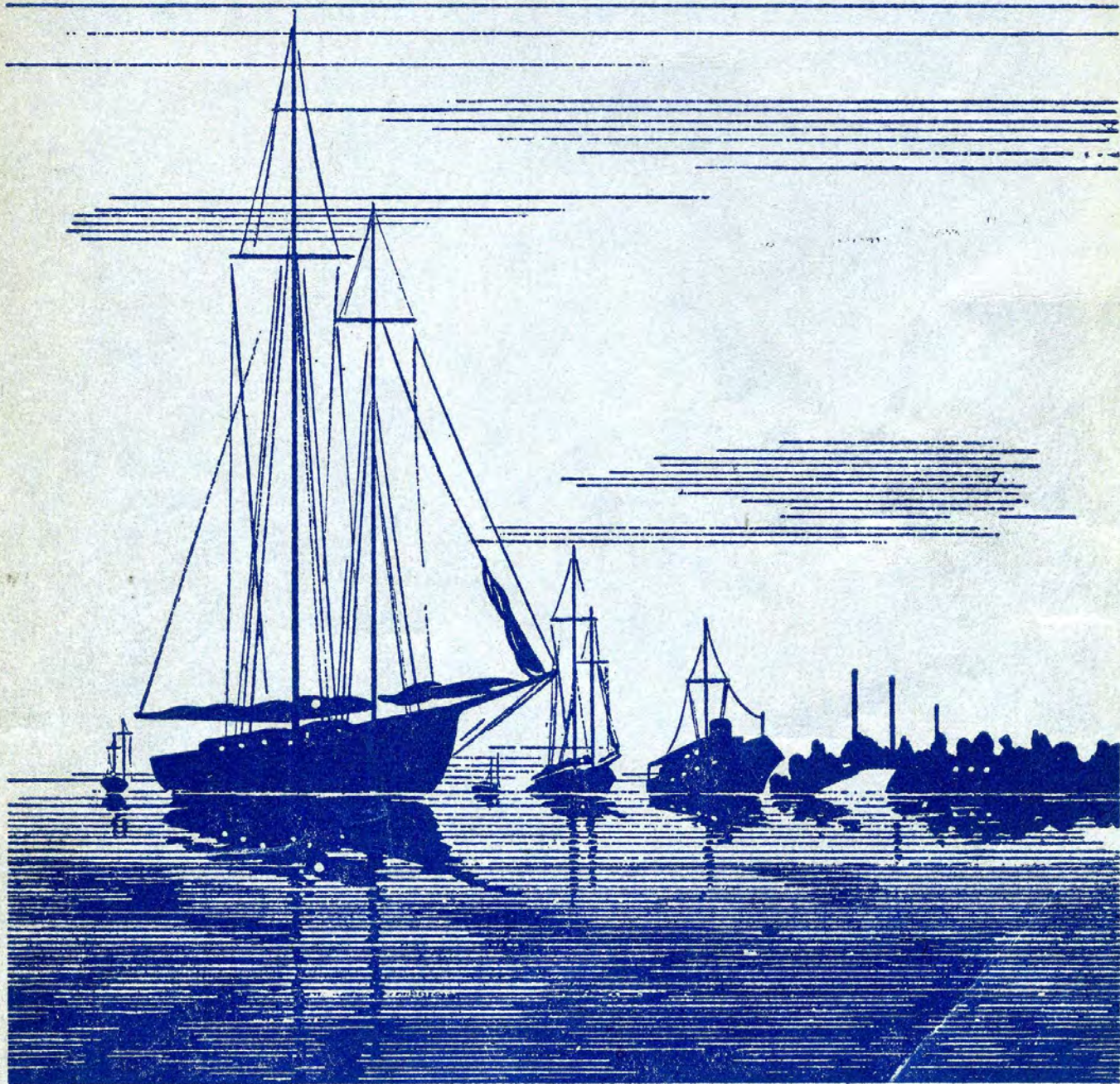


P E R K O



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

CATALOG 95
1940



Marine Supplies

GENERAL INFORMATION

PRICES

Prices subject to change without notice.

SHIPPING

Heavy goods will be shipped by freight unless especially ordered by express. Please do not neglect to state how you wish us to ship.

HOW TO RETURN GOODS

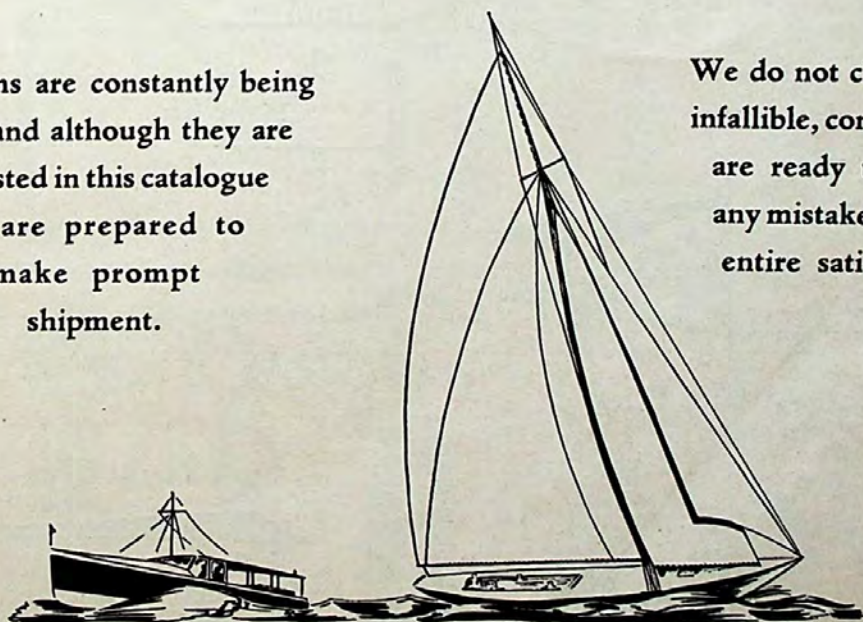
If for any reason you should desire to return goods to us, please write us first and get our shipping directions and agreement for the return of same.

Special orders for cut lengths of manila and wire rope, etc. cannot be returned for credit if we have filled your order correctly.

The carriers are responsible for goods lost or damaged in transit, and claim should be made against transportation company.

New items are constantly being added and although they are not listed in this catalogue we are prepared to make prompt shipment.

We do not claim to be infallible, consequently are ready to adjust any mistakes to your entire satisfaction.



American Flags
ALL WOOL BUNTING



Fig. 01

Size Feet	Each	
	Wool	Cotton
2 x 3	\$ 2.70	\$1.70
2½ x 4	3.55	2.00
3 x 5	5.00	2.65
4 x 6	7.00	3.60
5 x 8	11.00	5.20
6 x 10	15.70	6.75
8 x 12	23.00	9.80

Yacht Ensigns
ALL WOOL BUNTING



Fig. 02

Size Inches	Each	
	Wool	Cotton
12x18	\$1.90	\$1.40
16x24	2.20	1.60
20x30	2.50	1.65
24x36	3.20	1.80
Size Feet		
2½x4	3.80	2.20
3 x 5	5.50	2.80
4 x 6	7.70	3.85

Union Jacks
ALL WOOL BUNTING



Fig. 03

Size Inches	Each	
	Wool	Cotton
18x24	\$2.50	\$2.00
20x30	3.00	2.15
Size Feet		
2x3	3.30	2.40
3x4	5.25	3.30
4x6	8.50	5.25



Fig. 05

Club Flags

Size Inches	Each Wool
12x18	\$2.50
16x24	2.85
20x30	3.50
24x36	4.60

Owner's Flags

Size Inches	Each Wool
12x18	\$3.65
16x24	3.65
20x30	4.70
24x36	5.80

Owners' and Club Flags are made to order, from your design.



Fig. 06

Meal and Absent Flag

Fig. 08

Size Inches	Wool Price Each
8x12	\$.40
10x15	.50
12x18	.60

Be sure to specify which flag is required.

Guest Flags

Fig. 09

Size Inches	Wool Price Each
10x15	\$2.00
12x18	2.25

New Code Signals

MADE OF COTTON-WOOL BUNTING
Set Consists of 40 Flags

CODE FLAG	AND ANSWERING PENNANT
A	B
C	D
E	F
G	H
I	J
K	L
M	N
O	P
Q	R
S	T
U	V
W	X
Y	Z
1	2
3	4
5	6
7	8
9	0
FIRST REPEATER	SECOND REPEATER
THIRD REPEATER	
BLACK	RED
YELLOW	BLUE
WHITE	

Fig. 04

Complete with heavy brown canvas bags containing separate pockets for each individual flag and allowing room for Ensign, American Flag, Club Flag, Dinner Flag, Owner's Flag, etc.

No.	Size Inches	Cotton Bunting Per Set	Wool Bunting Per Set
1	15x18	\$34.40	\$49.00
3	24x24	48.80	79.00

Officers' Flags



Fig. 013

Commodore's Flag—Blue ground, white stars and anchor.

Vice-Commodore—Red ground, white stars and anchor.

Rear Commodore—White ground, red stars and anchor.

Fleet Captain—White, blue anchor.

Size Inches	Price
12x18	\$2.50
16x24	3.00
20x30	3.50

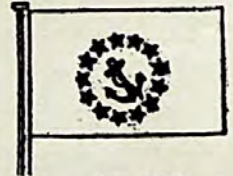


Fig. 010

Yacht Flies



Fig. 07

Size Inches	Blue or Red Each	Blue & White Each	Red & White Each
12	\$.24	\$.36	\$.36
15	.30	.45	.45
18	.36	.54	.54

BALLOON FLYS MADE TO ORDER

YACHT BLOCKS—Lignum-vitæ or Ash Shells



Solid or Punched Eye Takes B extra



Lashing Eye



Upset Front Shackle



Side Shackle Takes D extra



Stiff Swivel Hook Takes F extra



Front Coleman Hook Takes B extra



Loose Eye Bolt and Spectacle Takes F extra



Anchor Trip Hook Takes G extra



Side Loose Hook



Self Locking Takes F extra



Upset Side Shackle Takes D extra



Side Sister Hook



Stiff, Swivel Jaw and Guy Eyes and Becket Takes H extra

Price List

This list includes only those fittings for which there is no extra charge.

