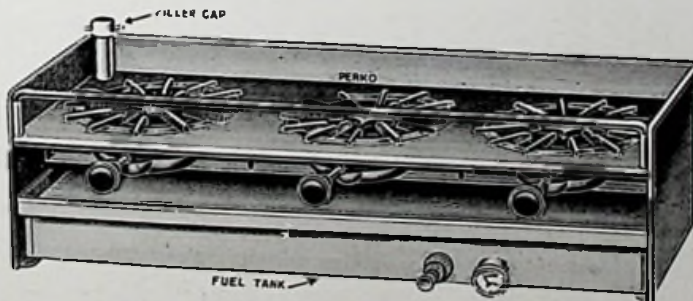


Fig. 1015

Each Complete	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches	Capacity of Tank Gallons
\$34.00	31	12 1/4	8 1/2	2

* Width shown is extreme of body, not including valve handle.

To obtain perfect and life long satisfaction from “Perko” Alcohol Stoves keep burners clean inside and outside. Periodically remove thumb nut on back of burner, pull out wire brush filter, clean and replace. Be sure when replacing filter it is not pushed in all the way, just enough to allow thumb nut to be screwed on tight.

THE "TRADE WIND" HOT AIR CABIN HEATER
CAST IRON PLATE—CAST ALUMINUM BODY
6-12-32 AND 110 VOLTS

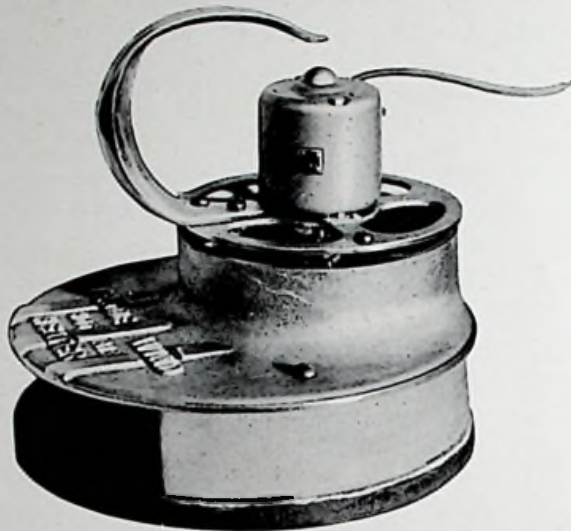


Fig. 595

Now you can use your galley stove to heat your boat.

Works equally well on gas, alcohol, kerosene, coal or any other type of stove.

The TRADE WIND Hot Air Heater takes the heat from the stove and distributes it all corners of the cabin. This blast of hot air will heat the average cabin in a few minutes and maintain a comfortable temperature as long as required.

Just place the heater on the stove over the burner, connect electric fan wires to battery light the stove and in a few minutes the cabin will be as comfortable as you want it.

Temperature of air can be regulated by height of flame on stove.

This heater consists of a heating chamber, small electric fan, switch for fan and handle for carrying.

HEATS INSTANTLY—ECONOMICAL TO OPERATE

Ampere draw from battery is very slight.

Volts	Each	Amperes	Diameter Inches	Height Inches	Weight Pounds
6	\$16.75	1.5	8½	7	9½
12	16.75	.75	8½	7¼	9¾
32	16.75	.28	8½	7¾	10¼
110	18.50	.08	8½	8	11

The 110 volt heater furnished for A. C. and D. C. current.
 Specify voltage when ordering.

FRESH WATER COOLERS FOR MARINE ENGINES

COPPER WITH CAST BRONZE FITTINGS

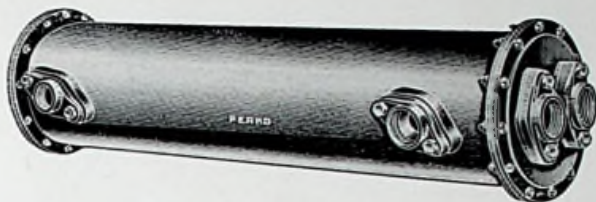


Fig. 1097

With the elimination of CORROSION, RUSTING, ELECTROLYSIS, and the clogging of water passages and jackets, THE MAJOR CAUSES of MARINE ENGINE DETERIORATION ARE REMOVED and a fresh water cooled engine can be made to last indefinitely.

FRESH WATER COOLING eliminates rust, corrosion and electrolysis caused by salt water in the jackets of the engine and exhaust manifold.

FRESH WATER COOLERS—In the construction of our fresh water coolers, large straight copper tubes are run between headers and ample clearance is maintained between tubes to allow for passage of foreign matter without clogging. Strainers are not required except under most unusual conditions.

Salt or cooling water passes through the tubes, jacket or fresh water around the tubes.

Tubes and case are of pure copper. Headers and end plates of copper and bronze. All surfaces in contact with salt water are tinned, including the inside of the tubes. This construction lessens the danger of electrolysis. In the No. 2 and 3 coolers the tubes are finned to increase the heat transfer.

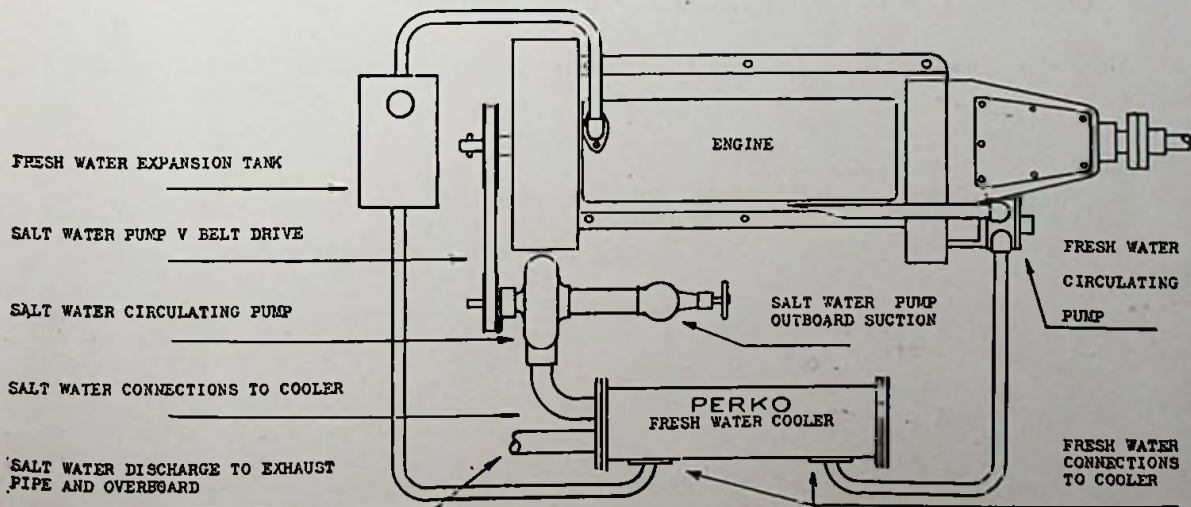
The size unit required depends primarily upon the amount of water circulated by the engine pump. The rating of these units shown below are figured conservatively. A regular printed form of questionnaire will be mailed upon request and when we have all necessary data on your engine, boat, connections, etc., we can recommend the proper size unit.

FRESH WATER EXPANSION TANK—Must be used in all fresh water cooling installation.

Our tank is made of heavy sheet copper and fitted with suitable connections for filling, outlet and vent.

PUMPS—For average installation we recommend bronze gear pumps shown on page —.

No.	Cooler Only Each	Expansion Tank Only Each	For Size Engine	Dimensions Cooler Inches	Dimensions Expansion Tank Inches	Capacity Expansion Tank Gallons	Pipe Connections	
							Fresh Water Inches	Salt Water Inches
1	\$29.50	\$10.00	up to 35 H.P.	9x6 1/4	14x7	2 1/4	1/2	3/4
2	60.00	10.00	up to 80 H.P.	26x7	14x7	2 1/4	3/4	1
3	on application		up to 150 H.P.	on application				



"Perko" Marine Exhaust Fans

ELECTRIC 6—12—32—OR 110 VOLTS

HEAVY CAST ALUMINUM CASING AND FLANGE

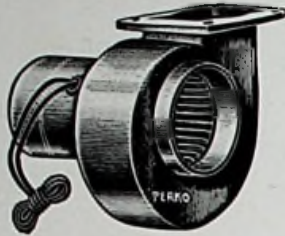


Fig. 778

For removing dangerous gasoline fumes from the bilge and engine room, exhausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and bilges.

An absolute necessity to the motor boat because their use decreases the hazard of fires and explosions from gasoline fumes.

Exhaust fan consists of heavy duty fully enclosed spark proof motor driving a sirocco type exhaust fan.

No.	Size Intake	Size Outlet	Dimensions Overall	Capacity Cubic Feet Per Minute	Size Flange	
	Inches	Inches			Inches	Inches
1	3	2 1/4	7 1/2 x 6 x 6	90	3 1/2 x 3 1/2	
2	4	4	8 1/2 x 8 x 8	186	4 1/2 x 4 1/2	

Volts	No. of Fans		Amperes		Watts	
	No. 1 Each	No. 2 Each	No. 1	No. 2	No. 1	No. 2
6	\$10.50	\$26.00	3.25	7.	19.6	42.0
12	10.50	26.00	1.70	4.	20.8	48.0
32	10.50	26.00	.75	1.5	20.0	49.0
110	13.00	29.00	.25	.45	27.0	50.0

The 110 volt fan has a universal motor, for AC and DC current.

A caution plate is furnished with every fan.

Electric Fans

MARINE TYPE—6-12-32-110 VOLTS

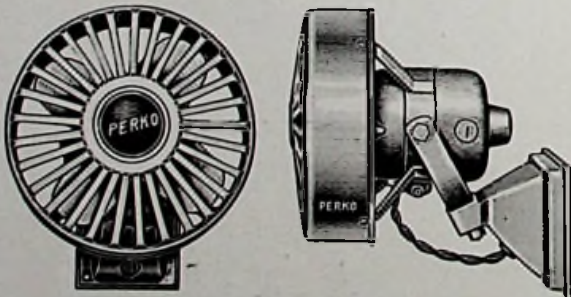


Fig. 648

An ideal fan for small cabins. The motor is of sturdy semi-enclosed construction with bronze bearings. The fan is adjustable to any suitable angle, and has a cast aluminum safety guard around the blades.

The air delivery is approximately 300 cubic feet per minute at a velocity of 400 feet per minute.

The power consumption is approximately 25 watts. Standard finish is gray lacquer.

Each	Height Overall	Diam. Guard	Diam. Blades	Size Base	Weight
\$13.00	Inches	Inches	Inches	Inches	Pounds
	8	7	6	2 3/4 x 2 3/4	6

"Perko" Exhaust Fan and Ventilators

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

Round Mouth

Oval Mouth

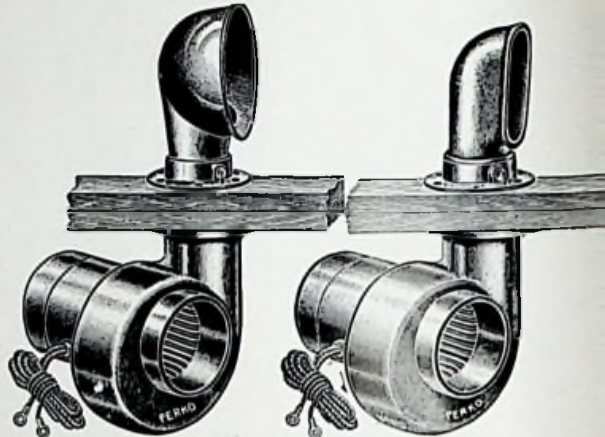


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 3 inch bottom opening, 5 inch mouth, 7 inches high overall.

Fig. 781 has a cast bronze ventilator 2 inch bottom opening, 2 1/4 x 4 1/2 inch mouth, 6 1/2 inches high overall.

Both ventilators have cast bronze swivel deck plate.

Price complete—either style \$17.00

Don't forget to mention the voltage.

For information on Exhaust Fan see Fig. 778.

Turbine Ventilator

GALVANIZED IRON AND COPPER



Fig. 744

For removing gasoline fumes from engine room and bilge, cooking odors from the galley, ventilation of 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	Galv. Iron Each	Copper Each
Inches	\$ 8.50	\$13.00
4	8.50	13.00
5	8.50	13.00
6	8.50	14.00
7	8.50	15.00
8	10.00	



Streamline Ventilator

FOR CRUISERS
CAST BRONZE

Side View

Front View



Fig. 633



Designed for mounting against side of deck house or cabin. Takes up very little space. Practical and pleasing to the eye. Will fit over pipe up to 2 inches.

Size of Mouth Inches	Extreme Height Inches	Extreme Length Inches	Extreme Width Inches	Weight Each Pounds
4 x 1 3/8	5 3/4	6 3/4	2 3/8	1 5/8
Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair		
\$7.00	\$8.00	\$9.00		

A pair consists of one right hand and one left hand.

Clam Shell Ventilators

CAST BRONZE
IMPROVED

Now made in two sizes, with base improved in appearance.



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Oz.
4	2 3/4	1 1/4	3 5/8 x 3 1/2	11
5	3 1/2	2	4 x 3 3/8	14
No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
4	\$1.40	\$1.70	\$2.00	
5	1.50	1.80	2.10	

Streamline Ventilator

CAST BRONZE
CLAM SHELL TYPE

A new design of runabout ventilator that will match other streamline fittings on the deck. Made in three sizes, small size can be used as shield for water outlet in hulls of cruisers.



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Oz.
1	1 1/2	1	2 1/4 x 3	4
2	1 3/4	1	2 5/8 x 3 3/8	6
3	2 1/8	1 5/8	3 3/8 x 4 1/4	12
No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
1	\$1.20	\$1.40	\$1.70	
2	1.30	1.50	1.80	
3	1.40	1.70	2.00	

Space Saver Ventilator

CAST BRONZE

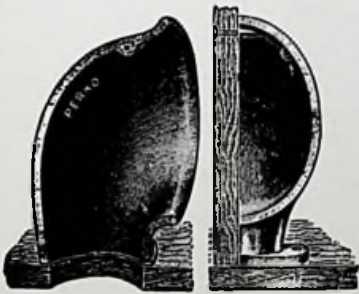


Fig. 782

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.

Inside Diameter at Base Inches	Inside Measurements at Mouth Inches	Extreme Height Inches	Plating	Price Per Pair
2 1/2	1 1/2 x 6	7 1/2	Polished Bronze	\$4.50
			Nickel Plated	\$6.00
			Chromium Plated	\$7.00

Streamline Ventilator

CAST BRONZE
FOR RUNABOUTS

Cast in one piece, painted green on inside, made in two sizes.



Fig. 476

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Lbs.
6	3 1/2	2 1/4	5 x 6	1
7	4 3/8	3 1/4	6 x 7	2
No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
6	\$2.50	\$2.75	\$3.10	
7	3.25	3.50	4.00	

Seamed Hood Ventilator
WITH BRONZE SCREW DECK PLATE

Constructed of heavy sheet iron or brass. Iron ventilators are completely formed and then hot galvanized.



Fig. 151

Deck Plate Opening Inches	Opening of Mouth Inches	Height Inches
2	4	5
2½	5	6
3	6	7
3½	7	10
4	8	11
4½	9	12
5	10	14
6	12	15
8	16	21
10	20	25
12	24	30

Deck Plate Opening Inches	Galv. Iron Each	Polished Brass Each
2	\$ 5.50	\$ 7.00
2½	5.60	7.25
3	5.80	7.50
3½	6.50	8.50
4	7.70	9.00
4½	10.00	12.00

Deck Plate Opening Inches	Galv. Iron Each	Polished Brass Each
5	\$12.00	\$14.00
6	16.50	19.00
8	25.00	28.50
12	60.00	69.00

Riveted Hood Ventilator
WITH BRONZE SCREW DECK PLATE

Constructed of heavy gauge sheet iron, hot galvanized or brass. Riveted at the joints. Brass rim around mouth on galvanized vents, 4½ inch and smaller.



Fig. 369

Deck Plate Opening Inches	Diam. Mouth Inches	Height Overall Inches
3	6	8
3½	7	9
4	8	11
4½	9	12
5	10	13
6	12	15
8	16	20
10	20	25
12	24	30

Deck Plate Opening Inches	Galv. Iron Each	Polished Brass Each
3	\$ 9.00	\$11.00
3½	10.50	12.50
4	12.00	14.00
4½	14.00	16.00

Deck Plate Opening Inches	Galv. Iron Each	Polished Brass Each
5	\$17.50	\$20.00
6	22.00	25.00
8	33.00	38.00
12	70.00	79.00

Seamed Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Heavy sheet iron or brass. Iron vents are hot galvanized after forming. Furnished with spun brass cover for deck plate when vent is removed, at small additional charge.



Fig. 575

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches
3	6	7½
4	8	10
5	10	12½
6	12	15
8	16	20
9	18	22½
10	20	25
12	24	30

Deck Plate Size Inches	Galv. Iron Each	Polished Brass Each
3	\$ 7.00	\$ 8.65
4	9.95	11.25
5	13.25	15.25
6	18.25	20.75

Deck Plate Size Inches	Galv. Iron Each	Polished Brass Each
8	\$24.00	\$27.50
9	30.00	38.00
10	43.00	51.00
12	58.00	67.00

Riveted Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Made of heavy gauge sheet iron, hot galvanized or brass. All joints riveted. Brass rim around mouth on galvanized vents, 4½ inch and smaller. Brass cover for deck plate at small additional charge.



Fig. 368

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches
3	6	8
4	8	11
5	10	13
6	12	15
8	16	20
9	18	23
10	20	25
12	24	30

Deck Plate Size Inches	Galv. Iron Each	Polished Brass Each
3	\$10.20	\$12.20
4	14.25	16.25
5	18.75	21.25
6	23.75	26.75

Deck Plate Size Inches	Galv. Iron Each	Polished Brass Each
8	\$32.00	\$37.00
9	38.00	46.00
10	51.00	59.00
12	68.00	77.00

THE SIZES SHOWN ON THE ABOVE VENTILATORS ARE STANDARD. SPECIAL DIAMETERS AND LENGTHS CAN BE FURNISHED, MADE TO ORDER. SPECIAL PLATED OR PAINTED FINISHES AT SMALL ADDITIONAL CHARGE.

Above items desired NICKEL PLATED, add 20% to Polished Brass Price
Above items desired CHROMIUM PLATED, add 40% to Polished Brass Price

Spun Ventilators

Spun from heavy gauge sheet brass or copper. Complete with cast bronze screw deck plate, cover and key.



Fig. 152

Deck Plate Size Inches	Polished Brass Each	Polished Copper Each	Diameter Mouth Inches	Height Overall Inches
2	\$6.00	\$7.00	4	6
2½	6.50	7.50	5	7
3	6.75	7.75	6	8
3½	7.50	8.50	7	9
4	8.00	9.00	8	10½
5	15.00	17.00	10	14

Nickel Plated, add 20% to above prices.
Chromium Plated, add 40% to above prices.

Cast Bronze Hood Ventilator

WITH SCREW DECK PLATE



Fig. 421

A ventilator that will last longer than the boat. Highly polished on outside, painted green on inside. With cover and key for screw deck plate.

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches	Net Weight Lbs.
3	6	7¾	4½
4	8	9¾	8½

Size Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3	\$12.00	\$14.00	\$16.00
4	15.00	17.00	20.00

Hammered Copper Ventilators

WITH SCREW OR SWIVEL DECK PLATE

Heavy gauge sheet copper, hammered to shape by hand, hammer marks remaining in surface. With cover and key for screw deck plate.

Screw Deck Plate

Swivel Deck Plate



Fig. 367



Fig. 560

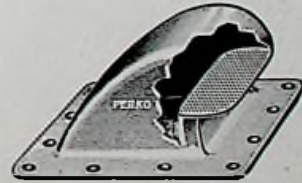
Size Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches
3	\$17.50	\$20.50	6	8
4	23.50	27.50	8	11
5	39.00	43.00	10	13
6	44.00	48.00	12	15
8	68.00	70.00	16	20

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.

Cast Bronze Ventilator

ROUND MOUTH—SCREW DECK PLATE

Diam. bottom opening, 3 inches
Diameter mouth, 6 inches
Height overall, 8½ inches
Diameter deck flange, 4¾ in.
Weight, 5 pounds



Fig. 199

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Height Overall Inches	Weight Pounds
\$9.75	\$11.75	\$13.75	7x7	3½	4¾
\$7.00	\$7.50	\$8.00			

Oval Mouth Ventilators

CAST BRONZE

Of high grade castings, finely finished, green enameled interior.

The screw type is furnished complete with watertight cover and key for use when vent is removed.

The swivel type is adjustable and can be fastened in any position by three thumb screws. A brass friction cover is also furnished for use when vent is removed.

SCREW TYPE



Fig. 509

Plate Opening Inches	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$12.00	\$14.00	\$16.00	8 1/8	6 1/4 x 4
4	15.00	17.00	19.00	8 3/8	6 1/2 x 4 3/4

SWIVEL TYPE



Fig. 515

Diam. Throat Inches	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	Height Above Deck Inches	Size Mouth Inches
3	\$13.00	\$15.00	\$17.00	9 1/8	6 1/4 x 4
4	16.00	18.00	20.00	9 3/8	6 1/2 x 4 3/4

Ice Box Ventilators

CAST BRONZE—POLISHED

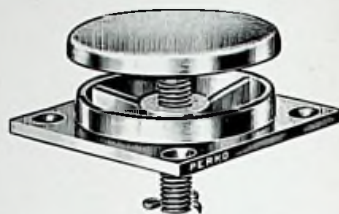


Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$1.00	\$2.00	1 5/8	2 1/2 x -
2	1.75	2.75	2 1/2	3 1/4 x -
3	2.75	3.75	3	4 1/8 x -
4	3.50	4.75	3 3/8	4 7/8 x -

Engine Compartment Outlet Ventilator



Fig. 329

For use on hulls of runabouts or cruisers. Made cast bronze, highly polished, interior painted in green enamel.

Diameter Opening Inches	Diameter Flange Inches	Weight Ounces
2 1/8	4	19
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.75	\$2.00	\$2.50

Exhaust Fan Ventilator

WITH SWIVEL DECK PLATE—CAST BRONZE

Can be turned in any direction, made in two heights, furnished with cover for deck plate when vent is removed. Side of deck flange can be cut away for installing against side of deck house.



Fig. 634

No.	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches
1	2	6 1/8	2 1/4 x 4 1/2
2	2	8	2 1/4 x 4 1/2

Polished Bronze Each \$8.00

Nickel Plated Each \$8.75

Chromium Plated Each \$9.50

Swivel Ventilator

ROUND MOUTH—CAST BRONZE

Made of heavy cast bronze, swivel deck plate, thumb screw for fastening in position. Cast cover to take place of vent when removed. Set screw to prevent loosening of thumb screw. Vent painted green on inside.



Fig. 198

Diam. bottom opening, 3 1/4 inches
Diameter mouth, 5 3/8 inches
Height overall, 9 inches
Diameter base, 6 1/4 inches
Weight each, 11 pounds

PRICE EACH
Polished \$13.50
Nickel Plated 15.50
Chromium Plated 17.50

Regular Deck Plates



Fig. 526

CAST BRONZE

Complete with key.

Diam. Opening Inches	Polished Finish Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	Diameter Plate Inches
1	\$.80	\$ 1.30	\$.40	\$.10	2 1/2
1 1/2	.90	1.40	.45	.15	3 1/8
2	1.25	1.80	.65	.20	3 3/8
2 1/2	1.75	2.35	.90	.20	4 1/2
3	2.25	2.90	1.15	.25	4 7/8
3 1/2	2.60	3.30	1.30	.30	5 1/2
4	2.75	3.50	1.40	.35	5 3/4
4 1/2	4.00	4.80	2.00	.40	6 3/8
5	4.25	5.25	2.15	.50	7 1/8
6	5.50	6.75	2.75	.75	8 1/4
8	10.50	12.50	5.25	1.00	10 1/4

Pipe Deck Plates



Fig. 528

CAST BRONZE

Standard iron pipe size thread. Complete with key.

Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes up to 2 1/2 inch inclusive.

Diam. Opening Inches	Polished Finish Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	O. D. Plate Inches
3/4	\$ 1.00	\$ 1.50	\$.50	\$.10	2 5/8
1	1.25	1.80	.65	.10	2 7/8
1 1/4	1.50	2.10	.75	.15	3 1/8
1 1/2	1.75	2.40	.90	.15	3 3/4
2	2.00	2.70	1.00	.20	4 1/4
2 1/2	2.50	3.25	1.25	.20	4 5/8
3	3.75	4.75	1.90	.25	5 3/8
3 1/2	6.50	7.75	3.50	.35	6
4	9.00	10.25	4.50	.35	6 3/4
5	11.00	13.00	6.00	.50	8
6	14.00	17.00	8.00	.80	9

Ventilator Deck Plates



Fig. 527

POLISHED

CAST BRONZE

Complete with key and extra ring for hood ventilator.

Diameter Opening Inches	Polished Each	Chromium Plated Each	Diameter Plate Inches	Weight Each
2	\$ 2.00	\$ 2.80	3 3/8	12 oz.
2 1/2	2.50	3.35	4 1/2	1 lb.
3	3.10	3.75	4 7/8	1 1/4 lbs.
3 1/2	3.60	4.30	5 1/2	1 3/4 lbs.
4	4.00	4.75	5 3/4	2 1/4 lbs.
4 1/2	5.50	6.30	6 3/8	3 1/4 lbs.
5	6.00	7.25	7 1/8	3 3/4 lbs.
6	7.50	8.90	8 1/4	4 1/2 lbs.
8	15.00	17.50	10 1/4	7 1/2 lbs.

Swivel Rings

FOR VENTILATORS—CAST BRONZE

When used with hood ventilator, allows it to be turned in any position desired. Complete with thumb screws for fastening.



Fig. 419

For Size Ventilator Base Inches	Opening in Base Inches	Price Each	For Size Ventilator Base Inches	Opening in Base Inches	Price Each
3	2 3/8	\$ 4.00	8	7	\$12.00
4	3 1/2	6.00	9	8 1/8	14.00
5	4	7.50	10	9 1/8	20.00
6	5	9.00	11	10 1/8	22.00
7	6	10.00	12	11 1/8	24.00

Price does not include cap, if cap is desired add 10% to above prices.

Chromium plated swivel rings, add 40% to above.

Manhole Plates

WATERTIGHT

GALVANIZED IRON AND CAST BRONZE

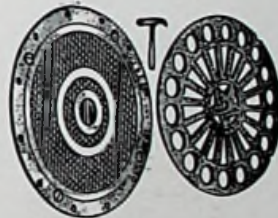


Fig. 662

Furnished complete with locking screws, key and rubber packing ring. Absolutely watertight.

Size No.	Complete		Without Grating		Diam. Opening Inches
	Galv. Each	Brass Each	Galv. Each	Brass Each	
0	\$11.00		\$10.00		9
1	13.00	\$26.00	11.00	\$20.00	10
2	17.00	30.00	13.00	23.00	12
3	21.00	37.00	16.00	28.00	14
4	26.00	45.00	20.00	34.00	16
5	30.00	58.00	23.00	45.00	18
6	34.00	78.00	26.00	60.00	20

Deck Plate Key

CAST BRONZE

ADJUSTABLE TO ALL SIZES OF DECK PLATES



Fig. 826

Will fit all sizes of deck plates up to 10 inch diameter, making it unnecessary to have separate keys for each plate.

Price each _____ \$1.25



Fog Horns

WITH ADJUSTABLE REED

These horns have a patented slide on the reed which controls the tone. Very easy to adjust or tune.



Fig. 162

PRICE PER DOZEN

Length Overall Inches		Tin	Galv.	Brass
18	Without Bell	\$ 8.40	\$ 9.60	\$15.00
20	With Bell, as illustrated	9.00	10.20	16.20
24	With Bell, as illustrated	10.20	12.00	18.00

Midget Fog Horn

GALVANIZED OR POLISHED BRASS WITH NICKEL PLATED MOUTHPIECE



Fig. 253

It's amazing, the fine deep loud tone this small horn produces. Ideal for storing in a small space. Has slotted hole in large end for hanging on wall.

Length Inches	Galvanized Per dozen	Polished brass Per dozen
15	\$8.76	\$13.20

Police or Signal Whistle

Solid brass, nickel plated, loud, clear tone.



Fig. 349

Price per dozen, \$6.00

Triplex Motor Boat Whistle

WITH METAL MOUTHPIECE

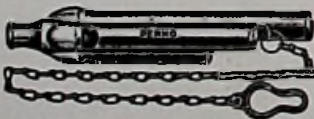


Fig. 168

All solid brass, nickel plated, loud triple tone. Complete with chain.

Length overall, 6 1/2 in. Price per doz. \$11.40

Duplex Motor Boat Whistle

ALL BRASS—NICKEL PLATED

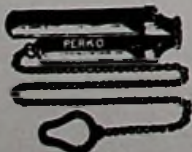


Fig. 167

A whistle is required by law on outboard motor boats. Loud double tone. Brass, nickel plated mouthpiece. Complete with chain.

Length overall, 3 1/2 inches

Price per dozen \$9.00

Air Whistles

ALL CAST BRONZE

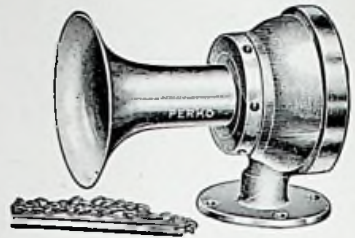


Fig. 825

A very powerful whistle operated by compressed air. Its tone is clear cut and sharply defined, has remarkable echoing and fog penetrating qualities. Contains a diaphragm of non-corrosive metal which vibrates when the air enters into the pipe. Nothing to wear out as the only mobile part is the diaphragm. The number 1 whistle operates on a minimum of 10 lbs. pressure and the number 2 on 20 lbs. pressure. The sound projector polished, and the balance is finished bronze.

A special feature of this whistle is the bronze base mounting, which contains the pipe connection and an inlet in its vertical post, through the under part of the base.

The tone is easily regulated by turning the projector to right or left, a brass key is furnished for the fastening device which holds projector in position.

No.	Price Each	Diameter of Disc Inches	Diameter Base Inches	Length Overall Inches	For Size Pipe Inch
1	\$10.00	3	3	5 3/4	3/4
2	17.50	4	3 1/2	8 3/4	3/4

Whistle Valves

FOR AIR WHISTLES CAST BRONZE—PLAIN



Fig. 463

A very fine fool-proof whistle valve made of cast bronze with stainless steel valve spring.

Guaranteed for air pressure up to 200 lbs.

Pipe Size Inches	Each
3/8	\$3.00

Two Tone Signal Horns

Solid brass. Very loud, double tone. Blown by mouth. Easily taken apart.

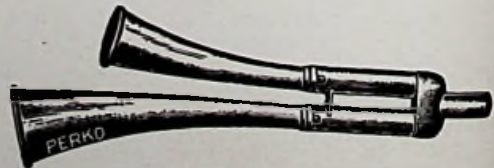


Fig. 165

Length Overall Inches	Polished Brass Per Dozen	Chromium Plated Per Dozen	Nickel Plated Per Dozen
10	\$26.00	\$42.00	\$30.00

ELECTRIC MARINE HORNS

WATERTIGHT—SPLASH PROOF—6, 12 OR 32 VOLTS

These horns are of the highest quality of materials and are especially designed for marine use. A loud, penetrating tone quality superior to any other horn on the market. The "mile-away" and "clear-way" models were developed especially for the U. S. Navy and Coast Guard requirements and are the only American-made horns that pass these requirements. The tone quality of these horns is governed by the remarkable simplicity of construction and the quality of the diaphragm which is of chrome vanadium spring steel.

Clear-Way Horn

All brass, highly polished or chromium plated, furnished complete with push button and cast deck bracket.

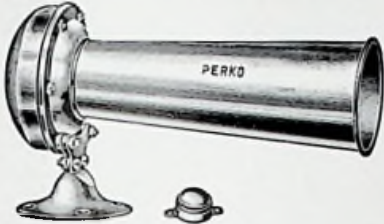


Fig. 73

Length Overall Inches	Height Overall Inches	Diam. Base Inches	Polished Brass Each	Chromium Plated Each
13	7 1/4	3 3/8	\$10.00	\$13.00

For 32 volt equipment add \$3.00.

Mile-Away Horn

All brass, highly polished or chromium plated. Furnished complete, with push button and cast deck bracket.

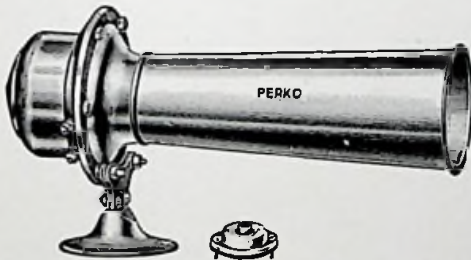


Fig. 75

Length Overall Inches	Height Overall Inches	Diam. Base Inches	Polished Brass Each	Chromium Plated Each
15 3/4	8 1/2	3 3/8	\$22.50	\$25.50

Same type horn to meet coast guard specifications 27.50 28.50

For 32 volt equipment add \$3.00.

"Perko" Full Tone Whistle

Made of solid brass, nickel plated. Blown by mouth or can be attached to compressed air tank or steam pipe by removing mouthpiece. Standard pipe thread, 1/2 inch.

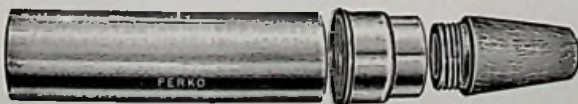


Fig. 164

Pol. Brass Per Dozen	Nickel Plated Per Dozen	Chrom. Plated Per Dozen	Size Inches
\$25.20	\$26.40	\$38.40	1 1/8 x 6 3/4

Junior Siren

ELECTRIC HIGH SPEED MOTOR

All exposed parts made of brass. Other parts cadmium plated. A powerful and distinctive tone that can be heard under worst atmospheric conditions for a distance of over 1,000 yards. Furnished complete with deck bracket, push button and 10 feet of cable.

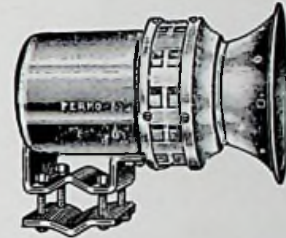


Fig. 192

Length Overall Inches	Height Overall Inches	Diam. Base Inches	Polished Brass Each	Chrom. Plated Each
7 1/2	5 3/4	3 3/8	\$15.00	\$16.00

For 32 volt equipment add \$3.50.

Senior Siren

ELECTRIC HIGH SPEED MOTOR

This type distributes its sound over a radius of more than 1,000 yards. Extremely practical in fog. All exposed parts made of brass. Other parts cadmium plated. Furnished complete with push button and 10 foot cable.



Fig. 193

Height Overall Inches	Diam. Inches	Polished Brass Each	Chromium Plated Each
11 1/2	6 3/8	\$15.00	\$16.00

For 32 volt equipment add \$3.50.

Wrought Brass Fog Bells

STAMPED FROM BELL METAL



Fig. 159

Diameter 6 in. 8 in.
 Hgt. overall 4 in. 5 in.
 Extension 7 3/4 in. 8 3/4 in.
 Weight 1 lb. 2 1/2 lbs.

Diam. Inches	Plain Brass Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
6	\$1.10	\$1.25	\$1.75	\$2.25
8	1.95	2.15	2.65	3.25

Cast Fog Bell

LIGHTWEIGHT



Fig. 581

Cast from bell metal. W removable bracket.

Diameter 6 in. 8
 Hgt. overall 4 1/2 in. 5 1/2
 Extension 6 1/2 in. 8 1/2
 Weight 1 1/2 lbs. 4 1/2 lbs.

Diam. Inches	Polished Each	Nickel Plated Each	Chromium Plated Each
6	\$3.00	\$3.75	\$4.50
8	4.80	5.80	6.80

Cast Fog Bell

MEDIUM WEIGHT—WITH YOKE



Fig. 386

Cast Fog Bell

MEDIUM WEIGHT



Fig. 420

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 3 1/2 lbs. 6 1/2 lbs.

Diam. Inches	Polished Each	Nickel Plated Each	Chromium Plated Each
6	\$5.20	\$6.20	\$7.00
8	8.85	9.85	11.00

Diam. Inches	Polished Each	Nickel Plated Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$5.70	\$6.70	\$7.75	7 1/4	4
8	9.35	10.35	12.00	9	9

Air-tone Marine Horns

POWERFUL TONE OF AN AIR WHISTLE

CHROMIUM PLATED

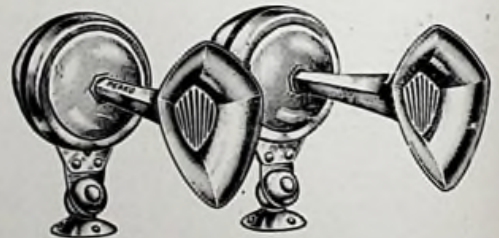


Fig. 808

These matched tone electric horns are the most powerful motor driven horns on the market, used and sold only in pairs, they give a volume of sound equal to an air whistle.

Made of noncorrosive metal, heavily chromium plated. Motor and vibrator are fully enclosed and watertight.

Furnished complete with push button and marine relay which eliminates all loss of operating current regardless of how far horns are placed from battery.

Largest diameter, 6 inches; length overall, 13 1/2 inches.

Price per pair, 6 or 12 volt \$27.00
 Price per pair, 32 volt 34.00

Cast Fog Bell

HEAVY WEIGHT



Fig. 150

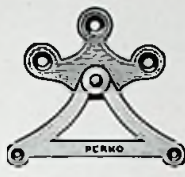
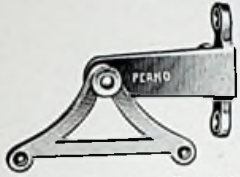
Cast from extra heavy bell metal. Complete with removable bracket.

Diameter 8 in. 10 in.
 Height 8 in. 10 1/2 in.
 Projection 9 in. 12 in.
 Weight 10 lbs. 19 lbs.

Diam. Inches	Polished Each	Nickel Plated Each	Chromium Plated Each
8	\$13.00	\$14.50	\$15.50
10	24.00	25.50	28.00

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	\$.60	\$.50	3
2	.90	.60	3 1/4
3	1.20	.75	3 3/4

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	1 1/8	\$1.00	\$1.50	\$2.50	\$3.50
3 1/2	1 3/8	1.75	2.25	3.50	5.00

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.

Made to comply with U. S. Navy Specifications.



Fig. 275

Price Per Foot	Length of Links Inches	Thickness Overall Inches	Weight per Foot Ounces
\$.60	3/4	7/32	3 1/2

Garboard Drain Plug

CAST BRONZE—PLAIN

A few of these installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Complete with wrench for removing plug, tapered thread, 1-in. pipe size. Absolutely water-tight.



Fig. 124

Diam. Flange Inches	Depth Inches	Weight Oz.
2 3/4	1	10
Complete with Wrench, Each		\$1.25

Letters and Figures

CAST BRONZE
REGULAR PATTERN

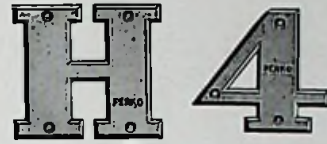


Fig. 348

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
2	\$.15	\$.25	\$.45	6 1/2
3	.20	.30	.50	24 1/4
4	.50	.75	1.00	36

GOTHIC PATTERN



Fig. 313

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$.20	\$.30	\$.50	18

Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTINGS
BALL TYPE—STREAMLINE

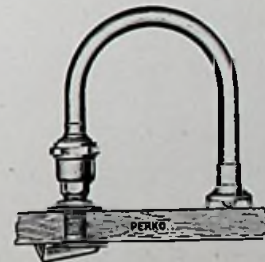


Fig. 397

The most dependable and safest automatic boat drainer on the market. Requires no attention after it is installed. Water cannot back up into the boat as the top of the tubing is above the water line.

A sponge rubber ball is forced into a machined seat automatically closes the opening when the boat is in reverse or not in motion.

Heavy bronze strainer in inlet end.

Starts draining at 7 miles per hour.

No.	Each	Height Inside Hull Inches	Diam. Tubing Inches	For Thickness Hull Inches	Weight Pounds
1	\$ 7.50	8	3/4	up to 1 1/2	2
2	10.00	15 1/2	1 1/8	up to 2 1/4	4

Maxim Silencers

WET TYPE—MODEL M3
CAST IRON



Fig. 334

For Exhaust Pipe Inches	Each	Diameter Inches	Length Overall Inches	Weight Pounds
1½	\$ 11.50	4¾	9¾	8¾
2	14.00	6¼	11	15
2½	19.00	7 1/8	12¾	30
3	23.50	9 1/8	13½	40
3½	32.00	11	14¾	60
4	35.00	12¾	15¾	80
5	94.00	14	23	145
6	135.00	14 7/8	27½	170

Removable Flanges on both ends to connect standard pipe or tubing.

Use same size Silencer as diameter of Exhaust Pipe.

Made in one solid casting—cannot leak. Can be installed anywhere, close to engine or in stern of boat.

Used with equal success on Diesel as well as gasoline engines.

The Model M3 silencer is designed for marine engines where water is injected into the exhaust line, and when properly installed will give practically complete elimination of the exhaust noise without imposing noticeable back pressure.

All sizes are faced and drilled for standard pipe flanges. All sizes are fitted with tapped openings over the inlet and under the outlet for a water connection and water drain respectively.

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.

Military Mast Sets

CAST BRONZE—POLISHED

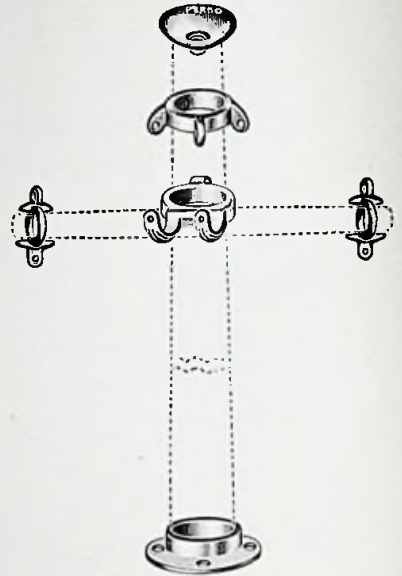


Fig. 586

Furnished in two sizes, a handsome and practical set of fittings, mast cap has small bronze sheave for furling halyards.

Set No.	Deck Flange Inches	Inside Diam. Cross Arm Inches	Inside Diam. Bracket Inches	Inside Diam. Eye Band Inches	Inside Diam. Mast Cap Inches	Inside Diam. Fitting Inches
1	2¾	2½	2 1/8	1 7/8	1 7/8	1 1/2
2	3½	3	2¾	2¼	2¼	1 1/2

Set No.	Per Set Complete	Deck Flange Each	Cross Arm Bracket Each	Eye Band Each	Mast Cap Each	End Fitting for Cross Arm Each
1	\$6.75	\$1.50	\$1.75	\$1.50	\$1.50	\$.60
2	9.00	2.00	2.25	2.00	2.00	1.00

Chromium Plated Finish, add 40% to above prices

Hinged Mast Steps

CAST BRONZE



Fig. 1039

Mast can be lowered to horizontal position parallel with deck, base has integral lug which prevents strain on hinge.

Inside Diam. Step Inches	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Diam. Base Inches	Height Inside Each
2	\$2.75	\$3.25	\$4.75	4	2
2½	3.25	3.75	5.25	4½	3
3	6.00	6.50	8.00	5	3

Check Valves

CAST BRONZE

A simple but exceptionally dependable check valve. Threaded to fit standard pipe.



Fig. 273



Fig. 68



Fig. 69

Size Pipe Inches	Length Overall Inches	Weight Each lbs.
3/4	2 3/4	3/4
1	3	1
1 1/4	3	1 1/4
1 1/2	3 3/4	1 3/4

PRICE EACH

Size Pipe Inches	Complete	Plunger Only	Springs Only
3/4	\$2.10	\$.50	\$.08
1	2.30	.60	.10
1 1/4	2.80	.70	.12
1 1/2	3.30	.80	.14

Gasolene Strainer

PLAIN BRONZE—WOVEN COPPER SCREEN

With Yoke, Thumb-screw and Supporting Bracket

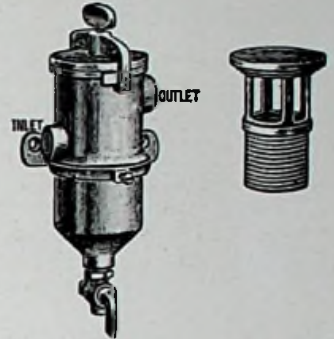


Fig. 299

★Size No.	Price Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Each Pounds
1	\$5.00	5 1/2	2 3/8	1/4 or 3/8	3
1 1/2	7.00	6 1/4	3 1/8	3/8 or 1/2	5
2	9.00	7 1/4	3 3/8	1/2 or 3/4	7

Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pet cock at bottom drains the settling chamber. Side bracket supports the strainer, relieving the fuel pipes of all weight.

Clothes Hammocks

PULLMAN BERTH TYPE—GREEN



Fig. 566

The same type as used in Pullman sleeping cars. These have many uses in a boat. Length overall, 66 inches.

Price Each \$1.95

Plates for Hanging Berths

CAST BRONZE



Fig. 1043

Top of plate is beveled to fit curve of ceiling. Furnished in pairs for right and left hand mounting. Hole 1/2 inch diameter.

Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Length Overall Inches	Width Overall Inches	Thickness Inches
\$1.30	\$1.70	\$2.00	2 1/2	1 3/8	1/4

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.	Each	For Pipe Size Inches	Extreme Height Inches	Extreme Width Inches
1	\$ 9.00	1/2 or 3/4	5 1/4	3 3/8
2	15.00	1 or 1 1/4	7 1/2	5 1/4

Specify size pipe when ordering.



Round Portlights

GALVANIZED IRON AND CAST BRONZE
NEW STYLE—IMPROVED
GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 317

Round Frames for Portlight Glass

CAST BRONZE



Fig. 71

Diam. Opening Inches	Galv. Each	Plain Bronze Each	Pol. Bronze Each	Diam. Glass in Clear Inches	Thickness of Glass Inches	Inside Diam.	Outside Diam.	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromi Plate Each
3	\$2.75	\$3.00	\$5.00	3	1/4	3 3/8	5 3/4	\$.55	\$1.00	\$1.40	\$2.00
4	3.00	3.25	6.00	4	1/4	4 3/8	6 1/4	.60	1.10	1.50	2.10
5	3.75	4.50	7.25	5	3/8	4 7/8	6 3/4	.65	1.25	1.75	2.40
6	4.50	5.25	8.00	6	3/8	5 1/4	7 1/4	.70	1.50	2.10	2.70
7	6.25	7.00	10.00	7	1/2	5 3/4	8	1.00	1.85	2.45	3.10
8	7.75	8.50	12.50	8	1/2	6 1/4	8 1/2	1.30	2.25	2.85	3.60
9	10.25	11.50	16.50	8	1/2	7 1/4	9 3/4	1.65	2.75	3.45	4.20
10	12.50	14.00	20.00	8 3/8	1/2	8 1/4	11 1/4	2.00	3.25	4.00	5.00
12	19.00	21.00	30.00	10 1/4	1/2	9 1/4	12 1/4	2.50	3.75	4.75	5.70
						10 1/4	13 1/4	3.00	5.00	6.00	7.00

All sizes are recessed for screens.
For screens see Fig. 434.
9 and 10 inch have Two Fastenings
12 inch have Three Fastenings

MORE-AIR PORTLIGHTS

INSIDE PATTERN—FOR WOOD HULLS
CAST BRONZE—PLAIN AND POLISHED
COMPLETE WITH OUTSIDE FINISHING RING
GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE RECESSED FOR SCREENS
FOR SCREENS SEE FIG. 434

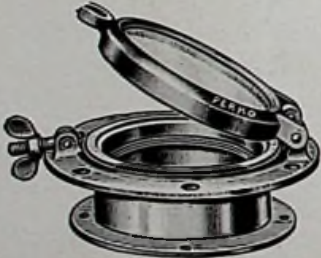


Fig. 157

Showing Screen in Place



Opening Inches	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	\$6.00	\$5.25	\$6.75	\$6.00	\$7.50	\$6.75	\$8.25
5	5.25	7.25	6.00	8.00	6.75	8.75	7.50	9.50
6	6.50	8.75	7.25	9.50	8.25	10.50	9.50	11.75
7	8.25	11.00	9.50	12.25	10.75	13.50	12.00	14.75
8	10.75	13.75	12.00	15.00	13.75	16.75	15.75	18.75
9	14.00	17.75	15.50	19.25	17.75	21.50	20.00	23.75
10	17.50	23.00	20.25	25.75	23.50	29.00	27.00	32.50
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.