Size Block Inches	Size Sheave, In. Diam.	Sheave Thick-ness	Pin In-	For Diam. Rope Inches	Roller Bushed Galvanized Sheaves—			Roller Bushed Bronze Sheaves—		
					Single Each	Double Each	Triple Each	Single Each	Double Each	Triple Each
2 1/2	1 3/8	1 1/8	1 1/8	3/8	\$3.25	\$5.35	\$8.75	\$3.25	\$5.50	\$8.25
3	1 3/4	1 1/2	1 1/8	3/8	3.75	6.15	9.35	3.50	5.85	9.00
3 1/2	2	1 5/8	1 1/8	1/2	4.25	7.00	10.75	4.00	6.75	10.25
4	2 1/4	1 5/8	3/8	1/2	4.60	8.25	12.50	4.50	7.75	11.75
4 1/2	2 3/4	1 3/4	3/8	5/8	5.50	10.00	15.00	5.00	9.00	13.75
5	3	1 1/2	3/8	3/4	6.75	12.00	18.50	6.00	11.00	16.50
6	3 1/2	1	1/2	3/4				7.50	13.50	20.50

Extras for Special Fittings

For some fittings illustrated on this page there is an extra charge in addition to the price of the block. Under the illustrations of blocks with special fittings appears the caption, "Takes A (or B, etc.) extra."

This extra charge is found in the following list under the designating letters (A to H, inclusive) and varies with the size of the block.

Inches Size Block	A	B	C	D	E	F	G	H
2 1/2—3	\$.30	\$.75	\$.90	\$1.00	\$1.25	\$1.50	\$2.00	\$3.00
3 1/2—4	.40	1.00	1.10	1.25	1.50	1.75	2.50	3.50
4 1/2—5	.50	1.25	1.40	1.75	2.00	2.50	3.50	4.00
6	.60	1.50	2.00	2.50	3.25	3.75	4.50	5.00

NOTE—Any of the fittings shown on this page can be furnished on single, double or triple blocks and with or without becket.

Blocks with self-lubricating sheaves furnished at an additional charge.



Front Loose Hook Takes A extra



Loose Swivel Hook Takes C extra



Front Shackle



Long Front Loose Hook Takes C extra



Upset Swivel Shackle Takes G extra

REGULATIONS OF MOTOR BOATS

DEPT. OF COMMERCE
BUREAU OF MARINE INSPECTION
AND NAVIGATION

DEPT. CIRCULAR NO. 236
TWENTY-FIRST EDITION
AUGUST 25, 1939

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.

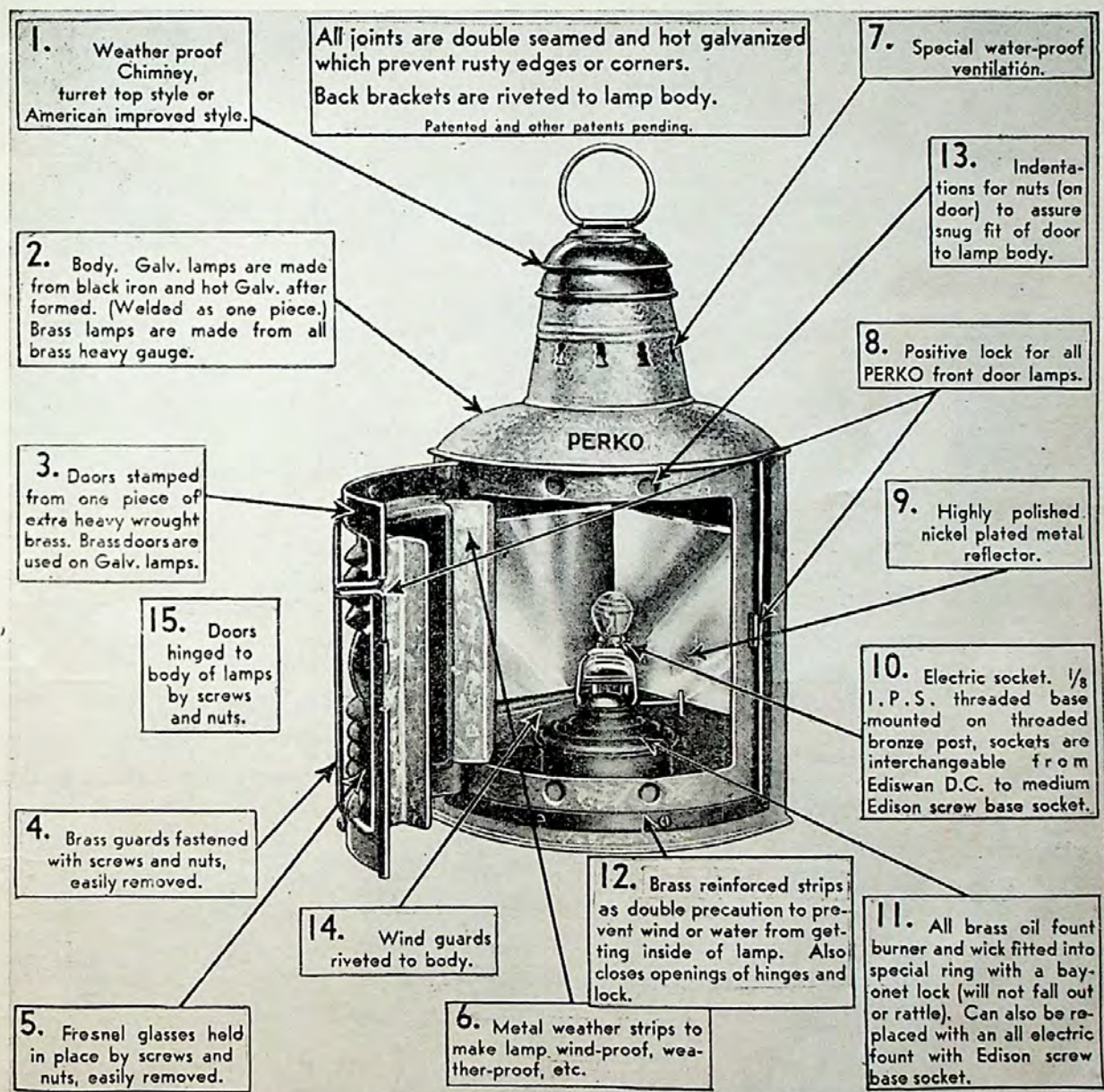
(c) Every motor boat of class two or three shall be provided with an efficient bell, which shall be not less than eight inches across the mouth, on board of vessels of class three.

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.	Fire extinguishing apparatus.	Combination light forward. White light aft.	Whistle	Life preservers or life-saving devices prescribed by Act.	Fire extinguishing apparatus.
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.

On motor boats of class one the use of separate red and green side lights is prohibited. The law does not specify the size of lights to be carried on motor boats of class one. They should be large enough, however, to accomplish the purpose intended.

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

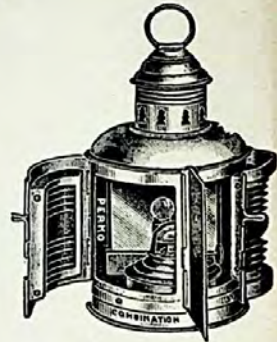
Measurements of base, 5 inches x 5 1/2 inches

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

Weight, 3 pounds



(Closed)



(Opened)

FIG. 0-1

	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
Galvanized Each	\$6.75	\$7.25	\$8.00
\$5.50			

"Perko" De-Lite Combination Lights

FLAT TOP
ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 6 1/2 inches

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

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

Weight, 2 1/2 pounds



(Closed)



(Opened)

FIG. 0-10

	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
Galvanized Each	\$6.75	\$7.25	\$8.00
\$5.50			

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

	Polished Brass Each
Galvanized Each	\$5.75
Oil or Elec. Only	\$4.65
Oil and Electric	4.90 6.00

Old Style Combination Lights

FLAT TOP
FOR CLASS 1 BOATS—LESS THAN 26 FT. LONG
ELECTRIC ONLY—DOUBLE CONTACT SOCKET
WITH RED AND GREEN
LENSES

Height less Ring, 6 1/4 inches.

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

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

Weight, 2 pounds.



Fig. 3

	Polished Brass Each
Galvanized Each	\$5.75
\$4.65	

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.50 EACH
 EXTRACT FROM MOTOR BOAT LAW IN EFFECT AUGUST 25, 1939

(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" De-Lite Stern and Anchor Lights

TURRET TOP—BOLTED GUARDS

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

FOR CLASS 1 BOATS—LESS THAN 26 FEET LONG

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



Fig. 0-2

Height
Less Ring
Inches
8 5/8

Diam.
Base
Inches
4 1/2

Size of
Lens
Inches
3 3/8 x 3 1/2

Weight
Each
Pounds
2



Fig. 735



Fig. 0-6

Height
Less Ring
Inches
11 3/4

Diam.
Base
Inches
5 5/8

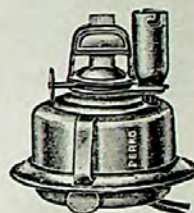


Fig. 736

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

Weight
Each
Pounds
3

CLEAR LENS

OIL OR ELECTRIC ONLY

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
\$3.75	\$5.00	\$8.50	\$5.50	\$6.00

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

CLEAR LENS

OIL OR ELECTRIC ONLY

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

OIL AND ELECTRIC COMBINED

Galv. Each	Polished Brass Each	Polished Copper Each	Nickel Plated Each	Chromium Plated Each
\$4.75	\$6.75	\$10.00	\$7.25	\$8.00

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

"Perko" De-Lite Stern and Anchor Lights

FLAT TOP—BOLTED GUARDS

ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

CLASS 1

CLASS 2 AND 3



Fig. 11

Height
Less Ring
Inches
6

Diam.
Base
Inches
4 1/2

Size
of Lens
Inches
3 3/8 x 3 1/2

Weight
Each
Pounds
1 1/2

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

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



Fig. 12

Height
Less Ring
Inches
9

Diam.
Base
Inches
5 5/8

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

Weight
Each
Pounds
2 1/2

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

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

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

"Perko" De-Lite Side Lights
TURRET TOP

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

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



(Closed)

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

FIG. 0-4

Galvanized Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$8.50	\$11.00	\$12.00	\$13.00



(Opened)

"Perko" De-Lite Bow Lights
TURRET TOP
CLASS 2—OIL AND ELECTRIC

Height, less ring, 10½ inches
Size of lens, 4¼ inches x 6¼ inches
Measurements of base, 5 inches x 5½ inches
Weight, each, 3 pounds

FIG. 0-5

	Galvanized Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
With clear lens	\$4.25	\$5.50	\$6.00	\$6.50
With colored lens	5.25	6.50	7.00	7.50



(Closed)



(Opened)

"Perko" De-Lite Side Lights
FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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

FIG. 0-40

Galvanized Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$8.50	\$11.00	\$12.00	\$13.00



(Opened)

"Perko" De-Lite Bow Lights
FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¾ inches
Measurements of base, 5 inches x 5½ inches
Size of lens, 4¼ inches x 6¼ inches
Weight, each, 2¾ pounds

FIG. 0-50

	Galvanized Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
With clear lens	\$4.25	\$5.50	\$6.00	\$6.50
With colored lens	5.25	6.50	7.00	7.50



(Closed)



(Opened)

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

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 6½ 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

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Size of lens, 5¼ inches x 7¾ inches
 Height, less ring, 8½ inches
 Measurements of base, 5½ inches x 6½ 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)

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

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

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



Fig. 17

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

	Galvanized Per pair	Polished Brass Per pair
Oil or Elec. Only	\$7.00	\$ 9.50
Oil and Electric	7.50	10.00

Old Style Class 2 Bow Lights

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



Fig. 18

Size of Lens, $4\frac{1}{4} \times 6\frac{1}{2}$ "
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	\$3.50	\$4.75
Oil and Electric	3.75	5.00

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

Old Style Class 3 Side Lights

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



Fig. 19

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

BOTTOM OPENING—SPRING FOUNT
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, $5\frac{1}{2} \times 6\frac{1}{4}$ "
Weight Each, $3\frac{1}{2}$ lbs.

WITH CLEAR LENS

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

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

Old Style Flat Top Side Lights

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



Fig. 4

Class	Galvanized Per Pair	Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
2	\$6.50	\$ 9.00	\$10.50	\$11.50
3	9.00	13.20	14.50	16.00

CLASS 2
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.

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

Old Style Flat Top Bow Lights

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



Fig. 5

Class	Galvanized Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
2	\$3.25	\$4.50	\$5.25	\$5.75
3	4.50	6.60	7.25	8.00

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

CLASS 2
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.

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

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

10 Day Anchor Lights OIL BURNING—IMPROVED



Fig. 596



Fig. 596-A

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

Extreme Height Inches	Diameter Fount Inches	Size of Lens Inches	Weight Lbs.
14	7	4 1/4 x 4 1/4	4
CLEAR LENS			
		Galvanized Each	Polished Brass Each
Fig. 596, Lamp Complete		\$11.50	\$13.50
Fig. 596A, Fount Complete		7.00	7.00
Lamp Only Without Fount		7.00	8.00

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

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

30 Day Anchor Light ELECTRIC—DRY BATTERIES POLISHED COPPER



Fig. 13

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

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

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

No.	Extreme Height Inches	Diameter Base Inches	Size of Lens Inches	Weight Pounds
1	16 1/2	6 1/2	4 1/4 x 4 1/4	5 1/2
2	18	6 1/2	5 3/8 x 6	8 1/2

CLEAR LENS

No.	Without Batteries Each	With Batteries Each	Bulbs Only Each
1	\$15.00	\$18.50	\$.50
2	26.00	29.50	.50

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

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

For galvanized anchor light see Fig. 470.

Battery Marker Light COPPER CASE—WATERTIGHT



Fig. 295

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

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

Without Battery Each	With Battery Each	Height Overall Inches	Diameter at Base Inches
\$9.00	\$9.70	9	4 3/8

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

30 Day Anchor Light ELECTRIC—DRY BATTERY GALVANIZED AND POLISHED COPPER

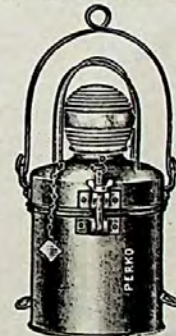


Fig. 35

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

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

Galv. Each	Pol. Copper Each	Bulb Only Each	Battery Only Each	Extreme Height Inches	Extreme Diam. Inches	Diam. Globe Inches	Wt. Lbs.
\$11.00	\$14.00	\$.50	\$1.50	11	5 3/4	3	3

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

Royal Combination Lights

HEAVY GALVANIZED IRON AND BRASS
ELECTRIC ONLY

FOR 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.
3 3/4	4 1/4	3 3/8 x 3 3/8	1 1/4
Galvanized Each		Polished Brass Each	Chromium Plated Each
\$3.50		\$4.00	\$5.00

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	3 3/8 x 3 3/8	1 1/2
Class 2	5	4 1/4 x 4 1/4	2
Class 3	6	5 1/4 x 5 5/8	3
Galv. Per Pair		Pol. Brass Per Pair	Chrom. Plated Per Pair
Class 1 \$4.50		\$6.50	\$ 8.50
Class 2 4.75		6.75	8.75
Class 3 6.00		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	3 3/8 x 5 1/8	1
Class 2	5	4 1/4 x 6 1/2	1 1/2
Class 3	6	5 1/4 x 7 3/4	2
Galv. Each		Pol. Brass Each	Chrom. Plated Each
Class 1 \$2.25		\$3.25	\$4.25
Class 2 2.40		3.40	4.40
Class 3 3.00		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 Each Lbs.
Class 1	4 1/2	3 3/8 x 3 3/8	1 1/4
Class 2 or 3	5 1/2	4 1/4 x 4 1/4	2
Galv. Each		Pol. Brass Each	Chrom. Plated Each
Class 1 \$2.50		\$3.50	\$4.50
Class 2 or 3 3.50		4.50	5.50

Battery Running Lights

WITH FRONT DOORS
GALVANIZED AND BRASS

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

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

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

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

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

Side Lights

FOR CLASS 2 AND 3 BOATS

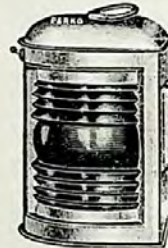


Fig. 998

Class	Height Inches	Size Base Inches	Size Lens Inches	Weight Per Pair With Batteries Pounds
2	7 1/4	5 1/8 x 5 1/8	4 1/4 x 4 3/4	8
3	8 1/2	5 3/8 x 5 3/8	5 1/4 x 5 3/8	10
Galvanized Per Pair		Polished Brass Per Pair	Chromium Plated Per Pair	Bulbs Only Each
Class 2 \$10.50		\$13.00	\$16.00	\$.50
Class 3 12.50		16.50	19.50	.50
				Batteries Only Each
				\$.80
				.80

Bow Lights

FOR CLASS 2 AND 3 BOATS



Fig. 999

Class	Height Inches	Size Base Inches	Size Lens Inches	Weight Each With Battery Pounds
2	7 1/4	5 x 5 1/2	4 1/4 x 6 1/2	4
3	8 1/2	5 1/2 x 6 1/8	5 1/4 x 7 3/4	5
Galvanized Each		Polished Brass Each	Chromium Plated Each	Bulbs Only Each
Class 2 \$5.25		\$6.50	\$8.00	\$.50
Class 3 6.25		8.25	9.75	.50
				Batteries Only Each
				\$.80
				.80

NEW IMPROVED BATTERY LIGHTS

WITH IMPROVED TOGGLE SWITCH

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

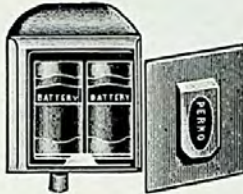
The interior of the light is arranged to receive two ordinary flashlight type dry cells, no wiring or fuss of any kind necessary.

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

Combination Lights
WITH BACK BRACKET



Fig. 1010



Back view with
Door removed

	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches	Width Inches	Size Lens Inches
	\$5.25	\$6.00	\$7.00	4 1/8	4 1/2	3 3/8 x 3 3/8

Combination Lights
WITH DECK BRACKET



Fig. 15

	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches
	\$5.75	\$6.50	\$7.50	5 1/2

Side Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1011



Back view with
Door removed

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Height Inches	Size Lens Inches
1	\$9.00	\$10.50	\$12.50	4	3 3/8 x 3 3/8
2	9.50	11.00	13.00	5	4 1/4 x 4 3/4

Stern Lights



Fig. 76

Class	Polished Brass Each	Chromium Plated Each	Height Inches	Size Lens Inches	Weight Lbs.
1	\$5.00	\$6.25	6	3 3/8 x 3 1/2	2
2	6.50	8.00	6 3/4	4 1/4 x 4	2 3/4

Bow Lights

FOR CLASS 1 AND 2 BOATS



Fig. 1012



Back view with
Door removed

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each	Height Inches	Size Lens Inches
1	\$4.25	\$5.25	\$6.25	4	3 3/8 x 5 1/8
2	4.75	5.50	6.50	5	4 1/4 x 6 1/2

Sail Boat Side Lights

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

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

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



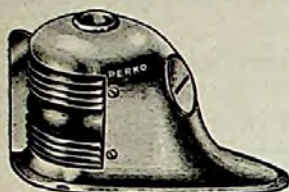
Fig. 845

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

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

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

New Streamline Pattern
WITH REBULBING FEATURE
HEAVY GAUGE STAMPED BRASS



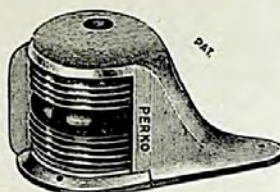
Rear view showing method of changing bulb

Fig. 1140

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

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Weight Pounds
3 1/4	3 3/4 x 6 1/4	2 1/8 x 3	3/4	1
Polished Brass Each		Nickel Plated Each		Chromium Plated Each
\$3.25		\$3.50		\$3.75

Streamline Pattern
WITH REBULBING FEATURE
CAST BRONZE



Rear view showing method of changing bulb

Fig. 512

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

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

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inch	Weight Lbs.
3 1/8	3 1/2 x 5 1/4	2 1/2 x 3	3/4	1 1/4
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each
\$6.00		\$6.50		\$7.00

Wrought Brass Type
FOR PERMANENT MOUNTING



Fig. 485

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

Height Overall Inches	Diam. Body Inches	Diam. Base Inches	Size Lens Inches	Weight Lbs.
4 1/2	2 1/2	2 1/2	2 1/2 x 3	3/4
Polished Brass Each		Nickel Plated Each		Chromium Plated Each
\$2.75		\$3.00		\$3.25