Without outside finishing ring, deduct from above prices the following:

	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch	12 Inch
Plain	\$.45	\$.55	\$.65	\$.80	\$1.00	\$1.50	\$2.00	\$2.50
Polished	.60	.75	.85	1.10	1.35	2.00	2.75	3.25

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices



Oval Portlights

INSIDE PATTERN—WITH DEEP COLLAR
CAST BRONZE



Fig. 907

COMPLETE WITH OUTSIDE FINISHING RING

PLAIN BRONZE

Size Opening Inches	For Thickness of Wood			
	1 1/2 Inch Each	2 Inch Each	2 1/2 Inch Each	3 Inch Each
4 x 7	\$ 8.50	\$ 9.50	\$10.50	\$11.50
5 x 9	11.00	13.00	15.00	17.00
6 3/4 x 12	18.00	21.00	24.00	27.00

POLISHED BRONZE

Size Opening Inches	For Thickness of Wood			
	1 1/2 Inch Each	2 Inch Each	2 1/2 Inch Each	3 Inch Each
4 x 7	\$11.00	\$12.00	\$13.00	\$14.00
5 x 9	14.50	16.50	18.50	20.50
6 3/4 x 12	23.00	26.00	29.00	34.00

WITHOUT OUTSIDE FINISHING RING DEDUCT FROM ABOVE

Size	Plain	Polished
4 x 7	\$.50	\$.75
5 x 9	.75	1.25
6 3/4 x 12	1.00	1.50

Galvanized Inside Portlights

CAST IRON—WITH FINISHING RING

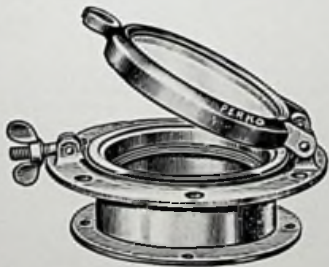


Fig. 265

Opening Inches	For Thickness of Wood		
	1 1/2 Inch Each	2 Inch Each	2 1/2 Inch Each
5	\$4.50	\$4.65	\$4.80
6	5.50	5.75	5.90
7	7.25	7.55	7.75
8	9.25	9.65	9.90

WITHOUT OUTSIDE FINISHING RING DEDUCT FROM ABOVE

5 Inch Size Each	6 Inch Size Each	7 Inch Size Each	8 Inch Size Each
\$.50	\$.50	\$.75	\$.75

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Lightweight Portlights

CAST BRONZE

GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 795

These are made primarily for small cabin cruisers and cabin sailboats where space and weight are important factors.

Diam. Opening Inches	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Outside Diam. Inches	Thickness of Glass Inches	Weight Pounds
4	\$2.50	\$4.00	\$ 6.00	7	1/4	3 1/4
5	3.05	4.80	7.20	8	1/4	3 1/2
6	4.15	6.10	9.15	9 1/4	1/4	4
7	5.40	7.75	11.60	10 3/8	1/4	5
8	6.60	9.00	13.00	11 1/4	1/4	7

All sizes are recessed for screens.
For screens see Fig. 434.

Marine Cabin Windows

ALUMINUM OR CAST BRONZE

WATERTIGHT

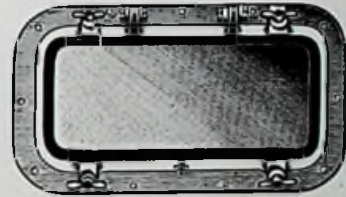


Fig. 796

These cabin windows are made with 4 toggle fastenings, which when tightened make them absolutely water tight. They are fitted with push-in type screens which can be left in position when window is closed.

Size Glass in Clear Inches	Plain Aluminum Each	Plain Bronze Each	Polished Bronze Each
5x12	\$15.00	\$17.00	\$23.00
7x14	18.50	21.50	29.50

Extra for Finishing Ring

Size	Plain Aluminum	Plain Bronze	Polished Bronze
5x12	\$3.00	\$3.50	\$5.00
7x14	4.00	4.75	6.50

Dimensions

Dim. of Opening Inches			Outside Dim. of Flange Inches	Dim. of Outside of Spigot Inches	Length of Spigot Inches
With Screen in Place	With- out Screen	Width Flange Inches			
5x12	6x13	1 1/4	8 3/4 x 15 3/4	6 1/4 x 13 1/4	2
7x14	8x15	1 1/4	10 3/4 x 17 3/4	8 1/4 x 15 1/4	2

Thickness of Glass 1/4 inch.

Above can be supplied with longer spigot. Prices on application.

Unless otherwise specified, we always send above windows in Plain Brass finish, without finishing rings.

Air Scoops for Portlights

GALVANIZED OR POLISHED BRASS WITH OR WITHOUT SCREENS



Fig. 153

Opening of Portlight Inches	Galvanized		Polished Brass	
	Without Screen Each	With Screen Each	Without Screen Each	With Screen Each
3	\$1.50	\$2.50	\$2.50	\$3.50
4	1.80	2.80	2.90	3.90
5	2.10	3.10	3.30	4.30
6	2.40	3.65	3.70	4.95
7	2.70	3.95	4.10	5.35
8	3.00	4.25	4.50	5.75
9	3.30	4.55	4.90	6.15
10	3.60	4.85	5.30	6.55
11	3.90	5.40	5.75	7.25
12	4.30	5.80	6.25	7.75

Screens are soldered into scoops.

Oval Portlight Screens

BRASS FRAME—COPPER MESH



Fig. 909

Opening of Portlight Inches	Price Each
4 x 7	\$1.25
5 x 9	1.50
6 3/4 x 12	2.50

Shallow Portlight Screens

SPUN BRASS FRAME—COPPER MESH

FOR RECESSED PORTLIGHTS, FIG. 157, 317, 795



Fig. 434

Size Port Light Inches	Price Each	Size Port Light Inches	Price Each
4	\$1.00	10	\$2.10
5	1.10	12	2.35
6	1.30	14	2.50
7	1.50	16	3.00
8	1.70	18	3.50
9	1.90	20	3.75

Exact size of screen. Add 1/8 inch to above sizes.

Beaded Portlight Screens

SPUN BRASS FRAME—COPPER MESH

Frame tapered for variation in size of opening in portlight, wire enclosed bead around edge.



Fig. 154

Size Port Light Inches	Price Each	Size Port Light Inches	Price Each
3	\$1.25	10	\$3.75
4	1.50	11	4.00
5	1.75	12	4.25
6	2.00	14	5.50
7	2.25	16	6.50
8	2.60	18	7.50
9	3.25	20	8.50

NOTE—Can be furnished with galvanized frame in all sizes. Price on application.

NOTE—Above Scoops and Screens are made to order and return of same will not be accepted.

Please give exact diameter of opening in port light.

Above items desired CHROMIUM PLATED, add 40% to Polished Brass Prices

Wing Nuts for Portlights

CAST BRASS



Fig. 453

For Diam. Bolt Inches	Plain Brass Each	Polished Brass Each	For Diam. Bolt Inches	Plain Brass Each	Polished Brass Each
1/8	\$.10	\$.20	1/2	\$.25	\$.45
3/16	.10	.20	9/16	.30	.50
1/4	.20	.35	5/8	.30	.50

Rubber for Portlights



Fig. 461

Size	Per Foot
1/4 inch square	\$.12
3/8 inch square	.18
1/2 inch square	.25

Deck Lights

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Size of Clear Glass Inches	Plain Each	Pol. Each	Thickness of Glass Inches	Diam. of Frame Inches
3 1/2	\$2.75	\$3.75	3/8	5 1/4
4 1/2	3.00	4.00	3/8	6 1/4
5	3.75	5.00	1/2	7 1/4
6	4.50	5.75	1/2	8
7	6.50	8.00	3/4	10
8	8.25	10.25	3/4	11

Portlight Glasses

We can furnish all sizes and thicknesses of Portlight Glasses to order

PRICE ON APPLICATION



Rope Deck Pipes

GALVANIZED CAST IRON AND CAST BRONZE
FOR MANILA ROPE



Fig. 741

For Diam. Rope Inches	BRONZE			Inside Diam. Inches	Diam. Flange Inches
	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each		
3/4 & 1	\$4.00	\$4.80	\$5.80	1 3/4	3 5/8
1 1/4	5.00	5.80	6.80	2 1/8	4 3/4

GALVANIZED

For diam. Rope Inches	Price Each	Inside Diam. Inches	Diam. Flange Inches	Height Above Deck Inches
3/4 and 1	\$1.55	2	4 3/8	1 1/8
1 1/4	2.50	2 1/2	4 3/8	2

Chain Deck Pipes

GALVANIZED CAST IRON AND BRONZE

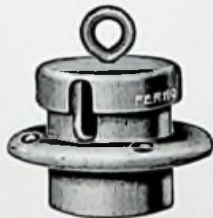


Fig. 341

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	For Chain	
					Diam. Inches	Weight Each in Lbs.
1 3/4	\$1.45	\$3.50	\$4.00	\$5.00	1 1/8	1 1/8
2	1.55	4.50	5.00	6.00	1 1/4	2 3/8
2 1/2	2.50	6.50	7.00	8.00	3/8	4 3/8
3	2.90				1/2	5 1/8
3 1/2	4.60				5/8	9 1/4
4	5.70				3/4	13

Yacht Chain Deck Pipes

GALVANIZED CAST IRON AND BRONZE



Fig. 342

Size No.	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	For Chain	
					Diam. Inches	Diam. Flange Inches
1	\$3.20	\$5.00	\$6.00	\$7.00	1 1/8	3 1/2
2	3.80	6.00	7.00	8.00	3/8	4 1/4
3	5.75	10.00	11.00	13.00	1/2	5

Solid Brass Rings

POLISHED



Fig. 417

Thickness Inches	Inside Diam. Inches	Per Dozen	Thickness Inches	Inside Diam. Inches	Per Dozen
5/32	1 1/2	\$.60	1/4	1 3/4	\$3.00
3/8	5/8	.60	1/4	2	3.25
3/8	3/4	.70	1/4	2 1/4	3.75
7/8	7/8	.85	1/4	2 1/2	4.00
1	1	1.00	3/16	1 3/4	4.50
1 1/8	1 1/8	1.20	3/16	2	4.80
1 1/4	1 1/4	1.35	3/16	2 1/4	5.20
1 1/4	1 1/4	1.50	3/16	2 1/2	5.70
1 1/2	1 1/2	2.00	3/16	2 3/4	6.00
1 1/2	1 1/2	2.50	1/8	3	6.50

Exhaust Pipe Flanges

CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Each
2	2 3/8	4 1/8	13 oz.
2 1/2	2 7/8	5 1/4	1 lb.
3	3 1/2	6 1/4	1 1/2 lbs.
3 1/2	4	6 7/8	1 1/2 lbs.

Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$1.00	\$1.75	\$2.25
2 1/2	1.00	1.75	2.25
3	1.50	2.25	2.85
3 1/2	1.50	2.25	2.85

Exhaust Tube Flanges

CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Each
2	2 1/8	4	11 oz.
2 1/2	2 5/8	4 3/8	14 oz.
3	3 1/8	5	1 lb.
3 1/2	3 5/8	5 1/2	1 1/2 lbs.
4	4 1/8	6	1 1/2 lbs.

Size	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
2	\$.90	\$1.65	\$2.15
2 1/2	1.00	1.75	2.25
3	1.00	1.75	2.25
3 1/2	1.40	2.15	2.75
4	1.45	2.20	2.80

Racing Outboard Steerer

WITH REMOTE THROTTLE CONTROL AND CUTOUT

Genuine Husted hard rubber wheel with one-piece steel core. Base, drum and control fittings are of silicon aluminum (salt water resisting), strong and sturdy, but light in weight. A strong bronze friction arrangement in base prevents control from accidental turning while wheel is in operation. A spring terminal is provided for motor shut-off. Steerer is furnished complete with 10 feet of Bowden wire and fittings.



Fig. 447

Diam. Wheel Inches	Diam. Base Inches	Height Overall Inches	Weight Pounds	Price Each
16 3/4	7 1/8	6 1/2	8 1/2	\$14.00

Runabout Steerer

IMPROVED DASH TYPE WITH THROTTLE AND CHOKE CONTROLS

Genuine Husted hard rubber wheel with one-piece steel core. An adjustable dash bracket which can be fitted on either side of dash board at any angle desired. Adjustable collar allows dash bracket to be placed wherever needed on steerer shaft. A supporting bracket for lower end of steerer can be attached to most suitable place in the boat. Throttle control on wheel complete with 10 feet control casing and wire. Choke control in center of wheel with 14 feet of control casing and wire concealed in hollow shaft. This steerer furnished of all bronze or all aluminum construction, except drum, which is aluminum in either case. Furnished complete with bowden wire.

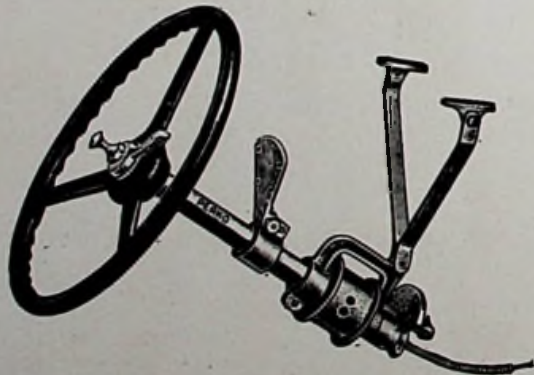


Fig. 448

Diam. Wheel Inches	Length Overall Inches	Size Dash Bracket Inches	Diam. Drum Inches	Weight Bronze Pounds
16 3/4	17 3/4	4x4x1 1/2	3	15

Each
 Polished Bronze—without Choke Control\$20.00
 Polished Bronze—with Choke Control 22.00
 Exposed Parts, Nickel Plated, add \$1.00 each.
 Exposed Parts, Chromium Plated, add \$2.00 each.

Improved Racing Steerer

HARD RUBBER STEEL CORED WHEEL WITHOUT CONTROLS



Fig. 737

The main features of this steerer are, strength combined with lightness of weight, hard rubber steel cored wheel and salt water resisting aluminum castings, larger diameter drum, allowing faster steering action, and reduction of overall height to a minimum

Designed principally for use in the popular class A B and C outboard motor boats.

Diameter Wheel Inches	Height Overall Inches	Diam. Base Inches	Diam. Drum Inches	Price Each
16 3/4	5	7 1/4	4	\$11.00

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
20	\$25.00	7/8 or 1	2	1/4
24	30.00	1	2	1/4
28	36.00	1	2 1/4	1/4
30	42.00	1	2 1/4	1/4
32	48.00	1 1/8	2 1/4	1/4
34	51.00	1 1/8	2 1/4	1/4
36	66.60	1 1/4	2 3/8	1/4
42	81.50	1 1/4	2 3/8	1/4
48	92.50	1 3/8	2 3/8	3/8

All above wheels are measured from end to end of grips.

Above wheels with drum and stand furnished promptly to order.

Galvanized Steerers

GALVANIZED MALLEABLE IRON
MAHOGANY DRUM AND GRIPS
HEAVY PATTERN



Fig. 661

Diam. Inches	Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 3.50	3 3/8 x 3 3/8	2 3/8	3
16	5.25	4 x 4	2 5/8	3 3/8
20	8.75	5 1/8 x 5 1/8	3 1/8	4 5/8
25	18.00	5 3/4 x 5 3/4	4	6

Bronze Steerers

RIBBED PATTERN—WILL NOT BEND
MAHOGANY DRUM AND GRIPS



Fig. 725

Outer edges of Bronze Wheels are Polished. Inside surfaces are in Foundry Finish.

Diam. Inches	Polished Each	Chromium Plated Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 6.50	\$ 8.50	3 3/8 x 3 3/8	2 3/8	3
16	10.00	12.00	4 x 4	2 5/8	3 3/8
20	17.00	19.50	5 1/8 x 5 1/8	3 1/8	4 3/8

Bronze Steerers

OVAL RIM—OVAL SPOKES
MAHOGANY DRUM AND GRIPS



Fig. 660

Diam. Inches	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 6.50	\$ 8.50	3 3/8 x 3 3/8	2 3/8	3
16	10.00	12.00	4 x 4	2 5/8	3 3/8
20	17.00	19.50	5 1/8 x 5 1/8	3 1/8	4 3/8

Bronze Worm Geared Steerer

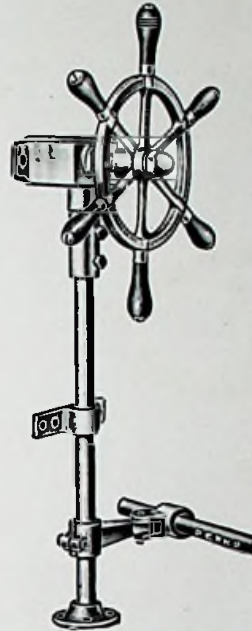


Fig. 820

Worm type gears enclosed in cast bronze case produce powerful action remarkably smooth in operation and insures easy steering, 1 1/4 turns of the wheel obtains 45 degree angle of rudder.

Worm type gears automatically "lock" the rudder in desired position until wheel is turned to change course.

Wheel is of heavy cast bronze, highly polished, with hardwood handles.

Wheel shaft is 1 inch diameter bronze rod and all fittings are for 1 inch diam. rod.

Complete except shafting, with 16 inch bronze wheel	\$35.00
Complete except shafting, with 20 inch bronze wheel	37.25
With 24 inch bronze wheel	41.25
Steerer only, without wheel, shafting or other fittings	16.00
16 inch bronze wheel only	10.00
20 inch bronze wheel only	12.00
24 inch bronze wheel only	16.00
Lower lever with clevis	4.75
Bulkhead bracket only	2.25
Floor plate only	2.25

Lever with Clevis

CAST BRONZE—FOR 1 INCH ROD



Fig. 978

Complete Each	\$4.75	Lever Only Each	\$3.00	Clevis Only Each	\$1.75	Length Overall Inches	10 1/4
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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	\$6.50	11	14
2	9.50	13	16



BRACKET CHAIN TYPE STEERERS

CAST BRONZE BRACKET AND SPROCKET

WITH POLISHED BRONZE WHEEL
FOR OUTSIDE BULKHEAD MOUNTING



Fig. 674

Size Wheel Inches	Polished Each	Chromium Plated Each	Diameter of Shaft Inches
16	\$25.00	\$28.00	$\frac{7}{8}$
20	31.00	34.50	$\frac{1}{2}$
25	36.00	40.00	1

WITH POLISHED BRONZE WHEEL
FOR INSIDE BULKHEAD MOUNTING



Fig. 675

Size Wheel Inches	Polished Each	Chromium Plated Each	Diameter of Shaft Inches
16	\$25.00	\$28.00	$\frac{7}{8}$
20	31.00	34.50	$\frac{1}{2}$
25	36.00	40.00	1

WITH INLAID MAHOGANY WHEEL
FOR OUTSIDE BULKHEAD MOUNTING



Fig. 676

Size Wheel Inches	Price Each	Diam. of Shaft Inches
20	\$50.00	$\frac{7}{8}$
24	58.50	1
28	68.50	1 $\frac{1}{2}$

Give length of shaft when ordering
WITH INLAID MAHOGANY WHEEL
FOR INSIDE BULKHEAD MOUNTING



Fig. 677

Size Wheel Inches	Price Each	Diam. of Shaft Inches
20	\$50.00	$\frac{7}{8}$
24	58.50	1
28	68.50	1 $\frac{1}{2}$

Give length of shaft when ordering

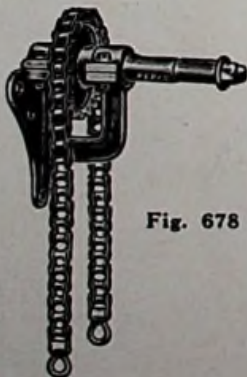


Fig. 678

BRACKET STEERER, COMPLETE EXCEPT WHEEL

Furnished complete with 36 inches of chain as shown, with long shaft and keyway for mahogany wheel. Chain has $\frac{3}{8}$ pitch, bracket is 6 $\frac{1}{2}$ inches high, 5 $\frac{1}{2}$ inches wide.

Size Wheel Inches	Price Each	Diam. of Shaft Inches
16	\$19.50	$\frac{7}{8}$
20	21.00	$\frac{1}{2}$
24	23.00	1
28	26.00	1 $\frac{1}{2}$

Extra 36 inch lengths of Brass Roller Chain with Ends, Price, \$7.50 Each
Extra Sprockets, 4 $\frac{1}{8}$ diameter, 21 teeth 3.50 Each

Bronze Steering Wheels

ROUND SPOKES—ROUND RIM
TEAKWOOD HANDLES



Fig. 197

Diam. Inches	Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
20	\$12.00	1	2 1/8	1/4
24	16.00	1	2 1/8	1/4
28	22.00	1 1/4	2 1/2	5/16

Hubs for Wood Steering Wheels

CAST BRONZE



Fig. 1018

Diam. Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Number of Spokes
4	\$ 5.00	\$ 6.00	\$ 6.80	6
5	7.00	8.00	9.00	6
5	9.00	10.00	11.00	8
6	14.00	15.00	16.50	8

State Size of Bore and Keyway when ordering.

Bronze Steering Wheels

POLISHED—HEAVY TYPE
USED ON FIG. 674 CHAIN TYPE STEERER



Fig. 976

Diam. Inches	Polished Each	Chromium Plated Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
16	\$ 7.50	\$ 9.50	7/8	1 1/8	1/4
20	8.50	10.75	7/8	1	1/4
25	11.50	15.00	1	1 1/4	1/4

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	\$2.20
15	3.00

Galvanized Steering Wheels

WITH WOOD HANDLES, BRONZE TIPS



Fig. 977

Diam. Inches	Each	Number Spokes	For Diam. Shaft Inches	Length Hub Inches	Est. Wt. Each in lbs.
20	\$12.50	6	1 1/8	2 3/4	9
22	15.50	6	1 1/8	2 1/4	13
25	18.00	6	1	2 1/8	16
28	21.00	6	1 1/8	2 1/8	21
30	24.00	8	1 1/4	3 3/4	31
36	33.00	8	1 3/8	3 7/8	41

Dividers

NICKEL SILVER



Fig. 693

With adjustable and reversible steel needle points and straightening device.
Length, 6 inches, each\$1.50



Memorandums

"Perko" Reverse Gear Controls

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1½ 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.

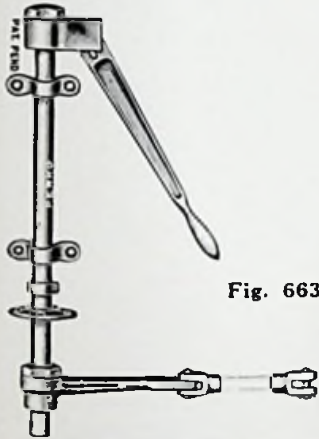
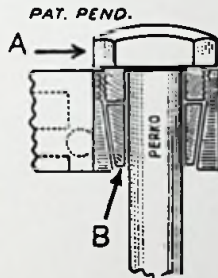


Fig. 663

Interior view of tapered fastening device.



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	¾	1½	2	15¼

Fittings complete—except shaft	\$20.00
1 inch bronze shaft—per foot	2.00
1½ 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 ¾ inch rod. Deck flange is 5 x 2¾ inches. Length of throw is 8½ 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.

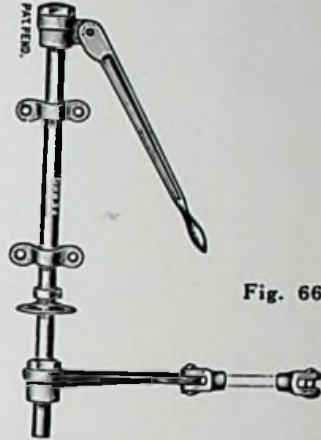


Fig. 664

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	¾	1	2	13¼

Fitting complete—except shaft \$15.00
1 inch bronze shaft—per foot 2.00

Columbian Clutch Control

CAST BRONZE—POLISHED

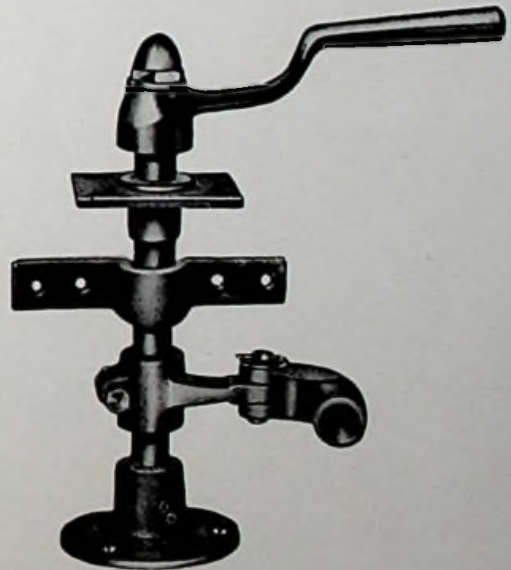


Fig. 822

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.

Price per set \$12.00

Above items, (Except Fig. 720) desired CHROMIUM PLATED, add 40% to Polished Bronze Price

Spark and Throttle Controls

FRICITION TYPE—FOR CONTROL ROD
CAST BRONZE



Fig. 653

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$4.75	\$6.00	\$7.00	6 1/2 x 3 1/4	1 1/4

Sockets for 1/4 inch rod furnished unless otherwise specified.

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.

Spark and Throttle Control

FOR 1/4 OR 5/16 CONTROL ROD
CAST BRONZE—RATCHET TYPE



Fig. 331

A strong ratchet holds handles in position desired furnished complete with control rod sockets threaded for 1/4 or 5/16 inch rod.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$5.50	\$6.00	\$7.00	6	2 1/2

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

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

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Frame Inches	Weight Each Pounds
\$6.00	\$7.25	\$8.25	6 1/2 x 3 1/4	1 1/2

For more detailed information on bowden clamp refer to Fig. 352.

Throttle Controls

FOR CONTROL WIRE AND CASING
CAST BRONZE—RATCHET TYPE



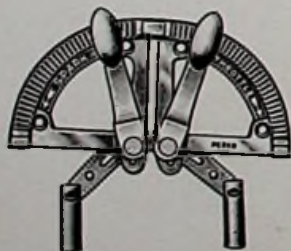
Fig. 713

A strong and very practical control for all types of boats, an improved ratchet device that is almost noiseless, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all bolts and swivel fittings for control wire and casing.

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$3.50	\$4.50	\$5.00	\$6.00	6	2 3/8

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 5/16 inch rod. Furnished for 1/4 inch rod to order.

Fig.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Frame Inches
690	\$2.75	\$3.25	\$4.00	4 1/4 x 3 1/8
691	5.50	6.75	7.75	6 x 3

Throttle Controls

FOR 1/4 OR 5/16 CONTROL ROD
CAST BRONZE—RATCHET TYPE



Fig. 716

Handle cannot be shifted by vibration due to improved ratchet device that is practically noiseless.

Furnished with control rod socket threaded for 1/4 or 5/16 inch rod, finishing plate for outside bulkhead and all necessary bolts.

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$3.50	\$4.50	\$5.00	\$6.00	6	2 3/8

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

Remote Throttle Controls

PLAIN CAST BRONZE
FOR OUTBOARD MOTOR BOATS

Sturdily constructed of cast bronze especially designed for the racing driver's convenience. A long handle giving full leverage. Arrangement of side plate allows installation on gunwale while at the same time, it does not project above deck enough to cause injury in case of upsetting. Furnished complete with necessary bowden wire fittings.

SIDE PATTERN

FLOOR PATTERN

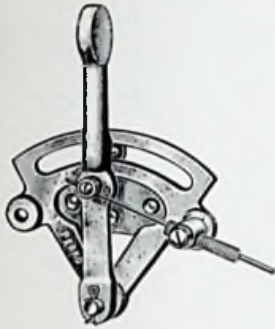


Fig. 350

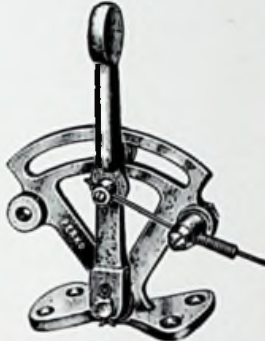


Fig. 351

Size Floor Plate Inches	Width Overall Inches	Height Overall Inches	Weight Ounces	Either Style Each
3x1 3/4	3 3/4	5 3/4	14	\$1.50

Prices do not include Bowden Wire or Casing.

Front Bulkhead Controls

FOR SPARK AND
THROTTLE

For use with Control
Wire and Casing.



Fig. 409

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
Single	\$2.30	\$3.30	\$5.00
Double	3.20	4.20	6.00

Spark and Throttle Controls

CAST BRONZE



Fig. 904

Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for 1/4 or 5/16 inch rod.

Fig.		Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
904	Complete Single	\$2.50	\$3.25	\$4.00
904	Complete Double	3.75	4.75	5.75
905	Complete Single	3.25	4.00	4.75
905	Complete Double	4.50	5.50	6.50
905	Brackets Only	1.00	1.50	2.00

Side Bracket



Fig. 905

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 BRONZE CASING AND WIRE			
5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$2.85	\$3.40	\$4.20	\$5.50

With nickel plated handle, add \$.25 per set.
With chromium plated handle, add \$.60 per set.

Bowden Wire and Casing

A high grade remote control wire, flexible and strong. Casing is 1/4 inch outside diameter.

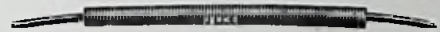


Fig. 353

Steel wire and casing furnished in lengths up to 100 feet each, brass and bronze up to 60 feet each.

	Per Foot
Steel wire with casing	\$.10
Brass wire with casing	.20
Phosphor bronze wire with casing	.27

Control Wire Handles

ALL BRASS

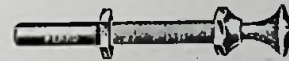


Fig. 692

Control wire and casing can be easily attached. For use on a dash or bulkhead up to 2 inches thick.

	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
	\$1.50	\$1.75	\$2.10

Bowden Casing Clamp

CAST BRONZE—SWIVEL TYPE

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle; size base, 2 1/4 x 1 inch.



Fig. 352

Price Each—Plain Bronze..... \$.50



Control Rod Sockets

STANDARD TYPE—BRASS



Fig. 328

Tapped for Rod Inches	Price Each	Size of Slot Inches
1/4	\$.20	1/8 x 3/4
3/8	.25	1/8 x 3/4

Control Cranks

PLAIN CAST BRONZE

Furnished for single or double controls as desired. Cranks are solid castings with 90 degree angle. Control rod sockets are tapped for 1/4 inch or 3/8 inch rod.

Side Type

Upright Type

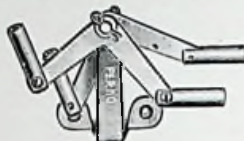


Fig. 636

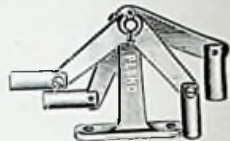


Fig. 637

Control Rod Sockets

HEAVY TYPE—CAST BRONZE



Fig. 298

Tapped for Rod Inches	Price Each	Size of Slot Inches
1/4	\$.25	1/8 x 3/4
3/8	.30	1/4 x 3/4

SIDE OR UPRIGHT TYPE

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
1/4	\$1.10	\$1.75	\$.35	\$.40
3/8	1.35	2.25	.40	.50

Control Wire Sockets

BRASS



Fig. 679

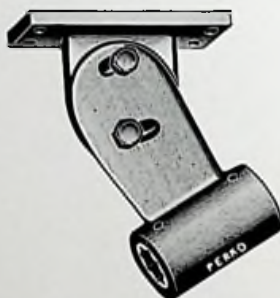
Complete with brass cotter pin and brass set screw.

Price Each \$.35

Price Does Not Include Control Wire

Adjustable Strut

WITH GOODRICH RUBBER BEARING
CAST BRONZE—EXTRA HEAVY



Side View



Open View

Fig. 1019

This is our popular Adjustable Strut, Fig. 628, fitted up with Goodrich cutless rubber bearing. Strut is adjustable to any practical angle of the propeller shaft.

Held fast at necessary angle by two heavy bronze bolts, improved and reinforced against breakage. Length of drop is figured from bottom of keel to center of shaft.

Elbow Ball Joints

BRONZE

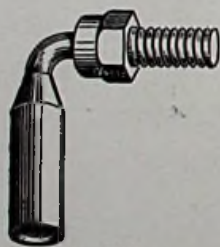


Fig. 792

Ball joints are very desirable when installing spark and throttle controls carburetor or choke control, etc.

Both ends threaded for 1/4" rod, 20 threads to inch.

PRICE EACH \$.20

Adjustable Ball Joints

BRONZE



Fig. 793

Adjustable for wear, Ball is held by stiff spring and cannot rattle or work loose.

Threaded 1/4", 20 U.S.S.

PRICE EACH \$.35

Lgth. Drop In.	Size Shaft Inches					
	3/4	7/8	1	1 1/4	1 1/2	1 3/4
5	\$18.50	\$19.25	\$22.00	\$24.00	\$28.70	\$30.20
6	18.80	19.55	22.30	24.30	29.00	30.50
7	19.10	19.85	22.60	24.60	29.30	30.80
8	19.40	20.15	22.90	24.90	29.60	31.10
9	19.70	20.45	23.20	25.20	29.90	31.40
10	20.30	21.05	23.80	25.80	30.20	31.70
11					30.50	32.00
12					31.25	32.75

Size shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches
3/4	3	5 1/2	3
7/8	3	5 1/2	3 1/2
1	3	5 1/2	4
1 1/8	3	5 1/2	4 1/2
1 1/4	3 1/2	6 1/2	5
1 3/8	3 1/2	6 1/2	5 1/2
1 1/2	3 1/2	6 1/2	6

Specify Size Shaft and Length of Drop when ordering



Adjustable Shaft Logs

ALL CAST BRONZE—EXTRA HEAVY



Fig. 627

Without doubt a shaft log superior to any other as yet on the market, made entirely of high grade cast bronze, stuffing box is adjustable to any angle in a 360° radius and is supported by two adjustable lugs to keep it from turning with the shaft should binding or freezing ever occur. Furnished complete with grease cup and rubber gasket for installing.

No.	Price Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
1	\$13.75	3/4, 7/8, 1	16	3 1/2	14
2	20.00	1 1/8, 1 1/4	22	4 1/4	19
3	29.50	1 3/8, 1 1/2	26	5	30
4	38.00	1 3/4, 2	28	5 1/2	57

Specify Shaft Size When Ordering

Self Aligning Shaft Log

CAST BRONZE



Fig. 671

A shaft log designed for high speed motors, the stuffing box and shaft are cushioned in rubber which will eliminate excessive wear of both and reduce vibration to a minimum. 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 Base Inches	Length Overall Inches	Degree of Pitch	Weight Pounds
1	\$8.00	3/4-7/8-1	11x3 1/2	18	14	6
2	14.00	1 1/8-1 1/4	17x4 1/4	23 1/2	11	12
3	20.00	1 3/8-1 1/2	19x5	28	11	20

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX



Fig. 672



Fig. 1092



Fig. 673

For Log No.	Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inches
1	\$ 3.00	\$.50	\$.60	1 3/4	2 3/8	4
2	4.50	.90	1.40	2 3/8	3	5
3	7.00	1.50	1.70	2 5/8	3 1/2	5
4	15.00	5.00	2.00	3	3 3/4	12

When Ordering Box state Size of Shaft

No. 4 size has stuffing gland like Fig. 629 instead of nut.

Adjustable Strut

ALL CAST BRONZE
MARINE BABBITT BEARING

Side View

End View

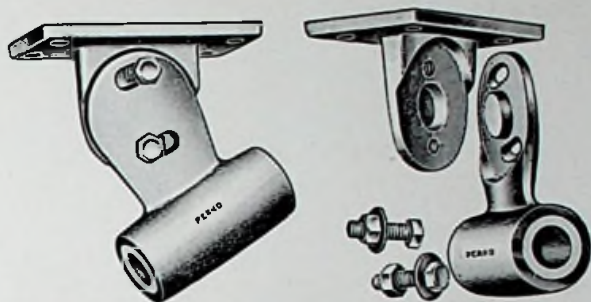


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by three heavy bronze bolts, bearing is of a special marine babbitt, the highest grade obtainable. Length of drop is figured from bottom of keel to center of shaft.

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches
3/4, 7/8, 1, 1 1/8	3	5 1/2	4 1/8
1 1/4, 1 3/8, 1 1/2	3 1/2	6 1/2	4 1/2

Length Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$8.00	\$8.00	\$8.00	\$11.25	\$11.25	\$13.00	\$13.00
6	8.25	8.25	8.25	11.50	11.50	13.25	13.25
7	8.35	8.35	8.35	11.75	11.75	13.75	13.75
8	8.50	8.50	8.50	12.00	12.00	14.10	14.10
9	9.00	9.00	9.00	12.30	12.30	14.35	14.35
10	9.50	9.50	9.50	12.75	12.75	14.65	14.65
11	10.00	10.00	10.00	13.25	13.25	15.00	15.00
12							

Specify Size Shaft and Length of Drop, When Ordering

Adjustable Stuffing Box

FOR "PERKO" SHAFT LOGS
CAST BRONZE



Fig. 629

Stuffing box end only for attaching to shaft logs, Fig. 627, furnished complete with grease cup.

No.	Price Each	Bored for Shaft Inches	Size of Plate for Fastening Inches
1	\$ 9.00	3/4, 7/8, 1	2 3/4 x 3 1/2
2	12.00	1 1/8, 1 1/4	3 1/4 x 4 1/4
3	17.00	1 3/8, 1 1/2	3 3/8 x 5
4	24.00	1 3/4, 2	5 1/8 x 5 1/2

GOODRICH CUTLESS BEARINGS

Stock Sizes—Table of Dimensions, Weights and 1937 Prices

SIZES SHOWN HERE ARE IN STOCK FOR IMMEDIATE SHIPMENT

A Shaft Diam. Inches	B Outside Diam. Inches	Standard Length Inches	E Rubber Wall Inches	D Metal Wall Inches	Shipping Weight Lbs.	Price Each \$	Sp'l L'gths Price Per Lin. In.
3/4	1 1/4	3	1/8	1/8	3/4	6.20	\$2.27
7/8	1 3/8	3 1/2	1/8	1/8	3/4	7.20	2.27
1	1 1/2	3 1/2	1/8	1/8	3/4	7.20	2.27
1	1 1/2	4	1/8	1/8	1	8.30	2.38
1	1 3/8	4	1/8	1/8	1 1/4	8.30	2.38
1	2	4	3/8	1/8	1 1/2	8.30	2.38
1 1/8	1 5/8	4 1/2	1/8	1/8	1 1/4	9.80	2.44
1 1/8	1 3/4	4 1/2	1/8	1/8	1 1/2	9.80	2.44
1 1/8	2	4 1/2	1/8	1/8	1 3/4	9.80	2.44
1 1/4	1 3/4	5	1/8	1/8	1 1/2	11.20	2.50
1 1/4	2	5	1/4	1/8	1 3/4	11.20	2.50
1 1/4	2 1/8	5	1/8	1/8	1 3/4	11.20	2.50
1 3/8	1 7/8	5 1/2	1/8	1/8	1 3/4	12.40	2.66
1 3/8	2 1/8	5 1/2	1/4	1/8	2 1/4	12.40	2.66
1 3/8	2 3/8	5 1/2	3/8	1/8	2 1/2	12.40	2.66
1 1/2	2	6	1/8	1/8	2	14.30	2.78
1 1/2	2 3/8	6	1/8	1/8	2 1/2	14.30	2.78
1 5/8	2 1/8	6 1/2	1/8	1/8	2 1/4	16.70	3.02
1 5/8	2 3/8	6 1/2	3/8	1/8	3	16.70	3.02
1 3/4	2 3/8	7	1/8	1/8	2 3/4	18.90	3.16
1 3/4	2 5/8	7	1/8	1/8	3 1/4	18.90	3.16
1 3/8	2 5/8	7 1/2	1/4	1/8	3 1/4	20.80	3.26
1 7/8	2 7/8	7 1/2	1/4	1/8	4	20.80	3.26
2	2 5/8	8	1/8	1/8	3 1/2	21.80	\$3.30
2	3	8	3/8	1/8	4 1/2	21.80	3.30
2 1/8	2 1 1/8	8 1/2	3/8	1/8	4 1/2	23.50	3.30
2 1/8	3 1/8	8 1/2	3/8	1/8	4 3/4	23.50	3.30
2 1/4	2 1 1/8	9	1/8	1/8	4 1/2	25.40	3.36
2 1/4	3 1/8	9	1/8	1/8	5	25.40	3.36
2 1/4	3 3/8	9	1/8	1/8	6	25.40	3.36
2 3/8	3 3/8	9 1/2	3/8	1/8	6	27.30	3.38
2 1/2	3 1/8	10	1/8	1/8	5	28.20	3.44
2 1/2	3 3/8	10	1/8	1/8	6	28.20	3.44
2 5/8	3 3/8	10 1/2	1/4	1/8	5 3/4	30.80	3.50
2 3/4	3 3/8	11	1/8	1/8	5 3/4	33.40	3.56
2 3/4	3 3/4	11	3/8	1/8	6	33.40	3.56
2 7/8	3 3/4	11 1/2	1/8	1/8	6 3/4	34.70	3.62
3	3 3/4	12	1/4	1/8	8	36.80	3.66
3	4	12	3/8	1/8	8 1/2	36.80	3.66
3 1/8	4 1/4	12 1/2	1/8	1/8	8 1/2	39.60	3.72
3 1/4	4	13	1/4	1/8	9 1/4	42.60	3.86
3 1/4	4 1/4	13	3/8	1/8	10	42.60	3.86
3 3/8	4 1/2	13 1/2	1/8	1/8	10 3/4	46.00	4.02
3 1/2	4 1/4	14	1/4	1/8	10	49.10	4.14
3 1/2	4 1/2	14	3/8	1/8	11 1/2	49.10	4.14
3 5/8	4 1/2	14 1/2	1/8	1/8	12 3/4	53.60	4.36
3 3/4	4 1/2	15	1/4	1/8	10 1/2	59.50	4.68
3 3/4	5	15	1/8	1/8	17 3/4	59.50	4.68
3 3/4	5 1/4	15	1/8	1/8	18	59.50	4.68
3 7/8	5 1/4	15 1/2	1/2	1/8	20	63.60	4.84
4	5	16	1/8	1/8	28	68.40	5.04
4	5 1/4	16	1/8	1/8	29 1/2	68.40	5.04
4 1/8	5 1/4	16 1/2	3/8	1/8	31	71.60	5.12
4 1/4	5 1/2	17	1/8	1/8	29 1/2	74.40	5.12
4 3/8	5 3/4	17 1/2	1/2	1/8	33 1/2	77.80	5.22
4 1/2	5 1/2	18	1/8	1/8	33 1/4	82.00	5.36
4 1/2	5 3/4	18	1/8	1/8	35	82.00	5.36
4 5/8	6 1/8	18 1/2	1/2	1/4	39	89.40	5.68
4 3/4	6 1/8	19	1/8	1/8	43 3/4	96.30	5.94
4 7/8	6 1/8	19 1/2	1/8	1/8	43	101.20	6.10
5	6 1/8	20	1/8	1/4	45	106.60	6.28
5	6 1/2	20	1/2	1/4	50 1/4	106.60	6.28
5 1/4	7	21	1/8	1/4	80 1/4	118.30	6.64
5 3/8	7	21 1/2	1/8	1/8	75	124.00	6.80
5 1/2	7	22	1/2	1/4	65	129.20	6.95
5 3/8	7	22 1/2	1/8	1/4	70	134.50	7.04
5 3/4	7	23	3/8	1/4	62 3/4	140.20	7.18
6	7 1/2	24	1/2	1/4	70	156.00	7.64



Fig. 1021

Stern Bearings

WITH GOODRICH CUTLESS BEARINGS
CAST BRONZE

With Oval Flange

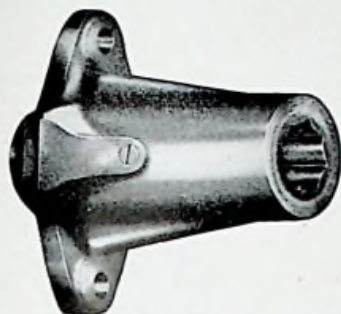


Fig. 381

With Square Flange

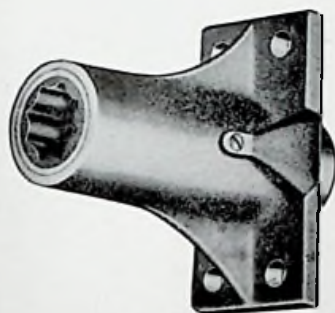


Fig. 382

The advantages of this type of bearing are many. The castings are made of high grade bronze of heavy construction and will last as long as the boat.

The flanges correspond in sizes with the usual bronze and babbitted bearings of this type. The Goodrich Cutless Bearing can be easily removed from the main casting by taking out the set screws holding same.

No vibration. Sand or silt is carried out without injury to shaft or bearing.

No attention or adjustment necessary. These bearings are provided with scoops for water lubrication and no additional scoops or other provisions for water supply are necessary.

Size Shaft Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$13.70	5 x 2 1/2	4
1 1/8	16.40	5 1/2 x 2 3/4	4 1/2
1 1/4	18.90	6 x 3	5
1 3/8	21.40	6 1/2 x 3 1/4	5 1/2
1 1/2	27.00	7 x 3 1/2	6
1 3/4	35.80	8 x 4	7
2	43.70	9 1/4 x 4 3/8	8
2 1/4	55.60	10 1/2 x 5 1/4	9
2 1/2	64.80	11 1/2 x 5 3/4	10
2 3/4	79.00	12 3/4 x 6 3/8	11
3	93.00	14 x 7	12

Holes in flange will be drilled at no additional charge when requested. Give size and spacing wanted.

Rubber Engine Mountings

PREPARED FOR MARINE ENGINE
INSTALLATIONS—LACQUERED

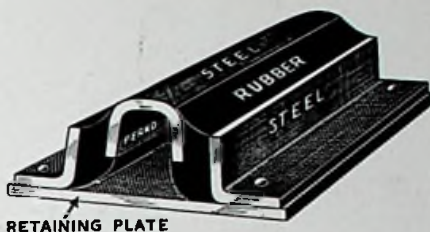


Fig. 455

Provides an elastic mounting for moving machinery of all kinds.

Made of 3 metallic members securely bonded to 2 resilient rubber elements arranged in such a manner that the loads are carried in a combination of shear and compression, the central inverted metal "U" carries the load and the extended metal flanges on either side are bolted to the engine bed, thus the rubber connector strips absorb and stop vibration created by the engine, eliminating vibrational noises, and increasing the mechanical efficiency of the engine.

The adhesion of the rubber to the metal is over 250 pounds per square inch.

Furnished in various lengths for various installations.

The rubber is coated with a long life elastic lacquer making it impervious to the effects of bilge water, oil, grease and dampness.

Furnished with or without a steel plate riveted to the flanges, the steel plate permits the fastening of the mounting to the engine before installing so that engine can be properly lined up.

If plate is not used the rubber will stretch and lose its compression quality before the mounting is bolted to the bed.

The only time the plate is not necessary is when the type of installation will allow the mounting to be bolted to the bed before the weight of the engine is put on it, this of course should not be done when installing an engine in a boat, as proper "lining up" would be extremely difficult.

Extreme width of mounting, 4 7/8 inches.