FOR TEMPORARY MOUNTING
WITH REMOVABLE BRACKET



Fig. 486

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

Height Inches	Diam. Inches	Lens Inches	Weight Lbs.
4	2 1/2	2 1/2 x 3	1
Polished Brass Each		Nickel Plated Each	Chromium Plated Each
\$3.00		\$3.25	\$3.50

Without Rebulbing Feature Fig. 536

5.50	6.00	6.50
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Streamline Pattern

WITH CLEAT AND REBULBING FEATURE
CAST BRONZE



Rear view showing method of changing bulb

Fig. 535

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

Height Inches	Base Inches	Lens Inches	Flagpole Socket Inches	Length Cleat Inches	Wt. Lbs.
3 1/8	3 3/8 x 5 3/4	2 1/2 x 3	3/4	2 1/2	2
Polished Bronze Each		Nickel Plated Each		Chromium Plated Each	
\$6.00		\$6.50		\$7.00	

COMBINATION LIGHTS—ELECTRIC

Streamline Pattern

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

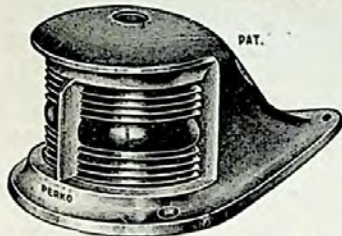


Fig. 598



Rear view showing method of changing bulb

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

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

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$ 7.00	\$ 7.50	\$ 8.00
2	10.00	10.50	11.25

Streamline Pattern

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

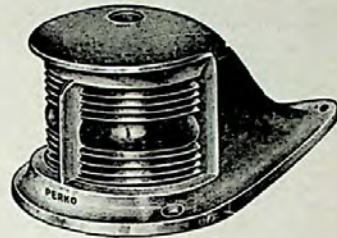


Fig. 606

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

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$6.50	\$7.00	\$7.50

New "Sport Kit" Lights

FLASHLIGHT BATTERY TYPE
ALL BRASS—NICKEL PLATED

New Streamline Pattern

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

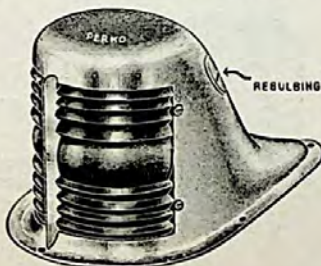


Fig. 1141

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

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

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

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$5.50	\$6.00	\$6.50

With Flag Pole Socket add \$.50 each.

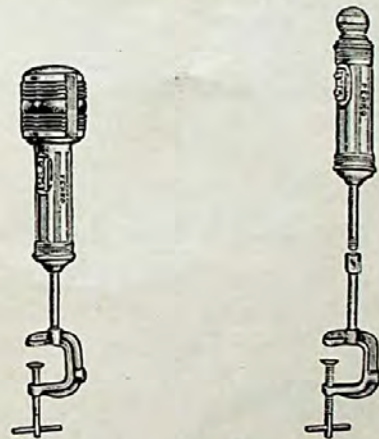


Fig. 1142

Fig. 1143

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

Two regular flashlight batteries are used in each light.

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

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

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

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

Fig. 1142 Each	Fig. 1143 Each	Extra Bulbs Each
\$4.50	\$3.50	\$.15

Price includes one bulb in each light, no batteries.

Streamline Side Lights

FOR CLASSES 1, 2 AND 3 BOATS
CAST BRONZE

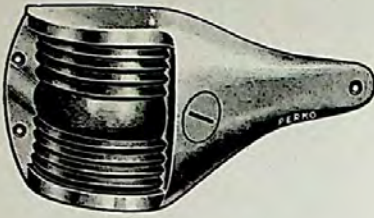


Fig. 563

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

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

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

No.	Class	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
1	1	\$11.00	\$12.00	\$13.00
2	2	13.00	14.00	15.00
2-A	2	13.50	14.50	15.50
3	3	18.00	20.00	20.50

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

Streamline Bow Lights

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

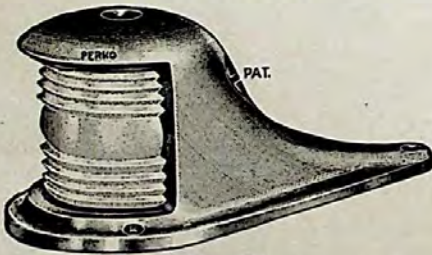


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

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

Class	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$10.00	\$11.00	\$12.25
2	12.00	13.00	14.50
3	17.00	18.50	20.00

New Streamline Side Lights

With Rebulbing Feature

HEAVY GAUGE STAMPED BRASS
CLASS 2—ELECTRIC

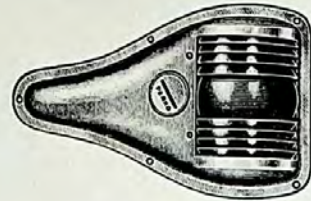


Fig. 1138

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

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

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

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

Polished Brass Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
\$9.25	\$10.25	\$11.25

New Streamline Bow Lights

WITH REBULBING FEATURE
HEAVY GAUGE STAMPED BRASS
CLASS 2—ELECTRIC



Fig. 1139

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

Furnished with clear fresnel lens and double contact electric socket.

A flag pole socket in top if required.

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

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$5.50	\$6.00	\$6.50

With Flag Pole Socket add \$.50 each.

De-Lite Side Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE

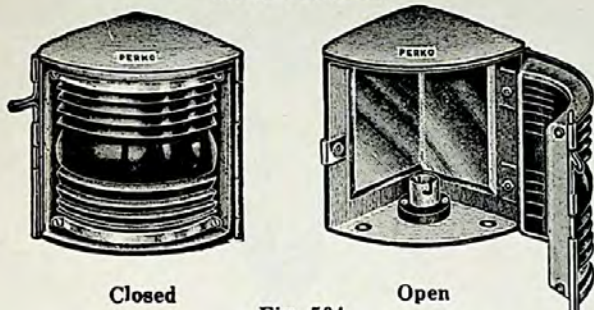


Fig. 504

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

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

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

Class	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
2	\$11.00	\$12.00	\$13.00
3	14.00	15.00	16.50

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

Double contact sockets furnished unless otherwise specified

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

De-Lite Bow Lights

WITH FRONT DOORS
FOR CLASSES 2 AND 3 BOATS
CAST BRONZE



Fig. 505

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

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

Class	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
2	\$5.50	\$6.00	\$6.50
3	7.00	7.50	8.25

With standard screw sockets—add \$.25 each

Double contact sockets furnished unless otherwise specified

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

New Spreader Light

ALL BRASS—CHROMIUM PLATED



Fig. 1144

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

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

Each	Diam. Inches	Length Inches	Bracket Inches	Weight Pounds
\$5.00	5 1/4	5	4 1/4 x 1	1 1/4

Price does not include bulb.

Combination Light and Bitt

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



Fig. 502

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

Height Inches	Diam. Base Inches	Size Lens Inches	Flagpole Socket Inches	Weight Lbs.
4 3/8	6 1/2	3 3/8 x 3 3/8	1 1/4	5 1/2

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$11.00	\$12.00	\$13.00

Bow Light and Bitt

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



Fig. 503

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

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

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$11.00	\$12.00	\$13.00

Improved Pole Light Assembly

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



Fig. 531

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

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

Length Overall Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Base of Pole Inches
20	\$6.00	\$ 6.50	\$ 7.00	1¼
24	6.00	6.50	7.00	1¼
30	6.00	6.50	7.00	1¼
36	6.25	6.75	7.25	1¼
42	6.75	7.25	7.75	1¼
48	7.25	7.75	8.25	1¼
60	8.25	8.75	9.25	1¼
72	9.75	10.25	10.75	1¼

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

Colored globes (red, green or blue) desired on any of the above pole lights, add \$.50 to above prices.
 2½ inch globe furnished unless otherwise specified.

New Pole Light Assembly

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



Fig. 919

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

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

A half turn of the pole will connect or disconnect.

Diameter base of pole 1¼ inches.

Length Overall Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$ 6.25	\$ 6.75	\$ 7.25
24	6.25	6.75	7.25
30	6.25	6.75	7.25
36	6.50	7.00	7.50
42	7.00	7.50	8.00
48	7.50	8.00	8.50
60	8.50	9.00	9.50
72	10.00	10.50	11.00

New Junior Pole Light Assembly

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



Fig. 1145

Wired through hollow center of pole. Globe will take a 6 C. P. bulb, double contact. Base of pole is 1 inch. This type is ideal for outboard motor boats and small runabouts.

Length Pole Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Weight Pounds
20	\$5.25	\$5.75	\$6.25	1
24	5.50	6.00	6.50	1 1/8
30	5.75	6.25	6.75	1 1/4

Complete except socket—deduct \$.75 each.

Junior Pole Light Assembly

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



Fig. 846

Length Pole Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Pole Inches
20	\$4.50	\$5.00	\$5.50	3/4
24	4.75	5.25	5.75	3/4
30	5.00	5.50	6.00	3/4

Complete except socket, deduct \$.50 each.

New Junior Pole Light Assembly

WITH TRANSOM SOCKET
1½ INCH FRESNEL BALL GLOBE



Fig. 1146

Electric connections in pole and socket.

Hollow brass pole, cast bronze socket.

Diameter of pole ¾ inch.

Length Pole Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$4.75	\$5.25	\$5.75
24	5.00	5.50	6.00
30	5.25	5.75	6.25

Complete except socket, deduct \$.75 each.

Junior Flag Pole Lights

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



Fig. 603

Wires concealed in pole and passing through socket under deck.

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

Length Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$3.25	\$3.75	\$4.25
24	3.50	4.00	4.50
30	3.75	4.25	4.75

Flag Pole Light

WITH 2½ INCH GLOBE—HOLLOW BRASS POLE
CAST BRONZE SOCKET



Fig. 538

Wires concealed in pole and passing through socket under deck.

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

Length Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$3.50	\$4.00	\$4.50
24	3.75	4.25	4.75
30	4.00	4.50	5.00

Flag Pole Lights

ELECTRIC ONLY—HOLLOW MAHOGANY POLE

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



Fig. 492

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

2½ inch globes furnished unless 3 inch is specified.

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

Length Overall Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$3.50	\$3.90	\$4.25
24	3.50	3.90	4.25
30	3.50	3.90	4.25
36	3.75	4.15	4.50
42	4.25	4.65	5.00
48	4.75	5.15	5.50
60	5.75	6.15	6.50
72	7.25	7.65	8.00

Battery Pole Lights

BRASS BATTERY CASE—FRESNEL BALL GLOBE—MAHOGANY FINISH POLE

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

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

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



Fig. 710

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

Mahogany Flag Poles

Turned from solid seasoned mahogany. Natural finish—varnished.



Fig. 496

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

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

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

Junior Flag Pole Lights

ELECTRIC ONLY—MAHOGANY POLE

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

1½ INCH FRESNEL BALL GLOBE

DOUBLE CONTACT ELECTRIC SOCKET



Fig. 602

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

Height Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
20	\$3.00	\$3.40	\$3.75
24	3.25	3.65	4.00
30	3.50	3.90	4.25

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

Maple Flag Poles

POLISHED



Fig. 713

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

Pole Lights

WROUGHT BRASS

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



Fig. 482

WITH 2½ INCH GLOBE
FOR SOLID POLE
CABLE THROUGH SIDE

Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
5	¾	12
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.40	\$2.65	\$3.00



Fig. 491

WITH 2½ INCH GLOBE
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
5	¾	12
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.40	\$2.65	\$3.00



Fig. 601

JUNIOR PATTERN
FOR SOLID POLE
CABLE THROUGH SIDE

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

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
1½	4¼	¾	7
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.20	\$2.45	\$2.75	



Fig. 600

JUNIOR PATTERN
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

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

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Oz.
1½	4¼	¾	7
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.20	\$2.45	\$2.75	

Figs. 600 and 601 Pole Lights can be furnished with ¼ 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.
5¾	¾	1
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.40	\$2.65	\$3.00



Fig. 498

HEAVY PATTERN
FOR SOLID POLE
CABLE THROUGH SIDE
WITH 2½ OR 3 INCH GLOBE

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2½ or 3	5	¾	1
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$3.75	\$4.00	\$4.50	



Fig. 483

WITH 3 INCH GLOBE
FOR HOLLOW POLE
CABLE THROUGH BOTTOM

Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
5¾	¾	1
Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$2.40	\$2.65	\$3.00



Fig. 484

HEAVY PATTERN
FOR HOLLOW POLE
CABLE THROUGH BOTTOM
WITH 2½ OR 3 INCH GLOBE

Outside Diam. Globe Inches	Height Overall Inches	Inside Diam. Neck Inches	Weight Lbs.
2½ or 3	5	¾	1
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$3.75	\$4.00	\$4.50	

Stern Lights

BRASS

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



Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
7	2¾	2½ or 3	12
Polished Brass Each		Nickel Plated Each	Chromium Plated Each
\$3.00		\$3.25	\$4.00

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

Fig. 422

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.



Height Overall Inches	Diam. Base Inches	Diam. Globe Inches	Weight Oz.
5½	1¾	2½ or 3	18
Polished Bronze Each		Nickel Plated Each	Chromium Plated Each
\$4.25		\$4.50	\$5.25

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

2½ inch globes furnished unless 3 inch are requested.

Fig. 506

Stern Lights

CAST BRONZE



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

Fig. 375

Height Inches	Diam. Base Inches	Diam. Body Inches	Size Lens Inches	Weight Lbs.
7	3½	3½	3¾ x 3¾	2¾
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

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

Fig. 521

Height Inches	Diam. Body Inches	Size Lens Inches	Inside 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		\$7.50

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

Furnished with standard screw sockets at above prices if desired.

Stern Lights

WITH THREADED BASE GLOBE

CAST BRONZE

Equipped with clear fresnel lens and standard screw electric sockets.



Height Overall Inches	Diam. Base Inches	Size of Globe Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
8¾	3½	5x3½	\$4.50	\$5.00	\$5.50	\$6.00

Fig. 112

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

Furnished with double contact socket if specified at same prices.

New Stern Light

WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height desired.



Overall Height Inches	Diam. Base Inches	Diam. Neck Inches	Size Lens Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
10	3½	¾	3 1/4 x 3 1/4	\$3.80	\$4.30	\$4.80

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

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

Fig. 1119

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 1/2 x 1 1/2	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.

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
\$2.75	\$3.25	6	2 3/4	5 1/2 x 2 3/4	1 1/8

With Red, Green or Blue Globe add \$.50 Each
 Clear Globes only90 Each
 Extra Red, Green or Blue Globes only 2.20 Each
 Special Porcelain Electric Sockets only50 Each

Mast Light

MEDIUM SCREW SOCKET
CAST BRONZE—THREADED GLOBE



Fig. 309

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

Height Globe Overall Inches	Size Globe Inches	Opening In globe Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
6 1/2	5 x 3 1/2	2 3/4	\$4.25	\$4.75	\$5.25	\$5.75

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

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
\$4.50	\$5.50	\$6.00	\$6.50

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

Mast Light

CAST BRONZE



Fig. 103

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

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each
\$4.00	\$5.00	\$6.00

With colored globe, add \$1.00 each.

Mast Light

CAST BRONZE—THREADED GLOBE
DOUBLE CONTACT SOCKET



Fig. 362

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

Height Overall Inches	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
\$2.75	\$3.25	\$3.75	\$4.00

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

Mast Lights

WITH THREADED BASE GLOBE

CAST BRONZE



Fig. 113

Equipped with clear fresnel lens and standard screw electric socket.

Height Overall Inches	For Diam. Mast Inches	Size of Globe Inches	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
9	2 1/8	5 x 3 1/2	\$5.00	\$6.00	\$6.50	\$7.00

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

Furnished with double contact socket if specified at same price.

LIGHTS FOR VESSELS OVER 65 FEET LONG
TURRET TOP STYLE

Made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after they are formed. All have fresnel lenses and are furnished complete with burner and wick. Brass or copper lamps are highly polished. Solid brass swivel oil or electric founts for these lights are shown on page 43, Fig. Nos. 282, 288, 289.

Side Lights

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



Fig. 21

No.	Size of Lens		Height Less Ring Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches			
8	5½	5⅞	13	6½x6½	65 to 75
9	5¾	8½	14	6½x6½	65 to 90
10	6¾	8¾	15	7½x7½	91 to 149
11	7½	11½	18¾	9½x9½	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Per Pair	Oil and 2 Light Electric Add Per Pair	Mogul 3 Wire Socket Add Per Pair
	Galvanized Per Pair	Polished Brass Per Pair	Polished Copper Per Pair			
8	\$24.00	\$34.00	\$44.00	\$3.00		\$6.50
9	26.00	36.00	46.00	3.00	On Application	6.50
10	28.00	38.00	48.00	3.00	On Application	6.50
11	38.00	50.00	60.00	4.00	\$5.00	6.50

Masthead, Range and Towing Lights

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



Fig. 982

No.	Size of Lens		Height Less Ring Inches	Width Centers of Lugs Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
1	5¾	11½	14	8¾	7x7	65 to 90
2	6¾	11½	15	8¾	7x7	91 to 149
3	7	17	18¾	10½	9x9½	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
1	\$19.00	\$23.00	\$28.50	\$1.50	On Application	\$3.25
2	20.00	24.00	29.50	1.50	On Application	3.25
3	25.00	30.00	36.00	2.00	\$2.50	3.25

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

For 180 Degree Bow Lights, See Page 31.

Stern, Towing and Overtaken Lights

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



Fig. 985

No.	Size of Lens		Height Less Ring Inches	Width Centers of Lugs Inches	Size Base Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
4	5¾	7	14	8¾	7x7	65 to 90
5	6¾	7	15	8¾	7x7	91 to 149
6	7¾	9½	18¾	10½	9x9½	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
4	\$19.00	\$23.00	\$28.50	\$1.50	On Application	\$3.25
5	20.00	24.00	29.50	1.50	On Application	3.25
6	25.00	30.00	36.00	2.00	\$2.50	3.25

WITH 45 DEGREE RED LENS FOR SELF PROPELLED SUCTION DREDGES
ADD \$5.00 EACH.

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

LIGHTS FOR VESSELS OVER 65 FEET LONG
TURRET TOP STYLE



Fig. 23

Anchor Lights

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

No.	Size of Lens		Height Less Ring Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
22	5 3/8	5 3/8	14 1/2	7 1/2	65 to 90
22 1/2	6 5/8	5 3/8	16	7 1/2	91 to 149
23	7	7 1/2	18 3/4	9 1/2	150 to 450

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
22	\$14.00	\$21.00	\$25.00	\$1.50	On Application	\$3.25
22 1/2	16.00	23.00	27.00	1.50	On Application	3.25
23	20.00	29.00	34.00	2.00	\$2.50	3.25

No.	WITH RED, GREEN OR BLUE LENSES			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
22	\$17.00	\$24.00	\$28.00	\$1.50	On Application	\$3.25
22 1/2	19.50	26.50	30.50	1.50	On Application	3.25
23	25.00	34.00	39.00	2.00	\$2.50	3.25

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



Fig. 129

Not Under Command Lights

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

No.	Size of Lens		Height Less Ring Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
22	5 3/8	5 3/8	14 1/2	7 1/2	65 to 90
22 1/2	6 3/8	5 3/8	16	7 1/2	91 to 149
23	7	7 1/2	18 3/4	9 1/2	150 and up

No.	Oil or 1 Light Electric Only			Oil and 1 Light Electric Add Each	Oil and 2 Light Electric Add Each	Mogul 3 Wire Socket Add Each
	Galvanized Each	Polished Brass Each	Polished Copper Each			
22	\$17.00	\$24.00	\$28.00	\$1.50	On Application	\$3.25
22 1/2	19.50	26.50	30.50	1.50	On Application	3.25
23	25.00	34.00	39.00	2.00	\$2.50	3.25

For Old Style 180 Degree Bow Lights, See Page 31.

New Regulation Mogul 3 Wire Sockets
and Double Filament Bulbs

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

Base has watertight stuffing gland in bottom for wire.