WITH RETAINING PLATE					
Length Inches	4	6	8	10	12
Price Each	\$2.90	\$3.60	\$4.50	\$5.30	\$6.00

WITHOUT RETAINING PLATE
NOT LACQUERED

Length Inches	4	6	8	10	12
Price Each	\$1.70	\$2.40	\$3.00	\$3.75	\$4.25

Stuffing Boxes
CAST BRONZE—REGULAR



Fig. 320

Size Shaft Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$1.50	4 1/8 x 1 3/4	2 3/8	3/8	1 1/8
7/8	1.75	4 1/4 x 1 7/8	2 1/8	7/8	1 1/2
1	2.00	4 1/2 x 2 1/4	3	1	1 3/4
1 1/8	2.50	5 1/8 x 2 3/8	3 1/4	1 1/2	2 1/4
1 1/4	3.00	6 x 2 3/8	3 3/8	1 1/2	3
1 3/8	3.75	6 1/4 x 3	3 3/8	1 1/2	3 1/4
1 1/2	4.50	6 1/2 x 3	3 7/8	1 1/2	3 1/2
1 3/4	6.50	7 x 3 3/4	3 3/4	3/8	5 3/4

Stern Bearings
CAST BRONZE—REGULAR

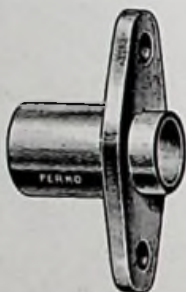


Fig. 321

Size Shaft Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$1.00	4 1/8 x 1 3/4	2 3/8	3/8	13 oz.
7/8	1.25	4 1/4 x 1 7/8	2 1/8	7/8	1 lb.
1	1.50	4 1/2 x 2 1/4	3	1	1 1/4
1 1/8	1.75	5 1/8 x 2 3/8	3 1/4	1 1/2	1 1/2
1 1/4	2.00	6 x 2 3/8	3 3/8	1 1/2	2
1 3/8	2.50	6 1/4 x 3	3 3/8	1 1/2	2 1/4
1 1/2	3.25	6 1/2 x 3	3 7/8	1 1/2	2 1/2
1 3/4	4.00	7 x 3 3/4	3 3/4	3/8	3 3/4

Stuffing Boxes and Stern Bearing
THREADED FOR PIPE

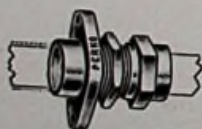


Fig. 711

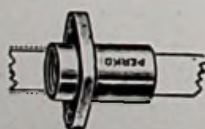


Fig. 712

Size Shaft Inches	Stuffing Box Each	Stern Bearing Each	Size Flange Inches	Drilled for Tapped for Pipe Inches	Drilled for Fastening Inches
3/4	\$2.00	\$1.25	4 x 2 1/8	3/4	3/8
7/8	2.25	1.50	4 3/4 x 2 1/8	1	7/8
1	2.75	1.75	4 3/4 x 2 3/8	1	1
1 1/8	3.25	2.00	5 3/4 x 3	1 1/4	1 1/2
1 1/4	4.00	2.25	6 x 3	1 1/4	1 1/2
1 3/8	5.00	2.75	6 1/2 x 3 3/8	1 1/2	1 1/2
1 1/2	5.50	3.25	6 3/4 x 3 3/4	1 1/2	1 1/2

Stuffing Boxes
CAST BRONZE—HEAVY



Fig. 631

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Lgth. Bearing Inches	Weight Pounds
3/4	\$3.50	\$4.75	4 1/2 x 2 1/2	3/8	3 1/2	2 1/2
7/8	4.00	5.50	5 1/8 x 2 3/4	3/8	4	3 1/2
1	4.50	6.25	5 3/4 x 3	1/2	4 1/2	4
1 1/8	5.00	6.75	6 3/8 x 3 1/4	1/2	5	4 3/4
1 1/4	6.00	7.75	7 x 3 1/2	5/8	5 1/2	6 1/2
1 3/8	7.00	8.75	7 3/8 x 3 3/4	5/8	6	8
1 1/2	8.50	10.75	8 1/8 x 4	3/4	6 1/2	9 1/2
1 5/8	10.00	13.25	8 5/8 x 4	3/4	7	10 1/2
1 3/4	11.50	15.00	9 1/8 x 4	3/4	7 1/2	11 1/2
1 7/8	13.00	17.00	9 3/4 x 4 1/4	3/4	8	13
2	14.50	19.00	10 1/8 x 4 1/2	3/4	8 1/2	14 1/2

Length of Bearing does not include Packing Nut.

Stern Bearings
CAST BRONZE—HEAVY



Fig. 632

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Lgth. Bearing Inches	Weight Pounds
3/4	\$2.50	\$3.75	4 1/2 x 2 1/2	3/8	3 1/2	1 1/2
7/8	2.75	4.25	5 1/8 x 2 3/4	3/8	4	2 1/2
1	3.00	4.75	5 3/4 x 3	1/2	4 1/2	2 3/4
1 1/8	3.25	5.00	6 3/8 x 3 1/4	1/2	5	3 1/2
1 1/4	3.75	5.50	7 x 3 1/2	5/8	5 1/2	4 1/2
1 3/8	4.50	6.25	7 5/8 x 3 3/4	5/8	6	6 1/2
1 1/2	5.50	7.75	8 1/8 x 4	3/4	6 1/2	7 1/2
1 5/8	6.75	10.00	8 5/8 x 4	3/4	7	8 1/2
1 3/4	8.00	11.50	9 1/8 x 4	3/4	7 1/2	9 1/2
1 7/8	9.25	13.25	9 3/4 x 4 1/4	3/4	8	10 1/2
2	10.75	15.25	10 1/8 x 4 1/2	3/4	8 1/2	11 1/2



Extra Heavy Stuffing Box
RECTANGULAR FLANGE—CAST BRONZE

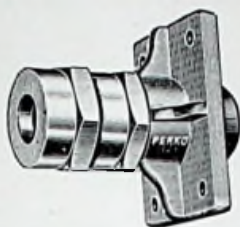


Fig. 819

For Diam. Shaft Inches	Plain Each	Babbitted Each	Size of Flange Inches	Length Bearing Inches
1	\$ 5.25	\$ 7.00	5 x 3	4 1/8
1 1/8	5.75	7.50	5 1/2 x 3 1/4	4 1/8
1 1/4	6.75	8.50	5 3/4 x 3 3/8	4 3/8
1 3/8	8.00	9.75	6 x 4	5 1/8
1 1/2	10.00	12.25	6 x 4 1/2	5 5/8
1 3/4	12.50	16.00	6 1/2 x 4 1/2	7
2	16.00	20.50	7 3/4 x 5	7 7/8
2 1/4	22.00	28.00	8 1/4 x 5 1/2	8
2 1/2	32.00	40.00	9 x 6 1/2	8 1/2

Self Aligning Stuffing Box
CAST BRONZE—RECTANGULAR FLANGE



Fig. 734

Rubber mounted motors are in common use, so why not a good, strong, practical rubber mounted stuffing box.

Our self-aligning shaft log Fig. 671 is very popular, but this stuffing box does the trick where a wood log is used.

A cast bronze base and stuffing box joined by heavy rubber hose and extra strong hose clamps.

No.	Price Each	For Size Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$7.00	3/4-7/8-1	5x3 1/4	6 3/4
2	11.00	1 1/8-1 1/4	6x4 1/4	7 3/4
3	13.00	1 3/8-1 1/2	7x4 3/2	8 3/4
4	36.00	1 3/4-2	8x6	15 1/2

No. 4 size has Stuffing Gland like Fig. 630 instead of Nut, and four hose clamps.

Can be made one inch shorter if desired by cutting off that much hose.

Extra Heavy Stern Bearing
RECTANGULAR FLANGE—CAST BRONZE



Fig. 906

Size of Flange and Bearing same as Fig. 819 above.

For Diam. Shaft Inches	Plain Each	Babbitted Each
1	\$ 3.50	\$ 5.25
1 1/8	4.00	5.75
1 1/4	4.50	6.25
1 3/8	5.50	7.25
1 1/2	6.50	8.75
1 3/4	9.00	12.50
2	11.75	16.25
2 1/4	16.50	22.50
2 1/2	24.00	32.00

Improved Stuffing Box

EXTRA HEAVY—CAST BRONZE

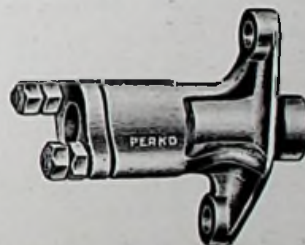
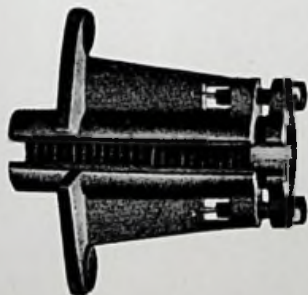


Fig. 630

A decided improvement over the regular type of stuffing box, extremely strong and heavily constructed, no nuts to bind on shaft or turn off, used with right or left hand engines, packing gland is kept in proper adjustment by two heavy tightening nuts and two lock nuts.

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Length Bearing Inches
1	\$4.50	\$6.25	5 3/4 x 3	1/2	5
1 1/8	5.00	6.75	6 3/8 x 3 1/4	1/2	5 1/2
1 1/4	6.00	7.75	7 x 3 1/2	3/8	6
1 3/8	7.00	8.75	7 3/8 x 3 3/4	3/8	6 1/2
1 1/2	8.50	10.75	8 1/8 x 4	3/4	7
1 3/4	11.50	15.00	9 1/8 x 4	3/4	8
2	14.50	19.00	10 1/8 x 4 1/2	3/4	9

Flax Packed Stuffing Box and Stern Bearing
WITH RECTANGULAR OR OVAL FLANGE



RECTANGULAR FLANGE—Fig. 811
OVAL FLANGE—Fig. 821

Shaft Size Inches	Size Flange Inches	Length Bearing Inches	Price Each
1	5 1/4 x 2 3/8	5 1/4	\$ 6.25
1 1/8	6 x 3	5 3/4	7.00
1 1/4	6 5/8 x 3 1/8	6 1/4	7.75
1 3/8	7 1/4 x 3 3/8	6 3/4	8.75
1 1/2	8 x 4	7 3/4	11.00
1 3/4	9 1/4 x 4 5/8	9	16.00
2	10 1/2 x 5 1/4	9 3/4	20.00
2 1/4	12 x 6	11 3/8	26.00
2 1/2	13 1/4 x 6 5/8	12 1/4	35.00

Thrust Ball Bearings

Flat Race
Bronze Retainers



Fig. 786

Diameter Shaft Inches	Fig. 786	Fig. 942
5/8	\$.90	\$1.00
3/4	1.00	1.10
7/8	1.05	1.15
1	1.10	1.25
1 1/8	1.25	1.35
1 1/4	1.30	1.40
1 3/8	1.65	1.75
1 1/2	1.65	1.85
1 5/8	2.20	2.20
1 3/4	2.20	2.20
2	2.85	2.85
2 1/4	3.10	3.10
2 1/2	3.60	3.60

Grooved Race
Steel Retainers



Fig. 942

Outside Diameter Inches	Thickness Inches
1 1/8	1/8
1 1/4	1/8
1 3/8	1/8
1 1/2	3/8
1 5/8	3/8
1 3/4	3/8
2	5/8
2 1/8	5/8
2 1/4	5/8
2 3/8	5/8
2 1/2	1 1/8
2 5/8	1 1/8
3	1 1/8
3 1/8	1 1/8
3 1/4	1 1/8
3 3/8	1 1/8
3 1/2	1 1/8

Safety Shaft Collars

CAST SEMI STEEL—MACHINED



Solid Type
Fig. 787

Shaft Size Inches

- 3/4
- 7/8
- 1
- 1 1/8
- 1 1/4
- 1 3/8
- 1 1/2
- 1 3/4
- 2

Solid Type Price Each

- \$0.45
- .45
- .55
- .60
- .70
- .75
- .80
- 1.00
- 1.10



Split Type
Fig. 788

Split Type Price Each

- \$0.65
- .70
- .75
- .85
- .95
- 1.00
- 1.10
- 1.30
- 1.50

Thrust Ball Bearings

GROOVED RACES
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Price Each
5/8	\$.90
3/4	1.00
7/8	1.00
1	1.10
1 1/8	1.25
1 1/4	1.25
1 3/8	1.65
1 1/2	1.65
1 5/8	2.20
1 3/4	2.20
2	2.85
2 1/4	3.10
2 1/2	3.40

Outside Diam. Inches
1 1/8
1 1/4
1 3/8
1 1/2
1 5/8
1 3/4
2
2 1/8
2 1/4
2 3/8
2 1/2
2 5/8
3
3 1/8
3 1/4
3 3/8
3 1/2

Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Price Each
3/4	\$1.10
7/8	1.30
1	1.30
1 1/8	1.60
1 1/4	1.60
1 3/8	1.95
1 1/2	1.95
1 3/4	2.75
2	3.50

Size of Base Inches
2 x 5 1/2
2 3/4 x 5 3/8
2 3/4 x 5 3/8
3 3/8 x 6
3 3/8 x 6
3 3/8 x 7
3 3/8 x 7
4 1/2 x 7 1/4
4 3/4 x 7 1/2

Intermediate Bearings

BABBITTED



Fig. 941

Diameter Shaft Inches	Price Each	Length Overall Inches	Length Bearing Inches
1	\$3.35	7 1/4	3 1/2
1 1/8	3.60	8 1/4	3 3/4
1 1/4	4.00	8 1/4	3 3/4
1 3/8	4.25	8 1/4	3 3/4
1 1/2	4.50	9 1/4	4 1/4
1 3/4	5.00	9 1/4	4 1/4
2	5.55	10 1/2	5

Above prices do not include grease cup.

Rear Bearings

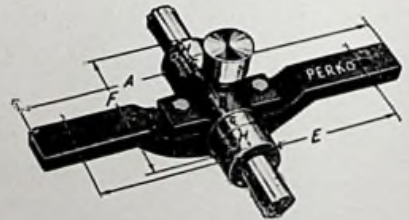


Fig. 790

Prices apply to rear bearing only. Collars and thrust bearings shown on cut are not included.

Shaft Size Inches	Price Each	A Inches	E Inches	F Inches
7/8	\$3.50	7 7/8	6	5 1/4
1	4.25	13 1/2	10 3/4	5 1/4
1 1/8	4.25	13 1/2	10 3/4	5 1/4
1 1/4	5.00	15	12	6 1/4
1 3/8	5.00	15	12	6 1/4
1 1/2	6.00	16 1/2	13 1/2	7 1/4
1 3/4	7.00	20	16 1/2	7 1/4
2	10.00	20	16 1/2	8 3/4

"Northeast" Thrust and Intermediate Bearing Combined ALL ENCLOSED—RETAINS GREASE

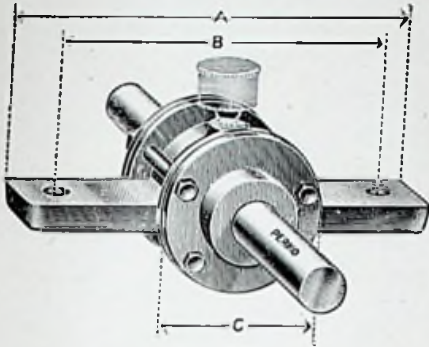


Fig. 742

No more dry or burnt out thrust bearings due to lack of grease.

A heavy housing containing two sets of thrust bearings for forward and reverse. Dirt cannot get in, grease cannot get out.

For Size Shaft Inches	Price Each	A Inches	B Inches	C Inches
5/8	\$7.70	10 1/2	9 1/8	3 3/4
3/4	8.80	10 1/2	9 1/8	3 3/4
7/8	10.00	10 1/2	9 1/8	3 3/4
1	11.00	11	9 1/2	3 3/4
1 1/8	12.10	11 1/4	9	3 1/2
1 1/4	13.20	11 1/4	9	4 1/8
1 3/8	15.40	11 1/4	9	4 1/8
1 1/2	17.60	11 1/4	9	4 1/8
1 3/4	19.80	12	10	4 1/2
2	22.00	12	10	4 1/2

"Northeast" High Speed Radial and Thrust Bearing Combined

NO MORE SCORED SHAFTS

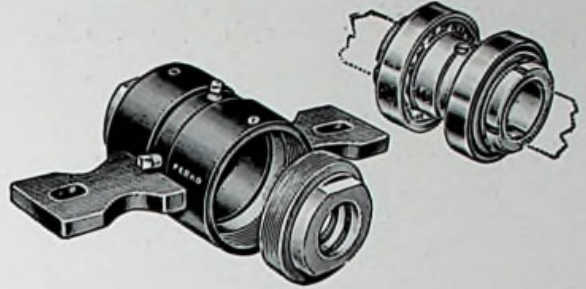


Fig. 1090

Here is a radial and thrust bearing that will increase R. P. M. due to use of ball bearings throughout. Takes care of the thrust both forward and backward along with the radial load. Requires no attention. Will stand high speed up to 8,500 R. P. M.

Will not throw grease. Just fill with gear grease up to bottom plug in housing.

Shaft can not be scored as it is enclosed by an internal housing which turns with the shaft on high speed ball bearings.

For Size Shaft Inches	Each	Width Arms Overall Inches	Width Center to Center of Holes Inches
3/4	\$11.00	10	8
7/8	12.00	11	9
1	13.20	11	9
1 1/8	16.25	11	9
1 1/4	17.20	11	9
1 3/8	19.50	11	10
1 1/2	21.10	11	10
1 3/4	24.00	11	9 1/2
2	27.00	12	10
2 1/4	28.50	12	10
2 1/2	32.80	12	10

Universal Joints

DROP FORGED STEEL

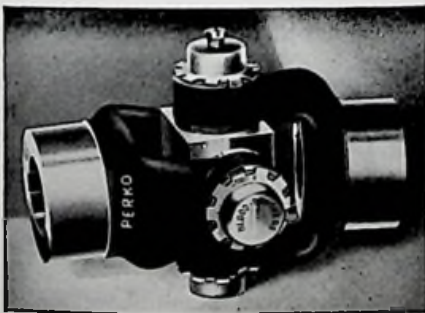


Fig. 791

An extremely rugged joint designed principally for marine use, turns in a small circle and is lubricated through a simple opening, the use of these joints will reduce vibration and lengthen the life of the boat and motor.

Size No.	Price Single Joint Each	Price Double Joint Each	Maximum Shaft Diameter Inches	Diameter Swing Inches	Length Single Joint Inches
1	\$10.40	\$18.80	1 3/8	4 3/8	7 1/2
2	14.00	25.30	1 1/2	5 1/8	7 1/2
3	17.80	30.40	1 7/8	5 3/4	8 1/2
4	21.80	37.25	1 7/8	6 1/8	8 1/2
5	32.80	60.00	2 1/8	6 3/4	10 1/2
6	65.00	148.00	2 3/4	8 1/8	14 1/2

Shaft Couplings

CAST IRON

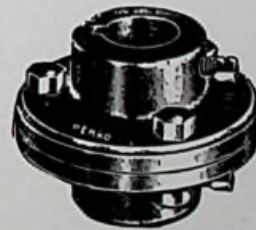


Fig. 327

No.	Price Each	Size Shaft Inches	Diam. Flange Inches	Length Overall Inches
1	\$3.30	3/4-7/8-1	4	3 1/2
2	3.90	3/4 to 1 1/2	4 1/2	4 1/8
3	4.90	1 1/8 to 1 1/2	5	4 3/4
14	7.50	1 to 2	6	6 1/2

For divided sizes such as 1 x 1 1/8, etc., add \$.50 each.
For special boring, not listed, add \$1.00 each.

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Size Keyway Inches
3/4-7/8	3/16
1-1 1/8	1/4
1 1/4	5/16
1 3/8-1 1/2	3/8
1 3/8-1 3/4	7/16
1 7/8-2	1/2

Columbian Propellers

MANGANESE BRONZE AND MONEL METAL
AILS SA CRAIG TYPE

FOR GENERAL ALL AROUND USE, THE MOST
POPULAR OF ALL COLUMBIAN PROPELLERS

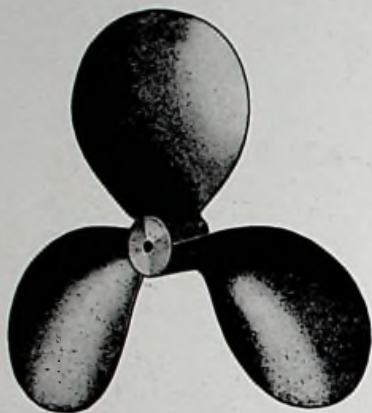


Fig. 809

Diam. Inches	Manganese Bronze		Monel Metal	
	3 Blade	Boring	3 Blade	Boring
8	\$ 7.30	\$ 1.70	\$ 11.70	\$ 2.75
9	8.30	1.70	13.58	2.75
10	8.80	1.70	14.00	2.75
11	9.20	1.80	14.75	3.00
12	9.95	2.05	15.95	3.50
13	10.85	2.15	17.40	3.50
14	12.70	2.30	20.40	4.00
15	14.05	2.65	22.50	4.25
16	16.05	2.65	25.75	4.25
17	18.00	3.00	28.80	5.00
18	19.20	3.00	30.75	5.00
19	23.40	3.30	37.45	5.50
20	27.60	3.30	44.25	5.50
21	33.00	3.70	52.80	6.00
22	38.40	3.70	61.45	6.00
23	42.60	4.20	68.50	6.75
24	46.80	4.20	75.00	6.75
25	51.00	4.80	82.00	8.00
26	55.20	4.80	89.00	8.00
27	61.80	5.50	99.00	9.00
28	67.00	5.50	107.00	9.00
30	74.40	6.10	120.00	10.00
32	84.00	7.00	135.00	11.50
33	90.00	8.40	145.00	13.50
34	94.80	8.40	152.00	14.00
35	100.20	9.60	160.00	15.50
36	104.40	9.60	168.00	15.50
38	124.80	11.30	200.00	18.00
40	160.80	12.85	258.00	20.50
42	172.80	16.20	277.00	26.00
44	201.60	17.70	322.00	29.00
46	240.00	19.20	384.00	31.00
48	282.00	24.00	452.00	40.00
50	306.00	31.00	490.00	50.00

High Speed Type

STYLE S. S.



Fig. 810

Popular in certain sections of the
country for high speed boats.

PRICES SAME AS AILSA
CRAIG TYPE ABOVE

Columbian Propellers

PEERLESS QUALITY
AILS SA CRAIG TYPE



Fig. 739

Diam. Inches	Three Blade	Boring	Diam. Inches	Three Blade	Boring
8	\$ 4.87	\$1.70	25	\$ 34.00	\$ 4.80
9	5.53	1.70	26	36.80	4.80
10	5.87	1.70	27	41.20	5.50
11	6.13	1.80	28	44.67	5.50
12	6.63	2.05	30	49.60	6.10
13	7.23	2.15	32	56.00	7.00
14	8.47	2.30	33	60.00	8.40
15	9.37	2.65	34	63.20	8.40
16	10.70	2.65	35	66.80	9.60
17	12.00	3.00	36	69.60	9.60
18	12.80	3.00	38	83.20	11.30
19	15.60	3.30	40	107.20	12.80
20	18.40	3.30	42	115.20	16.20
21	22.00	3.70	44	134.40	17.70
22	25.60	3.70	46	160.00	19.20
23	28.40	4.20	48	188.00	24.00
24	31.20	4.20	50	204.00	31.00

Speed Boat Rudders

CAST MANGANESE BRONZE



Fig. 813

Furnished complete with tiller, collar, nut and rudder port.

No.	Size of Rudder Inches	Diam. of Stock, Ins.	Total length of Stock, Inches	Length of Tiller, Ins.	Suitable for Boats	Price Complete	Extra for longer stocks, per inch	Rudder only with straight stock
1	9x14	1	12	12	16 ft. to 22 ft. long	\$20.90	\$.12	\$10.1
2	10x16	1	12	12	20 ft. to 26 ft. long	22.60	.12	12.1
3	11x18	1 1/2	12	14	26 ft. to 35 ft. long	25.40	.15	14.1
4	12x20	1 1/2	12	16	30 ft. to 40 ft. long	31.90	.20	19.1

Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

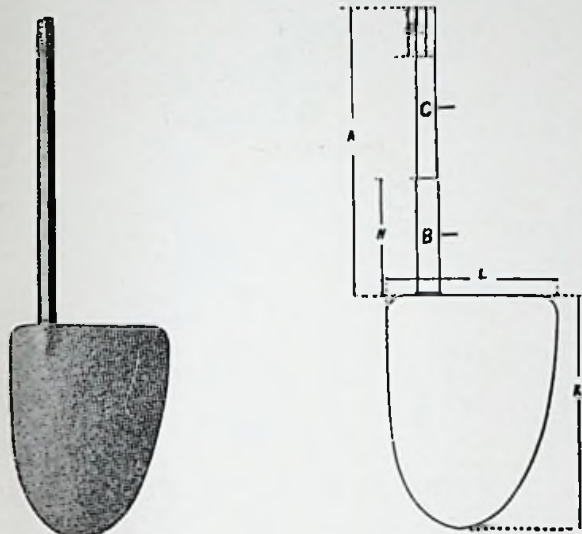


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a scag.

DIMENSIONS, INCHES

No.	A	B	C	I	K	L	N	Price Each
1	16	1	1/8	3	12	9	9	10.25
2	18	1 1/8	1/8	3	14	10 1/2	9 1/2	12.80
3	18	1 1/4	1/8	4	16	12	10	14.50
4	24	1 3/8	1 3/8	4	18	13 1/2	10 1/2	20.25
5	24	1 1/2	1 1/2	4	20	15	11	28.00
6	30	1 3/4	1 3/4	4	22	16 1/2	11 1/2	41.00
7	36	2 1/8	2	5	24	18	12	56.00
8	40	2 1/4	2	5	26	20	12 1/2	70.00

Launch and Cruiser Rudders

CAST MANGANESE BRONZE



Fig. 816

Blade Size Inches	Blade Thickness Inches	Diam. of Stock inches	Total Length of Stock, Ins.	Longer Stocks Per Inch	Price Each
12 x 12	1/4	1	12	\$.12	\$10.25
14 x 14	1/4	1	12	.12	13.75
16 x 16	1/4	1	12	.12	16.00
18 x 16	1/4	1	12	.12	17.00
18 x 18	1/4	1	12	.12	19.00
20 x 18	1/4	1 1/4	18	.20	21.00
20 x 20	1/4	1 1/4	18	.20	24.00
22 x 18	1/4	1 1/4	18	.20	24.00
22 x 20	3/8	1 1/4	18	.20	32.00
22 x 22	3/8	1 1/4	18	.20	33.00
24 x 20	3/8	1 1/4	18	.20	33.00
24 x 22	3/8	1 1/4	18	.20	33.50
24 x 24	3/8	1 1/4	18	.20	34.50
24 x 26	3/8	1 1/2	22	.24	50.00
26 x 26	3/8	1 1/2	22	.24	50.00

Bronze Rudder Ports

WITH STUFFING BOX



For Diam. Stock Inches	Price Each
1	\$5.50
1 1/8	6.00
1 1/4	7.50
1 3/8	8.00
1 1/2	9.00

Fig. 814

Rudder Shoes or Skags

CAST MANGANESE BRONZE

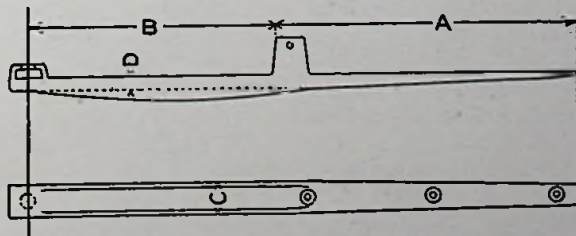


Fig. 817

DIMENSIONS, INCHES

No.	A	B	C	D	Price Each Plain
1	18	14	2	1/4	\$ 6.50
2	20	15	2 1/4	1/8	7.50
3	21 1/2	16	2 1/2	3/8	10.00
4	24	17	2 3/4	1/2	12.00
5	26	18	3	1/2	15.00
6	28	20	3	1/2	18.00

Special sizes and styles furnished to order, send sketch.

Bronze Rudder Collars

For Diam. Stock Inches	Price Each
1	\$1.00
1 1/8	1.00
1 1/4	1.25
1 3/8	1.50
1 1/2	1.80



Fig. 815

Galvanized Rudders
GALVANIZED FORGED STEEL



Fig. 647

Size No.	Galv. Each	Size Plate Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Each Pounds
0	\$ 5.00	12x12x $\frac{1}{8}$	40	$\frac{3}{4}$	11
1	6.00	14x14x $\frac{1}{8}$	42	$\frac{3}{4}$	13
2	8.50	16x16x $\frac{1}{8}$	48	1	25
3	11.00	18x18x $\frac{1}{8}$	52	1	35

Quadrant Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 651

Radius Inches	Galv. Each	Plain Bronze Each	Square Hole Adjustable Inches	Weight Each (Iron) Pounds
7	\$2.00	\$5.00	$\frac{1}{8}$ to $\frac{3}{4}$	3
10	3.50	7.00	$\frac{1}{8}$ to 1	5 $\frac{1}{4}$
12	5.00	10.00	$\frac{3}{4}$ to $1\frac{1}{4}$	8 $\frac{1}{2}$
15	7.50	14.00	$\frac{3}{4}$ to $1\frac{1}{4}$	13
18	13.00	24.00	1 to $1\frac{3}{8}$	27
24	25.00	45.00	$1\frac{1}{2}$ to $1\frac{3}{4}$	46

Rudder Stuffing Boxes

CAST BRONZE



Fig. 499

Size No.	For Rudder Post Diameter Inches	Weight Each Ounces	Price Each
0	$\frac{3}{4}$	6	.50
1	$\frac{3}{4}$	6	.50
2	1	7	.60
3	$1\frac{1}{4}$	7	.90

Rudder Skags
DROP FORGED STEEL AND BRONZE

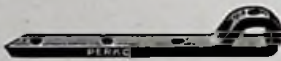


Fig. 649

Size No.	Galv. Each	Plain Bronze Each	Dimensions Inches	For Rudder Post Diameter Inches	Weight Each Pounds
0	\$2.00	\$4.00	24x1 $\frac{1}{2}$ x $\frac{3}{8}$	$\frac{3}{4}$	4 $\frac{1}{2}$
1	3.00	7.00	30x1 $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{3}{4}$	9
2	5.00	14.00	42x2x $\frac{5}{8}$	1	17

Straight Tillers

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 650

Length Inches	Galv. Each	Plain Bronze Each	Size of Square Hole Inches	Weight Each (Iron) Pounds
8	\$1.10	\$2.00	$\frac{1}{8}$ x $\frac{1}{8}$	1
10	1.25	2.25	$\frac{1}{8}$ x $\frac{1}{8}$	1 $\frac{3}{4}$
12	1.75	2.50	$\frac{3}{4}$ x $\frac{3}{4}$	2 $\frac{1}{8}$
15	2.25	5.00	$\frac{1}{8}$ x $\frac{3}{8}$	3 $\frac{1}{2}$

Oar Leathers and Buttons

RUSSET LEATHER



Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

Item	Dimensions	Price Per Pair
Leathers Only	7x6 $\frac{1}{2}$ Inches	\$.60
Buttons Only	$\frac{1}{2}$ x8 $\frac{1}{2}$ Inches	.30

Rudder Pipes
GALVANIZED STEEL AND BRASS



Fig. 652

Size No.	Galv. Each	Brass Each	Length Inches	Weight Each Pounds
0	\$1.00	\$2.25	12	1 $\frac{3}{8}$
1	1.00	2.25	12	1 $\frac{3}{8}$
2	1.50	3.50	15	2
3	1.75	4.50	18	2 $\frac{1}{2}$

Copper Oar and Paddle Tips

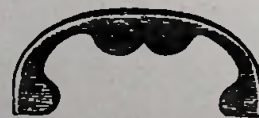


Fig. 794



Fig. 850

Made of soft sheet copper, will fit any oar and paddle.
Fig. 794 Oar Tips—Price per Pair.....\$0.25
Fig. 850 Paddle Tips—Price Each......15



Strap Rudder Braces

GALVANIZED MALLEABLE IRON

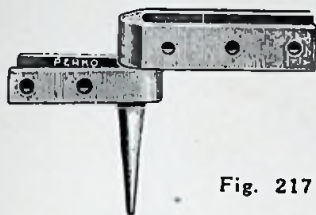


Fig. 217

Size No.	Per Set Complete	Pintles Only Pair	Straps Only Pair	Between Straps Inches	Weight Per Set Pounds
00	\$.50	\$.30	\$.20	3/8	3/4
0	.65	.36	.30	3/4	1
1	1.00	.60	.40	7/8	1 1/2
2	1.30	.80	.50	1	2
3	1.60	1.00	.60	1 1/4	2 7/8
4	2.30	1.50	.80	1 1/2	4 1/4

Set consists of two Pintles and two Straps.

Sliding Rudder Fittings

CAST BRONZE



Fig. 552

For use on dinghys and small sail boats. Rudder can be quickly and easily attached or removed. The rudder slides on a cast bronze track which has a stop at the bottom.

Per Set	Between Straps Inches	Width Track Inches	Length Track Inches
\$3.25	3/8	1	18

Screw Rudder Braces

GALVANIZED MALLEABLE IRON

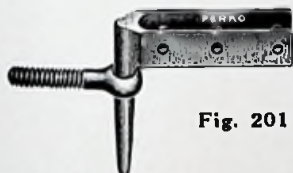


Fig. 201

Size No.	Per Set Complete	Pintles Only Pair	Gudgeons Only Pair	Between Straps Inches	Weight Per Set Pounds
1	\$.40	\$.30	\$.10	3/8	3/8
2	.50	.36	.14	3/4	3/4
3	.80	.60	.20	7/8	1
4	.90	.75	.28	1 1/8	1 1/2

Bronze Rudder Braces

CAST BRONZE—PLAIN

Pintle

Strap Gudgeon



Fig. 1070



Fig. 1071

Plate Rudder Braces

GALVANIZED MALLEABLE IRON



Fig. 743

Plate Gudgeon



Fig. 1072

Plate Gudgeon



Fig. 1073

DESIGNED FOR SQUARE STERN BOATS

Size No.	Price Per Set	Plates Only Per Pair	Straps Only Per Pair	Opening Between Straps Inches	Est. Wt. Per Set in Lbs.
1	\$.50	\$.20	\$.30	3/8	3/4
2	.65	.30	.36	3/4	1
3	1.00	.40	.60	7/8	1 3/8
4	1.30	.50	.80	1	2 1/8

Set consists of Two Plates and Two Pintles

Screw Gudgeon



Fig. 1074

No.	Between Straps Inches	Fig. 1071 Pintles Each	Fig. 1070 Strap Gudgeon Each	Fig. 1073 Plate Gudgeon Each	Fig. 1073 Plate Gudgeon Each	Fig. 1074 Screw Gudgeon Each
0	1/2	\$.25	\$.22	\$.15	\$.15	\$.08
1	3/8	.30	.25	.20	.20	.10
2	3/4	.35	.28	.25	.25	.15

Ribbed Socket Rowlocks

GALVANIZED—MALLEABLE AND CAST IRON



Fig. 638

GALVANIZED CAST IRON

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.25	\$.15	\$.15	1 3/4	1 1/8
1	.28	.18	.15	2	1 1/4
2	.40	.30	.20	2 1/4	1 3/4
3	.70	.50	.30	2 1/2	2 3/4

GALVANIZED MALLEABLE IRON

1	.45	.30	.25	2	1 1/4
2	.60	.40	.35	2 1/4	1 3/4

Standard Socket Rowlocks

GALVANIZED MALLEABLE IRON



Fig. 639

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
1 1/2	.60	.45	.25	2 1/8	1 1/2
2	.70	.50	.35	2 1/4	1 3/4
3	1.00	.70	.50	2 1/2	2 3/8
4	1.25	.95	.50	3	3 3/8

Swivel Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 640

GALVANIZED

Size No.	Complete Per Pair	Horns Only Per Pair	Plates Only Per Pair	Opening Inches	Weight Per Pair Pounds
1	\$1.25	\$.70	\$.70	2	2
2	1.50	.85	.85	2 1/4	2 1/2

CAST BRONZE

Size No.	Plain Complete Per Pr:	Polished Complete Per Pr:	Horns Only		Plates Only	
	Per Pr:	Per Pr:	Plain Per Pr.	Pol. Per Pr.	Plain Per Pr.	Pol. Per Pr.
1	2.00	3.00	1.15	1.65	1.15	1.65

Davis Pattern Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 641

Size No.	Galv. Per pair	Plain Bronze Per pair	Polished Bronze Per pair	Opening Inches	Weight Per Pair Pounds
0	\$.95			1 3/4	2
1	.95	\$1.50	\$2.50	2	2
2	1.25			2 1/4	2 3/4

Round Socket Rowlocks

GALVANIZED IRON AND BRONZE



Fig. 642

GALVANIZED MALLEABLE IRON

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0	\$.50	\$.35	\$.25	2	1 1/8
1	.50	.35	.25	2 1/4	1 1/4
2	.65	.50	.25	2 1/2	1 1/2

GALVANIZED CAST IRON

1	.36	.20	.20	2 1/4	1 1/4
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PLAIN BRONZE

1	.80	.60	.30	2 1/4	1 1/4
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POLISHED BRONZE

1	1.75	1.25	.60	2 1/4	1 1/4
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North River Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 643

Opening Inches
2 3/8

Weight Per Pair Pounds
1 3/8

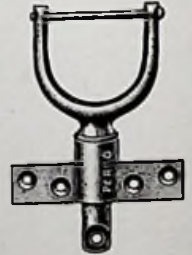


Fig. 644

	Complete Per Pair	Horns Only Per Pair	Per Pair Sockets Only
Galv., Fig. 643	\$.50	\$.35	\$.25
Pl. Bronze, Fig. 643	.80	.60	.30
Pol. Bronze, Fig. 643	1.75	1.25	.60
Galv. Fig. 644	.60	.35	.35

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Side Plate Rowlocks

GALVANIZED MALLEABLE IRON



Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.75	\$.50	\$.35	1 3/4	1 3/8
1	.75	.50	.35	2	1 3/4

Boat Hooks

GALVANIZED MALLEABLE IRON
CAST BRONZE
SHARP POINTS—SINGLE HOOK



Fig. 223

Size No.	For Diam. Pole Inches	Extreme Length Inches	Weight Each Ounces
0	1	7 1/4	7
1	1 1/4	8 1/4	8
2	1 1/2	9 3/8	16
3	2	9 3/4	23

Size No. Each	Galvanized Iron Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
0	\$.45	\$1.15	\$1.65	\$2.25
1	.55	1.30	1.80	2.40
2	.70	1.75	2.25	2.80
3	.85	2.50	3.00	3.60

Boston Side Plate Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 646

With Chain and Without Chain

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$.70	\$.35	\$.45	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.

BALL POINTS—SINGLE HOOK

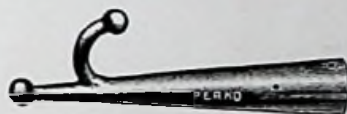


Fig. 224

Size No.	For Diam. Pole Inches	Extreme Length Inches	Weight Each Ounces
3 1/2	1	7 3/8	8
4	1 1/4	8 1/4	10
5	1 1/2	9 3/8	16
6	2	9 1/2	24

Size No. Each	Galvanized Iron Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3 1/2	\$.50	\$1.15	\$1.65	\$2.25
4	.55	1.30	1.80	2.40
5	.70	1.75	2.25	2.80
6	.90			

Boston Socket Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 545

With Chain and Without Chain

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$.50	\$.35	\$.25	1 3/4	7/8
1 Galv.	.50	.35	.25	2	1
0 Pl. Bronze	1.20	.80	.50	1 3/4	7/8
1 Pl. Bronze	1.20	.80	.50	2	1
0 Pol. Bronze	2.00	1.20	.90	1 3/4	7/8
1 Pol. Bronze	2.00	1.20	.90	2	1

With Chain for Galv., add 10c to above prices.
With Chain for Bronze, add 20c to above prices.

Boat Hook Poles

SELECTED



Fig. 928

Diameter Inches	Lengths Feet	Price Per Foot
1 1/8	6 to 8	\$.10
1 1/4	6 to 8	.12
1 3/8	6 to 10	.15
1 1/2	8 to 12	.16

PRICE DOES NOT INCLUDE ATTACHING HOOKS TO POLES

NOTE

Have you noticed greatly reduced prices on chromium plated items?

Above Rowlocks desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Boat Cleats

GALVANIZED IRON—CAST BRONZE
OPEN BASE

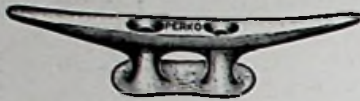


Fig. 544

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each
3½	\$.15	\$.10	\$.50	\$.70	\$.90
4	.20	.15	.60	.80	1.05
5	.25	.20	.70	.90	1.20
6	.30	.25	.90	1.10	1.40
8	.50	.40	1.35	1.75	1.95
10	1.00	.80	2.00	2.40	2.70
12	1.25	1.00	3.00	3.40	3.85
14	2.00	1.50	5.00	5.50	6.00
18		2.75			

Boat or Fender Cleats

GALVANIZED IRON AND BRONZE
SQUARE BASE



Fig. 583

Length Inches	Mall. Iron Each	Cast Iron Each	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each	Weight Each Ounces
2	\$.12	\$.06	\$.35	\$.40	\$.65	1
2¼			.35	.40	.65	1½
3	.19	.11	.60	.75	.95	2½
4	.43	.27	.85	1.05	1.25	5
5	.48	.33	1.15	1.35	1.65	9
6	.70	.50	1.50	1.75	2.00	16

Hollow Cleats

CLOSED ENDS
CAST BRONZE



Fig. 572

Length Inches	Weight	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
4½	8 oz.	\$1.10	\$1.30	\$1.60
5½	9 oz.	1.20	1.40	1.80
6½	10 oz.	1.30	1.55	1.95
8	20 oz.	1.75	2.00	2.45
10	2 lbs.	3.00	3.50	3.80
12	3 lbs.	4.25	4.75	5.10

Canoe Cleats

CAST BRONZE



Fig. 763

Size No.	Length Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	2¾	\$.35	\$.55	\$.65
2	2¾	.50	.70	.80

Round Base Cleats

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 1044

Length Inches	Galvanized Each	Polished Brass Each	Chromium Plated Each	Diameter Base Inches
1¾		\$.35	\$.65	1½
2¼	\$.12	.40	.70	1¾
3	.15	.50	.85	1¾
3½	.20	.80	1.20	1¾

Awning Cleats

CAST BRONZE



Fig. 927

Length Inches	Per 100 Pieces	Weight Per 100 in Lbs.
4½	\$ 4.50	4¾
6	6.50	8¾
8	10.00	13¾

Fender Hooks

CAST BRONZE AND NICKEL SILVER



Fig. 547

Length Overall Inches	Width Overall Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1¾	1¼	\$.40	\$.55	\$.70

Flag Pole Cleats

CAST BRONZE



Fig. 584

For attaching to side of bow or stern flag pole. A neat little fitting that has long been desired.

Length Overall Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches
1¾	\$.35	\$.45	\$.65	¾ x ¾

Beveled Bow Chocks

GALVANIZED AND CAST BRONZE



Fig. 546

Length Overall Inches	Width Inches	For Diam. Rope Inches
3	5/8	3/8
4	3/4	1/2
5	7/8	5/8-3/4
6	1 1/8	7/8
8	1 3/8	1
10	1 3/4	1 1/4
12	2 1/2	1 3/4
15	3	2
18	3 1/4	2 1/4

Length Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair
3	\$.35	\$ 1.30	\$ 1.70	\$ 2.00
4	.40	1.50	1.90	2.40
5	.50	2.00	2.40	3.10
6	1.00	2.50	2.90	3.70
8	1.60	4.00	4.50	5.30
10	2.40	6.50	7.25	8.00
12	4.75	11.50	12.50	14.00
15	9.50			
18	14.00			

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 5/8	1 1/2	5
5	10 1/2	2	2	8

Size No.	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair
1	\$2.00	\$2.40	\$3.00
2	3.00	3.50	4.00
3	5.00	5.50	6.25
4	7.00	7.75	8.50
5	10.50	11.50	12.50

Straight Stern Chocks

GALVANIZED AND CAST BRONZE



Fig. 119

Length Inches	Width Inches	For Diam. Rope Inches
4	1 1/8	5/8
5	1 3/8	3/4
6	1 1/2	3/4
8	1 5/8	3/4
10	2 1/4	1 1/4
12	2 5/8	1 3/8
15	2 7/8	1 5/8
18	3 3/4	1 3/4
		2

Length Inches	Galv. Iron Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each
4	\$.18	\$.75	\$1.00	\$1.20
5	.30	1.00	1.25	1.55
6	.43	1.25	1.50	1.85
8	1.10	2.00	2.50	2.65
10	1.30	3.50	4.00	4.25
12	2.25	6.00	6.50	7.25
15	4.25			
18	7.10			

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	4	3/8	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	Nickel Plated Each	Chrom. Plated Each
11	\$.90	\$1.15	\$1.40
12	1.50	1.75	2.00
13	3.00	3.50	3.65
14	6.50	7.00	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	Chrom. Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$ 7.50	\$ 9.50	10	1	1 1/8	1
2	9.00	12.00	11 1/4	1 1/4	2 1/4	1 1/4
3	12.00	15.00	11 1/4	1 1/2	2 1/2	1 1/2

Bulwark Stern Chocks

CAST BRONZE—POLISHED



Fig. 769

No.	Polished Bronze Each	Chrom. Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$4.50	\$5.50	9 1/4	1 3/8	2 3/8	1 1/2
2	6.50	8.00	11 1/2	1 3/4	3	1 3/4

Streamline Fittings

Are made of the highest grade of bronze castings. These fittings all follow the same design and will match all other "Perko" streamline items on the deck, such as running lights, flagpole sockets, ventilators, etc. They will add to the appearance of any boat and are good, strong, practical fittings in use.

Streamline Cleat CAST BRONZE



Fig. 114

Length Overall Inches	Size Base Inches	For Rope Diameter Inches	Chromium Plated Each
2½	1 x 2	Up to ½	\$1.10
3½	1¼ x 2¾	Up to ¾	1.35
4½	1½ x 3¼	Up to 1	1.75
5½	1¾ x 4		2.25

Length Inches	Polished Bronze Each	Nickel Plated Each
2½	\$.70	\$.95
3½	.90	1.15
4½	1.25	1.50
5½	1.65	1.90

Streamline Stern Chock CAST BRONZE OPEN PATTERN



Fig. 116

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Each
3	¾	Up to ½	\$1.00
4	1	Up to ¾	1.15
5	1½	Up to 1	1.60
6	1¾		1.90

Length Inches	Polished Bronze Each	Nickel Plated Each
3	\$.65	\$.85
4	.75	.95
5	1.10	1.30
6	1.40	1.80

Streamline Bow Chocks CAST BRONZE OPEN PATTERN



Fig. 115

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Per Pair
3½	¾	Up to ½	\$2.00
4½	1	Up to ¾	2.30
5½	1½	Up to 1	3.20
6½	1¾		3.80

Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair
3½	\$1.30	\$1.60
4½	1.50	1.80
5½	2.20	2.50
6½	2.80	3.10

Streamline Stern Chocks CLOSED PATTERN



Fig. 118

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Each
3	¾	Up to ¾	\$1.15
4	1	Up to 1	1.40
5	1½	Up to 1½	1.95
6	1¾		2.35

Length Inches	Polished Bronze Each	Nickel Plated Each
3	\$.75	\$1.00
4	1.00	1.25
5	1.40	1.65
6	1.75	2.15

Streamline Bow Chocks CLOSED PATTERN



Fig. 117

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Chromium Plated Per Pair
3½	¾	Up to ¾	\$2.30
4½	1	Up to 1	2.90
5½	1½	Up to 1½	3.90
6½	1¾		4.70

Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair
3½	\$1.50	\$1.90
4½	2.00	2.40
5½	2.80	3.30
6½	3.50	4.00

Ship Cleats

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Self Colored Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$.60	\$.50	4 1/4 x 2 1/4	1/8	3
10	1.10	.90	4 3/4 x 2 1/2	1/2	5 3/4
12	1.80	1.45	6 7/8 x 3	3/8	10
15	2.50	2.00	7 1/4 x 3 1/2	3/4	14
18	3.40	2.30	7 1/2 x 4	3/4	20 1/4
24	5.50	3.70	8 1/2 x 4 3/8	7/8	35
30	3.75	5.75	10 3/4 x 5 1/2	1	73
36	15.50	10.50	13 x 7 1/4	1 1/4	117

Ring Buoy Holders

CAST BRONZE



Fig. 1017

A substantial bronze hook or holder for all sizes of ring buoys. Especially designed for carrying ring buoys on outside of deck house or superstructure.

The natural spring tension of the hook holds the buoy fast but ready for instant use.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Width Mounting Plate Inches	Height Overall Inches	Weight Each Pounds
\$1.20	\$1.40	\$1.60	3	4 1/2	1 1/2

Closed Straight Chocks

GALVANIZED CAST IRON AND CAST BRONZE



Fig. 163

Length Inches	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Weight Each Pounds
4	\$.22	\$1.00	\$1.25	\$1.50	1/10
6	.55	1.60	1.85	2.20	1 1/2
8	1.35	2.25	2.75	3.00	3 3/8
10	1.60	3.75	4.25	4.75	6 3/4
12	2.30				9
15	4.10				16
18	6.50				28

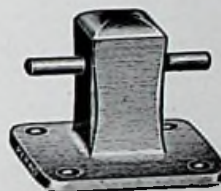


Fig. 608

No.	Size Base Inches	Height Inches	Net Weight Lbs
1	3 x 3	2 1/2	7 1/2
2	4 1/2 x 4 1/2	3 1/2	1 1/2
3	6 x 6	5	5 1/2
4	7 x 7	6 1/2	12

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$2.00	\$2.50	\$3.00
2	3.50	4.00	4.75
3	6.75	7.25	8.25
4	12.75	14.75	14.50

Streamline Mooring Bitt

CAST BRONZE

A very fine looking yet practical mooring bitt for the better class of outboard motor boats and runabouts. Streamlined base gives racy appearance and matches other streamline fittings on the boat.



Fig. 354

Length Base Inches	Width Base Inches	Height Overall Inches	Weight Ounces
3 3/4	2 1/4	2 1/2	8

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.75	\$2.00	\$2.50

Improved Riding Bitts

GALVANIZED CAST IRON AND POLISHED BRONZE



Fig. 926

Size No.	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Height Inches	Size Base Inches	Bored for Bolt Diam. Inches
00	\$1.20	\$3.10	\$4.35	3 1/2	2 1/2 x 2 1/2	1/4
0	1.80	4.50	6.00	4 1/2	3 x 3	1/8
01	2.40	6.00	7.80	5 3/4	3 1/2 x 3 1/2	3/8
1	3.70	9.00	11.00	7	4 1/2 x 6	1/2
1 1/2	6.75	12.50	15.00	8 1/2	5 x 6	5/8
2	9.25	17.50	20.00	10	5 1/2 x 8 1/2	3/4

Bow Plates

CAST BRONZE AND ALUMINUM



Fig. 494



Fig. 181

Size Plate Inches	Fig. 494 Diam. Eye Inches	Fig. 181 Diam. Eye Inches	Weight Bronze Oz.	Weight Aluminum Oz.
4 1/8 x 4 3/8	1/2	3/4	10	2 1/2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each		Polished Aluminum Each
\$1.00	\$1.30	\$1.70		\$1.00

Combination Bow Plate

CAST BRONZE

A bow plate and bow chock combined—small size for outboard motorboats—large size for runabouts.



Fig. 543

No.	Length Inches	Width Inches	Diam. Rope Inches	Weight Oz.
1	3 3/4	4 1/4	Up to 1 1/2	11
2	3 3/4	4 1/4	Up to 1	15
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
1	\$2.50	\$2.75	\$3.00	
2	2.75	3.00	3.35	

Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	Weight Per 100 in lbs.
1	\$.40	1 1/8 x 1 1/2	2 x 2 x 1/8	33
2	.50	3/8 x 2	2 x 2 x 1/4	50

Ring on Plate

STREAMLINE PATTERN CAST BRONZE



Fig. 182

No.	Length Base Inches	Width Base Inches	Size of Ring Inches	Weight Oz.
1	2 3/4	1 1/2	1 1/4	4
2	3 1/4	1 3/8	1 1/2	6
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
1	\$.80	\$1.05	\$1.25	
2	.95	1.20	1.50	

Ring and Deck Strap

CAST BRONZE



Fig. 183

Size Ring Inches	Length Strap Inches	Width Strap Inches	Weight Oz.
1/4 x 1 1/2	3	5/8	4
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.50	\$.70	\$.90	\$1.10

Rings with Straps

GALVANIZED MALLEABLE IRON

AND CAST BRONZE

HEAVY PATTERN



Fig. 1020

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Size Ring Inches	Size Plate Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches
1	\$.30	\$.50	\$.80	\$1.20	1/4 x 1 1/2	4 1/4 x 3/4	\$.50	\$.70	\$.90	1 1/2 x 1 1/2	2
2	.35	.60	.85	1.30	1/4 x 3/4	4 1/4 x 3/8					

Ring With Strap

CAST BRONZE



Fig. 1004



Lifting Ring

WITH ROUND BASE
CAST BRONZE

Made in two sizes, No. 1 for outboard boats, No. 2 for runabouts.



Fig. 187



Fig. 188

No.	Height Overall Inches	Diam. Eye Inches	Diam. Base Inches	Threaded for Rod Inches	Weight Lbs.
1	3	1 1/8	2	5/8	1/2
2	4 1/2	2	2 1/2	5/8	1

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$1.50	\$1.70	\$2.10
2	2.00	2.30	2.55

Bow Eyes

CAST BRONZE

A very handy fitting for the bow of small boats, used for tying up or towing.



Fig. 303

No.	Metal in Eye Inches	Length of Straps Inches	Extreme Length Inches	Inside Diam. Eye Inches
1	3/8	1 1/4	3	3/4
2	1/2	2 3/8	3 3/8	7/8

No.	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$.45	\$.65	\$.85	\$1.00
2	.65	.85	1.05	1.30

Hatch Handle

CAST BRONZE AND ALUMINUM

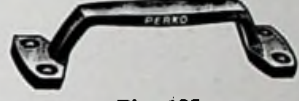


Fig. 185

Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Oz.
5	1 1/2	3 1/4 x 1	6

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Polished Aluminum Each
\$.70	\$.95	\$1.05	\$.75

Lifting Ring and Cleat

WITH RECTANGULAR BASE
CAST BRONZE



Fig. 542

No.	Length Overall Inches	Height Overall Inches	Diam. Eye Inches	Size Base Inches	Threaded for Rod Inches	Weight
5	4	2 3/8	1 1/8	1 1/2 x 2 1/2	5/8	13 oz.
6	6 1/2	3 3/4	2	2 1/4 x 4 1/4	1	2 1/2 lbs.

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
5	\$2.50	\$2.80	\$3.25
6	3.50	4.00	4.50

Lifting Handle

CAST BRONZE AND ALUMINUM



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	Weight Oz.
6 1/2	2	1 1/4	3 3/4 x 1 1/4	12

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Polished Aluminum Each
\$1.00	\$1.35	\$1.50	\$1.00

Base for Lifting Rings

CAST BRONZE—PLAIN

Designed for fastening to keel of boat by bolts, holes are drilled for 3/8 inch diameter bolt.



Fig. 446

No.	Each	Size Base Inches	Height Inches	Threaded for Rod Inches	Weight Oz.
1	\$.60	3 x 1 3/8	1 1/2	5/8	7
2	1.00	4 1/4 x 2 1/8	1 1/4	1	15

Bow Ring

CAST BRONZE

A dandy tie ring on rowboats, canoes, and outboard motor boats. Bolts through bow stem, cannot pull out, will take rope up to 1/2 inch.



Fig. 210

I. D. Ring Inches	Size Base Inches	Size Bolt Inches
1	2 1/4 x 1 1/2	4 x 1/8

Plain Each	Polished Each	Nickel Plated Each	Chromium Plated Each
\$.70	\$.85	\$1.00	\$1.15

Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for end or center of rail. Please specify by Fig. No. below when ordering.



Fig. 614—For End
Fig. 615—For Center

Extreme Height Size of Post No. Inches	Bored For	Galv. Each	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each
1	2 3/8" Rod	.25	.70	\$1.00	\$1.20
1 1/2	2 1/4" Pipe	.25	.70	1.00	1.20
2	2 1/2 3/8" Rod	.35	.90	1.20	1.40
2 1/2	2 1/2 1/4" Pipe	.35	.90	1.20	1.40
3	3 5/8" Rod	.50	1.25	1.65	1.85
3 1/2	3 3/8" Pipe	.50	1.25	1.65	1.85
5	4 3/4" Rod	.80	2.60	3.00	3.10
5 1/2	4 1/2" Pipe	.80	2.60	3.00	3.10

Stanchion Posts

GALVANIZED CAST IRON AND BRONZE

Made for corner of rail or bow of boat. Specify by Fig. No. below when ordering.



Fig. 616—For Corner
Fig. 617—For Bow

Extreme Height Size of Post No. Inches	Bored For	Galv. Each	Pol. Bronze Each	Nickel Plated Each	Chrom. Plated Each
1	2 3/8" Rod	.40	\$1.00	\$1.30	\$1.50
1 1/2	2 1/4" Pipe	.40	1.00	1.30	1.50
2	2 1/2 3/8" Rod	.50	1.10	1.40	1.60
2 1/2	2 1/2 1/4" Pipe	.50	1.10	1.40	1.60
3	3 5/8" Rod	.65	1.40	1.80	2.00
3 1/2	3 3/8" Pipe	.65	1.40	1.80	2.00
5	4 3/4" Rod	1.00	2.80	3.20	3.40
5 1/2	4 1/2" Pipe	1.00	2.80	3.20	3.40

Hand Rail Sockets

FOR WOOD RAIL—CAST BRONZE



Fig. 215

Made for end or center of rail of high grade bronze. Base can very easily be shaped to fit the crown of the deck.

For Rail Diam. Inches	Extreme Height Inches	Size of Base Inches	Weight Each Ounces
1	1 3/4	5/8 x 3 1/2	5
1 1/4	2	3/4 x 3 3/4	9

Pol. Bronze		Nickel Plated		Chrom. Plated	
Center Each	End Each	Center Each	End Each	Center Each	End Each
1 \$.85	\$1.00	\$1.25	\$1.40	\$1.50	\$1.75
1 1/4 1.00	1.25	1.40	1.65	1.65	2.00

Please specify center or end and size when ordering.

Awning Sockets

CAST BRONZE—FOR ROD AND PIPE



Fig. 247

Diam. Rod Inches	For Pipe Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1/2		\$.50	\$.75	\$1.05	\$1.30
5/8	3/8	.55	.80	1.10	1.40
3/4	1/2	.60	.90	1.30	1.50
7/8		.65	.95	1.35	1.55
1	3/4	.70	1.15	1.65	1.90
	1	1.25	1.75	2.25	2.50

Floor Flanges

CAST BRONZE—FOR PIPE



Fig. 824

Pipe Size Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	O. D. Flange Inches
3/8	\$.55	\$.85	\$1.15	\$1.35	2 1/4
1/2	.60	.90	1.20	1.40	2 1/2
3/4	.75	1.10	1.40	1.60	3
1	1.00	1.30	1.70	1.90	3 1/4
1 1/4	1.25	1.60	2.00	2.20	3 3/4
1 1/2	1.50	1.90	2.40	2.70	4
2	2.20	2.70	3.20	3.50	4 5/8



Rail Hinge

CAST BRONZE

Made to fit standard hand rail on high class yachts and cruisers.



Fig. 122

No.	Size Rail Inches	Length Inches	Weight Lbs.
1	1 1/2 x 2 1/2	5	1 3/4
2	1 3/8 x 3	3 3/4	1 1/4

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$3.50	\$4.00	\$4.50
2	3.50	4.00	4.50

Grab Rails

Made of heavy brass tubing with cast bronze posts.

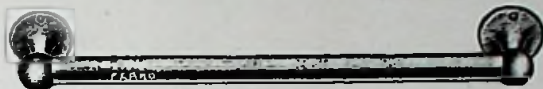


Fig. 379

Length Between Posts Inches	Diameter of Bar			
	1 Inch		1 1/4 Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$2.50	\$3.00	\$2.75	\$3.30
8	2.65	3.25	3.00	3.65
12	2.85	3.70	3.25	4.15
18	3.00	4.00	3.50	4.50
24	3.25	4.50	3.75	5.00
30	3.50	5.00	4.00	5.50
36	3.75	5.25	4.25	5.75
42	4.00	5.80	4.50	6.30

Can be furnished with middle post and in special lengths or nickel plated if desired. Price on application.

Flush Rail Lock

CAST BRONZE

Lies flush with top of rail when closed. Strong spring catch on bottom to hold rail end in position. A very practical fitting.

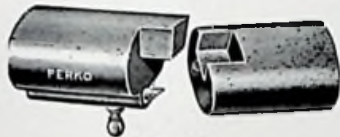


Fig. 123

No.	Size Rail Inches	Length Inches	Weight Lbs.
1	1 1/2 x 2 1/2	5	1 1/4
2	1 3/8 x 3	3 3/4	1 1/4

No.	Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
1	\$3.50	\$4.00	\$4.50
2	3.50	4.00	4.50

Grab Rail Posts

CAST BRONZE—HOLLOW



Fig. 380

Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Per Pair Pounds
2 1/2	3 3/4	1 or 1 1/8	1 1/2

	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
	\$2.00	\$2.50	\$3.20

Streamline Flag Pole Socket

CAST BRONZE

Designed for the better class of runabouts. These sockets will match all other "Perko" streamline deck fittings.



Fig. 222

Diam. Socket Inches	Size Flange Inches	Depth Socket Inches	Weight Lbs.
1 1/4	2 3/4 x 5	2 1/2	1 1/4

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	\$2.00	\$2.50	\$3.00

Transom Flag Pole Socket

CAST BRONZE

Designed for outboard motor boats or runabouts that have no decking in stern for regular type of socket.



Fig. 225

Diam. Socket Inches	Depth Socket Inches	Length Base Inches	Width Base Inches	Weight Oz.
3/4	1 1/4	3 3/8	1 1/2	8

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	\$1.00	\$1.25	\$1.60

Upright Flag Pole Socket

ROUND BASE—WITH FERRULE
CAST BRONZE



Fig. 220



Fig. 221

Inside Diam. Inches	Diam. Base Inches	Inside Diam. Ferrule Inches	Height Inches	Weight Ounces
1/2	1 3/8		1 3/8	4
5/8	1 5/8		1 3/8	5
3/4	2 1/8	1 1/4	1 3/4	7
7/8	2 3/8	1 1/2	1 7/8	8
1	2 1/2	1 3/4	2	8 1/2
1 1/4	2 3/4	1 7/8	2 1/8	11
1 1/2	3	1 7/8	3	16

Inside Diam. Inches	Polished Bronze. Each	Nickel Plated Each	Chromium Plated Each
1/2	\$.75	\$.90	\$1.05
5/8	.85	1.00	1.15
3/4	1.00	1.15	1.30
7/8	1.25	1.40	1.60
1	1.35	1.55	1.70
1 1/4	1.75	1.95	2.15
1 1/2	2.25	2.50	2.75

1/2 inch and 3/4 inch furnished without ferrule.

Upright Flag Pole Socket

SQUARE BASE—NO FERRULE
GALVANIZED CAST IRON



Fig. 570



Fig. 571

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.

Utility Flag Pole Socket

CAST BRONZE

Oval flange takes up very little space on deck. Furnished with set screw for tightening up on flag pole.



Fig. 635

Inside Diameter Inches	Size Flange Inches	Depth Socket Inches	Weight Ounces
1 1/4	2 7/8 x 2 1/4	2 1/8	10

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.30	\$1.55	\$1.80

Flush Flag Pole Socket

WITH FERRULE
GALVANIZED CAST IRON—CAST BRONZE



Fig. 218



Fig. 219

Inside Diam. Inches	Diam. Flange Inches	Inside Diam. Ferrule Inches	Depth Socket Inches	Weight
1/2	1 1/2		1 1/4	2 oz.
3/8	1 3/4		1 3/8	2 1/2 oz.
3/4	2	1 1/4	1 1/2	4 1/2 oz.
7/8	2 1/8	1 1/2	1 5/8	4 3/4 oz.
1	2 3/8	1 3/4	1 3/4	6 oz.
1 1/4	2 5/8	1 7/8	2	10 oz.
1 1/2	3 1/8	1 7/8	2 3/8	1 lb.
1 3/4	3 3/8	1 7/8	3	1 1/8 lbs.
2	3 7/8	1 7/8	3 3/4	1 7/8 lbs.

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1/2		\$.65	\$.80	\$.95
3/8		.70	.85	1.00
3/4	\$.25	.75	.90	1.05
7/8		.85	1.00	1.20
1	.30	.90	1.05	1.25
1 1/4	.35	1.25	1.45	1.65
1 1/2	.60	1.75	2.00	2.25

1/2 inch and 3/4 inch furnished without ferrule.

Runabout Flag Pole Socket

CAST BRONZE

Unique design of flange makes this a good looking deck fitting. Complete with set screw for holding pole fast in place.



Fig. 541

Inside Diameter Inches	Size Flange Inches	Depth Socket Inches	Weight Ounces
1 1/4	3 1/2 x 3 1/2	2 1/2	12

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.50	\$1.75	\$2.00

Windshield Brackets

CAST BRONZE

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, and are tilted at a 50 degree angle.

V TYPE

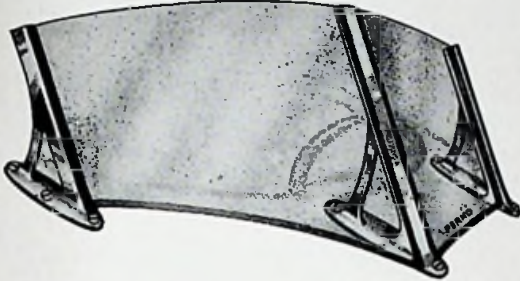


Fig. 665

Height of Center Brackets Inches	Height of End Brackets Inches	Length of Center Base Inches
9 1/2	7 1/2	7 3/4
Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
\$9.00	\$10.50	\$11.50

Height of brackets is figured perpendicular to bases. Prices do not include glass.

STRAIGHT TYPE



Fig. 666

Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set	Length Bases Inches	Height Inches
\$7.00	\$7.75	\$8.50	5 3/4	7

Rubber Insulation for Windshields



Fig. 667

Fig. 667—For bottom of windshields—per foot \$.20

Fig. 668—For windshield brackets—per foot.. .18



Fig. 668

Windshield Adjusters

CAST BRONZE

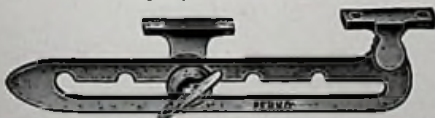


Fig. 82

No.	Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
1	6 1/2	\$5.00	\$6.00	\$7.00
2	9	6.00	7.00	8.00

Heavy Windshield Adjusters

CAST BRONZE

Designed for large windshields on cruisers. Well constructed and permits windshield to be set at any angle desired.



Fig. 1003

No.	Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
3	6 1/2	\$5.40	\$6.00	\$7.40
4	10	7.20	8.00	9.20

Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 189

Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.	Price Each
12 3/4	5	2 1/2 x 10	1 1/2	\$2.00

Aluminum Racing Fin

CAST SILICON ALUMINUM



Fig. 190

Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.	Price Each
9	5 1/4	2 x 9	14	\$2.00

Self Locking Gas Tank Cap

CAST BRONZE



Fig. 520

A half turn will open or lock cap in an instant. Locking device is indicated at A. Interior of neck below flange is threaded for 1 1/2 inch pipe.

Diameter Opening Inches	Diameter Flange Inches	Height Closed Inches	Weight Complete Pounds
1 1/2	3 1/4	1 1/4	1 1/4
Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set	
\$2.00	\$2.50	\$3.00	

Rope Swimming Ladders

WITH ROUND WOOD RUNGS



Made of 5/8 inch best grade manila rope with hardwood rungs in mahogany finish.

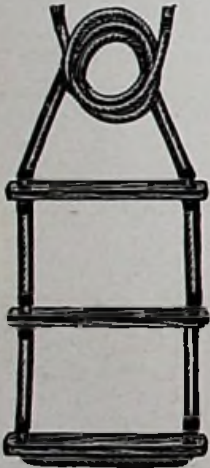
Furnished complete with lanyards 6 feet long for fastening on board and thimbles with light lanyard on lower end for tying down.

Price Per Step Complete	Distance Between Steps Inches	Size of Rungs Inches
\$1.00	12	14x1 1/4

Fig. 991

Rope Swimming Ladders

WITH FLAT WOOD STEPS



Made of 5/8 inch best grade manila rope with ash steps, varnished.

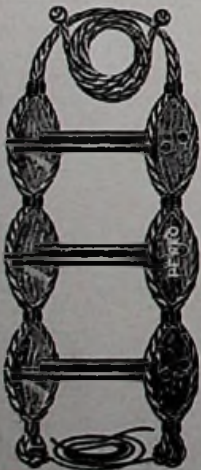
Furnished complete with lanyards 6 feet long for fastening on board.

Price Per Step Complete	Distance Between Steps Inches	Size of Steps Inches
\$1.50	12	20x3 3/4 x 3/4

Fig. 992

Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS



The finest boarding ladder on the market. Made of first grade 5/8 manila rope. Selected ash sides and steps, varnished.

Furnished complete with lanyards 6 feet long for fastening on board, and thimbles with light lanyard on lower end for tying down.

Distance Between Steps Inches	Size of Rungs Inches
12	14x1 1/8

Price per step complete\$2.50

Fig. 993

Chain Ladders

ALL METAL PARTS HOT GALVANIZED
HARDWOOD RUNGS

The regulations of the Steamboat Inspection Service require that suitable ladders be furnished for passengers to descend from deck to lifeboat.

These are so made that clothing can not catch in the chain, easy footing is secured on each step as the large discs keep the ladder away from the side of the ship.

This type of ladder stows neatly and does not require continual inspection.

Hardwood rungs have two coats of clear waterproof varnish.

Top ends furnished with heavy galvanized rings or shackles. Same fittings can be furnished on bottom ends as well if so desired at no extra cost.

Made up in any required length.

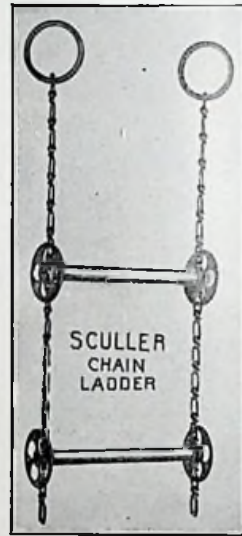


Fig. 431

Per Foot	Diam. Steps Inches	Between Steps Inches	Size Discs Inches	Size Rings Inches	Size Shackle Inches
\$1.85	1 1/4	13 1/2	5x1/8	6x1/2	1/2

Ladders furnished with rings unless otherwise specified.

Sounding Leads



Fig. 940

Furnished in all weights up to 50 pounds.

PRICE PER POUND \$.25

Lead Lines ITALIAN HEMP

Made of the finest Italian hemp and marked every fathom by the latest approved method.



Fig. 597

Length	Each
10 fathoms	\$ 4.50
15 fathoms	6.00
20 fathoms	7.25
30 fathoms	10.00



Ladder Locks

CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
1 1/4	1	1 3/4	12
Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set	
\$1.75	\$2.50	\$3.10	

A set consists of four pieces illustrated

Distress Outfits

FOR MOTOR BOATS AND SAIL BOATS
MOISTURE PROOF SIGNALS AND CONTAINERS
10 RED FLARE SIGNALS



Fig. 514

Many boat owners do not realize the importance of having distress signals on board ready for instant use until an emergency arises, then it is often too late.

This outfit should be on every boat and the extreme low price puts it within reach of every ones pocketbook.

This outfit consists of ten 2 minute moisture proof red flares packed in a moisture proof container.

Per Outfit Complete\$1.75

Ladder Hooks

CAST BRONZE



Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
12	4	2 1/2 x 3 3/8	4
Complete		Plates Only	
Pol. Bronze Per Set	Nickel Plated Per Set	Chrom. Plated Per Set	Pol. Bronze Per Pair
\$8.50	\$9.50	\$10.50	\$1.75
			\$2.25
			\$2.75

Dock Roller

FOR CANOES AND BOATS

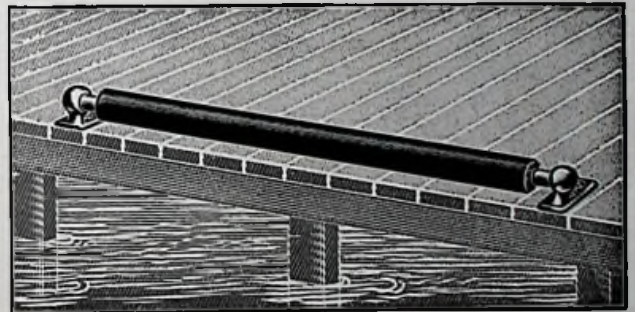


Fig. 400

An effective and simple means of rolling a canoe or boat from the water to the dock without damage. End posts are solid cast bronze.

HARD RUBBER ROLLER ON BRASS AXLE

Diam. Shaft Inches	Diam. Rubber Inches	Height Inches	Length Inches	Price
3/4	1 1/2	2	27	\$5.00
7/8	1 3/4	2 1/4	28	6.00
1	1 3/4	2 1/4	30	7.00
1	1 3/4	2 1/4	36	8.00

Ladder Hooks

CAST BRONZE

WITH FLUSH PLATES FOR DECK



Fig. 994

Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
10	3 3/4	3 1/4 x 2	4
Complete		Plates Only	
Pol. Bronze Per Set	Nickel Plated Per Set	Chrom. Plated Per Set	Pol. Bronze Per Pair
\$8.50	\$9.50	\$10.50	\$1.40
			\$1.90
			\$2.40

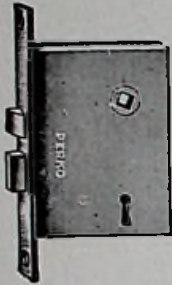
HARD WOOD ROLLER

Diam. Shaft Inches	Diam. Roller Inches	Height Inches	Length Inches	Price
3/4	1 1/2	2	27	\$3.00
7/8	1 1/2	2 1/8	28	3.50
1	1 1/2	2 1/4	31	4.00



Mortise Locks

CAST BRONZE—POLISHED



Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

No.	Each	Case Inches	Facing Inches	Backset Inches	Spindle Hub Inches
1	\$3.00	3 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 3 x 1/2	5 x 3/4	2 1/4	1 1/8

Rim Locks

CAST BRONZE—POLISHED



All bronze, with reversible latch bolt for right and left hand doors.

Furnished with polished bronze nosings and one brass bit key.

Fig. 1045

No.	Each	Size Case Inches	Spindle Inches	Backset Inches
1	\$3.00	2 1/2 x 2	5/16	1 1/2
2	3.25	3 3/4 x 2 1/2	5/16	1 3/8

Mortise Lock Sets

CAST BRONZE—POLISHED

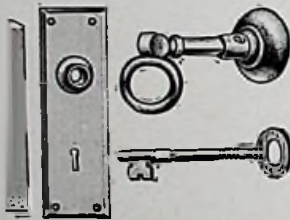


Fig. 945

Following shows mortise lock Fig. 944 numbers made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.80
Size No. 2, Price Per set	7.50

SET B

With Combination Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$6.80
Size No. 2, Price Per Set	7.50

SET C

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.00
Size No. 2, Price Per Set	7.00

SET D

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$6.00
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	2	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on application.

Extra keys for above locks furnished to order.

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices

Rim Lock Sets

CAST BRONZE—POLISHED

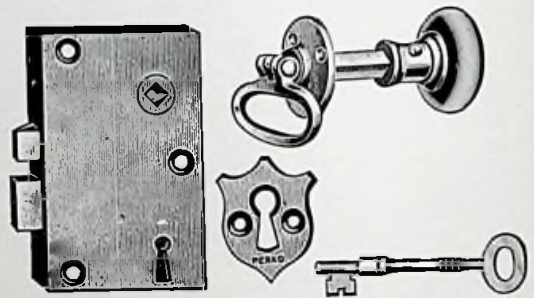


Fig. 1046

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	\$6.00
Size No. 2, Price Per Set	7.00

SET B

With Shield Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$5.80
Size No. 2, Price Per Set	6.80

SET C

With Shield Escutcheons and Two Round Knobs

Size No. 1, Price Per Set	\$5.60
Size No. 2, Price Per Set	6.60

For Set No.	Combination Escutcheon Inches	Diameter Round knob Inches	Shield Escutcheon Inches
1	4 3/8 x 1 1/8	2	1 1/2
2	6 x 1 1/2	2	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

FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

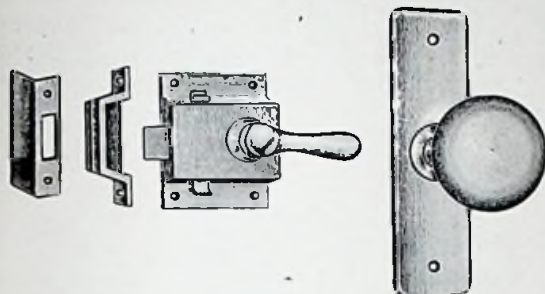


Fig. 1086

For cabin doors on small cruisers, inside and toilet doors on yachts, etc. Brass throughout. Reversible for right and left hand doors. Push type locking device. Round knob and lever handle. No keys.

Size Case Inches	Size Escutcheons Inches	Size Knob Inches	Backset Inches	For Thickness of Doors Inches
$2\frac{1}{4} \times 1\frac{7}{8}$	$4\frac{1}{2} \times 1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{2}$	$\frac{7}{8}$ to $1\frac{3}{8}$
Polished Brass Each		Chromium Plated Each		
\$3.30		\$4.95		

Brass Mortise Lock Set

FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

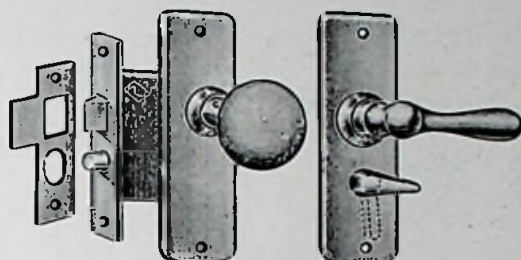


Fig. 1088

For small cabin and inside doors on all classes of cruisers and yachts. Brass throughout. Reversible for right and left hand doors. Lever type locking device. Round knob and lever handle. No keys.

No. 1 size for doors $\frac{5}{8}$ to $1\frac{3}{8}$ inches thick.
No. 2 size for doors $\frac{7}{8}$ to $1\frac{1}{2}$ inches thick.

No.	Size Case Inches	Size Face Inches	Size Escutcheons Inches	Size Knob Inches	Backset Inches
1	$2 \times 1\frac{1}{4} \times \frac{3}{8}$	$3\frac{1}{4} \times \frac{1}{16}$	$3\frac{3}{8} \times 1\frac{1}{16}$	$1\frac{3}{4}$	$\frac{7}{8}$
2	$2 \times 1\frac{3}{4} \times \frac{1}{16}$	$3\frac{1}{4} \times \frac{1}{16}$	$4 \times 1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{16}$
			Polished Brass Each	Chromium Plated Each	
			\$3.85	\$5.50	
			2	3.85	
			1	3.85	
			2	5.50	

Brass Mortise Lock Set

WITH 2 KEYS
FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

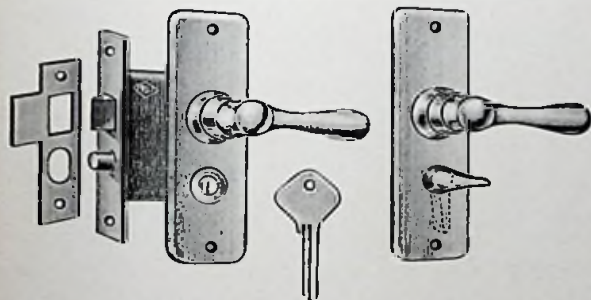


Fig. 1087

For inside and outside doors on cruisers and yachts. 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.

Size Case Inches	Size Face Inches	Size Escutcheons Inches	Length Levers Inches	Backset Inches
$2 \times 1\frac{7}{8} \times \frac{1}{16}$	$3\frac{1}{4} \times \frac{11}{16}$	$4 \times 1\frac{3}{8}$	2	$1\frac{1}{16}$
Polished Brass Each		Chromium Plated Each		
\$4.10		\$5.75		

Mortise Cylinder Lock Set

WITH 2 KEYS—ALL BRASS
POLISHED OR CHROMIUM PLATED

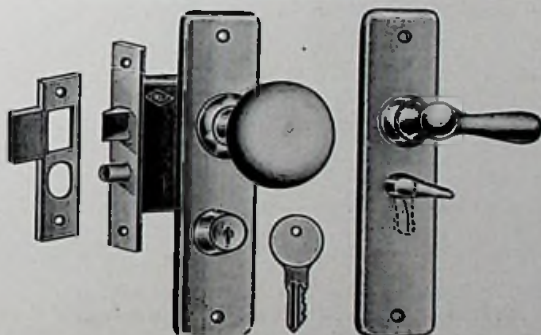


Fig. 1089

For inside and outside doors on cruisers and yachts. Reversible for right and left hand doors. With lever lock on one side and cylinder knob key lock on the other. Furnished with round knob and lever or with two levers. Can be keyed alike.

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
$2 \times 1\frac{3}{8} \times \frac{1}{16}$	$3\frac{1}{4} \times \frac{11}{16}$	$5\frac{1}{8} \times 1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{16}$
Polished Brass Each		Chromium Plated Each		
\$6.00		\$7.65		

Closet Rim Lock Sets
CAST BRASS—POLISHED

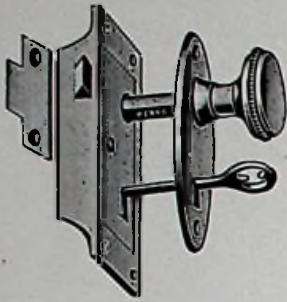


Fig. 1047

Each	Size Lock Inches	Diam. Knob Inches	Size Escutcheon Inches	Backset Inches
\$6.00	3 3/8 x 1 1/2	1 1/8	2 7/8 x 1 1/8	1

Made in right and left hand reverse bev-els.

Furnished with two cast brass keys.

Illustration shows right hand reverse bevel lock.

Specify—Right or Left Hand

Shield Escutcheons
CAST BRASS—POLISHED



Fig. 946

Showing the type of escutcheon fur-nished with lock sets C and D.

No.	Each	Size Inches
1	\$.20	1 1/2
2	.20	1 3/4

Barrel Bolts
CAST BRASS—POLISHED

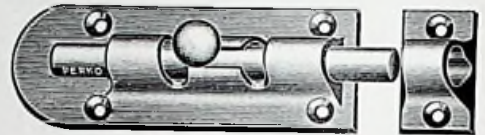


Fig. 947

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

Door Knobs

CAST BRASS—POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs

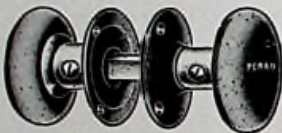


Fig. 1048

Diam. Knob Inches	Per set	Size Spindle Inches
1 3/4	\$2.25	5/16
2	2.25	5/16

Round Knob and Drop Handle

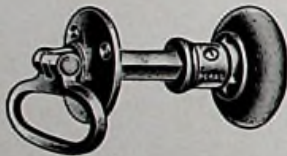


Fig. 1049

Diameter Knob Inches	Per Set	Size Spindle Inches
1 3/4	\$2.25	5/16
2	2.25	5/16

Knobs for Rim Locks have One Rosette
Knobs for Mortise Locks have Two Rosettes

Door Buttons

CAST BRASS—POLISHED



Fig. 948

No.	Per Dozen Complete	Without Plate Per Dozen	Size Inches	Weight Per Doz. Pounds
1	\$3.50	\$1.40	1 1/2	5/8
2	4.00	2.00	1 3/4	7/8
3	5.00	2.25	2	1 3/8

Cupboard Turns

CAST BRASS—POLISHED

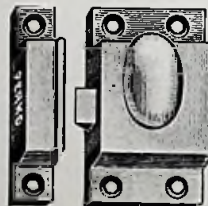


Fig. 949

Cast brass case and rim strike in polished finish. Oval turn knob with screws to match.

No.	Each	Size Inches
1	\$.80	2 1/8 x 1 1/2

Cupboard Catches

CAST BRASS—POLISHED

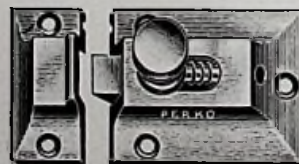


Fig. 950

Cast brass case and rim strike in polished finish; round slide knob. With screws to match.

No.	Each	Size Inches
1	\$.45	1 1/8 x 1 1/8
2	.55	1 1/4 x 1 1/2
3	.60	1 1/2 x 1 3/4

Combination Escutcheons

CAST BRASS—POLISHED

With beveled edges, highly polished finish.



Fig. 1050

No.	Each	Size Inches	For Spindle Inches
1	\$.85	4 3/8 x 1 1/8	5/16
2	.85	6 x 1 1/2	5/16

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices

Flush Ring Catch
CAST BRASS—POLISHED

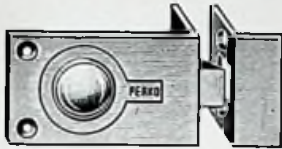


Fig. 1051

Size
Inches
 $1\frac{3}{8} \times 1\frac{1}{4}$

Each
\$.50

Flush Bolts
CAST BRONZE—POLISHED



Fig. 1052

Size
Inches
 $\frac{5}{8} \times 2\frac{1}{2}$
 $\frac{5}{8} \times 3$

Each
\$.40
.45

Ship Bolts
HEAVY CAST BRONZE—POLISHED

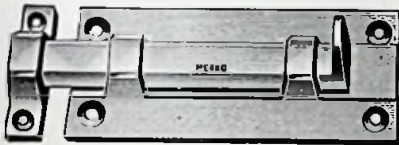


Fig. 1053

Size
Inches
 $3 \times 1\frac{1}{8}$
 $4 \times 1\frac{3}{8}$
 $5 \times 1\frac{5}{8}$

Each
\$.50
.66
.80

Square Neck Bolts
HEAVY CAST BRONZE—POLISHED

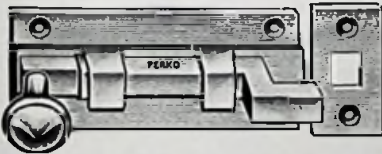


Fig. 1054

Size
Inches
 $3 \times 1\frac{1}{4}$
 $4 \times 1\frac{1}{8}$

Each
\$.66
.88

Window Bolts
CAST BRONZE—POLISHED



Fig. 1055

Base
Inches
 $1\frac{1}{8} \times 1\frac{1}{4}$

Each
\$.60

Elbow Catches
CAST BRASS—POLISHED

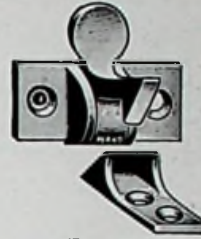


Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base
Inches
 $1\frac{1}{8} \times \frac{3}{8}$

Each
\$.25

Flush Drawer Handle
CAST BRONZE—POLISHED

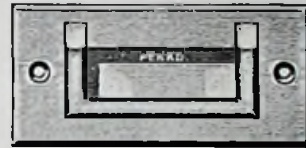


Fig. 1057

Size
Inches
 $1\frac{3}{8} \times 3\frac{1}{4}$

Each
\$.70

Butterfly Hinges
WROUGHT BRASS—PLAIN



Fig. 1058

Size
Open
Inches
 $2\frac{1}{4}$
3

Per
Pair
\$.10
.15

Spring Hinges
WROUGHT BRASS—PLAIN



Fig. 1059

Length
Inches
 $2\frac{3}{8}$
3

Per
Pair
\$.50
.75

Safety Hasps
EXTRA HEAVY CAST BRONZE—POLISHED

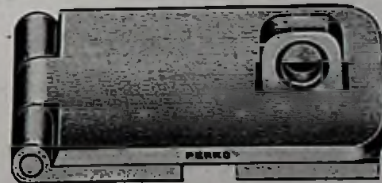


Fig. 1060
Width
Inches
 $1\frac{5}{8}$

Each
\$1.75

Above items desired CHROMIUM PLATED, add 50% to Prices

Strap Hinges

GALVANIZED MALLEABLE IRON AND BRONZE
BRASS PINS



Fig. 120

Length Opened Inches	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.40	\$.50	\$.80	\$ 1.30	\$ 1.80	$\frac{3}{16}$
6	.60	.80	1.25	1.85	2.40	$\frac{5}{8}$
8	.95	1.25	1.85	2.60	3.10	$\frac{5}{8}$
10	1.20	1.65	2.40	3.40	3.80	$1\frac{1}{8}$
12	1.70	2.30	3.10	4.10	4.60	$1\frac{3}{8}$

Port Hinges

GALVANIZED MALLEABLE IRON AND BRONZE
BRASS PINS

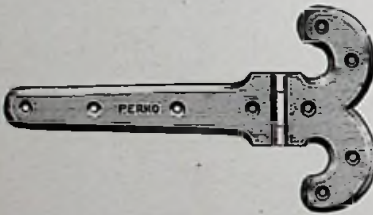


Fig. 109

Length Opened Inches	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.60	\$.75	\$ 1.10	\$ 1.60	\$ 2.10	$\frac{1}{2}$
6	.85	1.20	1.65	2.25	2.85	$\frac{7}{8}$
8	1.30	1.60	2.25	3.00	3.65	$1\frac{1}{2}$
10	2.00	2.45	3.25	4.00	4.75	2
12	2.60	4.30	5.15	6.00	6.75	$2\frac{5}{8}$

Cuddy Door Hinges

HEAVY CAST BRONZE



Fig. 951

Length Opened Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
3	\$.55	\$ 1.10	\$ 1.70
$3\frac{1}{2}$	.58	1.20	1.90
4	.60	1.25	2.10
5	.80	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
$1\frac{1}{2} \times 1\frac{1}{4}$	\$ 4.80	3 x $1\frac{1}{2}$	\$ 13.25
$1\frac{1}{2} \times 1\frac{1}{2}$	5.04	3 x 2	13.44
$1\frac{3}{4} \times 1\frac{1}{4}$	5.04	3 x $2\frac{1}{4}$	15.36
$1\frac{3}{4} \times 1\frac{1}{2}$	5.76	3 x $2\frac{1}{2}$	15.36
2 x $1\frac{1}{4}$	6.00	3 x 3	16.48
2 x $1\frac{1}{2}$	6.48	$3\frac{1}{2} \times 2\frac{1}{2}$	20.00
2 x $1\frac{3}{4}$	7.44	$3\frac{1}{2} \times 3$	21.60
2 x 2	7.92	$3\frac{1}{2} \times 3\frac{1}{2}$	24.00
$2\frac{1}{2} \times 1\frac{1}{2}$	9.36	4 x 3	28.16
$2\frac{1}{2} \times 1\frac{3}{4}$	10.56	4 x $3\frac{1}{2}$	31.44
$2\frac{1}{2} \times 2$	10.80	4 x 4	33.60
$2\frac{1}{2} \times 2\frac{1}{2}$	12.00		

Polished or Chromium Plated, Price on Application

Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—POLISHED
BRASS PINS

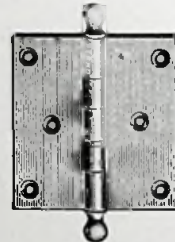


Fig. 953

Size Open Inches	Size Screw Inches	Per Pair	Size Open Inches	Size Screw Inches	Per Pair
2 x $1\frac{1}{2}$	$\frac{3}{4} \times 6$	\$ 1.15	3 x 3	1 x 8	\$ 2.30
2 x 2	$\frac{3}{4} \times 7$	1.40	$3\frac{1}{2} \times 3$	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 3	1 x 11	4.50
3 x 2	1 x 8	2.00	4 x $3\frac{1}{2}$	1 x 11	5.00
3 x $2\frac{1}{2}$	1 x 8	2.20	4 x 4	1 x 11	6.00

Chromium Plated, add 50% to above Prices

Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

Length Between Joints Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$ 1.80	\$ 3.00	\$ 3.75	\$ 4.25	$11\frac{1}{4}$
3	2.00	3.15	4.00	4.45	$12\frac{1}{4}$
4	2.20	3.50	4.50	4.90	13
5	3.50	4.95	6.25	6.55	$16\frac{1}{4}$
6	3.75	5.25	6.75	7.00	17



Boston Hasp Hinges

GALVANIZED MALLEABLE IRON AND BRONZE

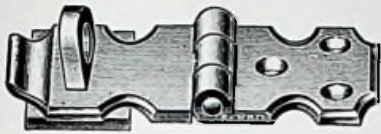


Fig. 954

Length Opened Inches	Galv. Each	Pl. Bronze Each	Pol. Bronze Each	Length Inches
	\$.40	\$.75	\$1.10	
4	.55	1.00	1.65	4 1/4
6				6

Door Pulls

CAST BRONZE

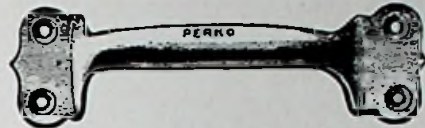


Fig. 775

Length Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
	\$.40	\$.55	\$.75
4 1/4	.50	.65	.85
6			

Security Hasp Hinges

POLISHED BRONZE

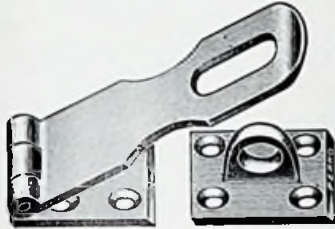


Fig. 955

Length Closed Inches	Pol. Bronze Each	Width Inches
	\$.42	
3	.55	1 1/8
3 3/4		

Drawer Pulls

CAST BRASS—POLISHED



Fig. 958

Size Inches	Each
3	\$.40
4	.45

Flush Ring Pulls

CAST BRASS—POLISHED



Fig. 841

Number	1	2	3	4
Size of Plate, Inches	1 1/4 x 1 1/2	1 1/2 x 1 1/8	1 7/8 x 2 1/2	2 x 2 1/4
Price, Each	\$.50	\$.63	\$.85	\$1.00

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

Wardrobe Hooks

CAST BRONZE—POLISHED



Fig. 840

Width Inches	Projection Inches	Price Each
2 3/4	1 1/2	\$.30

Cabin Door Hooks

DOUBLE JOINTED
CAST BRASS—POLISHED



Fig. 957

Size Inches	Each	Size Inches	Each
2	\$1.50	4	\$1.70
2 1/2	1.50	5	1.85
3	1.55	6	2.00

Coat and Hat Hooks

CAST BRASS—POLISHED



Fig. 959

Projection Inches	Each
2 1/4	\$.40

Above items desired CHROMIUM PLATED, add 50% to Polished Brass and Bronze Prices

Refrigerator Hinges
CAST BRASS—POLISHED

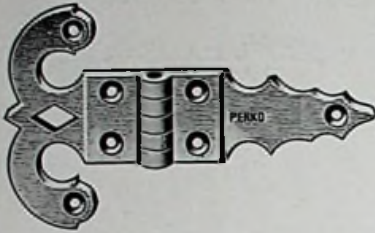


Fig. 1061

Length Overall Inches	Length Strap Inches	Flush Type Per pair	Offset Type Per pair
5	3	\$.70	\$.84
6 1/4	4	1.10	1.30
7 1/4	5	1.40	1.80
8 1/2	6	1.70	2.30

Offset Type has 3/8 inch offset
Be sure to Specify Flush or Offset Type

Refrigerator Levers
CAST BRASS—POLISHED

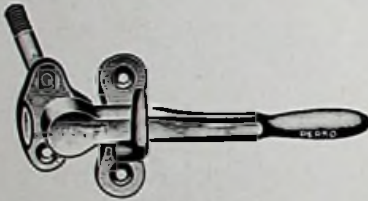


Fig. 1062

An integral stop on lever plate will keep lever in up-right position when door is open.
Reversible for right or left hand.

Length lever Inches	Length bolt Inches	Price Each
5 1/2	5	\$1.20
6 1/2	7	1.70
9	7 1/2	3.00

Refrigerator Fasteners
CAST BRASS—POLISHED



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.

Illustration shows right hand.

Length overall Inches	Size lever Inches	Price Each
5	4	\$.95
6 1/4	4 3/4	2.50

Above items desired CHROMIUM PLATED, add 50% to Polished Brass and Bronze Prices

Cabinet Latches
CAST BRASS—POLISHED



Fig. 1064

With flush striking plate and brass pin, spring closing.
Made either right or left hand.