Fig. 1082

Complete except bulb	Each	\$3.25
Complete with bulb	Each	8.00
Bulb Only, 50-50 watt	Each	4.80
Bulb Only, 100-100 watt	Each	5.00

LIGHTS FOR VESSELS OVER 65 FEET LONG
AMERICAN IMPROVED STYLE

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

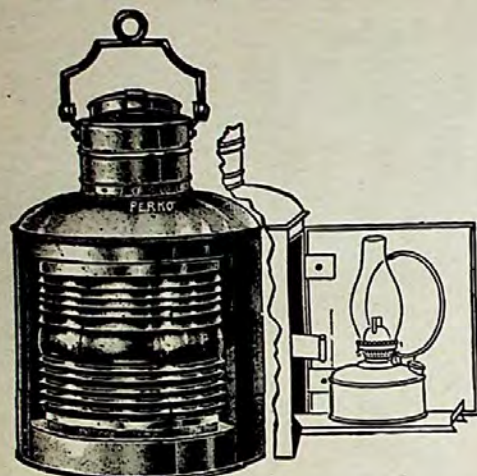


Fig. 24

Side Lights

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

No.	Size of Lens		Height Less Handle Inches	Width Inches	For Size Vessel Feet
	Height Inches	Cir. Inches			
62	5¾	8½	13¾	6½x6¾	65 to 90
63	6¾	8¾	14¾	7¼x7¼	91 to 149
64	7½	11½	18	9½x9½	150 to 450

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized	Polished Brass	Polished Copper
	Per Pair	Per Pair	Per Pair
62	\$40.00	\$50.00	\$60.00
63	42.00	52.00	62.00
64	50.00	66.00	76.00

For oil and one light electric equipment, add \$5.00 per pair.
For oil and two light electric equipment, add \$6.00 per pair.
For mogul 3 wire socket, add \$12.00 per pair.

Masthead, Range and Towing Lights

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

No.	Size of Lens		Height Less Handle Inches	Size Base Inches	Width Centers of Lugs Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
1	5¾	11½	13¾	7 x 7¼	8½	65 to 90
2	6¾	11½	14¾	7½x7¼	8¾	91 to 149
3	7	17	18	9½x9¼	10¾	150 to 450

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized	Polished	Polished
	Each	Brass Each	Copper Each
1	\$25.50	\$29.50	\$35.00
2	26.50	30.50	36.00
3	32.00	36.00	42.00

With red, green or blue lens, add \$5.00 each.
For oil and one light electric equipment, add \$2.50 each.
For oil and two light electric equipment, add \$3.00 each.
For mogul 3 wire socket, add \$6.00 each.

Stern, Towing and Overtaken Lights

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

No.	Size of Lens		Height Less Handle Inches	Size Base Inches	Width Centers of Lugs Inches	For Size Vessel Feet
	Height Inches	Circum. Inches				
4	5¾	7	13¾	7 x 7¼	8½	65 to 90
5	6¾	7	14¾	7½x7¼	8¾	91 to 149
6	7¾	9½	18	9½x9¼	10¾	150 to 450

FOR OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized	Polished	Polished
	Each	Brass Each	Copper Each
4	\$25.50	\$29.50	\$35.00
5	26.50	30.50	36.00
6	32.00	36.00	42.00

With 45 degree red lens for self propelled suction dredges, add \$5.00 each.

For oil and one light electric equipment, add \$2.50 each.
For oil and two light electric equipment, add \$3.00 each.
For mogul 3 wire socket, add \$6.00 each.

For 180 Degree Bow Lights, See Page 31.

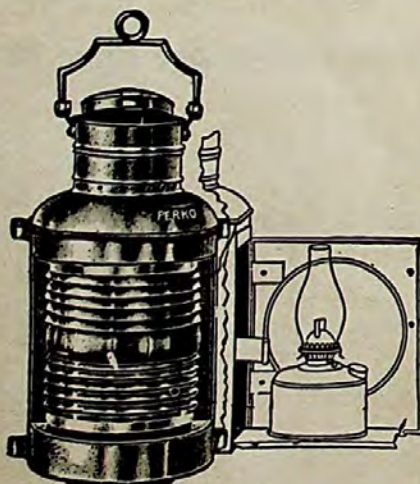


Fig. 984

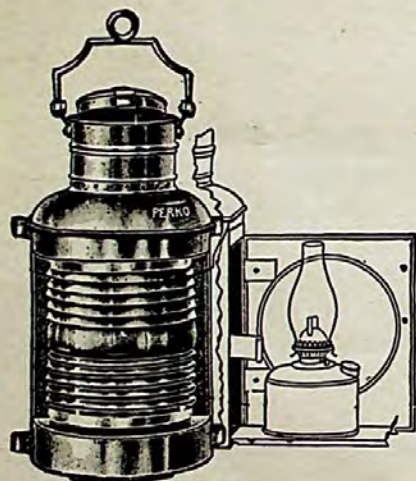


Fig. 981

LIGHTS FOR VESSELS OVER 65 FEET LONG
AMERICAN IMPROVED STYLE

Anchor Lights



Fig. 26

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

No.	Size of Lens		Height Less Handle Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
84	5 3/8	5 3/8	14	7 3/8	65 to 90
85	6 3/8	5 3/8	15 1/2	7 3/8	91 to 149
86	7	7 1/2	18	9 1/2	150 to 450

OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized	Polished	Polished
	Each	Brass	Copper
84	\$16.00	\$23.00	\$27.00
85	18.00	25.00	29.00
86	24.00	33.00	38.00

WITH RED, GREEN OR BLUE LENSES

No.	Galvanized	Polished	Polished
	Each	Brass	Copper
84	\$19.00	\$26.00	\$30.00
85	21.50	28.50	32.50
86	29.00	38.00	43.00

No. 84 and 85—Oil and one light electric equipment, add \$1.50 each.
No. 86—Oil and one light electric equipment, add \$2.00 each; oil and two light electric equipment, add \$2.50 each.
For mogul 3 wire socket, add \$3.25 each.

Not Under Command Lights



Fig. 29

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

No.	Size of Lens		Height Less Handle Inches	Diam. of Base Inches	For Size Vessel Feet
	Height Inches	Diam. Inches			
84	5 3/8	5 3/8	14	7 3/8	65 to 90
85	6 3/8	5 3/8	15 1/2	7 3/8	91 to 149
86	7	7 1/2	18	9 1/2	150 and up

OIL OR 1 LIGHT ELECTRIC ONLY

No.	Galvanized	Polished	Polished
	Each	Brass	Copper
84	\$19.00	\$26.00	\$30.00
85	21.50	28.50	32.50
86	29.00	38.00	43.00

No. 84 and 85—Oil and one light electric equipment, add \$1.50 each.
No. 86—Oil and one light electric equipment, add \$2.00 each; oil and two light electric equipment, add \$2.50 each.
For mogul 3 wire socket, add \$3.25 each.

For Old Style 180 Degree Bow Lights, See Page 31.

Mogul 3 Wire Socket and Bulb

FOR SIDE, MASTHEAD AND STERN LIGHTS

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



Fig. 1081

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

FOR ANCHOR AND NOT UNDER COMMAND LIGHTS



Fig. 1082

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

	Each
Complete except bulb	\$3.25
Complete with bulb	8.00
Bulb only, 50-50 watt	4.80
Bulb only, 100-100 watt	5.00

For further information on Mogul 3 wire sockets see Page 25

LIGHTS FOR VESSELS OVER 65 FEET LONG

WATERPROOF—ELECTRIC ONLY—NEW REGULATIONS

WITH MOGUL 3 WIRE SOCKET AND DOUBLE FILAMENT BULB

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

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

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

Top opening in all lights below is $4\frac{3}{4}$ inches.

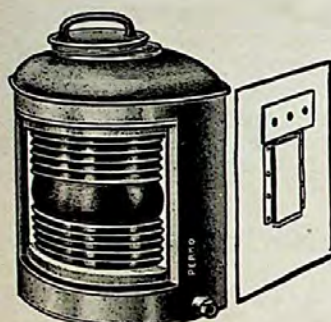


Fig. 1150

Side Lights

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

No.	Polished Brass Per Pair	Polished Copper Per Pair	Size of Lens Inches	Height Less Handle Inches	Size Base Inches	For Size Vessel Feet
1	\$67.00	\$75.00	$6\frac{3}{4} \times 8\frac{3}{4}$	11	$7\frac{1}{4} \times 7\frac{1}{4}$	65 to 149
2	77.00	85.00	$7\frac{1}{2} \times 11\frac{1}{2}$	$13\frac{1}{2}$	$9\frac{1}{2} \times 9\frac{1}{2}$	150 and up

With one light electric medium screw socket, deduct \$3.00 per pair.

SIDE LIGHTS FOR U. S. MARITIME COMMISSION VESSELS C-1, 2, 3
Waterproof Electric..... See Blue Print 1200
Oil Burning..... See Blue Print 1204

Masthead, Range and Towing Lights

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

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Size Base Inches	Center to Center of Lugs Inches	For Size Vessel Feet
1	\$40.00	\$44.00	$6\frac{3}{8} \times 11\frac{1}{2}$	11	$7\frac{1}{8} \times 7\frac{3}{4}$	$8\frac{3}{8}$	65 to 149
2	45.00	49.00	7×17	$13\frac{1}{2}$	9×10	$10\frac{7}{8}$	150 and up

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

With one light electric medium screw socket, deduct \$1.50 each.

MASTHEAD & STERN LIGHTS FOR U. S. MARITIME COMMISSION VESSELS C-1, 2, 3
Waterproof Electric..... See Blue Prints 1201 and 1202
Oil Burning..... See Blue Prints 1205 and 1206



Fig. 1151

Stern, Towing and Overtaken Lights

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

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Size Base Inches	Center to Center of Lugs Inches	For Size Vessel Feet
1	\$40.00	\$44.00	$6\frac{3}{8} \times 7$	11	$7 \times 7\frac{1}{2}$	$8\frac{3}{8}$	65 to 149
2	45.00	49.00	$7\frac{3}{8} \times 9\frac{1}{2}$	$13\frac{1}{2}$	9×10	$11\frac{1}{8}$	150 and up

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

With 45 degree red lens for self propelled suction dredges, add \$5.00 each.

With one light electric medium screw socket, deduct \$1.50 each.