Length Overall Inches	Length Lever Inches	Polished Brass Each	Chromium Plated Each
2 1/2	2	\$.50	\$.70

Door Holders

SIDE PATTERN
CAST BRONZE—POLISHED



Fig. 1065

Projection Inches
2

Price Per set
\$.90

FLOOR PATTERN

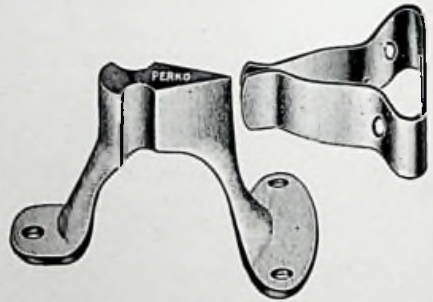
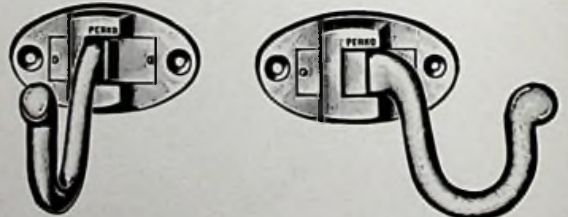


Fig. 1066

Height From floor Inches
2

Price Per set
\$1.00

Folding Wardrobe Hook
CAST BRONZE



Open

Closed

Fig. 1069

Something entirely new in Wardrobe Hooks for narrow places where space is valuable.

Hook is held open by flat brass spring but can be folded back against the wall entirely out of the way.

Tumbled Finish Each	Nickel Plated Each	Projection Open Inches	Projection Closed Inches
\$.50	\$.65	2 1/2	1/2

Hatch Adjusters

CAST BRONZE

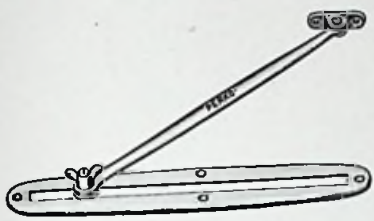


Fig. 797

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Arm Inches	Length Plate Inches
1	\$2.25	\$3.00	\$4.00	8	8 1/2
2	2.75	3.50	4.50	10	10 3/4

Sash or Skylight Fastener

CAST BRONZE



Fig. 770

Size Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3/8 x 4	\$2.00	\$2.50	\$3.00

Skylight Hinge

CAST BRONZE—POLISHED



Fig. 771

Used with gutter made from 1/2 section of 3 inch brass tubing, cut shown one half pair, width of flange, 5 inches.
 Polished, Per Pair \$5.25
 Chromium Plated, Per Pair 7.00

Hatch Hinges

CAST BRONZE

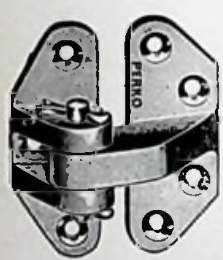


Fig. 773

A new type hatch hinge that will allow hatch cover to be laid flat on deck.

Size—2 7/8 x 3 3/4

	Price Per Pair
Polished Bronze	\$4.00
Nickel Plated ...	4.50
Chromium Plated	5.25

Illustration shows one-half pair.

Skylight Raisers

ALL POLISHED BRASS

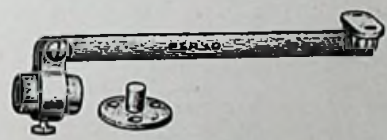


Fig. 772

Consists of two raisers and two tubing supports, tubing not furnished.

No.	Length of Arm Inches	For Tubing Diameter Inches	Polished Per Set	Chromium Plated Per Set
1	9 1/4	3/8	\$8.50	\$10.50
2	9 1/4	3/4	8.50	10.50
3	9 1/4	7/8	8.50	10.50

Hatch Bracket

POLISHED BRASS

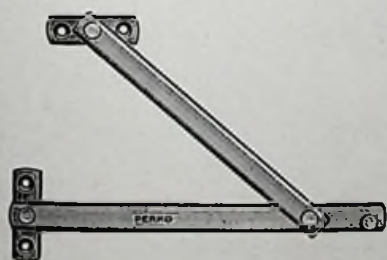


Fig. 406

Length Closed Inches	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair	Size Brackets Inches	Weight Per Pair Pounds
10	\$3.00	\$4.00	\$4.60	2 3/8 x 3/4	2

Skylight Quadrants

CAST BRONZE

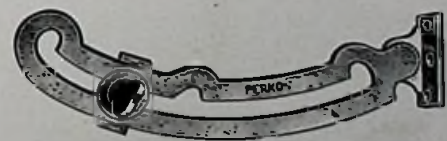


Fig. 449

No.	Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
1	5	\$3.50	\$4.25	\$5.00
2	8	5.25	6.25	6.75
3	10	6.50	7.50	8.30
4	12	7.25	8.50	9.25

Sash Hinges

CAST BRONZE

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

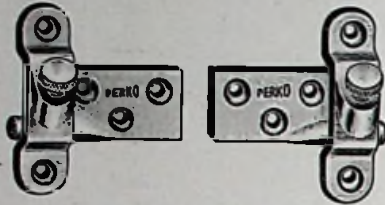


Fig. 418

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1	1 1/8 x 3/8	2 1/2 x 1 1/8	6	7/8
2	1 1/8 x 3/8	3 1/4 x 1 1/8	7	7/8

No.	Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
1	\$1.25	\$1.60	\$2.00
2	1.65	2.00	2.40

Combination Sash Hinges

WITH CURTAIN ROD SOCKETS
CAST BRONZE

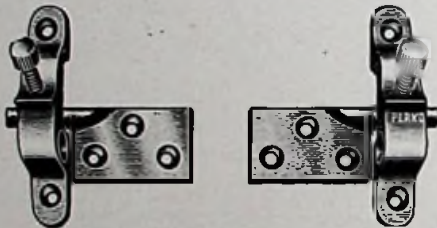


Fig. 960

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1	1 1/8 x 3/8	2 3/4 x 1/2	7	7/8

No.	Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
1	\$1.25	\$1.60	\$2.00

Continuous Hinge

WROUGHT BRASS AND NICKEL SILVER

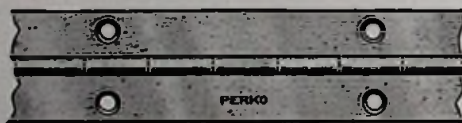


Fig. 211

The neatest and most practical hinge for use on hatch covers, locker doors, windshields, etc. Hinge has brass pin, and is drilled and countersunk. Holes are two inches apart, center to center.

Width Open Inches	Polished Brass Each	Nickel Plated Each	Chrom. Plated Each	Length Inches	Gauge
1 1/4	\$1.50	\$1.75	\$2.00	60	.045
1 1/2	1.65	1.90	2.25	60	.040
1 3/4	1.75	2.00	2.50	60	.040
2	2.10	2.35	3.00	72	.040
2 1/2	2.30	2.55	3.40	60	.040
3	2.75	3.00	3.85	72	.040

Special widths and lengths made to order. Price on application.

Sash Anti Rattlers

CAST BRONZE—POLISHED

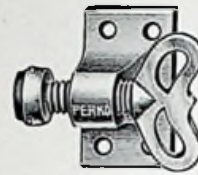


Fig. 839

Furnished with leather tip to prevent defacing of wood work. Size of base 1" x 1 1/4".

Polished Bronze, Each	\$1.25
Chromium Plated, Each	1.75

Sash Lifts

CAST BRONZE



Fig. 776

No.	Size of Plate	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	1/2 x 1 1/2	\$.35	\$.50	\$.65
2	3/8 x 1 1/2	.35	.50	.65

Sash Fasteners

LEFT OR RIGHT HAND
CAST BRONZE—POLISHED



Size—1 1/4 x 2 3/8 inches

Fig. 777

Polished Bronze, Each	\$.60
Chromium Plated, Each	1.10

Please specify left or right hand

Flush Hatch Lifting Handle

CAST BRONZE



Designed especially for flush installation on boats, will not catch on table or chair legs or heels of shoes.

Size—3 x 2 3/8 inches

	Price Each
Polished Bronze	\$1.50
Nickel Plated	2.00
Chromium Plated	2.50

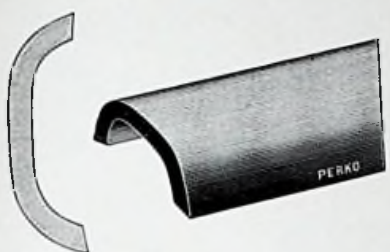
Fig. 774



Fender Moulding

POLISHED BRASS

Hollow inside with flat face allowing screw heads to fit flush with surface, tapered edges to make neat fit.



Full Size End View of 1 1/4 in. Moulding

Fig. 227

Outside Width Inches	Projection Inches	Weight Per Foot Pounds	Polished Brass Per Foot	Chromium Plated Per Foot
3/8	3/8	1/4	\$.22	\$.42
1	3/8	1/2	.40	.65
1 1/4	3/8	3/4	.60	.90

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in standard mill lengths.

Moulding Ends

POLISHED CAST BRONZE

For finishing off ends of moulding, Fig. 227.

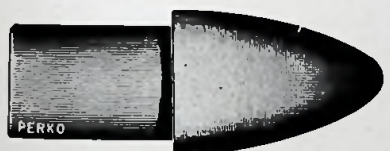


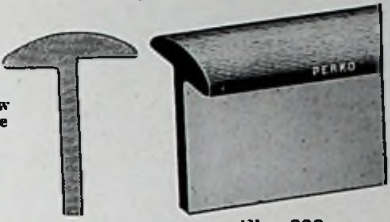
Fig. 228

For Moulding Inches	Length Overall Inches	Weight Each Ounces	Polished Bronze Each	Chromium Plated Each
1	2 1/2	1 1/2	\$.35	\$.55
1 1/4	3	2 1/2	.40	.60

Hatch Moulding

POLISHED BRASS

This type moulding insures a smooth and neat surface, as it is fastened to hatch on side, screw heads are invisible when hatch is closed.



End View Full Size

Fig. 232

Width Surface Inches	Depth Inches	Weight Per Foot Ounces	Polished Brass Per Foot	Chromium Plated Per Foot
3/4	1 1/8	10	\$.50	\$.80

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Only furnished in standard mill lengths.

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 Oz.	Polished Brass Per Foot
1	2 3/4	\$.21
1 1/4	3	.22

Furnished with holes drilled and countersunk at 10c per hole. Send information as to size of holes spacing, etc.

Fender Moulding Couplings

CAST BRONZE

Fits inside moulding at joint, where two pieces are joined together.



Fig. 229

For Moulding Inches	Width Inches	Length Inches	Plain Bronze Each
1	3/4	2 1/2	\$.20
1 1/4	1	3	.30

Half Oval Moulding

BRASS



Fig. 801

Size Inches	Weight Per Foot Pounds	Per Foot
3/8 x 3/8	.104	\$.10
1/2 x 1/8	.167	.15
3/8 x 1/4	.312	.24
3/4 x 1/4	.508	.32
1/2 x 1/4	.584	.42
1 x 1/4	.650	.50
1 1/4 x 3/8	1.250	.70

ANCHOR SHACKLES

DROP FORGED STEEL AND BRONZE

SCREW PIN



Fig. 314

ROUND PIN



Fig. 315

Prices and Dimensions Below Apply to Both Figs. 314 and 315

Size Inches	Galvanized Each	Japanned Each	Plain Bronze Each	Polished Bronze Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds
3/8	.28		.50	.70	7/8	1/8	1/4	7
1/4	.28	.25	.50	.70	1 1/8	1/2	3/8	12
5/16	.30	.28	.65	.85	1 1/4	5/8	3/8	21
3/8	.35	.33	1.00	1.25	1 5/8	3/4	7/8	32
7/16	.45	.40	1.25	1.50	1 3/4	7/8	1/2	49
1/2	.50	.45	2.00	2.35	1 7/8	1 1/8	5/8	73
5/8	.80	.70	3.00	3.50	2 1/2	1 1/8	3/4	151
3/4	.90	.75			3	1 1/4	7/8	226
7/8	1.40	1.10			3 1/4	1 1/8	1	340
1	1.80	1.45			3 3/4	1 1/4	1 1/8	495
1 1/8	2.60	2.10			4 1/4	1 3/8	1 1/4	691
1 1/4	3.20	2.60			4 1/2	2	1 3/8	899
1 3/8	4.40	3.60			5 1/4	2 1/4	1 1/2	1219
1 1/2	5.25	4.20			5 3/4	2 3/8	1 5/8	1595
1 3/4	10.00	8.00			7	2 1/8	2	2750
2	15.00	12.00			7 3/4	3 3/8	2 1/4	3900
2 1/4	40.00	34.00			8 3/4	3 3/8	2 1/2	5650
2 1/2	49.00	43.00			10	4 1/8	2 3/4	8350

Bronze Shackles Are Only Furnished with Screw Pins

CHAIN SHACKLES

DROP FORGED STEEL

SCREW PIN



Fig. 338

ROUND PIN

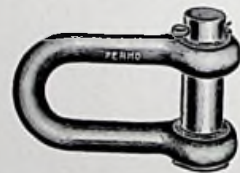


Fig. 339

Prices and Dimensions Below Apply to Both Figs. 338 and 339

Size Inches	Galvanized Each	Japanned Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds
1/4	.28	.25	3/8	1/2	3/8	12
5/16	.30	.28	1	5/8	3/8	18
3/8	.35	.33	1 1/4	3/4	7/8	28
7/16	.45	.40	1 1/2	7/8	1/2	44
1/2	.50	.45	1 5/8	1 1/8	3/8	68
5/8	.80	.70	2	1 1/8	3/4	130
3/4	.90	.75	2 1/8	1 1/4	7/8	201
7/8	1.40	1.10	2 3/8	1 1/8	1	288
1	1.80	1.45	3 1/4	1 1/4	1 1/8	441
1 1/8	2.60	2.10	3 1/2	1 3/8	1 1/4	625
1 1/4	3.20	2.60	3 3/4	2	1 3/8	800
1 3/8	4.40	3.60	4 1/2	2 1/4	1 1/2	1110
1 1/2	5.25	4.20	5	2 3/8	1 5/8	1372
1 3/4	10.00	8.00	5 3/8	2 3/8	2	2600
2	15.00	12.00	6 3/4	3 3/8	2 1/4	3600
2 1/4	40.00	34.00	7 1/4	3 3/8	2 1/2	5000
2 1/2	49.00	43.00	8 1/4	4 1/8	2 3/4	7400



Wire Rope Thimbles

GALVANIZED FORGED STEEL

REGULAR PATTERN



Fig. 466

For Size Rope Inches	Price Per 100	Dimensions in Inches					Est. Wt. Per 100 in Lbs.
		A	B	C	D	E	
1/8	\$ 4.40	1 1/2	1 1/8	1 1/8	3/8	1 1/8	2
1/8	4.40	1 1/2	1 1/8	1 1/8	3/8	1 1/8	2 1/2
1/4	4.40	1 1/2	1 1/8	1 1/4	3/4	1 1/8	3 1/2
1/4	5.25	2 1/8	1 3/8	1 1/8	1 1/8	1 1/8	5 3/8
3/8	6.00	2 3/8	1 3/8	1 1/2	1	1 1/8	7 1/2
1/2	7.00	2 3/8	1 3/4	1 5/8	1 1/4	1 1/8	9 1/4
1/2	8.00	2 3/4	1 1/2	1 3/4	1 1/8	1 1/8	13 1/4
3/4	11.00	3 3/8	2 1/2	2 1/4	1 3/8	1 1/8	22 1/2
3/4	13.00	3 1/8	2 3/4	2 3/8	1 1/8	1	26
3/4	16.00	4	3	2 1/2	1 3/4	1 1/8	49
1	21.00	4 3/4	3 1/4	3	2	1 1/8	61
1 1/8	38.00	5 1/4	3 1/8	3 3/8	2 1/8	1 1/8	65
1 1/4	44.00	6	4 1/4	3 3/4	2 3/8	1 1/8	103
1 1/2	120.00	6 3/8	4 3/4	4	2 7/8	1 1/8	163
1 3/4	160.00	7 1/2	5 1/4	4 3/4	3 1/8	1 1/8	255
2	200.00	8 3/4	6	5	3 3/8	2 1/8	380

Open type made up to 1 1/8 inches.

A—Overall Length; B—Overall Width; C—Length Inside; D—Width Inside; E—Width of Score.

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.
1/8	\$ 8.00	8 1/2
1/4	8.00	16 1/2
1/8	9.00	19
3/8	12.00	25
1/2	15.50	32
1/2	18.50	40
3/4	24.50	62
3/4	35.00	101
7/8	50.00	149
1	60.00	190
1 1/8	95.00	310
1 1/4	112.00	375
1 3/8	130.00	560
1 1/2	150.00	645
1 3/4	415.00	1085
2	550.00	1620

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.
1/8	\$ 5.00	3/8	3/4	1 1/2
3/8	5.00	1/2	7/8	2 1/4
1/2	6.00	5/8	1	3 1/8
1/2	8.00	3/4	1 1/4	6 1/2
3/4	10.00	1 1/8	1 1/2	9 3/8
3/4	12.00	1 1/8	1 3/4	16 1/2
7/8	15.00	1 1/8	2	20 1/4
1	18.00	1 1/4	2 1/4	33 3/4
1 1/8	20.00	1 3/8	2 1/2	39 1/2
1 1/4	30.00	1 1/2	2 3/4	52
1 3/8	40.00	1 3/4	3	62
1 1/2	50.00	2	3 1/2	112
1 3/4	100.00	2 3/8	4	146
2	200.00	2 3/4	4 1/2	206

Sail Thimbles

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 469

★Size Ins.	Galv. Iron Per Doz.	Spun Brass Per Doz.	Cast Brass Per Doz.	Weight Per Doz.	For Diam. Rope Inches
1/2		\$.35			1/8
3/8		.50			1/4
3/4	\$.45	.55	\$.84		1/4
7/8		.75	.98		1/2
1	.60	.85	1.12		1/2
1 1/8	.70	1.10	1.38		3/8
1 1/4	.80	1.50	1.50		3/8
1 1/2	1.00	2.25	1.86		1/2
1 3/4	1.25		2.40		1/2
2	1.50		2.80		3/4
2 1/4	1.85		3.20		3/4
2 1/2	2.25		3.60		3/4
2 3/4	2.50		3.95		3/4
3	3.00		4.90		7/8
HEAVY					
2	2.00			2 1/8 lbs.	3/8
2 1/4	2.50			2 3/8 lbs.	3/8
2 1/2	3.00			3 1/8 lbs.	3/4
2 3/4	3.50			4 3/8 lbs.	7/8
3	4.00			6 lbs.	7/8
3 1/2	5.00			7 3/8 lbs.	1
4	6.00			10 3/4 lbs.	1 1/8
4 1/2	10.00			16 lbs.	1 1/4
5	15.00			20 lbs.	1 1/2

*Diameter outside from edge to edge. Specify light or heavy.

OPEN TURNBUCKLES

DROP FORGED STEEL
GALVANIZED AND SELF COLORED

HOOK AND EYE



Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK

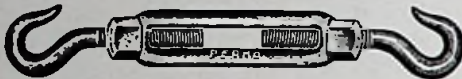


Fig. 392

JAW AND EYE



Fig. 393

JAW AND JAW



Fig. 394

All Turnbuckles Have Right and Left Hand Threads—Threads Are All Hot Galvanized

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
* 3/16 x 3	\$.35	\$.32	\$.50	\$.45	\$.60	\$.55							
* 1/4 x 4	.35	.32	.50	.45	.60	.55	* 1/4 x 12	\$ 7.25	\$ 6.00	\$ 9.00	\$ 7.50	\$ 11.00	\$ 9.00
* 5/16 x 4 1/2	.44	.36	.62	.54	.74	.66	18	9.00	7.50	11.00	9.00	13.00	10.50
* 3/8 x 6	.56	.48	.74	.64	.88	.78	24	11.50	9.50	13.00	11.00	15.00	12.50
* 1/2 x 6	.84	.72	1.10	.95	1.30	1.15	36	16.00	13.00	17.00	14.00	18.00	15.00
9	1.45	1.20	1.70	1.40	1.90	1.55	* 1/2 x 12	11.00	9.00	13.00	10.50	15.00	12.00
12	1.70	1.40	2.00	1.60	2.30	1.85	18	13.50	11.00	15.75	13.00	18.00	15.00
* 5/8 x 6	1.15	.95	1.30	1.10	1.50	1.25	24	17.00	14.00	20.00	16.50	23.00	19.00
9	1.75	1.45	2.00	1.70	2.30	1.90	36	22.00	18.00	26.00	21.00	30.00	24.00
12	2.10	1.70	2.40	2.00	2.70	2.20	48	28.00	23.00	33.00	27.00	38.00	30.00
18	2.60	2.20	3.10	2.60	3.50	2.90	* 3/4 x 18	22.00	18.00	28.00	22.50	33.00	27.00
* 3/4 x 6	1.50	1.25	1.75	1.45	2.00	1.65	24	28.00	23.00	34.00	28.00	39.00	32.00
9	2.30	1.90	2.70	2.20	3.00	2.50	36	36.00	30.00	42.00	35.00	48.00	39.00
12	2.70	2.20	3.10	2.60	3.50	2.90	48	47.00	38.00	55.00	44.00	62.00	50.00
18	3.60	3.00	4.20	3.50	4.70	3.90	* 2 x 24	42.00	35.00	50.00	41.00	58.00	47.00
24	4.20	3.50	4.90	4.10	5.50	4.60	36	50.00	40.00	59.00	48.00	68.00	55.00
* 7/8 x 12	3.40	2.80	3.90	3.20	4.50	3.70	48	62.00	50.00	74.00	60.00	85.00	70.00
18	4.30	3.60	5.00	4.20	5.75	4.70	* 2 1/4 x 24	60.00	50.00	74.00	60.00	85.00	70.00
24	5.25	4.40	6.25	5.10	7.00	5.75	36	68.00	55.00	84.00	69.00	100.00	82.00
* 1 x 12	4.20	3.50	4.80	4.00	5.50	4.60	48	86.00	70.00	105.00	84.00	125.00	98.00
18	5.50	4.50	6.50	5.25	7.25	6.00	* 2 1/2 x 24	80.00	65.00	100.00	78.00	120.00	91.00
24	6.75	5.50	8.00	6.50	8.75	7.25	36	93.00	75.00	117.00	94.00	141.00	112.00
36	8.50	7.00	10.00	8.25	11.50	9.25	48	110.00	90.00	138.00	108.00	166.00	126.00
* 1 1/8 x 12	5.25	4.20	6.00	4.90	6.75	5.50							
18	6.75	5.50	8.00	6.50	8.75	7.25							
24	8.25	6.75	9.50	8.00	10.50	8.75							
36	10.50	8.50	12.00	9.75	13.50	11.00							

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List.

*Indicates standard marine lengths.

Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL
WITH LOCK NUTS



Fig. 398

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 1/4	65.00	70.00	75.00	24	
2 1/2	80.00	90.00	100.00		

Sizes larger than 1 1/4 inches are furnished in the round type.

Open Turnbuckles

MALLEABLE IRON BODIES
DROP FORGED STEEL FITTINGS
GALVANIZED AND SELF COLORED



Fig. 395

Diameter and Takeup	Eye & Eye Hook & Hook		Jaw & Eye		Jaw & Jaw	
	Galv.	S. C.	Galv.	S. C.	Galv.	S. C.
1/4 x 3 3/4	\$.50	\$.42	\$.58	\$.50	\$.66	\$.55
5/16 x 4 1/4	.55	.45	.64	.54	.72	.60
3/8 x 4 3/4	.72	.60	.84	.70	.96	.80
1/2 x 6	.96	.80	1.10	.92	1.25	1.05
5/8 x 6	1.15	.95	1.30	1.10	1.50	1.25

Petite Brass Turnbuckles

RIGHT AND LEFT HAND THREADS



Fig. 396

Size No.	Thrd. Diam. Inches	Lgth. Takeup Inches	Overall Lgth. Closed Inches	Inside Diam. Eye Inches	Plain Brass Each
1	1/8	2/8	2 1/8	1/8	\$.20
2	3/16	1/8	3 3/16	1/4	.25
3	1/4	1/2	3 1/4	3/16	.30
4	5/16	1 3/4	5 1/8	1/2	.35
5	3/8	2 1/4	6	5/8	.40

Swivels

WELDLESS DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Est. Weight Each in Lbs.	Est. Ult. T. S. Tons
1/4	\$.75	3 1/4	3/4	1/8	2 1/2
5/16	.90	4 1/8	1	1/8	4 1/4
3/8	1.00	5	1 1/4	3/8	5 1/2
1/2	1.50	6	1 1/2	1 1/4	9 1/2
5/8	2.50	7 1/2	1 3/4	2 1/4	14 3/4
3/4	3.50	9	2	3 1/2	18 1/2
7/8	4.50	9 1/2	2 1/4	5 3/8	22 1/4
1	5.50	11 1/2	2 1/2	8 3/4	27 1/2
1 1/4	11.00	14	3	16	37 1/2

Deduct 10% for Self Colored Finish.

Swivels with Jaw End

DROP FORGED STEEL



Fig. 623

Size Inches	Galv. Each	Overall Length Inches	Width Between Jaws Inches	Size of Bow in Clear Inches	Est. Wt. Each in Lbs.
1/4	\$1.00	3 1/4	1/2	3/4 x 3/4	1/2
5/16	1.15	4 1/8	1/2	1 x 1	3/8
3/8	1.25	4 1/2	5/8	1 1/4 x 1	1 1/8
1/2	2.00	5 5/8	3/4	1 1/2 x 1 1/4	1 1/4
5/8	2.80	7	1	1 3/4 x 1 1/2	2 1/8
3/4	3.90	8	1 1/8	2 x 1 3/4	3 1/2
7/8	5.00	9	1 1/4	2 1/4 x 2	5 1/4
1	6.00	11	1 1/2	2 1/2 x 2 1/2	9 3/4
1 1/4	12.00	13 1/2	1 3/4	3 x 2 3/4	16 3/4

Deduct 10% for Self Colored Finish.

Note—Jaw End Swivels have same approximate tensile strength as Swivels, Fig. 622.

Swivels

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 624

Size No.	Galvanized Each	Plain Bronze Each	Length Inches	Weight Per 100 in Lbs.
1	\$.05	\$.15	1 3/4	4
2	.09	.20	2 1/8	7 1/2
3	.14	.30	2 1/2	11 1/4
4	.20		3 1/4	19 1/2
5	.25		3 1/2	24 1/2
6	.40		4 5/8	41

Hooks and Thimbles

DROP FORGED STEEL
FOR MANILA ROPE



Fig. 609

Size Inches	Galv. Each	Length Overall Inches	For Diam. Rope Inches	Weight Per 100 in Lbs.
1/4	\$.22	2	3/8	6
5/16	.22	2 3/8	1/4	10 1/2
3/8	.25	2 7/8	1/2	18
1/2	.30	3 3/8	3/8	37 1/2
5/8	.50	4 3/8	3/4	80
3/4	.60	5 3/8	7/8	150
7/8	.80	6 1/4	1	212
1	1.00	7	1 1/8	300
1 1/8	1.35	7 1/2	1 1/4	350
1 1/4	1.65	8 3/8	1 3/8	450

Deduct 5% for Self Colored Finish.

Hooks and Thimbles

DROP FORGED STEEL
FOR WIRE ROPE



Fig. 610

Size Inches	Galv. Each	Length Overall Inches	Score of Thimble Inches	Weight Per 100 in Lbs.
1/4	\$.22	2	1/10	8
5/16	.22	2 3/8	1/4	11
3/8	.25	2 3/4	5/16	24
1/2	.30	3 1/4	3/8	32
5/8	.50	4	1/2	62
3/4	.60	4 7/8	1/2	103
7/8	.80	5 3/8	5/8	142
1	1.00	6 1/4	3/4	225
1 1/8	1.35	7	7/8	293
1 1/4	1.65	7 1/4	1	400

Deduct 5% for Self Colored Finish.

Small Eye Hooks

FOR BLOCKS—DROP FORGED STEEL



Fig. 656

Size Inches	Galv. Each	Length Overall Inches	Throat Opening Inches	Est. Wt. Per 100 in Lbs.
1/4	\$.15	2	1 3/32	7
5/16	.15	2 3/8	1 1/2	10
3/8	.18	2 1/2	1 1/8	21
1/2	.20	3 1/4	1 1/16	26
5/8	.35	4	1 5/16	50
3/4	.45	4 7/8	1 1/8	92
7/8	.60	5 3/8	1 1/8	128
1	.75	6 1/4	1 1/4	200
1 1/8	1.05	7	1 1/4	255
1 1/4	1.30	7 3/8	1 1/2	375

"S" Hooks

WROUGHT STEEL GALVANIZED



Fig. 680

Size Inches	Price Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
3/16	\$.36	1 1/2	1/4
1/4	.48	2	1/2
5/16	.96	2 1/2	1
3/8	1.20	3	1 3/4
7/16	1.80	3 3/4	2 3/4
1/2	2.40	3 3/4	4

Screw Hooks

STEEL—GALVANIZED



Fig. 779

Size Inches	Galvanized Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$.95	3 1/2	3/4
5/16	1.10	4	1
3/8	1.20	4 3/4	2 1/8
1/2	2.20	5 3/8	4 3/4

Portland Cargo Hooks

DROP FORGED STEEL

HEAT TREATED



Fig. 414

Size No.	Price Each	Overall Length Inches	Throat Opening Inches	Inside Diam. Eye Inches	Wt. Each Pounds	Ult. T. S. Pounds
20	\$2.00	8 ⁷ / ₈	1 ¹ / ₄	1	4	18,000
21	4.00	11	1 ¹ / ₂	1 ¹ / ₄	7 ¹ / ₂	29,800
22	6.00	12 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	14 ¹ / ₂	51,800

Small Eye Match Hooks

DROP FORGED



Fig. 439

Diameter Hook Inches	Galv. List Each	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Weight Per 100 in Lbs.
1/4	\$.30	2 ¹ / ₈	1/2	3/8	8
5/16	.30	2 ¹ / ₂	5/8	3/4	12 ¹ / ₂
3/8	.35	2 ⁷ / ₈	3/4	7/8	22
1/2	.40	3 ¹ / ₂	7/8	1	38
5/8	.70	4 ⁵ / ₈	1	1 ¹ / ₄	78
3/4	.90	5 ¹ / ₈	1 ¹ / ₈	1 ³ / ₈	113
7/8	1.20	5 ⁹ / ₁₆	1 ¹ / ₄	1 ¹ / ₂	175
1	1.50	6 ¹ / ₄	1 ³ / ₈	1 ³ / ₄	281

Match Hooks and Wire Rope Thimbles

Liverpool Cargo Hooks

DROP FORGED STEEL



Fig. 415

Size No.	Price Each	Length Hook Inches	Size Swivel Inches	Throat Opening Inches	Est. Wt. Each Pounds
0	\$ 5.50	8 ⁷ / ₈	5/8	1 ¹ / ₄	6 ¹ / ₄
1	10.00	11	7/8	1 ¹ / ₂	12 ³ / ₄
2	14.00	12 ¹ / ₂	1	1 ¹ / ₂	23



Fig. 539

Size Inches	Galv. List Each	Score of Thimble	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Approx. Weight Per 100 in Lbs.
1/4	\$.40	3/4	2 ¹ / ₈	1/2	3/8	11
5/16	.40	1/4	2 ¹ / ₂	5/8	3/4	17
3/8	.45	1/2	2 ⁷ / ₈	3/4	7/8	27
1/2	.55	3/4	3 ¹ / ₂	7/8	1	51
5/8	.90	1/2	4 ⁵ / ₈	1	1 ¹ / ₄	95
3/4	1.10	3/8	5 ¹ / ₈	1 ¹ / ₈	1 ³ / ₈	141
7/8	1.50	3/4	5 ⁹ / ₁₆	1 ¹ / ₄	1 ¹ / ₂	207
1	1.85	3/8	6 ¹ / ₄	1 ³ / ₈	1 ³ / ₄	334

Match Hooks and Manila Rope Thimbles

Mooring or Towing Hooks

DROP FORGED STEEL

WITH SAFETY LATCH



Fig. 611

Size No.	Galv. Each	Inside Diam. Eye Inches	Outside Diam. Eye Inches	Extreme Length Inches	Extreme Width Inches	Throat Opening Inches
2	\$.75	3/4	1 ¹ / ₂	4 ¹ / ₈	2 ¹ / ₈	3/8
3	.90	7/8	1 ³ / ₄	5	3 ¹ / ₈	1/2
4	1.10	1	2	5 ¹ / ₂	3 ¹ / ₈	5/8



Fig. 540

Size Inches	Galv. List Each	Thimble Scored For Rope Diam. Inches	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Approx. Weight Per 100 in Lbs.
1/4	\$.40	3/8	2 ¹ / ₄	5/8	3/8	10
5/16	.40	1/2	2 ¹ / ₈	3/4	3/4	17
3/8	.45	3/4	3 ¹ / ₈	7/8	7/8	25
1/2	.55	5/8	3 ⁷ / ₈	1 ¹ / ₈	1	49
5/8	.90	1/2	4 ¹ / ₂	1 ¹ / ₄	1 ¹ / ₄	107
3/4	1.10	1	5 ⁵ / ₁₆	1 ¹ / ₂	1 ³ / ₈	166
7/8	1.50	1 ¹ / ₈	6 ¹ / ₈	1 ³ / ₄	1 ¹ / ₂	254
1	1.85	1 ¹ / ₄	7	2	1 ³ / ₄	377

DEDUCT 5% FOR SELF COLORED



Screw Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE

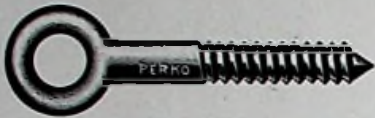


Fig. 500

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.10	1/2	6
5/8 x 2 1/4	.12	5/8	12 3/4
3/4 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 Screw.
2nd, Length under Eye.

Shoulder Screw Eye Bolts

WELDLESS DROP FORGED STEEL AND BRONZE
LARGE EYE



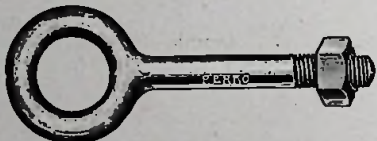
Fig. 501

Size Inches	Galv. Each	Polished Bronze Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.10	\$.50	1/2	4 1/2
5/8 x 2 1/4	.12	.60	5/8	9
3/8 x 2 1/2	.14	.70	3/4	17
1/2 x 3 1/4	.20	1.00	1	33
5/8 x 4	.35	1.50	1 1/4	70
3/4 x 4 1/2	.60		1 1/2	117
7/8 x 5	.85		1 3/4	194
1 x 6	1.25		2	288
1 1/4 x 8	2.25		2 1/2	500

Sizes are: 1st, Diameter Screw.
2nd, Length under Shoulder.

Nut Eye Bolts

DROP FORGED STEEL—LARGE EYE



Without Shoulder—Fig. 522
REGULAR

Size Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each
1/4 x 2	\$.14	\$.45	\$.50
5/8 x 2 1/4	.16	.50	.60
3/4 x 2 1/2	.18	.60	.70
1/2 x 3 1/4	.25	.90	1.00
5/8 x 4	.45	1.35	1.50
3/4 x 4 1/2	.70		
7/8 x 5	1.00		
1 x 6	1.50		
1 1/4 x 8	2.50		



With Shoulder—Fig. 523
EXTRA LONG

Size Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Diam. Eye Inches	Regular Weight Per 100 in Lbs.	Extra Long Weight Per 100 in Lbs.
1/4 x 4	\$.20	\$.55	\$.60	1/2	7	10
5/8 x 4 1/4	.24	.65	.75	5/8	11	16
3/8 x 4 1/2	.28	.75	.85	3/4	20	27
1/2 x 6	.40	1.15	1.25	1	44	56
5/8 x 6	.60	1.60	1.75	1 1/4	86	104
3/4 x 6	.95			1 1/2	124	150
7/8 x 8	1.35			1 3/4	270	323
1 x 9	1.90			2	329	398
1 1/4 x 11	3.25			2 1/2	688	835

ADDITIONAL LENGTHS—GALVANIZED

Length of Shank Inches	Diameter of Bolts			
	1/4	5/8	3/4	1
3	\$.20	\$.24	\$.28	
4	.20	.24	.28	\$.40
5	.21	.25	.30	.40
6	.22	.26	.32	.40
7			.34	.42
8			.36	.44
10				.48
12				.72
15				.78
18				.87
20				.96
				1.51
				1.95
				2.56

DEDUCT 5% FOR SELF COLORED FINISH—ALL BRONZE BOLTS FURNISHED ONLY WITH SHOULDER.

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.



Screw Ring Bolts

DROP FORGED STEEL



Fig. 618

Shoulder Screw Ring Bolts

DROP FORGED STEEL AND CAST BRONZE

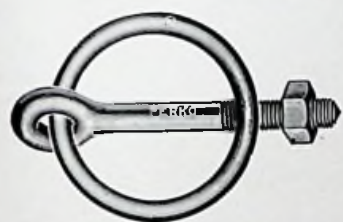


Fig. 619

Size Inches	Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.	Size Inches	Galv. Each	Polished Bronze Each	Weight Per 100 in Lbs.
1/4 x 2	\$.25	1 3/4	14	1/4 x 2	\$.25	\$1.00	14
5/16 x 2 1/4	.30	2	25	5/16 x 2 1/4	.30	1.15	24
3/8 x 2 1/2	.35	2	40	3/8 x 2 1/2	.35	1.30	39
1/2 x 3 1/4	.50	2 1/2	90	1/2 x 3 1/4	.50	2.25	82
5/8 x 4	.85	2 3/4	167	5/8 x 4	.85	3.50	154
3/4 x 4 1/2	1.35	3	254	3/4 x 4 1/2	1.35		256
7/8 x 5	2.00	3 1/4	408	7/8 x 5	2.00		380
1 x 6	2.90	3 3/4	596	1 x 6	2.90		550
1 1/4 x 8	5.75	5	1125	1 1/4 x 8	5.75		1100

Nut Ring Bolts

DROP FORGED STEEL AND CAST BRONZE



Without Shoulder—Fig. 620



With Shoulder—Fig. 621

REGULAR			EXTRA LONG		Diam. Stock Inside Diam. Rings Inches	Regular Weight Per 100 in Lbs.	Extra Long Weight Per 100 in Lbs.
Size Inches	Galv. Each	Polished Bronze Each	Size Inches	Galv. Each			
1/4 x 2	\$.30	\$1.00	1/4 x 4	\$.35	1/4 x 1 3/4	15	18
5/16 x 2 1/4	.35	1.15	5/16 x 4 1/4	.40	5/16 x 2	27	32
3/8 x 2 1/2	.40	1.30	3/8 x 4 1/2	.50	3/8 x 2	44	51
1/2 x 3 1/4	.55	2.25	1/2 x 6	.70	1/2 x 2 1/2	97	109
5/8 x 4	.85	3.50	5/8 x 6	1.00	5/8 x 2 3/4	178	196
3/4 x 4 1/2	1.35		3/4 x 6	1.60	3/4 x 3	271	297
7/8 x 5	2.00		7/8 x 8	2.35	7/8 x 3 1/4	491	544
1 x 6	2.90		1 x 9	3.30	1 x 3 3/4	659	728
1 1/4 x 8	5.75		1 1/4 x 11	6.50	1 1/4 x 5	1375	1522

ADDITIONAL LENGTHS—GALVANIZED

Length of Shank Inches	Diameter of Bolts							
	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1
3	\$.35	\$.40	\$.50					
4	.35	.40	.50	\$.70				
5	.36	.41	.52	.70	\$1.00			
6	.37	.42	.54	.70	1.00	\$1.60		
7			.56	.72	1.03	1.64		
8			.58	.74	1.06	1.68	\$2.35	
10				.78	1.12	1.76	2.45	\$3.36
12					1.18	1.84	2.55	3.48

DEDUCT 5% FOR SELF COLORED FINISH—ALL BRONZE BOLTS FURNISHED ONLY WITH SHOULDER

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.

Rivet Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE



Fig. 914

Shoulder Rivet Eye Bolts

WELDLESS DROP FORGED STEEL
LARGE EYE



Fig. 916

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4x4	\$.14	1/2	9 3/4
5/16x4 1/4	.16	5/8	15 1/4
3/8x4 1/2	.18	3/4	25
1/2x6	.25	1	61
5/8x6	.45	1 1/4	95
3/4x6	.70	1 1/2	145
7/8x8	1.00	1 3/4	255
1 x9	1.50	2	370
1 1/4x11	2.50	2 1/2	709

Size Inches	Galv. Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4x4	\$.14	1/2	10 1/2
5/16x4 1/4	.16	5/8	16 1/2
3/8x4 1/2	.18	3/4	25
1/2x6	.25	1	68 1/2
5/8x6	.45	1 1/4	95
3/4x6	.70	1 1/2	165
7/8x8	1.00	1 3/4	231
1 x9	1.50	2	380
1 1/4x11	2.50	2 1/2	750

Sizes are 1st, diameter shank; 2nd, length under eye.

Sizes are 1st, diameter shank; 2nd, length under shoulder.

Rivet Ring Bolts

WELDLESS DROP FORGED STEEL

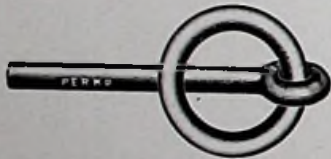


Fig. 915

Shoulder Rivet Ring Bolts

WELDLESS DROP FORGED STEEL



Fig. 917

Size Inches	Galv. Each	Inside Diam. Ring Inches	Weight Per 100 in Lbs.
1/4x4	\$.30	1 3/4	19
5/16x4 1/4	.35	2	31
3/8x4 1/2	.40	2	45
1/2x6	.55	2 1/2	113
5/8x6	.85	2 3/4	183
3/4x6	1.35	3	279
7/8x8	2.00	3 1/4	432
1 x9	2.90	3 3/4	645
1 1/4x11	5.75	5	1331

Size Inches	Galv. Each	Inside Diam. Ring Inches	Weight Per 100 in Lbs.
1/4x4	\$.30	1 3/4	19
5/16x4 1/4	.35	2	32
3/8x4 1/2	.40	2	47 1/2
1/2x6	.55	2 1/2	113
5/8x6	.85	2 3/4	200
3/4x6	1.35	3	293
7/8x8	2.00	3 1/4	462
1 x9	2.90	3 3/4	670
1 1/4x11	5.75	5	1375

Sizes are 1st, diameter shank; 2nd, length under eye.

Sizes are 1st, diameter shank; 2nd, length under shoulder.

DEDUCT 5% FOR SELF COLORED FINISH

If bolts are ordered with shank lengths other than catalogue listed dimensions, the price for the next longer listed length will apply, plus a \$2.00 charge per diameter for machine set-up.

Bolts with shanks longer than listed lengths can be supplied in all diameters and styles. Prices on application.

Connecting Links

DROP FORGED STEEL



Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
$\frac{1}{8}$	\$1.50	\$1.15	$1\frac{1}{8} \times \frac{3}{4}$	$\frac{3}{8}$
$\frac{1}{4}$	1.50	1.15	$1\frac{1}{2} \times 1$	$\frac{3}{4}$
$\frac{3}{8}$	1.65	1.20	$1\frac{1}{2} \times 1\frac{1}{8}$	1
$\frac{1}{2}$	2.00	1.50	$2\frac{1}{8} \times 1\frac{3}{8}$	-
$\frac{5}{8}$	2.40	1.80	$2\frac{3}{8} \times 1\frac{1}{2}$	$3\frac{1}{8}$
$\frac{3}{4}$	2.90	2.00	$2\frac{3}{8} \times 1\frac{3}{4}$	$4\frac{1}{2}$
$\frac{7}{8}$	3.90	2.70	$3 \times 1\frac{1}{2}$	$6\frac{5}{8}$
$\frac{1}{8}$	4.50	3.20	$3\frac{1}{8} \times 2\frac{1}{8}$	9
$\frac{1}{4}$	5.50	4.10	$3\frac{1}{2} \times 2\frac{1}{8}$	11
$\frac{3}{8}$	6.00	4.50	$3\frac{7}{8} \times 2\frac{1}{2}$	$14\frac{1}{4}$
$\frac{1}{2}$	9.25	6.75	$4\frac{1}{2} \times 2\frac{1}{2}$	$20\frac{1}{4}$
$\frac{3}{4}$	14.00	11.00	$5 \times 3\frac{1}{4}$	29
$1\frac{1}{8}$	16.50	13.50	$5\frac{5}{8} \times 3\frac{1}{2}$	40
$1\frac{1}{4}$	21.50	17.50	$6\frac{1}{8} \times 4$	$53\frac{1}{2}$
$1\frac{3}{8}$	27.00	24.50	$6\frac{3}{4} \times 4\frac{3}{4}$	75
$1\frac{1}{2}$	34.00	30.00	$7\frac{1}{4} \times 5\frac{1}{8}$	103
$1\frac{3}{8}$	41.00	37.00	$8 \times 5\frac{1}{2}$	131
$1\frac{7}{8}$	92.00	59.00	$9 \times 6\frac{1}{4}$	216

Lap Links

GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Price Per Doz.	Inside Dimensions of Link Inches	Size Inches	Price Per Doz.	Inside Dimensions of Link Inches
$\frac{3}{8}$	\$.40	$1 \times \frac{1}{2}$	$\frac{3}{8}$	\$1.35	$1\frac{1}{8} \times \frac{1}{2}$
$\frac{1}{4}$	.47	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{1}{2}$	1.85	$2 \times \frac{3}{8}$
$\frac{3}{8}$	.94	$1\frac{1}{2} \times \frac{3}{8}$		2.10	2×1

Tiller Rope Clamps

CAST BRONZE



Fig. 358

For Rope Diameter Inches	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
$\frac{1}{8}$	\$.17	$\frac{3}{4}$	$1\frac{1}{2}$	2
$\frac{1}{4}$	.20	$\frac{3}{4}$	$1\frac{5}{8}$	3
$\frac{3}{8}$	.25	1	$1\frac{3}{4}$	4
$\frac{1}{2}$	.30	1	2	7
$\frac{3}{4}$	.35	$1\frac{1}{8}$	2	8

Swing Links

DROP FORGED STEEL WITH INTERLOCKING

LUGS



Fig. 784

Size Inches	Galvanized Per Dozen	Self Colored Per Dozen	Outside Dimensions Inches	Wt. Per Dozen in Lbs.
$\frac{1}{2}$	\$ 2.40	\$ 2.20	$\frac{7}{8} \times 1\frac{1}{8}$	$\frac{3}{4}$
$\frac{3}{8}$	2.90	2.40	$1\frac{1}{8} \times 2\frac{1}{8}$	$1\frac{1}{2}$
$\frac{1}{4}$	3.40	2.70	$1\frac{1}{4} \times 2\frac{1}{2}$	$2\frac{1}{4}$
$\frac{3}{8}$	4.60	3.50	$1\frac{1}{8} \times 2\frac{1}{8}$	$3\frac{3}{4}$
$\frac{1}{2}$	5.75	4.30	$1\frac{5}{8} \times 3\frac{1}{8}$	$5\frac{1}{2}$
$\frac{3}{4}$	9.00	7.50	$1\frac{1}{2} \times 3\frac{1}{2}$	$7\frac{3}{4}$
$\frac{1}{2}$	9.75	8.00	$2\frac{1}{8} \times 4\frac{1}{8}$	11
$\frac{3}{4}$	13.00	11.00	$2\frac{5}{8} \times 4\frac{7}{8}$	$19\frac{1}{4}$
$\frac{1}{2}$	20.50	17.00	$2\frac{7}{8} \times 5\frac{3}{4}$	$30\frac{1}{2}$
1	24.50	20.50	$3\frac{3}{4} \times 6\frac{1}{8}$	$43\frac{3}{4}$

Tiller Rope Clamps

GALVANIZED CAST IRON



Fig. 343

For Rope Diameter Inches	Galv. Each	Width Inches	Length Inches	Est. Wt. Each Pounds
$\frac{1}{8}$	\$.12	$\frac{3}{8}$	$1\frac{3}{8}$	$\frac{1}{8}$
$\frac{1}{4}$	.15	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{4}$
$\frac{3}{8}$	.20	$\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{4}$
$\frac{1}{2}$	.25	$1\frac{1}{8}$	2	$\frac{1}{2}$
$\frac{3}{4}$	.30	$1\frac{1}{8}$	$2\frac{1}{8}$	$\frac{1}{2}$

Machine Bolts
HOT FORGED BRONZE
HEX HEAD—HEX NUT



Fig. 726

PRICE PER HUNDRED

Length Under Head	Diameter of Bolts						
	¼"	5/16"	¾"	7/16"	½"	¾"	1"
1"	\$12.50*	\$14.50*	\$16.25*	—	—	\$21.90*	\$31.50
1½"	12.50*	14.50*	16.65*	—	—	22.50	32.90
1¾"	12.75	14.90	17.06	—	—	23.10*	33.80
2"	13.00*	15.30*	17.45*	\$20.50*	21.00	23.70	\$49.00
2¼"	13.25	15.70	17.85	21.00	21.50*	24.30*	—
2½"	13.50*	16.10*	18.25*	21.50*	22.00	24.90	35.80
2¾"	13.75	16.50	18.65	22.00	22.50*	25.50*	36.80
3"	14.00*	16.90*	19.05*	22.50*	23.00	26.10	37.80*
3¼"	14.25	17.30	19.45	23.00	23.50*	26.70*	38.80
3½"	14.50*	17.70*	19.85*	23.50*	24.00	27.30*	39.80
3¾"	14.75	18.10	20.25	24.00	24.50*	27.90*	40.80
4"	15.00*	18.50*	20.65*	24.50*	25.00*	28.50*	41.80*
4¼"	15.25	18.90	21.05	25.00*	25.50*	29.10*	42.80*
4½"	15.50	19.30*	21.45*	25.50*	26.00*	29.70*	43.80*
4¾"	15.75	19.70*	21.85*	26.00*	26.50*	30.30*	44.80*
5"	16.00*	20.10*	22.25*	26.50*	27.00*	30.90*	45.80*
5¼"	16.25	20.50*	22.65*	27.00*	27.50*	31.50*	46.80*
5½"	16.50*	20.90*	23.05*	27.50*	28.00*	32.10*	47.80*
6"	17.00	21.70*	23.85*	28.50*	29.00*	33.00*	48.80*
7"	18.00	23.30	25.45	30.50	30.00	33.80	51.50
8"	19.00	24.90	27.05	32.50	31.50	34.60	54.20
9"	20.00	26.50	28.65	34.50	33.00	35.40	56.90
10"	21.00	28.10	30.25	36.50	34.50	36.20	59.60

Larger Sizes — Price on application.