Fig. 1152

LIGHTS FOR VESSELS OVER 65 FEET LONG

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



Fig. 1153

Anchor Lights

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

No.	Polished Brass Each	Polished Copper Each	Colored Lens Add Each	Size of Lens Inches	Height Less Handle Inches	Diam. Base Inches	For Size Vessel Feet
1	\$35.00	\$39.00	\$3.50	6 5/8 x 5 3/8	12 1/2	7 3/8	65 to 149
2	40.00	44.00	5.00	7 x 7 1/2	14 1/4	9 1/2	150 and up

With one light electric medium screw socket, deduct \$1.50 each.
Colored lenses are red, green or blue.

ANCHOR & N. U. C. LIGHTS FOR U. S. MARITIME COMMISSION VESSELS C-1, 2, 3
Waterproof Electric.....See Blue Prints 1203 and 1209
Oil Burning.....See Blue Prints 1207 and 1208



Fig. 1154

Not Under Command Lights

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

No.	Polished Brass Each	Polished Copper Each	Size of Lens Inches	Height Less Handle Inches	Diam. Base Inches	For Size Vessel Feet
1	\$38.50	\$42.50	6 5/8 x 5 3/8	12 1/2	7 3/8	65 to 149
2	45.00	49.00	7 x 7 1/2	14 1/4	9 1/2	150 and up

With one light electric medium screw socket, deduct \$1.50 each.

Mast or Blinker Signaling Lights

WITH MEDIUM SCREW SOCKETS
WATERTIGHT—CAST BRONZE—BLACK FINISH

With hinged top for quick replacement of bulb. Bottom is hexagon shape threaded for pipe.

- No. 1. For vessels 150 feet in length or under.
- No. 2. For vessels over 150 feet but not over 450 feet in length.
- No. 3. For vessels over 450 feet in length.



Fig. 403

No.	Clear Each	Colored Each	Height Inches	Width Inches	Size Lens Inches	Threaded for Pipe Inches
1	\$10.00	\$11.00	6 3/4	4 3/4	3 3/8 x 3 1/2	1/2
2	12.50	14.00	8	5 7/8	4 1/4 x 4 1/4	3/4
3	18.00	21.00	9 1/2	7 1/4	5 3/8 x 5 3/8	1
4	20.00	23.00	9 1/2	7 1/4	5 3/8 x 5 3/8	1

No. 4 has 3 wire mogul socket for double filament bulb. Colored lenses are red, green or blue.

Double Filament Bulb and Mogul Socket

120 VOLT MOGUL BASE BULB—PORCELAIN SOCKET
FOR 3 WIRE SYSTEMS

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



Fig. 533

Watts	Bulbs Each	Sockets Each	Bulb Height Overall Inches	Bulb Diam. Inches
50-50	\$4.80	\$1.50	5	3 1/8
100-100	5.00	1.50	5	3 1/8

LIGHTS FOR VESSELS OVER 65 FEET LONG

FLAT TOP STYLE—ELECTRIC ONLY—NON-WATERPROOF

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

Side Lights

112½ DEGREES—10 POINTS OF COMPASS



With channel socket and bracket for mounting.

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

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

Fig. 30

No.	Galvanized Per Pair	Polished Brass Per Pair	Polished Copper Per Pair	Mogul 3 Wire Socket Add Per Pair
109	\$26.00	\$36.00	\$46.00	\$6.50
110	28.00	38.00	48.00	6.50
111	38.00	50.00	60.00	6.50

Anchor Lights

360 DEGREES—CLEAR LENS



With four lashing eyes and wire guards around lens.

No.	Size of Lens Inches	Height Less Handle Inches
122	5 3/8 x 5 3/8	11
122 1/2	6 3/8 x 5 3/8	12
123	7 x 7 1/2	14 1/2

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

Fig. 32

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Colored Lens Add Each	Mogul 3 Wire Socket Add Each
122	\$14.00	\$21.00	\$25.00	\$3.00	\$3.25
122 1/2	16.00	23.00	27.00	3.50	3.25
123	20.00	29.00	34.00	5.00	3.25

Masthead, Range and Towing Lights

225 DEGREES—20 POINTS OF COMPASS



With four cast metal lugs for mounting.

CLEAR LENS

No.	Size of Lens Inches	Width Centers of Lugs Inches	Height Less Handle Inches
1	5 3/8 x 11 1/2	8 3/8	10 1/2
2	6 5/8 x 11 1/2	8 3/4	11
3	7 x 17	10 1/2	13 1/2

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

Fig. 983

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Mogul 3 Wire Socket Add Each
1	\$19.00	\$23.00	\$28.50	\$3.25
2	20.00	24.00	29.50	3.25
3	25.00	30.00	36.00	3.25

Stern, Towing and Overtaken Lights

135 DEGREES—12 POINTS OF COMPASS



With four cast metal lugs for mounting.

CLEAR LENS

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

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

Fig. 986

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Mogul 3 Wire Socket Add Each
4	\$19.00	\$23.00	\$28.50	\$3.25
5	20.00	24.00	29.50	3.25
6	25.00	30.00	36.00	3.25

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

Not Under Command Lights

360 DEGREES—RED LENS



With four lashing eyes and wire guards around lens.

No.	Size of Lens Inches	Height Less Handle Inches
122	5 3/8 x 5 3/8	11
122 1/2	6 3/8 x 5 3/8	12
123	7 x 7 1/2	14 1/2

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

Fig. 84

No.	Galvanized Each	Polished Brass Each	Polished Copper Each	Mogul 3 Wire Socket Add Each
122	\$17.00	\$24.00	\$28.00	\$3.25
122 1/2	19.50	26.50	30.50	3.25
123	25.00	34.00	39.00	3.25

Mogul 3 Wire Socket and Bulb

FOR ALL LIGHTS ON THIS PAGE



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

Complete except bulb	\$3.25
Complete with bulb	8.00
Bulb only—50-50 watt	4.80
Bulb only—100-100 watt	5.00

Fig. 1082

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

OLD STYLE 180 DEGREE BOW LIGHTS

All made of extra heavy metal. Galvanized lights are made of black steel and hot galvanized after fabrication. Brass and copper lights are highly polished. All regularly furnished with four cast metal lugs for mounting. Figs. 22 and 31 can be obtained with back T bracket if desired.

Turret Top Style



Fig. 22

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

No.	Size of Lens		Extreme Height	Height of Frame	Size Base	Weight Each	For Size Vessel
	Height Inches	Circum. Inches	Inches	Inches	Inches	Lbs.	Feet
14	5 1/2	9 1/2	16 1/2	10 1/2	7 x 7	8	65 to 90
15	6 3/8	9 1/2	17	11	7 1/2 x 7	9	91 to 149
16	7 3/8	12 1/2	21 1/4	13 3/4	9 x 9 1/2	14	150 to 450

PRICE EACH—CLEAR LENS

No.	Galvanized	Brass	Copper
14	\$13.00	\$18.00	\$23.00
15	14.00	19.00	24.00
16	19.00	25.00	30.00

WITH RED, GREEN OR BLUE LENSES

No.	Galvanized	Brass	Copper
14	\$16.00	\$21.00	\$26.00
15	17.50	22.50	27.50
16	24.00	30.00	35.00

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.
All with mogul 3 wire socket, add \$3.25 each.

American Improved Style

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

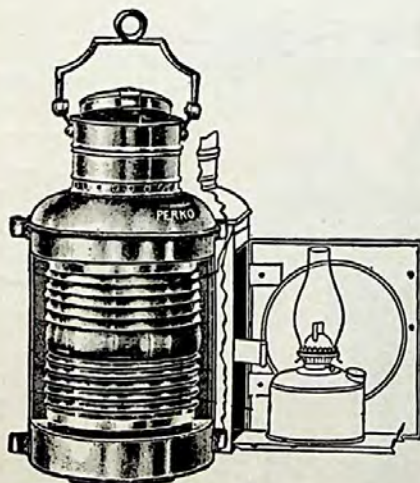


Fig. 25

No.	Size of Lens		Extreme Height	Height of Frame	Width	Weight Each	For Size Vessel
	Height Inches	Circum. Inches	Inches	Inches	Inches	Lbs.	Feet
76	5 1/2	9 1/2	14	11	7x7	10	65 to 90
77	6 3/8	9 1/2	15	11 3/4	7x7	11	91 to 149
78	7 3/8	12 1/2	18	13 1/2	9x9 1/2	17	150 to 450

PRICE EACH—CLEAR LENS

No.	Galvanized Iron	Polished Brass	Polished Copper
76	\$20.00	\$25.00	\$30.00
77	21.00	26.00	31.00
78	25.00	33.00	38.00

WITH RED, GREEN OR BLUE LENSES

No.	Galvanized	Brass	Copper
76	\$23.00	\$28.00	\$33.00
77	24.50	29.50	34.50
78	30.00	38.00	43.00

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.
With mogul 3 wire socket, add \$6.00 each.

Flat Top Style

1 LIGHT ELECTRIC ONLY



Fig. 31

No.	Size of Lens		Height less Handle	Extreme Height	Size Base	Net Weight Each	For Size Vessel
	Inches	Inches	Inches	Inches	Inches	Lbs.	Feet
114	5 1/2 x 9 1/2	11	13 1/2	7 x 7	6	65 to 90	
115	6 3/8 x 9 1/2	11 3/4	14 1/4	7 1/2 x 7	6 1/2	91 to 149	
116	7 x 12 1/2	13 1/2	16	9 x 9 1/2	10 1/2	150 to 450	

Clear Lens

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
114	\$13.00	\$18.00	\$23.00
115	14.00	19.00	24.00
116	19.00	25.00	30.00

Red, Green or Blue Lens

No.	Galvanized Each	Polished Brass Each	Polished Copper Each
114	\$16.00	\$21.00	\$26.00
115	17.50	22.50	27.50
116	24.00	30.00	35.00

No. 116 can be furnished with 2 light electric equipment, add \$.50 each.
All with mogul 3 wire socket, add \$3.25 each.