* STAR ALONGSIDE PRICE INDICATES SIZE CARRIED IN STOCK

Carriage Bolts

HOT FORGED BRONZE
ROUND HEAD—HEX NUT



Fig. 728

PRICE PER HUNDRED

Length Under Head	Diameter of Bolts					
	¼"	5/16"	¾"	7/16"	½"	¾"
1½"	\$12.00*	\$14.50*	\$16.00	\$20.00	—	—
2"	12.50*	15.30*	16.80*	21.00*	\$23.00*	—
2½"	13.00*	16.10*	17.60*	22.00	24.30*	\$42.50
3"	13.50*	16.90*	18.40*	23.00*	25.60*	44.50*
3½"	14.00*	17.20*	19.20*	24.00	26.90*	46.50*
4"	14.50*	18.00*	20.00*	25.00*	28.20*	48.50*
4½"	15.00*	18.80*	21.80*	26.00	29.50*	50.50*
5"	15.50*	19.60*	22.60*	27.00*	30.80*	52.50*
5½"	16.00*	20.40*	23.10*	28.00	32.10*	54.50*
6"	16.50*	21.20*	24.20*	29.00*	33.40*	56.50*
7"	18.00	23.20*	26.20*	31.50	36.40*	61.50
8"	19.50	25.20*	28.20*	34.00	39.40*	66.50
9"	21.00	27.20	30.20	36.50	42.40	71.50
10"	22.50	29.20	32.20*	39.00	45.40*	76.50

Larger Sizes — Price on application.

* STAR ALONGSIDE PRICES INDICATES SIZE CARRIED IN STOCK

Lag Screws

HOT FORGED BRONZE
SQUARE HEAD—GIMLET POINT



Fig. 727

PRICE PER HUNDRED

Length Under Head	Diameter of Screw						
	¼"	5/16"	¾"	7/16"	½"	¾"	1"
1½"	\$11.00*	\$12.00*	\$12.90*	—	—	—	—
2"	11.50*	12.50*	13.25*	\$16.20*	\$17.75*	\$26.00	\$38.50
2½"	12.00*	13.15*	14.20*	17.05*	18.85*	28.00	40.75
3"	12.50*	13.80*	15.00*	17.90*	20.00*	30.00*	43.00
3½"	13.00*	14.45*	15.80*	18.75*	21.20*	32.00*	45.85
4"	13.50*	15.10*	16.60*	19.60*	22.40*	34.00*	48.70
4½"	14.00	15.75*	17.40*	20.50*	23.60*	36.00	51.55
5"	14.50*	16.40*	18.20*	21.50*	24.80*	38.00*	54.40
5½"	15.00	17.05	19.00*	22.50*	26.10*	40.00	57.25
6"	15.50*	17.70*	19.80*	23.50*	27.40*	42.00*	60.10
7"	16.50	19.00	21.40*	25.50*	30.00*	46.00*	65.85
8"	17.50	20.30	23.00*	27.50*	32.60*	50.00*	71.55
9"	18.50	21.60	24.60	29.50	35.20	54.00	77.25
10"	19.50	22.90	26.20*	31.50	37.80*	58.00*	82.95
11"	20.50	24.20	27.80	33.50	40.40	62.00	88.65
12"	21.50	25.50	29.40	35.50	43.00	66.00	94.35

Larger Sizes — Price on application.

* STAR ALONGSIDE PRICE INDICATES SIZE CARRIED IN STOCK

Hanger Bolts

HOT FORGED BRONZE
HEX NUT—GIMLET POINT



Fig. 729

PRICE PER HUNDRED

Length Over All	Diameter of Screws					
	¼" & 5/16"	¾"	7/16"	½"	¾"	1"
2"	\$16.00*	—	—	—	—	—
2½"	16.50*	\$17.00*	—	\$23.20*	—	—
3"	17.00*	17.00*	\$20.00*	23.20*	\$32.00*	\$44.00
3½"	17.80*	17.80*	21.00*	24.40*	34.00	46.85
4"	18.60*	18.60*	22.00*	25.60*	36.00*	49.70
4½"	—	20.20*	24.00*	28.00*	40.00*	56.40
5"	—	21.80*	26.00*	30.40*	44.00*	62.20
6"	—	23.40*	28.00*	32.80*	48.00*	67.70
7"	—	25.00*	30.00	35.20*	52.00*	73.40
8"	—	26.60*	32.00	37.60*	56.00*	79.10
9"	—	28.20*	34.00	40.00*	60.00*	84.80
10"	—	29.80	36.00	42.40	64.00	90.50
11"	—	31.40	38.00	44.80	68.00	96.20

Larger Sizes — Price on application.

* STAR ALONGSIDE PRICES INDICATES SIZE CARRIED IN STOCK



Machine Bolts

HOT GALVANIZED AND PLAIN



Fig. 1078

Cut Thread—Square Head and Square Nut

PRICE PER 100 PIECES

Table with columns: Length in In., Diameter in Inches (3/8, 1/2, 5/8, 3/4, 7/8, 1), and Price per 100 pieces.

Table with columns: Length in Inches (1 1/2 to 24), Diameter in Inches (3/4, 1, 1 1/4, 1 1/2), and Price per 100 pieces.

Intermediate lengths take next higher list.

We stock Galvanized Bolts only. Plain Bolts (not Galvanized) furnished to order.

3/8 inch Machine and Carriage Bolts carried in stock up to 6 inches long.

1/2 inch Machine and Carriage Bolts not carried in stock.

Diameters and lengths not listed can be furnished—Price on Application.

Carriage Bolts

HOT GALVANIZED AND PLAIN

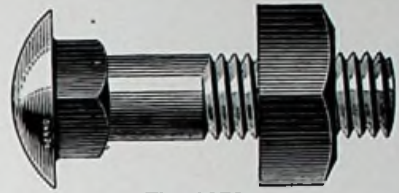


Fig. 1079

Cut Thread—Square Nut

PRICE PER 100 PIECES

Table with columns: Length in Inches (1 to 20), Diameter in Inches (3/8, 1/2, 5/8, 3/4, 7/8, 1), and Price per 100 pieces.

Intermediate lengths take next higher list.

Lag Screws

HOT GALVANIZED AND PLAIN



Fig. 1080

Cut Thread—Square Head—Gimlet Point

PRICE PER 100 PIECES

Table with columns: Lgth. In., Diameter in Inches (3/4, 1, 1 1/2, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 9, 10, 11, 12, 13, 14, 15, 16), and Price per 100 pieces.

Hexagon Brass Nuts
TAPPED U. S. STANDARD THREADS



Fig. 730

Bolt Diameter	U. S. S. Standard			List Price Per Hundred	
	Threads Per Inch	Width (Inches)	Thickness (Inches)	Milled Semi-Finished	Cast
5/16	24	3/8	5/16	\$1.60	
3/8	20	1/2	3/8	2.40	
1/2	18	5/8	1/2	3.20	
5/8	16	3/4	5/8	5.20	
3/4	14	7/8	3/4	7.20	
7/8	13	1	7/8	9.60	\$5.00
1	12	1 1/8	1	15.00	7.00
1 1/8	11	1 1/4	1 1/8	17.00	8.75
1 1/4	10	1 1/2	1 1/4	27.00	12.00
1 1/2	9	1 3/4	1 1/2	45.00	18.00
1 3/4	8	2	1 3/4	68.00	25.00
2	7	2 1/4	2		37.50
2 1/4	7	2 1/2	2 1/4		50.00
2 1/2	6	2 3/4	2 1/2		65.00
2 3/4	6	3	2 3/4		75.00
3	5 1/2	2 3/4	3		125.00
3 1/2	5	2 3/4	3 1/2		150.00
4	5	2 3/4	4		175.00
4 1/2	4 1/2	3 1/2	4 1/2		250.00

Square Iron Nuts

HOT GALVANIZED AND PLAIN
TAPPED U. S. STANDARD THREAD



Fig. 1084

Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100
1/4	13.8	\$.55	3/4	237.1	\$ 4.60
5/16	22.8	.75	7/8	371.0	7.20
3/8	37.4	1.05	1	518.1	10.00
1/2	55.7	1.50	1 1/8	725.4	14.00
5/8	78.6	2.00	1 1/4	957.0	19.60
3/4	109.8	2.80	1 3/8	1257.6	33.50
7/8	147.0	3.25	1 1/2	1604.9	45.20

Hexagon Iron Nuts

HOT GALVANIZED AND PLAIN
TAPPED U. S. STANDARD THREAD



Fig. 1085

Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100
1/4	12.2	\$.65	3/4	202.3	\$ 5.10
5/16	19.9	.90	7/8	314.1	8.00
3/8	32.7	1.20	1	441.4	11.15
1/2	48.4	1.75	1 1/8	617.2	15.55
5/8	68.4	2.25	1 1/4	819.3	21.40
3/4	97.2	3.10	1 3/8	1077.5	28.80
7/8	122.3	3.60	1 1/2	1371.0	38.70

Brass Washers



Fig. 731

Bolt Size	Outside Diameter	Inside Diameter	Thickness	Price Per Pound	Bolt Size
5/16	1/2	.195	.040	\$.80	5/16
3/8	5/8	.265	.051	.75	3/8
1/2	3/4	.335	.064	.75	1/2
5/8	1	.405	.081	.70	5/8
3/4	1 1/8	.475	.081	.70	3/4
7/8	1 1/4	.545	.091	.70	7/8
1	1 1/2	.615	.091	.70	1
1 1/8	1 3/4	.685	.102	.70	1 1/8
1 1/4	2	.755	.114	.70	1 1/4
1 1/2	2 1/4	.825	.128	.70	1 1/2
1 3/4	2 3/4	.895	.144	.70	1 3/4
2	3	.965			2

Wrought Steel Washers

HOT GALVANIZED—U. S. STANDARD SIZES



Fig. 1083

For Bolts Inches	Outside Diam. Inches	Size Hole Inches	Thickness Gauge Nos.	Thickness Inches	Number in 100 Pounds	Per Pound
3/16	9/16	1/4	18	3/64	36200	\$.38
1/4	3/4	5/16	18	1/16	14900	.33
5/16	7/8	3/8	10	1/16	11100	.33
3/8	1	7/16	14	5/64	6700	.21
7/16	1-1/4	1/2	14	5/64	4100	.20
1/2	1-3/8	9/16	12	7/64	2600	.19
9/16	1-1/2	5/8	12	7/64	2200	.19
5/8	1-3/4	11/16	10	1/8	1300	.18
3/4	2	13/16	10	1/8	1000	.18
7/8	2-1/4	15/16	9	5/32	728	.18
1	2-1/2	1-1/16	9	5/32	595	.18

Standard Packages Machine, Carriage and Lag Bolts

The bolts are packed in cartons or paper packages depending on length, shorter lengths are packed in cartons.

Diam. Inches	Machine Bolts		Carriage Bolts		Lag Bolts	
	Number Per Pkg.	Extreme Length Inches	Number Per Pkg.	Extreme Length Inches	Number Per Pkg.	Extreme Length Inches
1/4	100	8	100	8	100	10
5/16	50	10	50	10	100	10
3/8	50	12	50	12	50	12
1/2	50	12	50	12	50	12
5/8	50	10	50	8	50	12
3/4	25	12	25	12		
7/8	25	8	25	8		
1	25	8	25	8	25	8

Longer lengths and larger diameters packed according to the discretion of the manufacturer.

Brass Cap Screws



U. S. Standard Thread

Fig. 432

DIAMETER OF SCREW—PRICE PER HUNDRED

Length under Head Inches	¼ in.	⅜ in.	½ in.	⅝ in.	¾ in.	⅞ in.
½	\$ 4.70	\$ 6.70	....	....	....	....
⅝	4.90	6.90	\$ 8.80	....	....	....
¾	5.10	7.10	9.10	\$12.10	\$17.90	....
⅞	5.30	7.30	9.40	....	....	....
1	5.50	7.60	9.80	13.10	19.00	\$26.10
1¼	6.00	8.20	10.60	14.20	20.20	28.50
1½	6.50	8.90	11.50	15.40	21.50	31.00
1¾	7.10	9.70	12.50	16.70	22.90	33.60
2	7.80	10.80	13.60	18.10	24.40	36.40
2¼	8.70	11.80	14.80	19.60	26.00	39.40
2½	9.80	12.90	16.10	21.20	27.70	42.70
2¾	11.00	14.20	17.50	23.00	29.60	46.30
3	12.00	15.40	19.00	25.00	31.70	50.30

Tiller Rope Sheaves

GALVANIZED IRON AND BRASS

COMMON BUSHED



Fig. 806

Size Sheave Inches	Size Pin Inches	Galvanized Iron Each	Plain Brass Each	Size of Rope Inches
1 7/8 x 7/8	1/4 or 5/16	\$.30	\$.60	1/4
2 x 7/8	1/4 or 5/16	.30	.65	5/16
2 1/2 x 3/8	1/4 or 5/16	.35	.70	5/16
2 1/2 x 1/2	1/4 or 5/16	.35	.70	5/16
3 x 7/8	5/16 or 3/8	.45	.90	3/8
3 x 1 1/8	5/16 or 3/8	.45	1.00	3/8
3 1/4 x 1/2	5/16 or 3/8	.50	1.00	3/8
4 x 1/2	3/8 or 7/8	.60	1.40	3/8
4 x 5/8	3/8 or 7/8	.75	1.50	3/8
4 1/2 x 7/8	7/8 or 1/2	.75	1.50	7/8
4 1/2 x 3/4	7/8 or 1/2	.80	1.75	1/2
5 x 3/8	7/8 or 1/2	1.25	2.75	1/2
5 x 1	1/2 or 5/8	1.40	4.00	5/8
6 x 1 1/8	1/2 or 3/4	1.60	4.00	7/8
6 x 1	5/8 or 3/4	2.00	4.50	7/8

Brass Stove Bolts

ROUND HEAD AND FLAT HEAD



Fig. 709



Fig. 1091

PER HUNDRED, WITH NUTS

Length Inches	Diameter Inches			
	3/16	¼	5/16	¾
1 1/2	\$2.40	\$ 4.10	\$ 7.30	\$10.20
2	2.88	4.75	8.30	11.50
2 1/2	3.45	5.40	9.50	13.50
3	4.00	6.20	11.00	15.50
3 1/2		6.90	12.50	17.50
4		7.70	13.60	19.70
5		9.20	16.25	24.50
6		11.00	19.00	28.50

Manila Rope Sheaves

JAPANNED AND GALVANIZED



Fig. 807

Size Sheave Inches	Size Block Inches	Common Jap'd Each	Bushed Galv. Each	Roller Jap'd Each	Bushed Galv. Each
1 3/4 x 1/2 x 3/8	3	\$0.12	\$0.13	\$0.40	\$0.43
2 x 1/2 x 3/8	3 1/2	.13	.14	.42	.45
2 1/4 x 5/8 x 3/8	4	.15	.16	.45	.48
2 1/2 x 3/4 x 3/8	4 1/2	.18	.20	.50	.55
3 x 3/4 x 3/8	5	.25	.30	.55	.62
3 1/2 x 1 x 1/2	6	.30	.35	.65	.72
4 1/4 x 1 x 1/2	7	.38	.45	.75	.85
4 3/4 x 1 1/8 x 5/8	8	.45	.55	1.00	1.15
5 1/2 x 1 1/8 x 5/8	9	.55	.65	1.10	1.30
6 1/4 x 1 1/4 x 5/8	10	.65	.80	1.35	1.60
7 1/4 x 1 1/4 x 3/4	11	.85	1.00	1.65	1.90
8 x 1 3/8 x 3/4	12	1.10	1.30	1.90	2.15
9 x 1 1/2 x 3/4	13	1.65	2.40	2.50	3.25
9 1/2 x 1 5/8 x 7/8	14	2.00	2.80	2.75	3.50
10 x 1 5/8 x 7/8	15	2.20	3.00	3.00	3.85
11 x 1 3/4 x 7/8	16	2.50	3.40	3.25	4.25

Brass Spring Cotter Pins

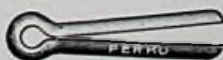


Fig. 703

Length Inches	PRICE PER 100 Diameter Inches			
	3/32	¼	5/32	3/10
1	\$.60	\$.75	\$1.15	.....
1 1/2	.75	1.00	1.50	\$2.20
2	.90	1.30	1.80	2.80
2 1/2		1.60	2.35	3.30

Other sizes on application, give size of sheave and diameter of rope.

Heavy Steering Rope Pulleys

CAST BRONZE—PLAIN
FOR WIRE ROPE

SIDE PATTERN



Fig. 962

The sturdy construction answers the demand for a larger and stronger tiller rope pulley. The sheave pin is $\frac{3}{8}$ inch diameter bronze rod.

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Length of Plate Inches
\$8.00	$\frac{1}{2}$	$6\frac{3}{4}$	9

UPRIGHT PATTERN

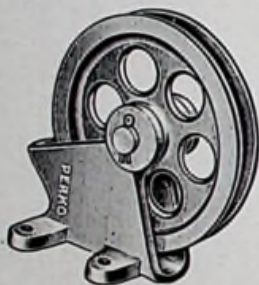


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches
\$8.00	$\frac{1}{2}$	$6\frac{3}{4}$	$7\frac{1}{2}$

Tiller Rope Pulley

SWIVEL EYE AND STRAP

CAST BRONZE—PLAIN



Fig. 585

For Rope Diam. Inches	Length Overall Inches	Diam. Wheel Inches	Length Strap Inches	Weight Oz.
$\frac{1}{8}$	$3\frac{1}{2}$	$1\frac{1}{8}$	2	6
Plain Bronze, Each				\$1.15

Tiller Rope Pulley

WITH FLANGE EYE—CAST BRONZE

Pulley hangs loose on flange eye and can be used at any angle. Cast bronze body, brass wheel turned from rod, no rough surface to wear tiller rope.



Fig. 579

For Rope Diam. Inches	Length Pulley Inches	Size Wheel Inches	Size Base of Strap Inches
$\frac{1}{8}$	$1\frac{3}{4}$	$1 \times \frac{1}{2}$	$\frac{3}{4} \times 2$
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$.75	\$1.15	\$1.75	

Tiller Rope Pulley

CAST BRONZE—PLAIN

Well constructed of heavy cast bronze, large diameter bronze wheel gives quick action and minimum wear to tiller rope. Wheel will take up to $\frac{1}{8}$ inch diameter rope.



Fig. 110

Height Overall Inches	Diam. Wheel Inches	Size Eye Inches	Weight Each Oz.
3 $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{3}{8} \times \frac{3}{8}$	8

Plain Bronze, Each\$1.00

Tiller Rope Pulley

WITH STRAP

CAST BRONZE—PLAIN

Pulley is same as Fig. 110 above, furnished complete with strap of cast bronze drilled for large screws, a sturdy and dependable fitting.



Fig. 111

Length Strap Inches	Width Strap Inches	Weight Complete Oz.
3	$\frac{3}{8}$	9

Plain Bronze, Each\$1.25

Flange Eyes

CAST BRONZE
For Fig. 579 Pulley



Fig. 580

Length Overall Inches	Width Overall Inches	Size Opening Inches
2	$\frac{3}{4}$	$\frac{3}{8}$
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each
\$.14	\$.30	\$.50
		Chromium Plated Each
		\$.80

Tiller Rope Guides

UPRIGHT PATTERN—CAST BRONZE

Cast bronze base, brass wheel turned from rod. Wheel turns very freely and has no rough surfaces to wear tiller rope.



Fig. 593

For Rope Diam. Inches	Size Base Inches	Weight Oz.
$\frac{1}{8}$	$\frac{7}{8} \times 1\frac{1}{4}$	2
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.65	\$.95	\$1.20



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.
$\frac{1}{8}$	$\frac{3}{4} \times 1\frac{1}{8}$	1 $\frac{1}{2}$
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.60	\$.95	\$1.40

Tiller Rope Guides

GALVANIZED CAST IRON AND BRONZE

Round Plate



Fig. 102

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
1	\$.15	\$.30	\$.55	\$1.55
2	.25	.40	.65	1.65
3	.35	.50	.80	1.80

Tiller Rope Guides

CAST BRONZE



Fig. 359

Size Hole Inches	Size Base Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each
$\frac{3}{8}$	$1\frac{1}{2} \times 1$	\$.14	\$.25	\$.35	\$.70
$\frac{1}{2}$	$1\frac{3}{4} \times 1\frac{1}{8}$	.16	.30	.40	.75
$\frac{3}{4}$	$1\frac{7}{8} \times 1\frac{1}{4}$	.18	.35	.45	.85

Tiller Rope Guides

GALVANIZED CAST IRON AND BRONZE OVAL PLATE



Fig. 599

Size No.	Size Hole Inches	Size Base Inches	Galv. Iron Each	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each
2	$\frac{3}{8}$	$\frac{1}{2} \times 1\frac{1}{2}$	\$.08	\$.14	\$.25	\$.70
3	$\frac{1}{2}$	$1\frac{1}{4} \times 1\frac{3}{4}$	.10	.16	.30	.75
	$\frac{3}{4}$	$1\frac{1}{2} \times 1\frac{1}{2}$	.12	.18	.35	.85

Galvanized Iron Rigging

FOR GUY ROPES



Fig. 759

Composed of six strands and a hemp center, 7 wires to the strand.

Diam. Inches	Circumference Inches	Price per ft.
$\frac{1}{8}$	$\frac{1}{2}$	\$0.03 $\frac{1}{2}$
$\frac{1}{4}$	$\frac{3}{4}$	.04
$\frac{1}{2}$	1	.06
$\frac{3}{8}$	$1\frac{1}{8}$	.08

Flexible Wire Tiller Rope

GALVANIZED AND BRONZE



Fig. 760

Composed of 6 ropes and a hemp center. Each rope has 6 strands of 7 wires each and a cotton center.

Diam. Inches	Galvanized Price Per Foot	Bronze Price Per Foot
$\frac{1}{8}$	\$.04	\$.06
$\frac{1}{4}$	.12	.15
$\frac{1}{2}$	.13	.17
$\frac{3}{8}$	.14	.20
$\frac{1}{2}$	.15	.28
$\frac{3}{4}$	.20	.40

Braided Tiller Rope

WITH BRONZE CENTER

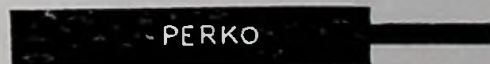


Fig. 761

Diam. Inches	Price Per Foot
$\frac{1}{8}$	\$.05
$\frac{1}{4}$	.06
$\frac{1}{2}$	.08
$\frac{3}{8}$	.11

All above rigging and tiller rope can be furnished in 250 and 500 foot reels.

Fast Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE
SINGLE

Without Becket



Fig. 43

With Becket



Fig. 54

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheaves Inches	Weight Each Pounds
1	\$.12	\$.25	\$.45	$\frac{1}{8}$	$\frac{3}{4} \times \frac{5}{16}$	$\frac{3}{16}$
3	.18	.30	.55	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{8}$
5	.28	.45	.75	$\frac{3}{16}$	$1 \frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4}$
7	.35	.55	.90	$\frac{3}{8}$	$1 \frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.50			$\frac{7}{16}$	$1 \frac{3}{4} \times \frac{5}{16}$	$\frac{1}{2}$
11	.70			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{5}{8}$
13	1.00			$\frac{5}{8}$	$2 \frac{1}{2} \times \frac{3}{4}$	$1 \frac{1}{16}$
15	1.50			$\frac{3}{4}$	$3 \times \frac{3}{8}$	$1 \frac{3}{8}$

Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY
FORGED STEEL HOOKS
SINGLE

Without Becket



Fig. 52

With Becket



Fig. 56

Size No.	Galvanized Each	Length of Shell Inches	For Rope Diam. Inches	Weight Each Pounds
1	\$.65	$1 \frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{16}$
3	.70	$1 \frac{5}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	.80	2	$\frac{3}{16}$	$\frac{1}{4}$
7	.90	$2 \frac{3}{8}$	$\frac{3}{8}$	$\frac{9}{16}$
9	1.15	3	$\frac{7}{16}$	$\frac{5}{8}$
11	1.50	$3 \frac{1}{4}$	$\frac{1}{2}$	1
13	2.00	4	$\frac{5}{8}$	$2 \frac{1}{4}$
15	2.75	$4 \frac{3}{8}$	$\frac{3}{4}$	$2 \frac{1}{2}$

Fast Eye Blocks

GALVANIZED MALLEABLE IRON
DOUBLE

Without Becket



Fig. 51

With Becket



Fig. 55

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheave Inches	Weight Each Pounds
2	\$.20	\$.45	\$.65	$\frac{1}{8}$	$\frac{3}{4} \times \frac{5}{16}$	$\frac{3}{16}$
4	.30	.60	.90	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{4}$
6	.45	.80	1.20	$\frac{3}{16}$	$1 \frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8}$
8	.55	1.00	1.50	$\frac{3}{8}$	$1 \frac{1}{2} \times \frac{1}{2}$	$\frac{5}{8}$
10	.80			$\frac{7}{16}$	$1 \frac{3}{4} \times \frac{5}{16}$	$\frac{3}{4}$
12	1.05			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1 \frac{1}{4}$
14	1.65			$\frac{5}{8}$	$2 \frac{1}{2} \times \frac{3}{4}$	$2 \frac{1}{16}$
16	2.50			$\frac{3}{4}$	$3 \times \frac{3}{8}$	$2 \frac{3}{4}$

Loose Hook Blocks

GALVANIZED MALLEABLE IRON
DOUBLE

Without Becket



Fig. 53

With Becket



Fig. 58

Size No.	Galvanized Each	Length of Shell Inches	For Rope Diam. Inches	Weight Each Pounds
2	\$.75	$1 \frac{1}{2}$	$\frac{3}{16}$	$\frac{1}{4}$
4	.85	$1 \frac{5}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
6	1.00	2	$\frac{3}{16}$	$\frac{1}{2}$
8	1.10	$2 \frac{3}{8}$	$\frac{3}{8}$	$\frac{7}{8}$
10	1.45	3	$\frac{7}{16}$	1
12	1.85	$3 \frac{1}{4}$	$\frac{1}{2}$	$1 \frac{1}{2}$
14	2.65	4	$\frac{5}{8}$	$2 \frac{1}{2}$
16	3.75	$4 \frac{3}{8}$	$\frac{3}{4}$	$3 \frac{3}{4}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Single



Fig. 100

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
0	$\frac{1}{8}$	1	$\frac{1}{2}$	$\frac{1}{2}$
1	$\frac{3}{16}$	$1\frac{1}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$
3	$\frac{1}{4}$	$1\frac{3}{4}$	1	2
5	$\frac{5}{16}$	2	$1\frac{1}{4}$	$2\frac{3}{8}$
7	$\frac{3}{8}$	$2\frac{1}{4}$	$1\frac{1}{2}$	$4\frac{7}{8}$

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
0	\$.13	\$.45	\$.65
1	.15	.45	.65
3	.25	.50	.75
5	.35	.70	1.00
7	.50	.80	1.25

Swivel Bolt Pulley

CAST BRONZE

A very strong pulley, bolt is held in by very large and sturdy head, hexagon brass nuts on other end, cannot be pulled off, body made from solid casting, wheel turned from brass rod. Size of bolt, $\frac{1}{4}$ inch, diameter, 2 inches long.



Fig. 578

No.	For Rope Diam. Inches	Length Shell Inches	Size Sheave Inches	Weight Oz.
3	$\frac{3}{16}$	2	$1\frac{1}{8}$	5
4	$\frac{3}{8}$	$2\frac{1}{4}$	$1\frac{3}{8} \times \frac{7}{16}$	7

No.	Plain Bronze Each	Polished Bronze Each
3	\$.85	\$1.15
4	.90	1.30

Side Pulleys

GALVANIZED CAST IRON AND BRONZE



Fig. 97

Size	Galv. Each	Pol. Bronze Each	Size Base Inches	Diam. Rope Inches	Weight Per Doz. in Lbs.
1	\$.25	\$.60	$\frac{3}{4} \times 2\frac{1}{16}$	$\frac{1}{4}$	$1\frac{3}{8}$
2	.35	.70	$\frac{1}{8} \times 2\frac{11}{16}$	$\frac{5}{16}$	2
3	.45	.90	$1 \times 3\frac{3}{8}$	$\frac{3}{8}$	$3\frac{1}{4}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Double



Fig. 101

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
0	$\frac{1}{8}$	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	$3\frac{3}{8}$
5	$\frac{5}{16}$	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	.....	.....

Blocks on Plates

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 107

Size No.	Galv. Each	Plain Brass Each	Pol. Brass Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$.55	\$1.20	\$1.75	$\frac{1}{4}$	Swivel Eye	20
5	.65	1.40	2.00	$\frac{3}{16}$	Swivel Eye	35
7	1.00	1.60	2.35	$\frac{1}{8}$	Swivel Eye	66
9	1.10	.....	.....	$\frac{7}{16}$	Fast Eye	72

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE

SINGLE



Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$.30	\$.20	\$.60	\$.90	$\frac{5}{16}$	1 $\frac{1}{4}$ x $\frac{3}{8}$
1	.40	.25	.75	1.00	$\frac{3}{8}$	1 $\frac{1}{2}$ x $\frac{1}{2}$
3	.65	.50	1.10	1.75	$\frac{1}{2}$	2 x $\frac{3}{8}$
5	1.20	.95	2.25	2.75	$\frac{5}{8}$	2 $\frac{1}{2}$ x $\frac{3}{4}$
7	1.90	1.50	3.25	4.00	$\frac{3}{4}$	3 x $\frac{1}{8}$

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE

DOUBLE



Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$.70	\$.50	\$ 1.25	\$ 1.75	$\frac{3}{8}$	1 $\frac{1}{2}$ x $\frac{1}{2}$
4	1.25	1.00	1.90	2.75	$\frac{1}{2}$	2 x $\frac{5}{8}$
8	3.00	2.50			$\frac{3}{4}$	3 x $\frac{1}{2}$

Deck Blocks

CLOSED PATTERN
GALVANIZED MALLEABLE AND CAST IRON

SINGLE



Fig. 93

Size No.	Mall. Iron Each	Cast Iron Each	For Dia. Rope Inches	Weight Each Pounds	Size Sheave Inches
000		\$.18	$\frac{1}{4}$	$\frac{3}{16}$	1 x $\frac{1}{8}$
0	\$.30	.20	$\frac{3}{16}$	$\frac{1}{4}$	1 $\frac{1}{4}$ x $\frac{3}{8}$
1	.40	.25	$\frac{3}{8}$	$\frac{1}{2}$	1 $\frac{1}{2}$ x $\frac{1}{2}$
3	.65	.50	$\frac{1}{2}$	1	2 x $\frac{3}{8}$
5	1.20	.95	$\frac{5}{8}$	1 $\frac{3}{4}$	2 $\frac{1}{2}$ x $\frac{3}{4}$
7	1.90	1.50	$\frac{3}{4}$	2 $\frac{1}{4}$	3 x $\frac{1}{2}$

Deck Blocks

CLOSED PATTERN
GALVANIZED MALLEABLE AND CAST IRON

DOUBLE

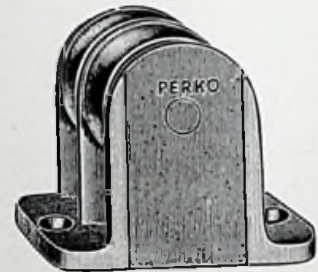


Fig. 94

Size No.	Mall. Iron Each	Cast Iron Each	For Dia. Rope Inches	Weight Each Pounds	Size Sheave Inches
2	\$.70	\$.50	$\frac{3}{8}$	$\frac{3}{8}$	1 $\frac{1}{2}$ x $\frac{1}{2}$
4	1.25	1.00	$\frac{1}{2}$	1 $\frac{1}{2}$	2 x $\frac{5}{8}$

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE



Fig. 95

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$.30	\$.60	\$.85	$\frac{1}{4}$	1 x $\frac{3}{8}$
1	.35	.75	1.00	$\frac{1}{8}$	1 $\frac{3}{8}$ x $\frac{1}{8}$
2	.45	.85	1.25	$\frac{3}{8}$	1 $\frac{1}{2}$ x $\frac{1}{2}$
3	.90	1.35	1.90	$\frac{1}{2}$	2 x $\frac{3}{8}$
4	1.50			$\frac{5}{8}$	2 $\frac{1}{2}$ x $\frac{3}{4}$
5	2.00			$\frac{3}{4}$	3 x $\frac{1}{2}$
6	3.50			$\frac{7}{8}$	3 $\frac{1}{2}$ x 1

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
11	\$.75	\$ 1.20	\$ 1.60	$\frac{5}{16}$	1 $\frac{3}{8}$ x $\frac{1}{8}$
12	1.10	1.75	2.00	$\frac{3}{8}$	1 $\frac{1}{2}$ x $\frac{1}{2}$
13	1.65	2.60	3.25	$\frac{1}{2}$	2 x $\frac{5}{8}$

Deck Blocks

FOR WIRE ROPE

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 139

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8}$ x $\frac{1}{16}$	$\frac{3}{8}$
2	1.10	2.25	3.00	$\frac{3}{8}$	3 x $\frac{1}{16}$	$1\frac{3}{8}$
3	2.00	4.00	5.25	$\frac{1}{2}$	4 x $\frac{3}{16}$	$2\frac{3}{4}$
3 1/2	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 $\frac{7}{8}$	$5\frac{1}{4}$
5	5.25			$\frac{3}{4}$	6 x 1	11

Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON AND BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	$\frac{1}{4}$ - $\frac{1}{8}$	$1\frac{1}{8}$ x $\frac{1}{16}$	$\frac{3}{8}$
2	.95	2.25	3.00	$\frac{3}{8}$	3 x $\frac{1}{16}$	$1\frac{3}{8}$
3	1.75	4.00	5.25	$\frac{1}{2}$	4 x $\frac{3}{16}$	$2\frac{3}{4}$
3 1/2	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 $\frac{7}{8}$	$5\frac{1}{4}$
5	4.75			$\frac{3}{4}$	6 x 1	11

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE—SIDE PATTERN



Fig. 194

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.70	\$1.50	$\frac{1}{4}$	$2\frac{1}{2}$ 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	$\frac{3}{8}$ - $\frac{1}{2}$	$4\frac{1}{2}$ x $\frac{1}{16}$	$2\frac{3}{8}$

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE—SIDE PATTERN



Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
11	\$1.15	\$2.25	$\frac{1}{4}$	$2\frac{1}{2}$ 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	$\frac{3}{8}$ - $\frac{1}{2}$	$4\frac{1}{2}$ x $\frac{1}{16}$	$4\frac{1}{4}$

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE—UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
10	\$.70	\$1.50	$\frac{1}{8}$	$2\frac{1}{2}$ x $\frac{3}{8}$	$\frac{5}{8}$
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	$\frac{3}{8}$ - $\frac{1}{2}$	$4\frac{1}{2}$ x $\frac{1}{16}$	$2\frac{1}{2}$

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE—UPRIGHT PATTERN



Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
110	\$1.15	\$2.25	$\frac{1}{8}$	$2\frac{1}{2}$ 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	$\frac{3}{8}$ - $\frac{1}{2}$	$4\frac{1}{2}$ x $\frac{1}{16}$	$4\frac{1}{4}$

Polished Bronze Yacht Blocks

MANGANESE BRONZE—PLAIN OR ROLLER BUSHED

Made of high grade manganese bronze, of great tensile strength, yet as light in weight as practicable to insure that strength.

Shells and sheaves are smooth and edges rounded, will not wear or cut rope.

All are furnished with or without becket, and in polished or nickel plated.



Without Becket



With Becket

Size No.	Size of Sheave Inches	For Rope Diam. Inches
0	1 1/4 x 1/4	3/8
1	1 3/8 x 1/2	7/8
2	1 7/8 x 5/8	1 1/8

Front Shackle Block



Fig. 851

No.	SINGLE	
	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15
No.	DOUBLE	
	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Side Shackle Block



Fig. 854

No.	SINGLE	
	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15
No.	DOUBLE	
	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Upset Front Shackle Block



Fig. 852

No.	SINGLE	
	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15
No.	DOUBLE	
	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Upset Side Shackle Block



Fig. 855

No.	SINGLE	
	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15
No.	DOUBLE	
	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Loose Side or Front Hook Block



Fig. 853

No.	SINGLE	
	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15
No.	DOUBLE	
	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

State whether Side or Front Hook is desired.

Open Snatch Block



Fig. 856

No.	SINGLE ONLY	
	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15

FOR SIZE OF SHEAVE AND ROPE, REFER TO TOP OF PAGE SPECIFY SINGLE OR DOUBLE, WITH OR WITHOUT BECKET. DEDUCT 10% FOR PLAIN FINISH.

CHROMIUM PLATED Yacht Blocks — Price on Application

POLISHED BRONZE YACHT BLOCKS

Snap Shackle Block SIDE OR FRONT TYPE



Fig. 857

SINGLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$2.60	\$3.10
1	3.10	3.75
2	4.25	4.90
DOUBLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$3.50	\$4.50
1	4.50	5.70
2	6.25	7.50

Block With Eye Strap



Fig. 861

SINGLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15
DOUBLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Self Locking Bridle Block FOR PEAK HALYARD



Fig. 858

SINGLE ONLY		
No.	Plain Bushed Each	Roller Bushed Each
1	\$3.40	\$4.00
2	4.50	5.25

Bridle Only see Fig. 877

Link Deck Leader



Fig. 862

SINGLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$1.85	\$2.35
1	2.25	2.90
2	3.25	3.90
DOUBLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$2.80	\$3.80
1	3.65	4.85
2	5.25	6.50

Main Sheet Bridle Block



Fig. 859

SINGLE ONLY		
No.	Plain Bushed Each	Roller Bushed Each
0	\$1.85	\$2.35
1	2.25	2.90
2	3.25	3.90

Halyard Deck Leader



Fig. 863

SINGLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$1.75	\$2.25
1	2.10	2.75
2	3.00	3.65
DOUBLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$2.65	\$3.65
1	3.50	4.70
2	5.00	6.25

Peak Halyard Bridle Block



Fig. 860

SINGLE ONLY		
No.	Plain Bushed Each	Roller Bushed Each
1	\$3.40	\$4.00
2	4.50	5.15
BRIDLE ONLY WITH EYE		
No.	Plain Bronze Each	Polished Bronze Each
1	\$1.65	\$2.10
2	1.90	2.35

Swivel Deck Leader



Fig. 864

SINGLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$2.75	\$3.25
1	3.25	3.90
2	4.25	4.90
DOUBLE		
No.	Plain Bushed Each	Roller Bushed Each
0	\$3.65	\$4.65
1	4.65	5.85
2	6.25	7.50

SIZES AND OTHER INFORMATION ON PAGE 166
DEDUCT 10% FOR PLAIN FINISH
CHROMIUM PLATED Yacht Blocks — Price on Application

BRONZE YACHT BLOCKS AND FITTINGS

Wide Mortise Blocks POLISHED

FOR JIB SHEETS AND LAZY JACKS

A short block with thick sheave for large rope.



Fig. 865

SINGLE ONLY

No.	For Rope Diam. Inches	Diam. Sheave Inches	Plain Bushed Each
1	1/2	1 1/2	\$3.50
2	3/8	1 3/4	4.50

Deduct 10% for Plain Finish.

Bullet Blocks

FOR JIB SHEETS AND LEADERS
SINGLE ONLY



Fig. 869

No.	For Rope Diam. Inches	Size Sheave Inches	Polished Bronze Each
0	1/8	3/4 x 1/4	\$.65
1	3/8	7/8 x 1/2	.80
2	1/2	1 1/8 x 3/8	1.00
3	3/4	1 1/4 x 3/8	1.25

Deduct 10% for Plain Finish.

Cheek Block POLISHED



Fig. 866

SINGLE

No.	Plain Bushed Each	Roller Bushed Each
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15

DOUBLE

No.	Plain Bushed Each	Roller Bushed Each
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Deduct 10% for Plain Finish.

Bullet Blocks On Snap Shackle

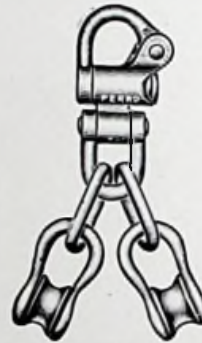


Fig. 870

FOR JIB SHEETS

No.	For Rope Diam. Inches	Lgth. Snap Shackle Inches	Polished Bronze Per Set
0	1/8	2 3/8	\$3.75
1	3/8	3 1/4	4.50

Deduct 10% for Plain Finish.

Improved Centerboard Block POLISHED



Fig. 867

SINGLE ONLY

No.	Plain Bushed Each
0	\$1.50
1	1.75
2	2.50

Deduct 10% for Plain Finish.

Open Lead Blocks



Fig. 868

FOR GENOA JIB SHEETS

No.	For Rope Diam. Inches	Size Sheave Inches	Polished Bronze Each
1	3/8	7/8 x 1/2	\$2.00
2	1/2	1 1/4 x 3/8	3.00

Deduct 10% for Plain Finish.

Centerboard Blocks

GALV. MALLEABLE IRON AND BRONZE



Fig. 827

No.	Galvanized Each	Plain Bronze Each	Polished Bronze Each	Size Rope Inches	Size Sheave Inches
1	\$.80	\$1.50	\$2.00	3/8	1 1/2 x 1/2
2	1.50	2.50	3.00	1/2	2 x 3/8

All above items furnished CHROMIUM PLATED if desired—Price on Application

Bronze Block Shackles MANGANESE BRONZE



Fig. 893

No.	Size Inches	Plain Each	Polished Each
0	1/4	\$.35	\$.50
1	1/4	.40	.55
2	3/8	.50	.65
3	3/8	.80	1.00

BRONZE YACHT FITTINGS

Fast Eye Snap Shackle

MANGANESE BRONZE—PLAIN

For Balloon Jib, Spinnaker, Halyards and Sheets.

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$1.00	1/4	2 1/8	3/8
1	1.25	5/16-3/8	2 3/8	3/4
2	1.75	1/2-1/2	3 3/8	7/8



Fig. 873

Swivel Eye Snap Shackle

MANGANESE BRONZE—PLAIN

For Ballon Jib, Spinnaker, Halyards and Sheets.

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$1.60	1/4	2 3/8	5/8
1	2.00	5/16-3/8	3 3/4	3/4
2	2.75	1/2-1/2	4 1/2	7/8



Fig. 874

Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.25	2	3/4
2	1.55	2 1/2	7/8



Fig. 875

Improved Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.50	2 1/4	3/4
2	2.00	3	7/8



Fig. 876

Self Locking Bridles

MANGANESE BRONZE—PLAIN

FOR PEAK HALYARD BLOCKS

No.	Price Each	For Wire Inches	Size Opening For Block Inches
1	\$1.25	1/4	3/8
2	1.50	5/16	1/2
3	1.80	3/8	5/8



Fig. 877

Boom Plate Travelers

MANGANESE BRONZE



Fig. 878

Diam. Boom	Plain Each	For Mast Inches	Width of Plate Inches
2	\$.80	2 1/2	1 1/4
2 1/2	.90	3	1 1/2
3	1.10		1 3/8

Rigging Cleats

MANGANESE BRONZE



Size No.	Plain Each	For Mast Inches	Size Overall Inches
1	\$1.00	2 1/2	2 1/2 - 1 1/2
2	1.50	3	3 - 2 1/2
3	2.00	4	4 - 3 1/2

Size No.	Handles Only Each	For Diam. Rope Inches	Weight Each Pounds
1	\$14.00	3/8	3
2	18.50	1/2	6
3	28.00	3/8	12

Size No.	Smallest Diam. Drum Inches	Height Inches	Diam. Base Inches	Radius Handle Inches
1	1 3/4	2 3/4	3 1/2	7 3/4
2	2 1/4	3	4 1/4	10
3	3	4 1/2	5 3/4	12 1/2

BOTTOM ACTION TYPE

With Folding Handle—Not Removable



Fig. 802

Size No.	Price Each	Minimum Drum Dia. Inches	Total Height Inches	Base Dia. Inches	Radius of Hdle. Inches	Suitable Dia. Rope Inches
1	\$14.00	1 1/8	3 1/4	4	9 1/2	3 1/2

No.	Plain Each	Polished Each
0	\$.22	\$.35
1	.28	.45
2	.35	.55
3	.45	.65

Deck Straps

MANGANESE BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches
1	\$.40	\$.50	5 1/2
2	.50	.60	4 1/4
3	.60	.75	4 3/4

All above items furnished CHROMIUM PLATED if desired—Price on Application

Bronze Rigging Turnbuckles

MANGANESE BRONZE

With Stiff Jaw Ends—S. A. E. Threads



Fig. 932

Size Inches	Plain Each	Polished Each	Length Inches Pin to Pin of Stiff Jaws		Jaw Opening Inches	Suitable Airplane Wire Rope Inches
1/4	\$2.85	\$3.25	7 1/8	10 3/8	Both 1/4	1/8
5/16	3.00	3.50	7 7/8	11 3/8	Both 5/16	3/16
3/8	3.75	4.25	9	12 3/4	Both 3/8	1/4
7/16	4.35	5.00	10	14 1/4	1 1/8 - 1 1/16	1/4
1/2	5.25	6.00	11 1/2	16 1/2	1 1/2 - 3/8	3/8

Prices do not include toggle.

Junior Rigging Turnbuckles

BRONZE

WITH JAW ENDS—S.A.E. THREADS



Fig. 470

Size Inches	Plain Each	Polished Each	Length Pin to Pin		Jaw Opening Inches
1/4	\$1.75	\$2.25	6 1/4	8 7/8	1/4
5/16	2.00	2.50	7 1/4	10 1/4	5/16

New Backstay Fittings

CAST BRONZE—POLISHED

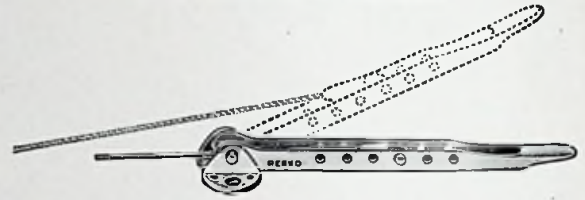


Fig. 1098

For quick release of backstay this fitting can't be beat. Turnbuckles are unnecessary. Complete with socket for 1/8 inch rigging. A set consists of fittings for port and starboard. Illustration shows 1/2 set.

Per Set	Length Inches	Base Inches	For Rigging Inches	Weight Pounds
\$7.50	12 1/4	3 1/4 x 2	up to 5/8	1 1/2

Cheek Block

POLISHED



Fig. 866

SINGLE		Roller Bushed Each
No.	Plain Bushed Each	
0	\$1.50	\$2.00
1	1.75	2.40
2	2.50	3.15

DOUBLE		Roller Bushed Each
No.	Plain Bushed Each	
0	\$2.40	\$3.40
1	3.15	4.35
2	4.50	5.75

Deduct 10% for Plain Finish.

Improved Centerboard Block

POLISHED



SINGLE ONLY

No.	Plain Bushed Each
0	\$1.50
1	1.75
2	2.50

Bronze Rigging Turnbuckles

WITH JAW AND SNAP SHACKLE

MANGANESE BRONZE—S. A. E. THREADS

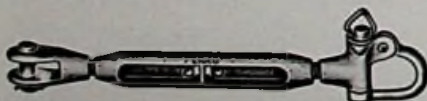


Fig. 1029

Size Inches	Plain Each	Polished Each	Takeup Inches	Length Open Inches	Jaw Opening Inches	Shackle Opening Inches
1/4	\$4.70	\$5.20	3 1/2	11	1/4	5/8
5/16	5.00	5.50	4	12 3/4	5/16	5/8
3/8	5.50	6.50	4 1/8	13 3/4	3/8	3/4
7/16	6.25	7.25	4 3/8	14 3/8	7/16	3/4
1/2	7.25	8.25	4 3/4	16 1/2	1/2	7/8

Bronze Wire Rope Sockets

MANGANESE BRONZE

Eliminating the necessity of splicing wire rigging, especially the difficult splicing of stainless steel rigging. While lead is commonly used when socketing the wire we recommend the use of zinc.

CLOSED TYPE



Fig. 756

No.	Each	Diam. Wire Inches	Width Inside Inches	Length Overall Inches	Weight Ounces
1	\$.40	1/8	3/8	1 3/4	1
2	.50	1/4	1/2	2 1/4	2
3	.70	3/8	5/8	2 3/4	3

OPEN TYPE



Fig. 757

No.	Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
11	\$.60	1/8	1/4	1/4	1 3/4	1
12	.75	1/4	5/16	1/4	2 1/4	2 1/2
13	1.05	3/8	3/8	3/8	2 3/4	3 1/2

All above items furnished CHROMIUM PLATED if desired—Price on Application

Wind Pennants

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

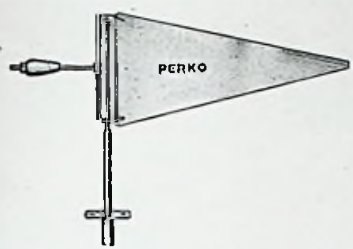


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

FURNISHED IN PAINTED FINISH,
EITHER RED, BLUE OR WHITE
For Mast 1 Inch Diam. at Top, $\frac{1}{8}$ Hole

No.	Painted Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$2.10	6 1/2 x 3	7 1/4	2 1/2
2	2.60	9 1/2 x 4 1/2	9	3 1/2
3	3.50	12 x 6	12 1/2	10
4	4.50	15 x 7 1/2	14	14

Ratchet Winches

POLISHED MANGANESE BRONZE

Of rugged construction, positive but simple action, can be used with wire as well as rope. The handles swing with a pump motion in a 130 degree arc. Power ratio about 8 to 1. On the top action type the handle is removable but snap catch prevents it dropping out accidentally.

TOP ACTION TYPE
With Removable Handle



Fig. 800

Size No.	Each	Handles Only Each	For Diam. Rope Inches	Weight Each Pounds
1	\$14.00	\$2.25	3/8	3
2	18.50	3.50	1/2	6
3	28.00	4.75	5/8	12

Size No.	Smallest Diam. Drum Inches	Height Inches	Diam. Base Inches	Radius Handle Inches
1	1 3/4	2 3/4	3 1/2	7 3/4
2	2 1/4	3	4 1/4	10
3	3	4 1/2	5 3/4	12 1/2

Toggles for Turnbuckles

MANGANESE BRONZE—POLISHED

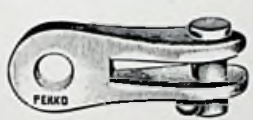


Fig. 1033

No.	Price Each	For turnbuckle Inches	Width Between jaws Inches
1	\$.75	1/4	5/16
2	.85	5/16	3/8
3	1.15	3/8	3/8
4	1.25	7/16	5/16
5	1.40	1/2	7/16

BOTTOM ACTION TYPE

With Folding Handle—Not Removable



Fig. 802

Size No.	Price Each	Minimum Drum Dia. Inches	Total Height Inches	Base Dia. Inches	Radius of Hdle. Inches	Suitable Dia. Rope Inches
1	\$14.00	1 5/8	3 1/4	4	9 1/2	3/8
2	18.50	2 3/8	4	5	12	1/2 or 5/8

Solid Wire Rope Thimbles

MANGANESE BRONZE—POLISHED



Fig. 929

For Size Rope Inches	Price Each	Thick-ness Inches	For Turnbuckle Inches
1/8	\$.30	3/32	1/4
3/16	.35	1/16	5/16
1/4	.40	1/8	3/8
5/16	.45	5/32	1/2
3/8	.55	1/4	5/8
1/2	.80	3/8	3/4

Bronze Wire Rope Thimbles

WROUGHT BRONZE—DIPPED



Fig. 930

For Size Rope Inches	Price Each
1/8	\$.15
3/16	.15
1/4	.20
5/16	.25
3/8	.35
1/2	.45
5/8	.50
3/4	.70

For dimensions refer to Fig. 466, Page 147.

Bronze Gooseneck Bands

MANGANESE BRONZE—PLAIN



Fig. 883



Fig. 884

Boom straps are measured from outside to outside of straps, as they are mortised into the side of the boom so as to be flush with the boom surface.

No.	Mast Diam. Inches	Diam. Boom End Inches	Fig. 883 Each	Fig. 884 Each
1	3 1/4 to 3 1/2	1 3/4	\$4.00	\$5.50
2	4 to 4 1/2	2 1/2	4.00	5.50

Bronze Gooseneck Band

WITH FLAT PLATE FOR SQUARE OR T MASTS
MANGANESE BRONZE—PLAIN

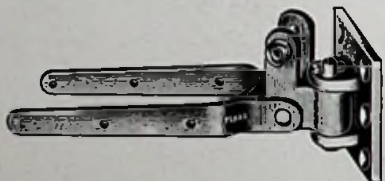


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

No.	Price Each	Width of Plate Inches	Length of Plate Inches	Diameter Boom end Inches
1	\$4.00	2	3	1 3/4
2	4.00	3	4	2

Gooseneck Bands

GALVANIZED DROP FORGED STEEL

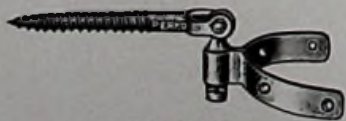


Fig. 886

For Size Mast Inches	Each	Weight Each Pounds	For Size Mast Inches	Each	Weight Each Lbs.
2 1/2	\$2.70	7/8	3 1/2	\$2.90	1 3/8
3	2.70	1	4	3.50	1 3/4

Adjustable Gooseneck Bands

GALVANIZED DROP FORGED STEEL

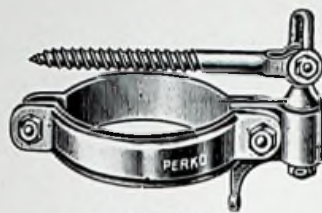


Fig. 885

Inside Diam. of Band Inches	Without Belaying Pin Holes Each	With Four Belaying Pin Holes Each	Diam. of Screw Inches
3	\$2.90	\$ 8.00	7/8
3 1/2	3.25	8.75	1 1/8
4	3.85	9.80	1 1/2
4 1/2	4.20	11.00	1 3/4

Larger sizes made to order.

Prices do not include belaying pins. Furnished without belaying pin holes unless otherwise specified.

Socket Gooseneck Bands

GALVANIZED FORGED STEEL BANDS
WITH MALLEABLE IRON BOOM SOCKET
OR FORGED STEEL STRAPS

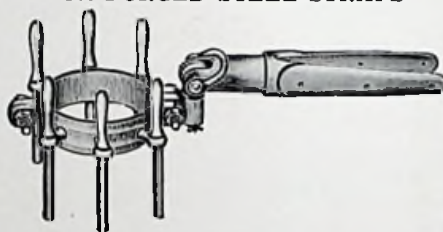


Fig. 758

*In-side Dia. of Band Inches	Without Belaying Pin Holes Each	With Four Belaying Pin Holes Each	With Six Belaying Pin Holes Each	Boom Diam. at outer end of Sockets Inches	For Belaying Pin Dia. Inches
3	\$ 7.00	\$12.00		1 3/4	3/8
3 1/2	8.00	13.00		2	3/8
4	9.00	14.00		2 1/4	3/8
4 1/2	9.50	16.00		2 1/4	3/8
5	10.00	18.00	\$20.00	2 1/2	3/8
6	12.50	20.00	21.00	3	7/8
7	14.50	21.00	23.00	3 1/2 to 4 1/2	1 1/2
8	18.00	22.00	26.00	5	3/8

†Belaying Pins are not sent unless specifically ordered and are then charged extra. Larger sizes made to order.

Jib Club Fittings

MANGANESE BRONZE—PLAIN



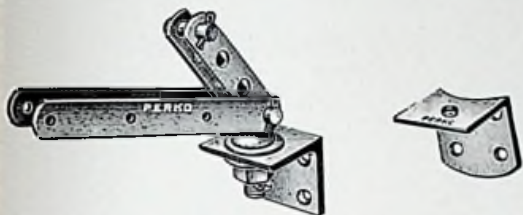
Fig. 887

Allows club to be easily removed from jib stay.

No.	For Diam. Club Inches	Price Each
1	1 1/2	\$3.75
2	1 3/4	4.25
3	2	4.75

"Snipe" Boom Fittings

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast Plate for Round Mast

Fig. 888

Plain Brass Each	Polished Brass Each	Width Plate Inches	For Boom Inches	Weight Each Pounds
\$2.25	\$3.00	2	1 to 1½	1½

When ordering, specify whether for square or round mast.

Snipe Travelers

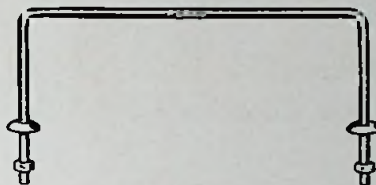


Fig. 271

Plain Brass Each	Polished Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
\$1.50	\$2.25	¾x18	6	1½

Snipe Centerboards

GALVANIZED IRON

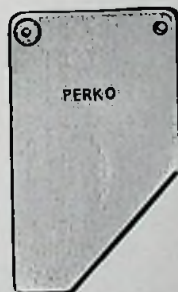


Fig. 134

Galvanized Each	Size Inches	Weight Pounds
\$7.50	36x21x 1/16	32

"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 Rope Diam. Inches	Dim. Straps Inches	For Wood Bolt Diam. Inches	Thick-ness Inches	Wt. Each Lbs.
47	\$.60	\$.75	1/16	¾x4	1/4	2	1/8
57	1.00	1.25	1/16	¾x4	1/4	2 1/8	1/4

Centerboard Hoisting Strap

FOR "SNIPE" PIVOT TYPE CENTERBOARDS

GALVANIZED



Fig. 212

Required only when Pivot Type Centerboards are used on "Snipe" class sail boats.

"Snipe" Chain Plates

BRASS



Fig. 143

Plain Each	Polished Each	Size Inches	Weight Ounces	Price Each	Length Inches	Width Opening Inches	Size Holes Inches
\$.70	\$.90	10½x1x1/8	6	\$.30	2½	¾	¾

BRONZE YACHT FITTINGS

Automatic Jam Cleats

CAST BRONZE—POLISHED
OPEN EYE

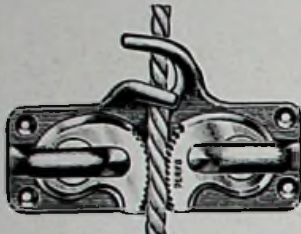


Fig. 895

An exceptionally strong and positive grip, can be operated at some distance from cleat, a jerk on the rope releases it. Open guide for leading rope, takes rope from $\frac{1}{8}$ to $\frac{1}{2}$ inch diameter inclusive.

Price Each \$4.75

Automatic Jam Cleats

CAST BRONZE—POLISHED
CLOSED EYE



Fig. 1093

Same cleat as Fig. 895 above except the eye which is closed for use with jib sheets, etc.

Price Each \$4.75

Racing Jam Cleats

CAST BRONZE



Fig. 762

Length Inches	For Size Rope Inches	Polished Bronze Each
3 1/2	1/4	\$1.80
4	3/8	2.20
6	1/2	3.00

Double Jam Cleats

CAST BRONZE—POLISHED



Fig. 1030

No.	Price Each	Length Inches	Width Inches
1	\$1.00	4	1/2
2	1.25	5	3/8

Roller Jam Cleats

CAST BRONZE



Fig. 894

No. 1 Size is ideal for Snipes, Moths, Comets, etc.
No. 2 Size for Star Class and other Sail Boats of like size.

No.	Polished Bronze Each	For diam. Rope Inches	Extreme Length Inches
1	\$1.40	1/8 to 1/4	4
2	1.60	1/4 to 3/8	5 1/4

Single Flare Lip Leaders

CAST BRONZE



Fig. 764

No.	Plain Each	Polished Each	Small Opening Inches
1	\$.15	\$.30	1/2
2	.20	.40	3/8

Double Flare Lip Leaders

CAST BRONZE



Fig. 889

No.	Plain Each	Polished Each	Opening Inches
0	\$.25	\$.35	3/8
1	.30	.40	1/2
2	.40	.50	3/4

Masthead Trucks

LIGNUMVITAE



Fig. 891

Diam. Inches	Two Holes Each	One Sheave Each	Two Sheaves Each
2	\$.72	\$.90	\$1.20
2 1/2	.72	.90	1.20
3	.72	.90	1.20
3 1/2	.80	1.05	1.40
4	1.00	1.25	1.70
4 1/2	1.15	1.50	1.95
5	1.35	1.80	2.30
5 1/2	1.60	2.10	2.70
6	1.95	2.40	3.10

Masthead Sheaves

FOR MANILA ROPE

CAST BRONZE—PLAIN BEARING



Fig. 892

Diam. Inches	Price Each	For Diam. Rope Inches	Thick-ness Inches	Bear-ing Inches
1 3/4	\$.50	1/4	3/8	1/4
2	.65	1/8	1/2	1/4
2 1/4	.80	3/8	1/2	3/8

Jib Snap Hooks

CAST BRONZE



Fig. 1037

A very strong, quick acting Snap. Has two holes for fastening to luff rope of jib. Brings the sail close to the stay.

No.	Plain Each	For Size Stay Inches	For Size Luff Rope Inches
1	\$.40	1/8 or 1/4	1/8
2	.60	3/16	3/8

All above items furnished CHROMIUM PLATED if desired—Price on Application

Tubular Spreaders

BRASS TUBE—BRONZE FITTINGS



Fig. 1031

Made of seamless brass tubing with cast bronze fittings both ends, the mast plate has an integral projecting lip serving the purpose of a shoulder cleat for stays. Very strong but light in weight.

No.	Plain Per Pair	Length Inches	Diam. Inches	Size of Mast Plate Inches	Weight Per Pair Pounds
1	\$4.50	17 1/2	1/2	1 3/4 x 1 3/4	3/4
2	5.50	21 1/2	5/8	1 3/4 x 1 3/4	1
3	6.50	28	3/8	1 3/4 x 1 3/4	1 1/4

Head and Jibstay Fittings

CAST BRONZE—PLAIN



Fig. 1032

For allowing various adjustments of head and jibstays, has an angular hole for lag screw in forward end or fastening to stem.

No.	Price Each	Length Inches	Width Inches	Number of Holes	Weight Each Ounces
1	\$1.75	5	1 1/2	5	12
2	2.00	7 3/4	1 3/4	8	28

Snap Action Clew Outhaul

MANGANESE BRONZE—PLAIN



Fig. 871

With spring pin so sail can be put on or taken off easily.

No.	Price Each	For Width Rolled Track Inches	Length Overall Inches
1	\$2.50	3/8	5
2	3.50	1/2	5 1/2

Clew Outhaul Slides

MANGANESE BRONZE—PLAIN



Fig. 872

No. 1 size is furnished with nickel silver rolled track like Fig. 99.

No. 2 and 3 sizes are furnished with heavy cast bronze track as illustrated.

No. 3 size has a sheave for wire instead of groove.

No.	Plain Bronze Each	Width Track Inches	Lgth. Track Inches
1	\$2.25	5/8	15
2	4.25	3/4	13
3	6.50	7/8	15

Mast Track and Slides

NICKEL SILVER

Slide

Track

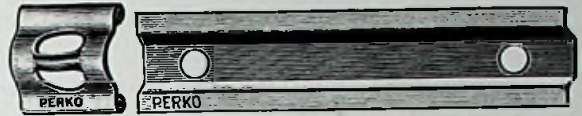


Fig. 98

Fig. 99

Width Track Inches
3/8
5/8
7/8

Slides Price Each
\$.09
.14

Track Price Per Foot
\$.16
.20

"Perko" slides will fit any make of track of corresponding design and size.

Stock lengths of track are 8 and 10 feet. All orders will be filled with lengths available to make up total number of feet ordered.

Sail Slides with Thimble

NICKEL SILVER SLIDE—BRASS THIMBLE

Our standard Fig. 98 Sail Slide with a brass sail thimble attached.



Fig. 1036

For width Of track Inches
3/8
1/2
5/8

Price Each Complete
\$.15
.20

Diam. of Thimble Inches
1/2
3/8

Score of Thimble Inches
1 1/4
1 1/8

Marconi Headboards

ALUMINUM ALLOY



Fig. 462

Headboards improve the set of the sail and are almost indispensable on Marconi Rigs.

No.	Each	Measurements Inches	Weight Ounces	For Class Boat
0	\$1.00	3 3/8 x 3 3/8	3	Star
1	1.25	4 1/4 x 3 3/8	5	Atlantic
2	1.75	5 1/2 x 5 1/4	7	6 Meter

Screw Eye on Plate CAST BRONZE



Fig. 1035

Furnished with a flush plug to screw in place when eye is removed.
For all leader blocks and other items requiring easy removal from deck.

No.	Polished Each Complete	Inside Diam. Eye Inches	Diam. Thread Inches	Diam. Plate Inches
1	\$2.00	3/4	1/2	2 1/8
2	2.25	1	1/2	2 3/8

Foot Rope Plates GALVANIZED DROP FORGED STEEL AND BRONZE

For Foot Ropes or Bowsprit Shrouds



Fig. 568

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size Iron Inches	Size Eye Inches
3	\$.40	\$1.00	\$1.45	3/4 x 3/16	1/2
4	.50	1.10	1.55	7/8 x 3/16	5/8
5	.60	1.25	1.70	1 x 1/4	3/4
6	.75	1.50	1.95	1 1/8 x 1/4	7/8
8	1.00	1.70	2.30	1 1/4 x 1/4	7/8
10	1.50	2.10	2.90	1 1/4 x 3/16	1

Fitted for Shackle when desired. Larger sizes made to order.

Gaff Topsail Hooks GALVANIZED MALLEABLE IRON COLEMAN PATTERN



Fig. 931

Size Inches	Price Each	Est. Wt. Each In Lbs.	Size Inches	Price Each	Est. Wt. Each In Lbs.
3/4	\$.60	1/4	1/2	\$1.20	3/4
5/8	.65	3/8	5/8	2.75	1 1/4
3/4	.85	1/2	3/4	3.25	2 1/2
7/8	.95	3/4			

Sizes larger than 3/4" furnished on application

Chain Plates

GALVANIZED DROP FORGED STEEL AND BRONZE



Fig. 569

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size of Plate Inches
4	\$.30	\$.95	\$1.30	3/4 x 1/8
5	.35	1.10	1.45	7/8 x 1/8
6	.40	1.20	1.55	1 x 1/8
8	.50	1.45	1.90	1 1/8 x 1/8
10	.75	1.80	2.40	1 1/4 x 1/4
12	1.00	2.20	2.90	1 1/4 x 1/4
14	1.50	3.20	4.30	1 1/2 x 3/8
16	1.75	4.30	6.00	1 1/2 x 3/8
18	2.00	6.00	8.00	1 3/4 x 3/8
20	2.50			1 3/4 x 3/8

Any size made to order.

Release Hooks

MANGANESE BRONZE



Fig. 890

No.	Length Closed Inches	Size Opening Inches	Size Eye Inches	Plain Each	Polished Each
1	4	1/2	1/2 x 3/8	\$1.40	\$1.60
2	5 1/2	3/8	3/8 x 3/8	1.80	2.00

Bronze Deck Travelers

TO BOLT THROUGH DECK

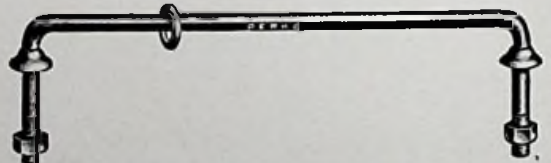


Fig. 933

Diameter of Rod Inches	Length of Rod Inches	Height Between Deck and Traveler Inches	Polished Each
3/8	12	1 1/2	\$3.20
3/8	18	1 1/2	3.50
1/2	12	2	4.00
1/2	18	2	5.00
1/2	24	2	6.00
1/2	30	2	7.00
5/8	18	2	8.00
5/8	24	2	8.75
5/8	30	2	9.50
3/4	36	2	10.25

Bronze Deck Travelers WITH PLATES TO SCREW TO DECK

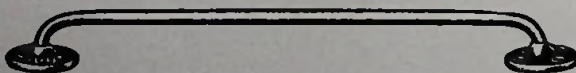


Fig. 896

Diam. Slide Inches	Length Inches	Plain Each	Polished Each
3/8	24	\$3.50	\$4.20
1/2	24	4.75	5.50

OTHER SIZES MADE TO ORDER



"KORODLESS" STAINLESS STEEL WIRE RIGGING

The greater strength of Korodless permits the use of smaller diameters, thus very materially cutting down both weight and wind resistance.

KORODLESS RIGGING IS: Over three times as strong as bronze or galvanized iron.
Over two times as strong as phosphor bronze or monel metal.
Over 1½ times as strong as cast steel.

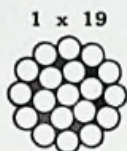


Fig. 1022



Fig. 1023

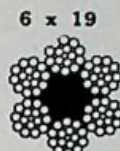


Fig. 1024

Diam. inches	Approx. Breaking Strength Pounds	Price Per foot	Approx. Breaking Strength Pounds	Price Per foot	Approx. Breaking Strength Pounds	Price Per foot
3/32	1,200	\$.09	800	\$.09	1,500	\$.17
1/8	2,100	.11	1,400	.11	2,300	.20
5/32	3,300	.13	2,100	.13	3,200	.22
3/16	4,700	.17	3,000	.15	4,300	.26
1/4	6,300	.20	4,000	.17	5,600	.29
5/16	8,200	.23	5,200	.19	7,000	.32
3/8	10,300	.27	6,600	.23	8,600	.34
7/16	12,500	.30	8,000	.26	12,200	.42
1/2	17,600	.40	11,500	.33	16,400	.53
5/8	23,400	.53	15,400	.45	21,200	.68
3/4	29,700	.67	19,800	.56	32,600	.86
7/8	44,000	.92	30,300	.83		

For 6 x 37 construction, add 20% to 6 x 19 list prices. For 8 x 19 construction, add 20% to 6 x 19 list prices.

1 x 19 STANDING RIGGING—This construction has the greatest strength—least stretch—and is the stiffest type of rigging. It is more difficult to splice than 6 x 7 but an experienced rigger can make satisfactory splices.

6 x 7 STANDING RIGGING—This is the most commonly used type. It is more easily spliced than any other type but is construction is not as strong as other types of Korodless standing rigging.

6 x 19 RUNNING RIGGING—This is the most generally used construction where flexibility is desired (halyards, roller ropes, etc). While not so flexible as the ropes having a multiplicity of very fine wires it is much stronger and more durable.

Stainless Steel Thimbles

POLISHED



For diam. Rope Inches	Price Each	Length Overall Inches	Width Inside Inches
1/8	\$.25	1½	5/8
3/16	.25	1½	5/8
1/4	.30	1 13/16	3/4
5/16	.35	2 1/8	13/16
3/8	.45	2 3/8	1

Fig. 1025

Stainless Steel Shackles

DROP FORGED

SCREW PIN ANCHOR TYPE



Fig. 1027

Stainless Steel Turnbuckles

WITH JAW ENDS—S. A. E. THREADS

POLISHED

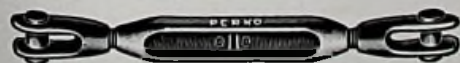


Fig. 1026

Size inches	Each	Length Closed Inches	Length Pin to Pin Open Inches	Jaw Opening Inches	Pickled Finish (Not polished) Each	Polished Each	Length Inside Inches	Between Eyes Inches
1/4	\$ 6.50	7 1/4	11	1 1/8	\$1.30	\$1.50	7/8	1 1/8
3/8	8.50	8 3/4	13 3/8	1 1/4	1.30	1.50	1 1/8	1 1/2
1/2	12.50	10 3/8	15 1/8	1 5/8	1.50	1.75	1 1/4	1 3/4
				1 3/8	1.75	2.00	1 5/8	1 7/8
				1/2	2.10	2.50	1 3/4	1 3/4
				5/8	3.00	3.50	2 1/2	1 3/4

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 5/8	1/4	4 3/8
1	.30	.40	.60	2	5/16	10
2	.35	.50	.75	2 3/8	3/8	12 1/2
3	.40			2 3/4	1/2	21
4	.45			3	5/8	23 3/4

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	5/8	2 3/4	10
2	.35	.50	.75	3/4	3 1/4	13 1/8
3	.40	.65	1.00	3/4	3 7/8	26 1/4
4	.45			1	4 1/8	27 1/2
5	.50			1 1/8	4 7/8	43 3/4
6	.60			1 1/4	5 1/4	56 1/4

Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 619

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	\$.05	\$.15	1 7/8

Bob Stay Straps

GALVANIZED DROP FORGED STEEL AND POLISHED BRONZE



Fig. 803

Diam. of Metal in Eye Inches	Galvanized Each	Pol. Bronze Each	Overall Length Inches	Length of Strap Inches
3/8	\$.75	\$ 1.10	3	2
1/2	.85	1.40	4	3
5/8	.95	1.70	5	3 1/2
3/4	1.10	2.80	6	4
3/4	3.40		8	5

Belaying Pins

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 366

Diam. Shank Inches	Galv. Each	Polished Bronze Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
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 3/4
1	1.40		6 1/2	15	2 1/4
1 1/8	1.70		7	16	3
1 1/4	2.00		8	19	3 1/2

Baby Snaps

WITH SWIVEL EYE

ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1042

Diam. of eye Inches	Galvanized Each	Polished brass Each	Length Inches
3/8	\$.10	\$.18	2

Baby Snaps

WITH OBLONG EYE—ELECTRO GALVANIZED

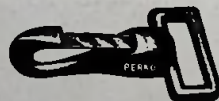


Fig. 1041

Diam. of Eye Inches	Galvanized Each	Polished Brass Each	Length Inches	Size of eye Inches	Galvanized Each	Length Inches
3/8	\$.05	\$.15	1 7/8	1 7/8 x 1/4	\$.05	1 3/4



Eye Bands

GALVANIZED DROP FORGED STEEL AND MANGANESE BRONZE



Fig. 426

Inside Diam. Inches	Price Each			
	One Eye	Two Eye	Three Eye	Four Eye
1 1/4	\$.90	\$.90	\$ 1.50	\$ 1.50
1 1/2	.95	.95	1.55	1.55
1 3/4	1.00	1.00	1.65	1.65
2	1.10	1.10	1.80	1.80
2 1/4	1.25	1.25	2.00	2.00
2 1/2	1.40	1.40	2.20	2.20
3	1.55	1.55	2.40	2.40
3 1/2	1.70	1.70	2.60	2.60
4	1.85	1.85	2.80	2.80
4 1/2	2.10	2.10	3.00	3.00

No extra charge for bronze bands.

Sail Makers Needles

FORGED CAST STEEL—POLISHED LONG SQUARE



Fig. 410

No.	Price Per 100	Length Inches	No.	Price Per 100	Length Inches
17	\$ 2.10	2 1/4	12	\$ 3.75	3 1/4
16	2.10	2 1/2	11	5.00	3 3/8
15	2.10	2 1/2	10	6.20	3 3/4
15 1/2	2.10	2 3/8	9	7.40	4
14	2.25	2 3/8	8	9.95	4 1/2
14 1/2	2.50	2 3/4	7	12.40	4 3/4
13	2.95	3			

Packed 25 needles per package—only furnished in full packages.

Sailors Seaming Palms

FULL HIDE MOUNTED



Fig. 411

Right Hand, Per Dozen	\$ 4.25
Left Hand, Per Dozen	4.70

Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

Size inches	Price Per 100	Weight Per 100 in Lbs.	Size Inches	Price Per 100	Weight Per 100 in Lbs.
x 1/4	\$ 6.00	10 1/2	5x 1/4	\$ 14.00	24 1/2
1/2 x 1/4	8.00	12 1/2	6x 1/4	15.00	30
x 1/4	8.50	15	7x 1/4	16.00	34 1/2
1 1/2 x 1/4	10.00	17	8x 1/4	18.00	39
x 1/4	13.00	20	9x 1/4	21.00	44
1 1/2 x 1/4	13.50	22 1/2	10x 1/4	25.00	49

Measure in clear, special size made to order.

Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1 1/2	\$.21	3/4 x 3	\$.28	1/2 x 6	\$.55
2	.22	3/8 x 3 1/2	.30	3/8 x 3	.60
2 1/4	.23	1/2 x 3	.40	3/8 x 3 1/2	.65
2	.24	1/2 x 3 1/2	.43	3/8 x 4	.70
2 1/4	.25	1/2 x 4	.48	3/8 x 5	.80
2 1/2	.25	1/2 x 5	.50		

Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS

REGULAR



Fig. 766

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Eye Inches	Weight Per 100 in Lbs.
1	\$.04	\$.05	1/4	1	1 7/8
2	.05	.08	5/16	1 1/8	3 3/4
3	.07	.10	3/8	1 1/2	8 1/8
4	.12	.14	1/2	2	11 1/4

WITH SHOULDER

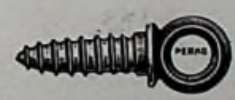


Fig. 767

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Shoulder Inches	Weight Per 100 in Lbs.
5	\$.04	\$.05	5/16	1	3 1/2
6	.05	.08	3/8	1 1/8	3 3/4
7	.07	.10	1/2	1 1/2	4 3/8
8	.12	.14	3/8	1 3/4	11

Washer Grommets
SHEET BRASS



Fig. 898

Size No.	Price Per Gross	Size Hole Inserted Inches	Est. Wt. Per Gross Pounds
0	\$.50	1/4	3/8
1	.60	3/8	1/2
2	.70	3/8	3/4
3	1.00	1/2	1
4	1.50	1/2	2
5	2.00	5/8	2 1/2

Conical Point Grommets
CAST BRASS TOPS—ROLLED RIM TUBES



Fig. 1067

Size No.	Per Gross	Size Hole Inserted Inches	Weight Per Gross Pounds
2	\$ 3.00	3/8	2 1/4
3	3.70	1/2	2 1/2
4	4.90	1/2	3 3/8
5	7.00	5/8	5 1/4
6	8.50	3/4	8 1/8
7	15.50	1 1/8	10 1/4
8	18.50	1 1/8	14 1/4

Inserted with Die Fig. 902, Style B.

Spur Grommets

BRASS TUBES AND TOPS—ROLLED RIM



Fig. 899

Size No.	Price Per Gross	Size Hole Inserted Inches	Est. Wt. Per Gross Pounds
0	\$ 1.55	1/4	1 1/8
1	1.75	3/8	1 1/8
2	2.25	3/8	1 1/2
3	2.60	1/2	1 3/4
4	3.50	5/8	2 1/2
5	4.60	3/4	3 1/2
6	6.00	3/4	5 3/8
7	15.00	1 1/8	5 5/8
8	17.50	1 1/8	8

Eyelet Grommets

STAMPED BRASS



Fig. 1068

No.	Per Gross	Size Inches	I. D. Hole Inserted Inches	Weight Gross Ounces
1	\$.60	3/8	1/4	4
2	.75	1/2	3/8	6
3	1.00	5/8	3/8	9
4	1.60	3/4	1/2	14
5	2.40	7/8	5/8	1
6	3.50	1	1 1/8	1 7/8
7	5.75	1 1/8	1 1/8	2 3/8
8	6.25	1 1/4	7/8	3
9	8.50	1 3/8	1	3 1/4
10	10.00	1 1/2	1 1/4	4 3/4
11	11.50	1 3/4	1 1/2	5 1/2
15	29.00	2 1/2	2	9

Teeth Grommets

SHEET BRASS



Fig. 900

Size No.	Price Per Gross	Size Hole Inserted Inches	Est. Wt. Per Gross Pounds
0	\$.70	1/4	3/8
1	.75	3/8	1/2
2	1.10	3/8	3/4
3	1.30	1/2	1 1/8
4	1.90	1/2	1 3/4
5	2.70	5/8	2 1/2

Grommet Hole Cutters

FORGED STEEL



Fig. 903

No.	Price Each	No.	Price Each
0	\$.68	5	\$1.35
1	.68	6	2.40
2	.68	7	2.60
3	.88	8	2.80
4	1.00		

Junior Grommet Dies

CAST IRON

For inserting Brass Washer and Teeth Grommets



Fig. 901

Size No.	Each	Weight Each Lbs.
0	\$1.15	3/4
1	1.30	3/4
2	1.80	1
3	2.00	1 1/8

This die is not guaranteed and not for commercial use, a useful, inexpensive tool for those who have only few grommets to insert.

Curtain Fasteners

WROUGHT BRASS



Fastener Fig. 995



Eyelet Fig. 996



Washer Fig. 997

Made of stamped brass, for single and double curtains, fastener base size is 1 1/4 x 1/2.

	Single	Double
Complete with Eyelet and Washer—per gross	\$11.00	\$14.00
Fastener Only—per gross	9.00	12.50
Eyelet Only—per gross	1.50	1.50
Washer Only—per gross	.90	.90

Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets
Style C for inserting Washer and Teeth Grommets



Fig. 902

Size No.	Style B Each	Style C Each	Weight Each Lbs.
0	\$3.00	\$2.70	1 1/4
1	3.20	2.90	1 3/8
2	3.30	3.00	1 3/8
3	3.50	3.20	1 7/8
4	3.70	3.40	2 3/8
5	4.00	3.70	2 5/8
6	4.20	4.10	3 1/2
7	4.50		3 3/4
8	4.80		5

Use a wooden mallet with above dies.

Grommet Rings

MALLEABLE IRON—GALVANIZED
INSIDE MEASUREMENT

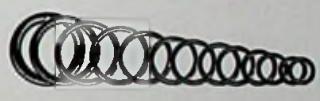


Fig. 1002

Light		Heavy	
Inside Diam. Inches	Price Per Gross	Inside Diam. Inches	Price Per Gross
1/4	\$.60	1/2	\$ 1.00
5/16	.60	3/8	1.25
3/8	.60	3/4	2.00
1/2	.85	3/4	2.25
5/8	1.15	1	2.50
3/4	1.25	1 1/8	4.00
7/8	1.75	1 1/4	5.25
1	2.00	1 1/2	7.00
1 1/8	3.80	1 3/4	9.00
1 1/4	4.00	2	14.00
1 1/2	6.75	2 1/4	16.00
1 3/4	8.25	2 1/2	18.00
2	9.00	3	21.00

Grommet Hooks

CAST BRONZE



Fig. 1000

Plain Bronze Per Gross	\$5.00
Polished Bronze Per Gross	\$10.00

1 1/2 inch and smaller are packed in boxes of 1 gross each.
1 3/4, 2 and 2 1/4 inch are packed in boxes of 1/2 gross each.
2 1/2 and 3 inch are packed in boxes of 1/4 gross each.

Eagle Claw Clam Rakes

FORGED STEEL



Fig. 751

Forged steel throughout, welded socket, spring prongs, black finish.

Number of Prongs	Each	Width Inches	Length Overall Inches	Weight Pounds
9	\$2.50	9	14	2
11	3.00	11	14	2 1/4
13	3.30	13	14 1/2	2 3/4
15	3.85	15	14 1/2	3



Fig. 752

Winter Eel Spears

FORGED STEEL

Forged steel throughout, forged socket, spring prongs, black finish.

Number of Prongs	Each	Width Inches	Length Overall Inches
6	\$2.85	7	15 3/4
8	3.25	9	15 3/4
10	3.75	11 1/4	16



Fig. 753

Summer Eel Spears

NEW STYLE—FORGED STEEL

Forged steel throughout, hand made, barbed prongs, black finish.

Number of Prongs	Each	Width Inches	Length Overall Inches
7	\$2.60	5	15 1/2
9	3.00	6	15 1/2
11	3.40	7	15 1/2



Fig. 754

Summer Eel Spears

OLD STYLE—FORGED STEEL

Forged steel throughout, spring prongs, black finish.

Number of Prongs	Each	Width Inches	Length Overall Inches
7	\$3.35	7	15

Brass Fishing Swivels

HEAVY DUTY TYPE—EXTRA STRONG

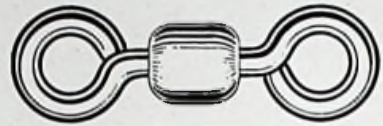


Fig. 755

Illustration is Actual Size

Will not crystalize in salt water. Will stand several hundred pounds pull. Provides maximum tensile strength in a swivel of this type. Due to its free swiveling action and strength it is an ideal swivel to use on fishing sinkers; and for general use by commercial and sports fishermen desiring a heavy duty swivel with strength, flexibility, and free action. Packed in quarter gross boxes.

Per Gross
\$13.35

Length Inches
1 13/16

Weight Per Gross Pounds
6

Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Price Each
\$0.40

Length Inches
5

Weight Per 100 In Pounds
31

Dart Shank

STEEL SHANK—CAST BRONZE SOCKET

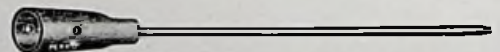


Fig. 655

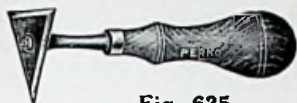
Length overall, 24 inches; Weight, 1 1/4 pounds.

Price each \$1.50

NOTE

Have you noticed greatly reduced prices on chromium plated items?

Boat Scrapers TRIANGULAR



Size Blade Inches	Per Dozen	Fig. 625 Blades Only Per Dozen	Length Inches	Wt. Per Dozen in Pounds
2	\$6.60	\$3.00	6	2½

Yacht Scrapers



Size Blade Inches	Per Dozen	Fig. 626 Blades Only Per Dozen	Length Inches	Wt. Per Dozen in Pounds
2¾	\$10.80	\$3.60	9½	5

Oval Boat Scrapers



Size Blade Inches	Per Dozen	Fig. 918 Blades Only Per Dozen	Length Inches	Wt. Per Dozen in Pounds
2x1¼	\$6.60	\$3.00	6	2¾

Tree Scrapers



Size Blade Inches	Each	Fig. 919 Blades Only Each	Handles Only Each	Length Inches	Weight Each Pounds
4x1/8	\$1.70	\$.75	\$1.00	17	1¼

Ship Scrapers TEMPERED STEEL BLADES



No.	Size Blade Inches	Each	Fig. 920 Blades Only Each	Handles Only Each	Length Inches
1	4½x¼	\$1.75	\$.80	\$1.00	17
2	4½x1/8	1.70	.75	1.00	17

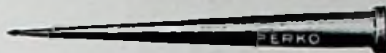
Caulking Irons MALLEABLE IRON



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	5¾	2½	4½
1	7.25	1/8	5¾	2½	5½

Marlin Spikes POLISHED STEEL FOR WIRE ROPE



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



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	\$ 4.95	12x1¾
1	5.94	14x1¾
2	6.60	16x2
3	7.43	18x2
4	14.85	20x2½
5	19.70	24x3

Caulking Mallets LOCUST HANDLES

Mallet Head, 15 inches long; 1¾ inches diameter.



Fig. 924

No.	Each
00	Live Oak, Tempered Steel Rings \$4.00
1	Live Oak, Polished Steel Rings 3.50
10	White Oak, Varnished Iron Rings 2.50

Caulking Irons DROP FORGED STEEL



No.	Per Dozen	Fig. 925 Thickness Inches	Length Inches	Width Inches
0	\$11.50	1/8	5¾	2½
1	12.00	1/8	6 1/8	2½

Pick-Up Buoy
FLAT TOP



Fig. 234

Heavy galvanized iron, double seamed and soldered.

Wrought iron handle riveted to body, large eye on bottom and rope thimble. Every buoy fully tested before it leaves our factory.

Measurements do not include handle or eye.

No.	Size Inches	Weight Lbs.	Price Each
1	9x14	4	\$4.00
2	12x18	5	4.75
3	13x22	7	5.75

Cone Mooring Buoy
GALVANIZED

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 3/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper, which is of heavy 1 1/2 inch outside diameter rubber hose.

Can also be furnished with welded eye bolts top and bottom non swivel—same prices.



Fig. 370

Size Inches	With Bumper Each	Without Bumper Each
16 x 24	\$15.00	\$11.00
20 x 30	18.00	14.00
24 x 36	24.00	20.00
30 x 36	26.50	24.00

Size does not include swivel or eye.

Can also be furnished with 3/8 inch diameter buoy rod and swivel—add to above prices \$3.50 each.

Pick-Up Buoy
CONE TOP



Fig. 235

Heavy galvanized iron, double seamed and soldered. Wrought iron handle riveted to body, large eye on bottom for rope.

Fully Tested

Measurements do not include handle or eye.

No.	Size Inches	Weight Lbs.	Price Each
4	13x22	5	\$3.00
5	16x24	6 1/2	4.00

Heavy Duty Mooring Buoy
RIVETED BODY—GALVANIZED



Fig. 551

Extra heavy construction, all riveted. 3/8 inch wrought iron buoy rod through center, eye on top, swivel on bottom, grooved to take heavy rubber bumper. Bumper is 1 1/2 inch outside diameter heavy hose. outlet in bottom for draining.

Size Inches	With Bumper Each	Without Bumper Each
24 x 36	\$34.00	\$30.00
30 x 36	38.00	34.00
36 x 42	46.00	42.00
40 x 48	52.00	48.00

Measurements do not include swivel or eye.

Hold Fast Buoy

A REAL MOORING BUOY FOR SMALL BOATS AT A LOW PRICE



Fig. 445

A heavy gauge galvanized sheet iron body, a 3/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No.	Price Each	Diam. Body Inches	Length Body Inches
1	\$10.00	13	22
2	13.50	17	27

Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
33 1/2	3	15
38 1/2	3	24

Cork Mooring Buoys

Made of thick layers of solid cork with heavy galvanized iron rod running through center, eye on one end, swivel on the other, no strain on buoy, all mooring strain is on the iron rod.



Fig. 441

Size Inches	Each	Diam. Rod Inches
6x 6x12	\$ 4.75	1/8
8x 8x16	7.00	3/8
12x12x24	9.60	1/2
16x16x30	18.00	3/8
20x20x40	30.00	3/4

Ideal All Steel Buoy

WITH STEEL ROD THROUGH CENTER
SWIVEL EYE AT BOTTOM



Fig. 531

ALL THE STRAIN IS ON THE SOLID ROD

This Rod connects the SWIVEL EYE at the bottom of the Buoy with the Large Steel Handle at the Top, and it absorbs all the mooring strain so that you are not depending on the shell of the Buoy to hold your Boat.

Buoys are tested for leaks at the factory by filling with compressed air.

Made of 14 gauge sheet steel, large handle at top makes it easy to "spear" with boat hook.

Bumper is 1½ inch outside diameter heavy rubber hose.

Diameter Inches	Without Bumper Each	With Bumper Each	Diameter Rod Inches	Inside Handle Inches
20	\$12.00	\$16.00	¾	5x2½

Galvanized Buoy Rods

COMPLETE AS ILLUSTRATED

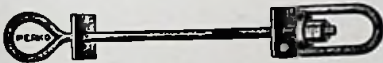


Fig. 278

Diam. Inches	Length Under Eye Inches	Price Each
½	18	\$1.90
½	20	2.00
⅝	24	2.50
⅝	30	2.75
¾	33½	4.00
¾	37½	4.25
¾	43½	4.50
¾	37½	7.00
¾	43½	7.50
¾	52	8.00

Anchor Chocks

CAST BRONZE—PLAIN

Made for the purpose of keeping the anchor in a set place on deck ready for instant use, and to prevent the damage caused by an anchor not fastened down when a rough, choppy stretch of water is encountered.

Many boat owners have suffered wasteful expense repairing gouged decks, ventilators, hatch covers, etc., because they neglected to install anchor chocks for their deck anchors.

FOR NAVY TYPE ANCHORS

For all sizes of anchors up to 60 pounds inclusive.

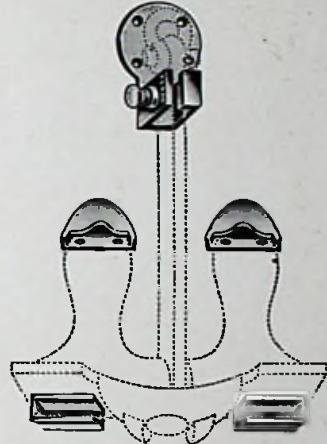


Fig. 938

Consists of 5 pieces illustrated. Lashing is unnecessary as the head of shank is locked in place by an overhang and thumb screw arrangement. Flukes cannot move out of recess until the shank is released.

Anchor does not touch deck at any point.

Keep thumb screw coated with heavy grease.

Price Per Set of 5 Pieces \$4.80

FOR KEDGE AND NON FOULING ANCHORS

For all sizes of kedge anchors up to 60 pounds inclusive.

For all sizes of non fouling anchors up to 75 pounds inclusive

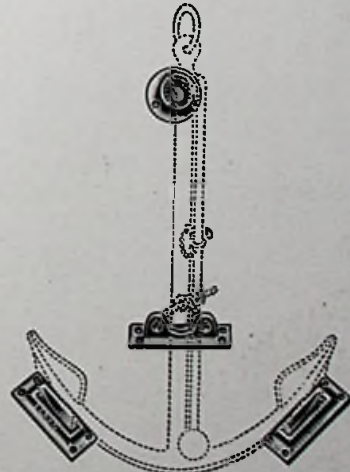


Fig. 939

Consists of four pieces illustrated, including the fitting for lashing down, which has two eyes large enough for ¾ inch rope.

Anchor does not touch deck at any point.

Price Per Set of 4 Pieces \$3.25

Kedge Anchors DROP FORGED STEEL



Fig. 149

Weight Pounds	Galvanized Each	Self Colored Each	Length Inches
5	\$ 2.70	\$ 2.50	16
8	2.95	2.70	23
10	3.10	2.80	24
12	3.70	3.25	27
15	3.95	3.45	28
20	4.35	3.70	31
25	4.85	4.00	33
30	5.50	4.50	34
35	6.50	5.25	37
40	7.50	6.00	40
50	9.25	7.50	42
60	11.50	9.50	45
75	14.50	11.75	45
100	19.50	16.00	51
125	25.00	21.00	52
150	30.00	25.00	55½
200	40.00	34.00	62½
250	50.00	42.00	64
300	60.00	50.00	65
350	70.00	59.00	65
400	80.00	68.00	72
450	90.00	76.00	72
500	100.00	85.00	72
550	110.00	93.00	
600	120.00	102.00	
650	130.00	110.00	
700	140.00	119.00	

Navy Type Anchor

DROP FORGED SHANK—GALVANIZED



Fig. 45

Weight Pounds	Price Each	Length Inches	Weight Pounds	Price Each	Length Inches
5	\$1.35	12	50	\$ 8.50	26
10	2.10	14	60	10.00	28
15	2.75	15	80	13.50	30
20	3.40	17	100	16.75	31
25	4.25	18	125	21.00	32
30	5.00	19	150	25.00	34
35	5.85	21	200	33.50	41
40	6.75	23			

Larger sizes—Price on application.

Swivel Anchors GALVANIZED



Fig. 174

A ball and socket joint on the drop forged shank allows it to swivel in the anchor head preventing the cable from fouling, this feature including the great holding power of the anchor makes it a very popular one with the practical yachtsman.

Weight Pounds	Price Each	Length Inches
5	\$ 1.35	12
10	2.10	14
15	2.75	15
20	3.40	17
25	4.25	18
30	5.00	19
35	5.85	21
40	6.75	23
50	8.50	26
60	10.00	28
80	13.50	30
100	16.75	31
125	21.00	32
150	25.00	34
200	33.50	41

Mushroom Anchor

STEEL SHANK RIVETED THROUGH HEAD

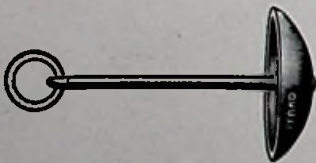


Fig. 142

Weight Pounds	Galv. Each	S. C. Each	Weight Pounds	Galv. Each	S. C. Each
5	\$ 1.35	\$1.15	100	\$13.50	\$10.00
8	1.95	1.70	125	17.00	12.50
10	2.10	1.75	150	20.00	15.00
15	2.75	2.25	200	27.00	20.00
20	3.40	2.70	250	34.00	25.00
25	4.25	3.40	300	40.00	30.00
35	5.95	4.76	350	47.00	35.00
50	6.75	5.00	400	54.00	40.00
75	10.00	7.50	450	61.00	45.00
			500	67.00	50.00

Government Tolerance in Weight, Plus or Minus 5%

Trawl and Sand Anchors

DROP FORGED STEEL
FAST STOCK

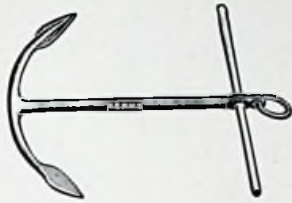


Fig. 364

Weight Pounds	Galvanized Each	Self Colored Each
5	\$ 1.85	\$ 1.70
8	2.10	1.85
10	2.25	1.95
12	2.70	2.25
15	2.95	2.45
20	3.60	2.95
25	4.45	3.60
30	5.25	4.25
35	6.25	5.00
40	7.00	5.75
50	8.75	7.10
60	11.25	9.25
75	14.25	11.75
100	19.50	16.00

LOOSE STOCK

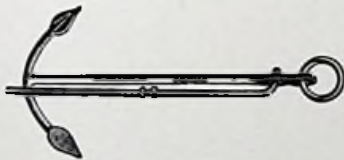


Fig. 365

Weight Pounds	Galvanized Each	Self Colored Each
5	\$ 2.70	\$ 2.50
8	2.95	2.70
10	3.10	2.80
15	3.95	3.45
20	4.35	3.70
25	4.85	4.00
30	5.50	4.50
35	6.50	5.25
40	7.50	6.00
50	9.25	7.50
60	11.50	9.50
75	14.50	11.75
100	19.50	16.00

Folding Anchors

GALVANIZED MALLEABLE IRON

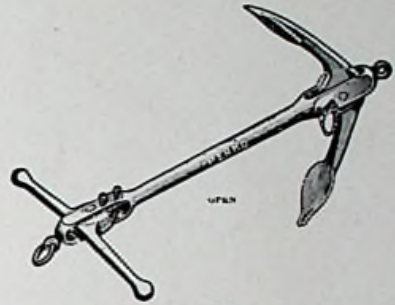


Fig. 226

Weight Pounds	Each	Length	Weight Pounds	Each	Length
4	\$ 2.60	17	30	\$12.80	34
6	2.85	19	35	15.00	36
8	3.85	22	45	19.00	38
10	4.80	23	55	23.00	41
12	5.60	25	76	31.00	44
15	6.80	28			
20	8.80	30			
25	10.80	33			

Non-Fouling Anchor

GALVANIZED DROP FORGED STEEL

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.

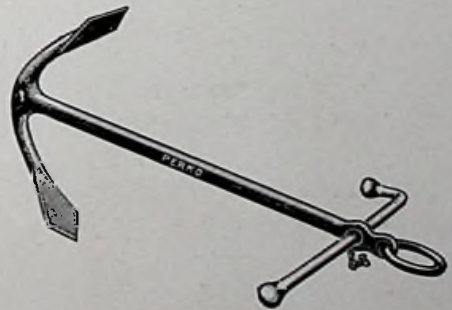


Fig. 236

Weight Pounds	Galv. Each	Length Overall Inches
15	\$ 4.15	29
25	5.25	36
35	7.00	40
50	10.00	43
60	12.50	44½
75	15.50	46½
100	21.00	50
125	27.00	52½
150	32.50	59
200	43.50	65

Note: All anchors are subject to government tolerance of plus or minus 5% in weight.

Grappels

GALVANIZED DROP FORGED STEEL
FIVE PRONG



Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$1.70	12	\$2.95
5	1.75	15	3.25
6	1.85	18	3.90
8	2.10	20	4.25
10	2.25		

Larger sizes—prices on application.

Anchor Trip Hooks

CAST BRONZE—PLAIN



Fig. 1038

A fine grade, heavy bronze Hook of great tensile strength. Hook is held in working position by positive locking device with cotter pin on chain to prevent accidental tripping. A pull on the tripping lever when cotter is removed immediately releases hook as shown by dotted lines.

No.	Price Each	Length Inches	Diam. Hook Inches	For Block Inches	Weight Pounds
1	\$2.75	5	3/8	3 1/2	1
2	3.85	5 1/2	3/4	4	1 1/2

Grappling Irons

GALVANIZED DROP FORGED STEEL



Fig. 1094

Weight Pounds	Each	Height Inches	Width Inches	Number of Prongs
1 1/2	\$1.70	7 1/2	6	4

Anchor Balancing Bands

GALVANIZED DROP FORGED STEEL



Fig. 1095

Usually used on kedge or non-fouling anchors. One of these bands placed about the anchor shank at center of gravity is of great aid in handling.

No.	Each	For Anchors Weighing Pounds
1	\$2.50	25 to 100
2	3.50	125 to 200

Anglers Anchor

FOR SMALL BOATS.



Fig. 216

Weight Pounds	Galvanized Each	Japanned Each	Diameter Inches	Height Inches
7	\$1.70	\$1.50	6	8
11	2.10	1.75	7	9
15	2.75	2.25	8	10

Anchor Keys

GALVANIZED DROP FORGED STEEL



Fig. 1096

Used for locking the stock in loose stock anchors such as kedge, non-fouling and sand.

Size No.	Each	Length Inches	For Anchor Weighing Pounds
1	\$.10	1 3/4	5 to 8
2	.15	2 1/2	10 to 20
3	.20	3 1/4	25 to 40
4	.25	4 1/2	50 to 60
5	.25	4 3/8	75 to 100
6	.25	4 3/4	125 to 150
7	.35	6	200 to 350
8	.55	6 1/4	400 to 550

Enos Windlass

GALVANIZED—BRONZE

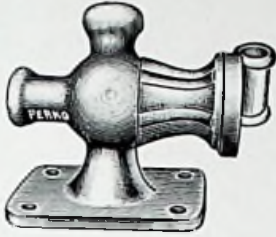


Fig. 964

Size No.	Galvanized Each	Polished Bronze Each	Height Inches	Width Overall Inches	Est. Wt. Each in Lbs.
0	\$10.50	\$25.00	6	7 1/2	12
1	18.75	46.00	8 1/2	9	27
2	20.80	54.00	10 1/2	11	34
3	29.00	71.00	11 1/2	13 1/2	58

Patent Gypsy Windlass

PAINTED FINISH

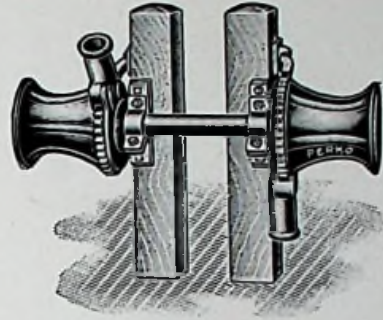


Fig. 966

Full Windlass has Two Heads
Half Windlass has One Head

Size No.	Diam. Drum Inches	Size Base Inches	Size Bolts Inches	Size Chain Inches	Size Rope Inches	Est. Wt. Each Galv. in Lbs.	Size	Half Windlass Each	Full Windlass Each	Bltts Inches	Length of Head Inches	Diameter of Head on End Inches
0	2 1/2	4 1/2 x 6	5/8	3/4	5/8	11	E	\$10.50	\$15.50	6	5 1/4	4 1/2
1	3 1/4	6 1/4 x 8 1/2	5/8	3/4	3/4	25	D	11.50	17.00	8	6	5
2	3 1/2	7 3/8 x 9 1/2	5/8	1/4	7/8	31	C	13.50	19.00	10	6 1/2	7 1/2
3	4 1/2	7 1/2 x 10	3/4	3/4	1 1/8	53	B	17.00	24.00	12	7	7 1/2
							O	24.00	30.00	12	8	8 1/2
							1	27.00	40.00	14	9 1/2	10
							2	31.00	53.00	16	12	11 1/2
							2 1/2	42.00	71.00	18	13	13

Yacht Capstan

ALL BRASS OR BRASS AND GALVANIZED

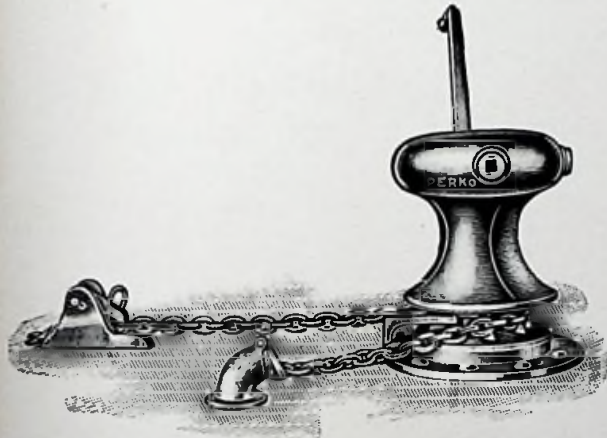


Fig. 965

Absolutely dependable, operates in either direction with reversible locking pawl, has positive friction brake on wildcat which is operated by one of the handles.

Has cold drawn steel shafts, Bronze locking pawls, pawl shafts and pinion gear shafts.

For 1/8, 3/8, 1/2, and 5/8 Inch Chain

Furnish sample of at least 6 links when ordering

Diameter Head Inches	Diameter Barrel Inches	Diameter Base Inches	Height Inches	Weight Pounds
11	6	13	15	130
Price complete, Polished Brass Head, Galvanized Barrel, Wildcat and Base .....\$225.00				
Price complete, Polished Brass Head, Barrel and Base, Bronze Wildcat 325.00				
Price includes Deck Pipe and Chain Stopper				

Yacht Gypsy Windlass

WITH LOOSE WILDCAT
IMPROVED PAWLS AND RATCHET

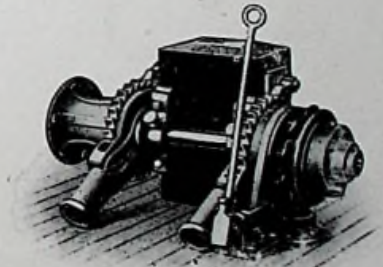


Fig. 967

Positive ratchet, no slipping of pawls. Turned steel shafts, machined boxes, fitted with grease cups.

Wildcats are made to fit chain used, therefor when ordering, always furnish a sample of at least six links.

Furnished complete with deck pipe and chain stopper.

Size	Bltts Inches	Length of Head Inches	Diameter of Head on End Inches	Size Chain Inches
B	12	7	7 1/2	3/8
1	14	8	8 1/2	1/2
Size	Painted Each		Galvanized Each	
B	\$ 85.00		\$100.00	
1	105.00		125.00	

Standard Boat Davits

GALVANIZED STEEL

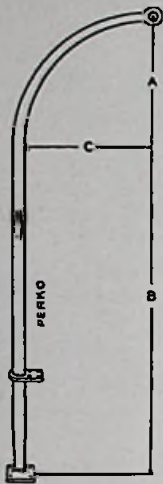


Fig. 934

Can be supplied in any size or with any type fittings required, and either solid or hollow. As these are made to order careful and complete information should be given as follows:

1. Solid or hollow.
2. Diameter.
3. Dimensions A, B, and C as illustrated.
4. Type of fittings required.
5. Height of cleat from lower end of davit.
6. Type of head required either eye for block or for sheave.

PRICES ON APPLICATION

Standard Anchor Davits

GALVANIZED STEEL

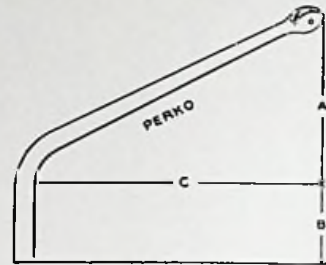


Fig. 936

Usually furnished with a socket deck plate extending through and below the deck, supplied with any type head required, give information as follows: 1, diameter; 2, dimensions A, B, and C as illustrated; 3, type of head; 4, maximum weight of anchor to be handled.

PRICES ON APPLICATION

Curved Boat Davits

GALVANIZED STEEL

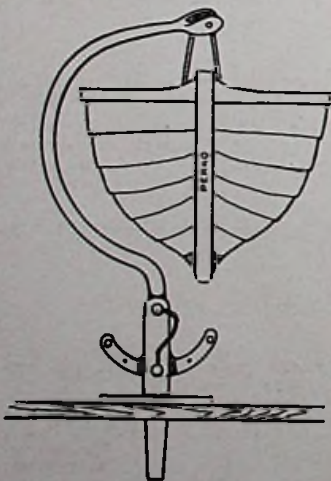


Fig. 935

Makes possible the carrying of a boat where it was thought there was no available space for such purpose.

Especially well adapted for use amidships on sailing yachts or across the stern of cruisers with after cabin. Economy of height and space are its chief features.

Special care should be exercised in the specifications for davits of this type and a complete dimensional description of the boat to be handled should be given.

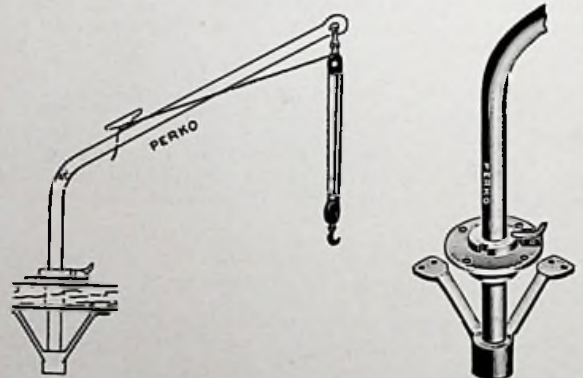
When ordering for use on the stern of cruisers, a drawing must be furnished showing an exact arrangement of the space available between the after cabin and the stern, also points where davits are to be installed. Any projections beyond the stern (such as struts, rudder posts, etc.) should be shown. If decks are "crowned," the angle should be indicated.

PRICES ON APPLICATION

Patent Locking Anchor Davits

BRONZE SUPPORTING BRACKETS

GALVANIZED DAVIT



Showing Bronze Base and Bracket

Fig. 937

Notched collar and foot lever locking device, furnishes easy one man control and makes possible the locking of davit either to port, starboard or aft.

Assembly consists of heavy cast bronze supporting bracket for underneath deck, special socket and galvanized davit in any diameter from 1½ to 2½ inches.

Complete information should be furnished as follows: 1, diameter of davit; 2, dimensions A, B, and C as illustrated on Fig. 936; 3, maximum weight of anchor to be handled.

PRICES ON APPLICATION



REGULATIONS OF MOTOR BOATS

DEPT. OF COMMERCE
BUREAU OF NAVIGATION

DEPT. CIRCULAR NO. 236
NINETEENTH EDITION
December 1, 1936

To collectors of customs, supervising and local inspectors. Steamboat Inspection Service, and others concerned:
Your attention is invited to the following act of Congress, approved June 9, 1910:
An Act to amend laws for preventing collisions of vessels and to regulate equipment of certain motor boats on the navigable waters of the United States.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the words "motor boat" where used in this Act shall include every vessel propelled by machinery and not more than sixty-five feet in length, except tug boats and tow boats 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 motor boats, which are more than forty feet in length, and which are propelled by machinery driven by steam.

SEC. 2. That motor boats subject to the provisions of this Act shall be divided into classes as follows:

Class one. Less than twenty-six feet in length.

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

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

SEC. 3. That every motor boat in all weathers from sunset to sunrise shall carry the following lights, and during such time no other lights which may be mistaken for those prescribed shall be exhibited.

(a) Every motor boat of class one shall carry the following lights:

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

Second. A combined lantern in the forepart 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 motor boat of classes two and three 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. The glass or lens shall be of not less than the following dimensions:

Class two. Nineteen square inches.

Class three. Thirty-one square inches.

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

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 glasses or lenses in the said side lights shall be of not less than the following dimensions on motor boats of—

Class two. Sixteen square inches.

Class three. Twenty-five square inches.

On and after July first, nineteen hundred and eleven, all glasses or lenses prescribed by paragraph (b) of section three shall be fresnel or fluted. The said lights shall be fitted with inboard screens of sufficient height and so set as to prevent these lights from being seen across the bow and shall be of not less than the following dimensions on motor boats of—

Class two. Eighteen inches long.

Class three. Twenty-four inches long:

Provided, That motor boats as defined in this Act, when propelled by sail and machinery or under sail alone, shall carry the colored lights suitably screened but not the white lights prescribed by this section.

SEC. 4. (a) Every motor boat under the provisions of this Act shall be provided with a whistle or other sound-producing mechanical appliance capable of producing a blast of two seconds or more in duration, and in the case of such boats so provided a blast of at least two seconds shall be deemed a prolonged blast within the meaning of the law.

(b) Every motor boat of class two or three shall carry an efficient foghorn.

(c) Every motor boat of class two or three shall be provided with an efficient bell, which shall be not less than eight inches across the mouth, on board of vessels of class three.

Tabulated statement of equipment required

	Carrying passengers for hire				Not carrying passengers for hire			
	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 3	Sec. 4	Sec. 5	Sec. 6
Class 1	Combination light forward. White light aft.	Whistle	Life preservers. Licensed operator.	Approved fire extinguishers.	Combination light forward. White light aft.	Whistle	Life preservers or life-saving devices prescribed by Act.	Approved fire extinguishers.
Class 2	White lights forward and aft and colored side lights, all with fresnel or fluted lenses.	Whistle, bell, and foghorn.	Same as class 1.	Same as class 1.	White lights forward and aft and colored side lights, all with fresnel or fluted lenses.	Whistle, bell, and foghorn.	Same as class 1.	Same as class 1.
Class 3	Same as class 2.	Same as class 2.	Same as class 1.	Same as class 1.	Same as class 2.	Same as class 2.	Same as class 1.	Same as class 1.

MARINE LAMPS FOR THE HOME

A beautiful assortment of table lamps and fixtures for the homes of yachtsmen and others who desire the savor of the sea in their home decorations.

What would be more appropriate in yacht clubs, marine decorated dens or basements, as trophies for boat or yacht races, and especially in any room or office where pleasure or business has some connection with the sea and vessels that sail upon it.

All shades are hand painted in beautiful colors on parchment, leather laced.

All bases are brass and bronze, highly polished and lacquered.

All lamps wired with 6 feet silk covered cable and plug attached.

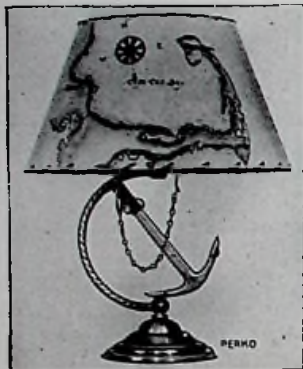


Fig. 1200

"Cape Cod"

Ht. Overall, 15 in.
Diam. Shade, 12 in.
Diam. Base, 5 1/4 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.25	\$9.50

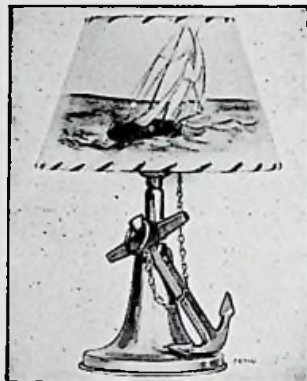


Fig. 1203

"Sea Foam"

Ht. Overall, 12 1/2 in.
Diam. Shade, 9 in.
Diam. Base, 5 1/4 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$7.00	\$8.25

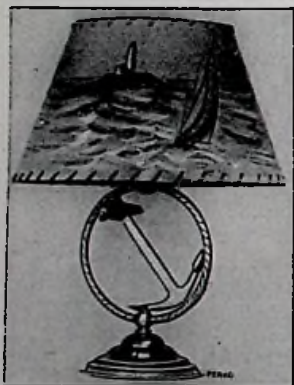


Fig. 1201

"Roamer"

Ht. Overall, 15 in.
Diam. Shade, 12 in.
Diam. Base, 5 1/4 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.50	\$9.75



Fig. 1204

"Bell Buoy"

Ht. Overall, 12 1/2 in.
Diam. Shade, 9 in.
Diam. Base, 5 1/4 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$7.00	\$8.25



Fig. 1202

"Zephyr"

Ht. Overall, 13 1/2 in.
Diam. Shade, 9 in.
Diam. Base, 3 1/2 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$7.25	\$8.50



Fig. 1205

"Ventura"

Ht. Overall, 13 1/2 in.
Diam. Shade, 9 in.
Diam. Base, 3 1/2 in.

Complete with Shade

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

"Mariner"



Fig. 1206

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.50	\$9.75

"Wanderer"



Fig. 1210

With two fresnel lenses, one red, one green, additional socket inside lenses, with switch.

Ht. Overall, 11 in.
Diam. Shade, 8 in.
Diam. Base, 4½ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$5.00	\$6.25

"Sea Way"



Fig. 1207

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$7.25	\$8.50

"Hatteras"



Fig. 1211

With green fresnel lens, additional socket inside lens, with switch.

Ht. Overall, 13 in.
Diam. Shade, 11 in.
Diam. Base, 6 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.00	\$9.25

"Whaler"



Fig. 1208

WITH CHIMNEY
ELECTRIC

Ht. Overall, 13¼ in.
Diam. Shade, 10 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$10.00	\$11.50

"Oil Lamp"



Fig. 1212

WITH SHADE
WEIGHTED BASE

Ht. Overall, 15¼ in.
Diam. Shade, 10 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$9.00	\$10.50

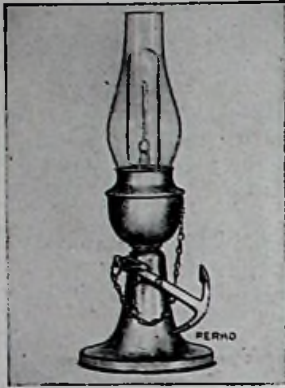


Fig. 1209

"Clipper"

WITH CHIMNEY
ELECTRIC

Ht. Overall, 13 1/4 in.
Diam. Base, 5 1/4 in.

Complete

Polished Brass Each	Chromium Plated Each
\$9.00	\$10.50

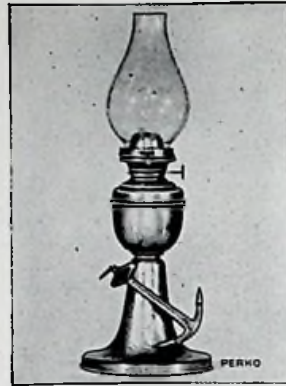


Fig. 1213

"Oil Lamp"

WITHOUT SHADE
WEIGHTED BASE

Ht. Overall, 15 1/4 in.
Diam. Base, 5 1/4 in.

Complete

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

Anchor Candle Sticks

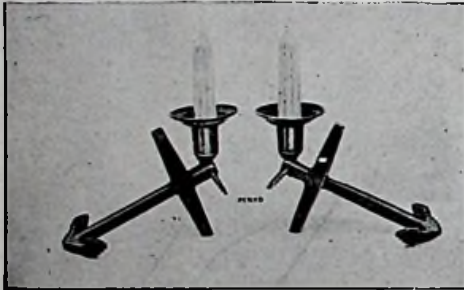


Fig. 1218

Length, 6 3/4 in.—Height, 4 1/2 in.

Polished Cast Bronze—per pair	\$4.50
Chromium Plated—per pair	6.00

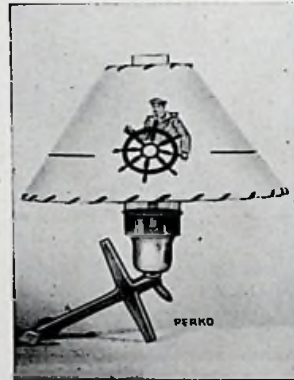


Fig. 1214

"Skipper"

WITH CHIMNEY
ELECTRIC

Height Overall, 11 1/4 in.
Diameter Shade, 10 in.
Length Anchor, 6 in.

Complete with Shade

Polished Bronze Each	Chromium Plated Each
\$5.75	\$6.90

Anvil Book Ends

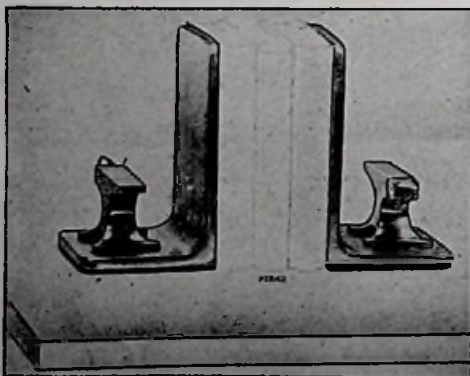


Fig. 1219

Height, 5 in.—Base, 3 1/2 x 3 in.

Polished Cast Bronze—per pair	\$ 9.00
Chromium Plated—per pair	10.50

Anchor Book Ends

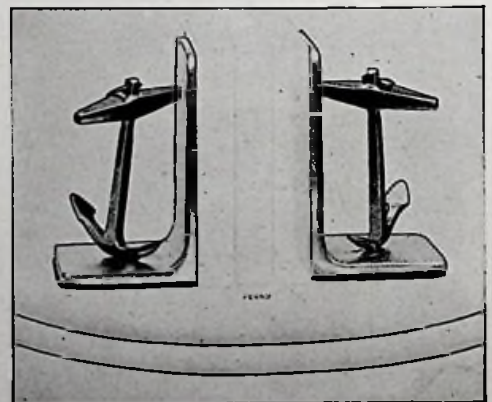


Fig. 1215

Height, 5 in.—Base, 3 1/2 x 3 in.

Polished Cast Bronze—per pair	\$ 9.50
Chromium Plated—per pair	11.00

MARINE LAMPS FOR THE HOME, Etc.

The marine lamps and fixtures illustrated on these pages are all authentic marine items made for use on boats. Not imitations.

All lamps are solid brass—polished and lacquered—wired with six feet silk covered cable and plug attached. Standard screw socket for 110 volt system. Shades are hand painted on sail cloth, leather laced, in beautiful colors.

All lamps are equipped with switches to control inside bulb. Bases are covered with felt.



Fig. 1221

NAUTILUS

Height, 22"
Diam. Base, 5 3/4"
Diam. Shade, 17"
Diam. Wheel, 12"

Bronze Steering Wheel. Hand painted antiqued egg shell parchment shade.

Complete with Shade

Polished Brass Each
\$16.00

Chromium Plated Each
\$18.50



Fig. 1223

SEA PINE

Height, 17"
Base, 5x5 1/2"
Diam. Shade, 15"

Flat Back. Red and greenglasses. Doors open. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each
\$16.00

Chromium Plated Each
\$18.00



Fig. 1224

ALBATROSS

Height, 18 1/2"
Base, 5x5 1/2"
Diam. Shade, 15"

Flat back. Clear glass. Door opens. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each
\$14.00

Chromium Plated Each
\$16.00

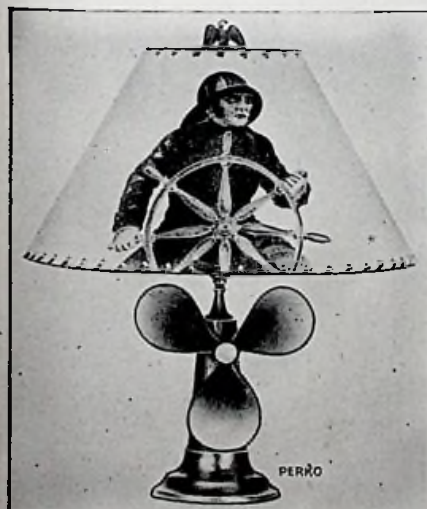


Fig. 1222

NORSEMAN

Height, 20"
Diam. Base, 5 3/4"
Diam. Shade, 17"
Diam. Prop., 9"

Aluminum propeller. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each
\$15.50

Chromium Plated Each
\$17.50

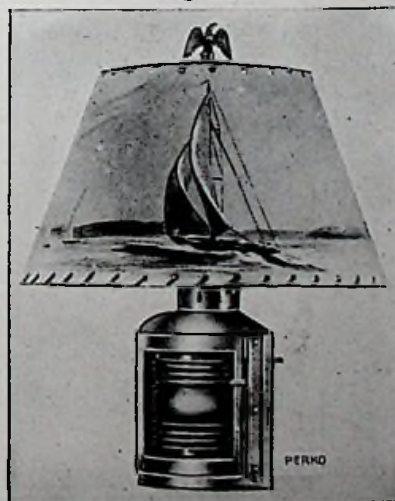


Fig. 1225

MIRAMAR

Height, 19"
Base, 5x5"
Diam. Shade, 15"

Corner back. Red or green glass. Door opens. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each
\$14.00

Chromium Plated Each
\$16.00



Fig. 1226

NAVIGATOR

Height, 23"
Diam. Base, 5 1/4"
Diam. Shade, 13"
Size Globe, 8x8"

Globe frosted.
Light inside.
Hand painted
antiqued egg
shell parch-
ment shade.

**Complete
with Shade**

Polished Brass
Each
\$18.00

Chromium
Plated
Each
\$20.00

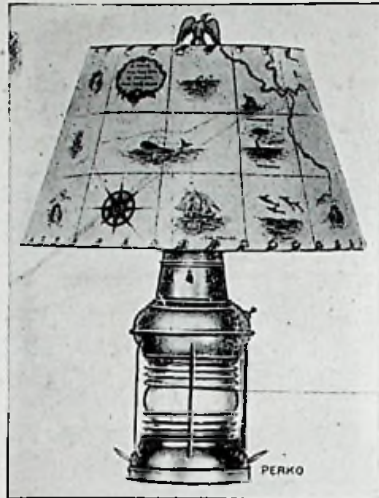


Fig. 1229

NOMAD

Height, 20"
Diam. Base, 5 1/4"
Diam. Shade, 15"
Size Glass, 4x4 1/4"

Glass clear.
Light inside.
Hand painted
sail cloth shade.

**Complete
with Shade**

Polished Brass
Each
\$14.50

Chromium Plated
Each
\$16.00

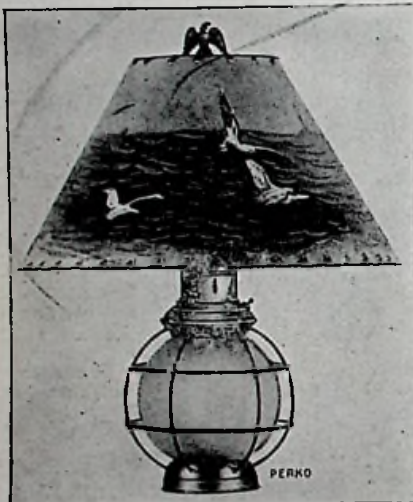


Fig. 1227

SEA GULL

Height, 19 1/4"
Diam. Base, 4 1/4"
Diam. Shade, 17"
Size Globe, 6x6"

Globe frosted.
Light inside.
Hand painted
sail cloth shade.

**Complete
with Shade**

Polished Brass
Each
\$16.00

Chromium
Plated
Each
\$17.50

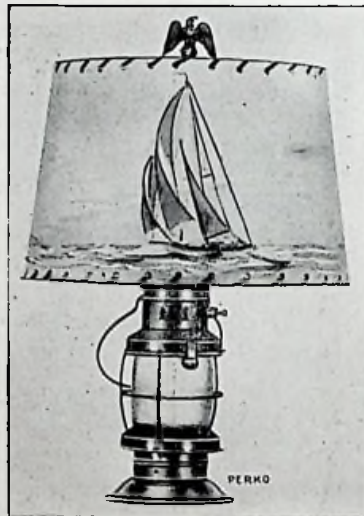


Fig. 1230

SPINDRIFT

Height, 17"
Diam. Base, 4 1/4"
Diam. Shade, 12"
Size Globe, 3x4 1/4"

Globe frosted,
Light inside. Hand
painted sail cloth
shade.

**Complete
with Shade**

Polished Brass
Each
\$11.00

Chromium Plated
Each
\$12.25

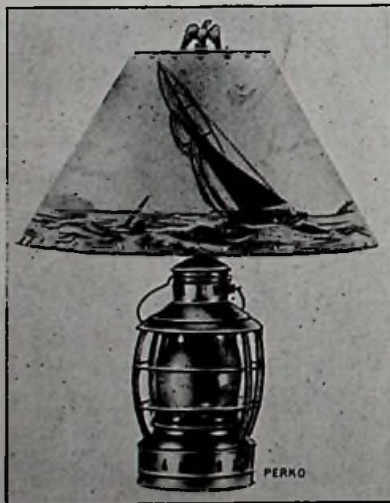


Fig. 1228

SPRAY

Height, 21 1/4"
Diam. Base, 5 1/4"
Diam. Shade, 17"
Size Globe, 4x6 1/2"

Globe frosted.
Light inside.
Hand painted
sail cloth shade.

**Complete
with Shade**

Polished Brass
Each
\$15.00

Chromium
Plated
Each
\$16.50



Fig. 1231

MAYFLOWER

Height, 18 1/2"
Diam. Base, 6"
Diam. Shade, 12"

Bronze anchor and
boat hook. Pen and
ink antiqued egg
shell parchment
shade.

**Complete
with Shade**

Polished Brass
Each
\$14.00

Chromium Plated
Each
\$15.25

All lamps on this page except Fig. 1231 can be had with Red, Green or Blue Globes, add \$1.00 to above prices—
if clear globe is desired, deduct \$.50 from above prices.

ALL SHADES ARE LEATHER LACED

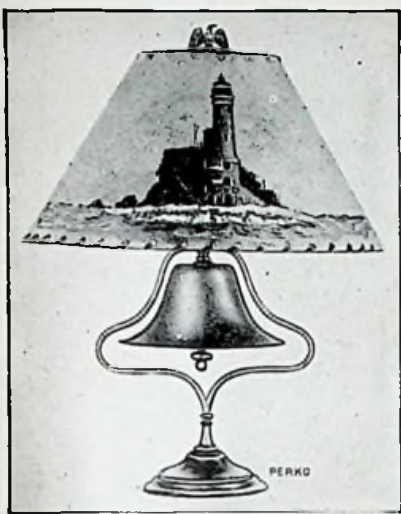


Fig. 1232

NORTHERN LIGHT

Height, 22"
Diam. Base, 6"
Diam. Shade, 17"
Diam. Bell, 8"

Hand painted sailcloth shade.

Complete with Shade

Polished Brass Each
\$14.00

Chromium Plated Each
\$15.75



Fig. 1235

RAINBOW

Height, 16"
Diam. Base, 4 1/4"
Diam. Shade, 12"
Size Glass, 3 3/8 x 3 3/8"

Glass clear. Light inside. Pen and ink antiqued egg shell parchment shade.

Complete with Shade

Polished Brass Each
\$8.75

Chromium Plated Each
\$10.00



Fig. 1233

NORDIC

Height, 19"
Diam. Base, 6"
Diam. Shade, 15"
Diam. Bell, 6"

Hand painted sailcloth shade.

Complete with Shade

Polished Brass Each
\$12.50

Chromium Plated Each
\$14.00



Fig. 1236

DRIFT

Height, 15"
Diam. Base, 4 1/4"
Diam. Shade, 12"
Size Glass, 3 3/8 x 3 3/8"

Glass clear. Light inside. Pen and ink antiqued egg shell parchment shade.

Complete with Shade

Polished Brass Each
\$8.50

Chromium Plated Each
\$9.75



Fig. 1234

SEA LURE

Height, 16"
Diam. Base, 8 1/4"
Diam. Shade, 12"
Diam. Bell, 6"

Hand painted sailcloth shade.

Complete with Shade

Polished Brass Each
\$10.00

Chromium Plated Each
\$12.00

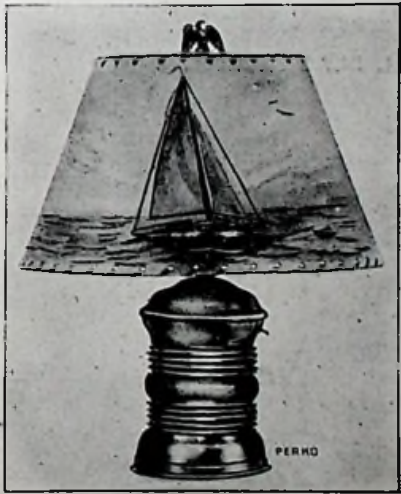


Fig. 1237

TYPHOON

Height, 18"
Diam. Base, 6"
Diam. Shade, 15"
Size Glass, 4 1/4 x 4 1/4"

Glass green. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each
\$10.75

Chromium Plated Each
\$12.00

Any of the above lamps can be had with Red, Green, Blue, Amber or Frosted Glasses, add \$1.00 to above prices.

ALL SHADES ARE LEATHER LACED

Miniature Anchors

CAST BRONZE



Fig. 84

These small anchors have various uses as ornaments. They are well made and highly finished. A fine replica of the old style kedge anchor.

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Overall Inches	Width Overall Inches	Weight Ounces
1	\$1.50	\$1.80	\$2.10	4 1/4	3	6
2	1.75	2.10	2.50	5 3/4	4 1/4	12
3	2.00	2.40	2.90	6	4 1/4	16

The "Lighthouse"

ELECTRIC

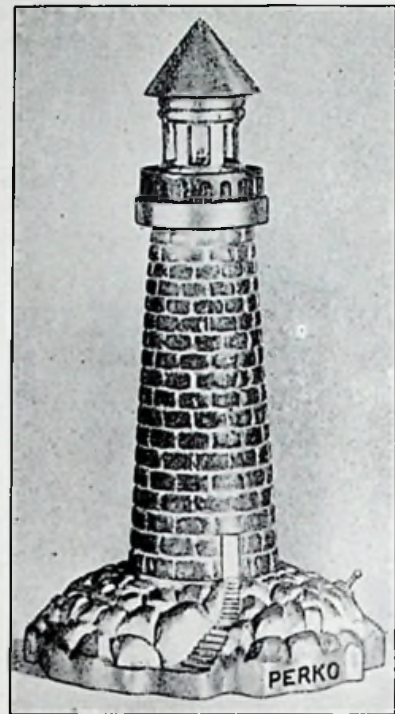


Fig. 832

A very attractive novelty, especially useful as a night light, and will harmonize very well in any place nautically decorated.

Made entirely of cast aluminum alloy, in steel gray finish. Equipped with 110 volt bulb, and toggle switch in base, furnished for steady light or flashing, on and off lighting.

Extreme Height Inches	Diameter Base Inches	Weight Pounds
11 3/4	6 3/4	3 1/2

Price—Steady light, no flasher \$15.00

Price—Intermittent light, with flasher 16.50



Fig. 837

"Perko" Novelty Anchors

POLISHED BRASS

As a lamp pull or fitting for the model yacht, this miniature anchor is very appropriate.

2 inches long, per dozen \$3.60

Anchor Andirons

DULL BLACK FINISH

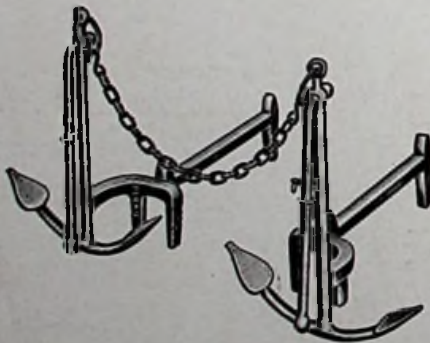


Fig. 1220

A pair of regular old style fisherman's anchors, mounted on legs and log guards.

Price Per Pair	Height Inches	Width Inches	Depth Inches	Weight Pounds
\$10.00	17	31	20	25

Ashtrays

POLISHED CAST BRONZE

Dory



Fig. 1216

Whale Boat



Fig. 1217

Made in two styles as shown above, of cast bronze, highly polished, length overall—5 3/4 inches.

Price Per Dozen \$6.00

"PERKO" MARINE HOUSE FIXTURES

All constructed of heavy brass or copper, with original marine fresnel magnifying lens, glass dome bottom for reflecting light downward and standard screw sockets. All wired to meet requirements of fire underwriters, ready for installation.



Fig. 471

Universal Pattern

With cast bronze ring in top for loose hanging from chain or wall bracket. Hinged dome bottom.

No.	Height Inches	Diam. Inches	Size Globe Inches
1	9	4 1/2	3 3/8 x 3 1/2
2	11 1/2	5 1/2	4 1/4 x 4 1/4

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$6.00	\$8.00	\$2.00
2	7.75	9.75	2.00



Fig. 436

Turret Pattern

With cast bronze ring for hanging. A regular ship's anchor light fitted up for fixture use.

No.	Height Inches	Diam. Inches	Size Globe Inches
22	17	7 1/2	5 1/2 x 6
22 1/2	18 1/2	7 1/2	6 x 6 1/2
23	21 1/2	9 1/2	7 x 8

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
22	\$25.00	\$30.00	\$5.00
22 1/2	27.00	32.00	5.00
23	33.00	42.00	9.00

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



Fig. 363

Universal Pattern

WITH WALL BRACKET

Diameter bracket 4 1/2 inches.

No.	Height Inches	Diameter Inches	Size Globe Inches
1	9	4 1/2	3 3/8 x 3 1/2
2	11 1/2	5 1/2	4 1/4 x 4 1/4

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$7.50	\$ 9.50	\$2.00
2	9.25	11.25	2.00



Fig. 442

Marine Pattern

Half round body with flat back for mounting on wall or side of post.

With front door for cleaning or re-bulbing and bracket.

No.	Height Overall Inches	Width Inches	Size Lens Inches
1	11	5	4 1/4 x 6 1/2
2	13	5 1/2	5 1/4 x 7 1/4

No.	Galvanized Each	Polished Brass Each	Chromium Plated Add Each
1	\$5.00	\$6.25	\$2.00
2	6.25	8.50	2.25

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



Fig. 361

Universal Pattern

WITH CEILING CANOPY

Diameter canopy 4 1/2 inches.

No.	Height Inches	Diam. Inches	Size Globe Inches
1	9	4 1/2	3 3/8 x 3 1/2
2	11 1/2	5 1/2	4 1/4 x 4 1/4

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$7.50	\$ 9.50	\$2.00
2	9.25	11.25	2.00



Fig. 443

Triangle Pattern

A triangular shaped body for mounting in corners.

With front door for cleaning or re-bulbing and bracket.

No.	Height Overall Inches	Width of Sides Inches	Size Lens Inches
1	11	5 1/4	4 1/4 x 4 1/4
2	13	5 1/2	5 1/4 x 5 1/4

No.	Galvanized Each	Polished Brass Each	Chromium Plated Add Each
1	\$5.00	\$6.25	\$2.00
2	6.25	8.50	2.25

Furnished with clear, red or green lenses. Specify color desired.

Figs. 361, 363, 471 with red, green, blue, or amber globes add \$2.00 to above prices.



Knight Pattern

With cast bronze ring in top for hanging.

No.	Height Inches	Diam. Inches	Size Globe Inches
1	8½	4½	3¾ x 3¾
2	12	5¾	4¼ x 4¼

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$6.50	\$8.50	\$2.00
2	8.00	9.90	2.00

Fig. 519



Royal Pattern

With clear globe and ring in top for hanging.

No.	Height Inches	Width Inches	Globe Inches
1	12	8	6 x 6
2	16	10	8 x 8
3	23	12½	10 x 10

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$10.50	\$11.50	\$2.50
2	13.00	14.50	2.50
3	23.50	26.50	4.50

Fig. 437



Knight Pattern WITH DAVIT BRACKET

No.	1	2
	Inches	Inches
Height	10½	13
Projection	8¾	10
Size globe	3¾ x 3¾	4¼ x 4¼
Diam. wall plate	4½	4½

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$11.00	\$13.00	\$3.00
2	12.50	14.50	3.00
Bracket only			
	4.00	4.50	1.00

Fig. 440



Royal Pattern

WITH WALL BRACKET

Diameter bracket 4½ inches.

No.	Height Overall Inches	Diam. Wall Plate Inches
1	13	4½
2	17	4½
3	24	4½

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$12.00	\$13.00	\$3.00
2	14.50	16.00	3.00
3	25.00	28.00	5.00

Fig. 438



Knight Pattern

WITH DAVIT BRACKET

No.	1	2
	In.	In.
Height,	17	17
Protection,	8½	9
Diam. Globe,	3¾	4¼

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$11.00	\$13.00	\$3.00
2	12.50	14.50	3.00

Fig. 577



Royal Pattern

WITH CEILING CANOPY

Diameter canopy 4½ inches.

No.	Height Overall Inches	Diam. Canopy Inches
1	12¾	4½
2	16¾	4½
3	24	4½

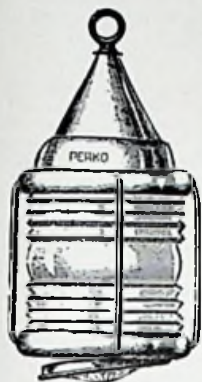
No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$12.00	\$13.00	\$3.00
2	14.50	16.00	3.00
3	25.00	28.00	5.00

Fig. 556

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

Royal pattern fixtures can be furnished with red, green, blue, or frosted globes. Add \$3.00 to above prices.

Colonial Pattern



With cast bronze ring in top for hanging from chain or wall bracket. Hinged dome bottom.

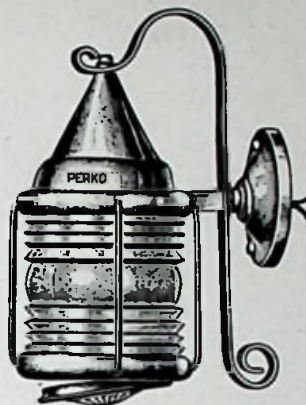
No.	Height Inches	Diam. Inches	Size Globe Inches
1	7 1/4	4	3 3/8 x 3 1/2
2	8	4 3/4	4 1/4 x 4 1/4
3	9 1/4	6	5 3/8 x 6

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$5.00	\$ 7.00	\$2.00
2	6.00	8.00	2.00
3	9.00	11.00	2.00

Fig. 518

Bishop Pattern

WITH IMPERIAL BRACKET



Same lamp as Fig. 518 with spun wall plate 4 1/2 inches in diameter.

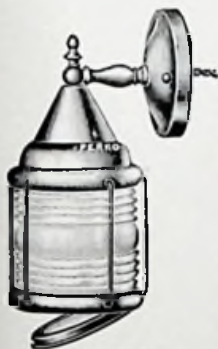
No.	Height Overall Inches	Width Overall Inches
1	9 1/4	7 1/2
2	10 3/4	8 1/2

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$11.00	\$13.00	\$2.50
2	12.00	14.00	2.50

Fig. 464

Colonial Pattern

WITH WALL BRACKET



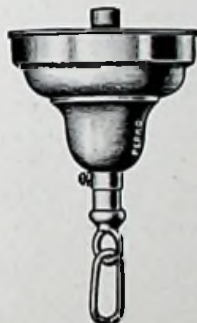
Diameter Bracket, 4 1/2 inches

No.	Height Inches	Diam. Inches	Size Globe Inches
1	7 1/4	4	3 3/8 x 3 1/2
2	8	4 3/4	4 1/4 x 4 1/4
3	9 1/4	6	5 3/8 x 6

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$ 6.50	\$ 8.50	\$ 8.50
2	7.50	9.50	9.50
3	10.50	12.50	12.50

Fig. 799

Ceiling Canopy



Extra heavy spun metal with stud and adjustable stem. Furnished with one link of chain.

Diameter Inches	Length Closed Inches
5	6

Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
\$2.50	\$3.00	\$.75

Fig. 465

Colonial Pattern

WITH CEILING CANOPY



Diameter Canopy, 4 1/2 inches

No.	Height Inches	Diam. Inches	Size Globe Inches
1	7 1/4	4	3 3/8 x 3 1/2
2	8	4 3/4	4 1/4 x 4 1/4
3	9 1/4	6	5 3/8 x 6

No.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
1	\$ 6.50	\$ 8.50	\$2.00
2	7.50	9.50	2.00
3	10.50	12.50	2.00

Fig. 360

Ceiling Canopy

SHALLOW TYPE



Extra heavy spun metal with junction box strap.

Diameter Inches	Depth Inches
4 1/2	1

Polished Brass Each	Polished Copper Each	Chromium Plated Add Each
\$2.00	\$2.25	\$.75

Fig. 558



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