SELF CONTAINED BATTERY LIGHTS FOR OIL CARRIERS

WATERPROOF BODY—WATERPROOF SWITCH
FOR BURGESS TRI-SIX 4½ VOLT DRY BATTERIES NO. 4F3H

Side Lights

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

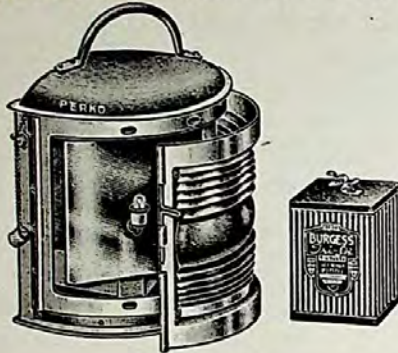


Fig. 1008

	Polished Brass	Extra Bulbs	Size Lens	Height Less Handle	Size Base
Galv. Per Pair	Per Pair	Each	Inches	Inches	Inches
\$28.00	\$38.00	\$.50	6¾x8¾	11	7½x7½

Bow Lights

180 DEGREE FRESNEL LENSES
CLEAR.

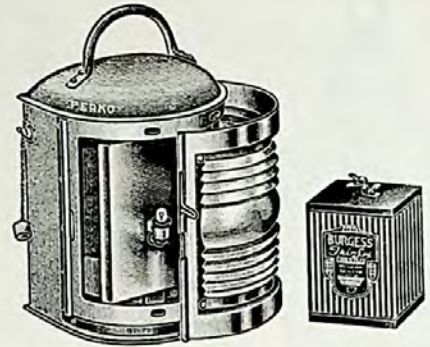


Fig. 1013

	Polished Brass	Extra Bulbs	Size Lens	Height Less Handle	Size Base
Galv. Each	Each	Each	Inches	Inches	Inches
\$14.00	\$19.00	\$.50	6¾x9½	11	8x7¼

Above prices do not include batteries. Batteries only \$1.50 each.

The battery is installed inside the light in back of the reflector illustrated. The socket and bulb are mounted on the reflector which is easily removable for replacement of batteries. The batteries are readily obtainable in most electrical supply stores.

Hinged front door permits cleaning of lens, replacement of bulb and batteries, etc., without removing light from mounting.

Loading and Anchor Lights

360 DEGREE CLEAR OR RED LENS



Fig. 470

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

Will stay lit for 25 to 30 consecutive days without attention.

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

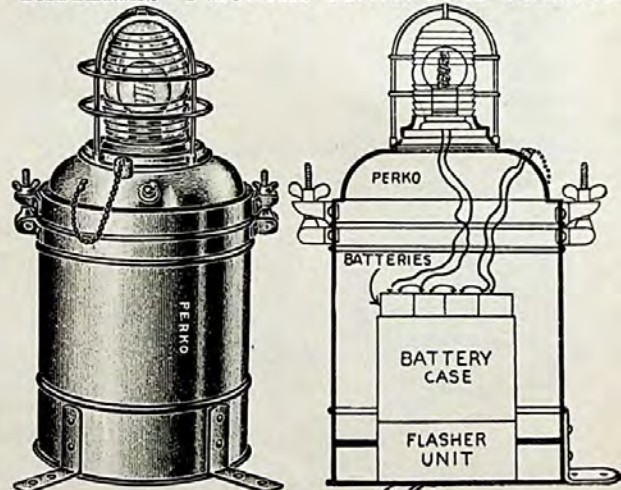
No.	Extreme Height	Diameter Base	Size of Lens	Weight
	Inches	Inches	Inches	Pounds
1	16½	6½	4¼x4¼	5½
2	18	6½	5¾x6	8½

No.	Clear Lens		Red Lens	
	Galv. Each	Polished Copper Each	Galv. Each	Polished Copper Each
1	\$12.50	\$15.00	\$14.00	\$16.50
2	23.50	26.00	26.00	28.50

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

New Flasher Light

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



Exterior Fig. 748 Interior

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

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

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

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

With Batteries add each \$3.50.

Without Globe Guard deduct each \$5.00.

Extra Bulbs each \$7.00.

With Red Globe add each \$1.00.

NEW OCEAN AND COASTWISE REGULATIONS

New ocean and coastwise regulations of the U. S. Department of Commerce, Bureau of Marine Inspection and Navigation call for an efficient signaling lamp on all ocean and coastwise passenger ships over 150 gross tons. Such lamp to be equipped with fresnel lens and operated by a weatherproof key fitted with a suitable condenser. Effective on existing vessels November 7, 1937 and on new vessels immediately.

Our Fig. 403 Blinker Signaling Lights and the following keys have been officially approved by the Bureau.

Watertight Blinker Key

WITH CONDENSER

CAST BRONZE—BLACK FINISH—APPROVED



Fig. 9

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

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$18.00	4 1/8	3 1/2	2 1/4	2 1/2

Open Type Blinker Key

WITH CONDENSER

APPROVED

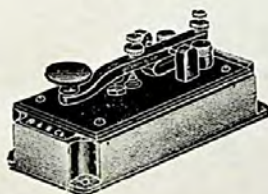


Fig. 10

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

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$15.00	6 1/2	3 1/8	2 3/4	1 1/2

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	4 3/8	3 1/4 x 2 1/4

Mast or Blinker Signaling Lights

WITH MEDIUM SCREW SOCKETS

WATERTIGHT—CAST BRONZE—BLACK FINISH



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. 1. For vessels 150 feet in length or under.

No. 2. For vessels over 150 feet but not over 450 feet in length.

No. 3. For vessels over 450 feet in length.

No.	Clear Each	Colored Each	Height Inches	Width Inches	Size Lens Inches	Threaded for Pipe Inches
1	\$10.00	\$11.00	6 3/4	4 3/4	3 3/8 x 3 1/2	1/2
2	12.50	14.00	8	5 7/8	4 1/4 x 4 1/4	3/4
3	18.00	21.00	9 1/2	7 1/4	5 3/8 x 5 3/8	1
4	20.00	23.00	9 1/2	7 1/4	5 3/8 x 5 3/8	1

No. 4 has 3 wire mogul socket for double filament bulb.

Colored lenses are red, green or blue.

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 farnel ball globes, one blue, the other clear. Can also furnish with red or green globes if desired. 2 1/2 inch diameter globes are furnished unless 3 inch are specified.

For bulbs to fit, see Fig. 8.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Weight Pounds
\$6.00	\$6.50	\$7.00	8 3/4	3 1/4 x 1 3/4	2 1/4

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.

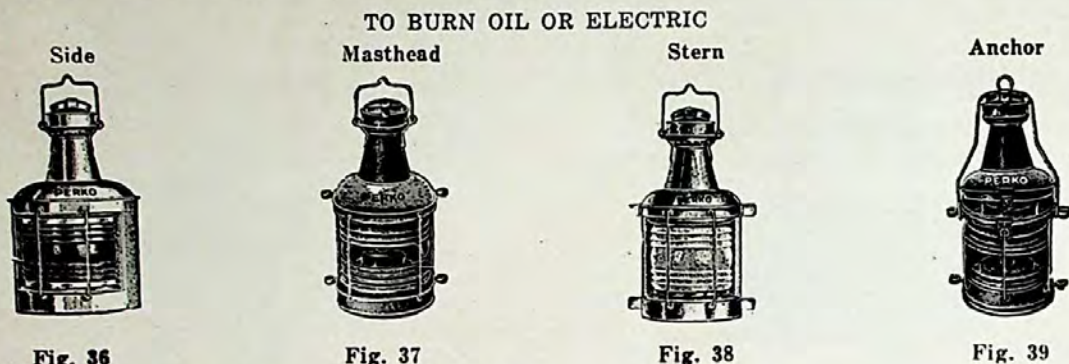


Fig.	Description	Size of Lens		Extreme Height Inches	Height of Frame Inches	Width Inches	Net Weight Lbs.	Unit	Price	
		Height Inches	Clr. Inches						Galv.	Copper
36	Side Lights	7	12 1/4	21 1/2	14	9 1/2 x 12	37	Pair	\$65.00	\$115.00
37	Masthead Lights	7 1/2	21	21 1/2	14	11 x 11 1/4	27	Each	50.00	65.00
38	Stern Lights	7 1/2	10 3/8	21 1/2	14	10 1/4 x 9 1/4	17	Each	45.00	60.00
39	Anchor Lights	7 1/2	10 diam.	21 1/2	14	10 1/2 diam.	22	Each	45.00	60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

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

English Regulation Running Lights

GUARANTEED TO PASS INSPECTION OF THE BRITISH BOARD OF TRADE

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



Fig.	Description	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 3/8	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 3/4	14	10 1/2 diam.	24	Each	45.00	60.00

COMBINATION OIL AND ELECTRIC EQUIPMENT

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

DAY SIGNALS

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



Fig. 169



Fig. 170



Fig. 171



Ball Folded

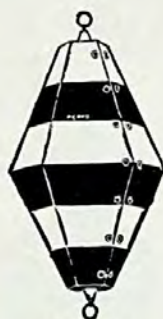


Fig. 172



Fig. 173



Frustrum Folded



Fig. 175



Fig. 176

Fig. No.		Diam. Inches	Height Inches	Weight Lbs.	Price Each
169	5 Black ball signal	24	24	2½	\$ 6.00
170	3 Red ball signal	24	24	2½	9.00
171	4 Black and white ball signal	24	24	2½	10.50
172	1 Black and white frustrum	24	48	5	25.00
173	2 Red frustrum	24	48	5	25.00
175	6 Clear towing light, galvanized	7½	17	9	16.80
176	7 Red towing light, galvanized	7½	17	9	20.40

RULES IN EFFECT ON DAY SIGNALS

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

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

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

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

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

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

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

OTHER USES AND REGULATIONS FOR DAY SIGNALS

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

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

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

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

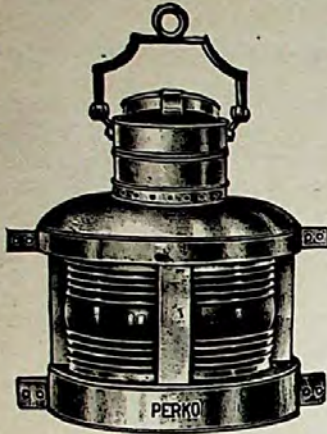


Fig. 62

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

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

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

Pilot House Lights—For Ferry Boats

ELECTRIC

Made of heavy gauge material with six glass panels 1/8 inches thick, installed in hexagon position. Glasses are insulated by rubber packing in frame.

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



Fig. 61

Fig. 61

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

Fig. 79

3	80.00	24	10x3 3/8	8	10 1/2
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Fig. 79

Anchor Staff or Pole Light

BRASS OR COPPER—ELECTRIC ONLY

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



Fig. 16

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

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

Western Trap Lantern

OIL BURNING

WITH 8 DAY CAPACITY OIL FOUNT

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

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



Fig. 14

With Clear Lens Each	With Colored Lens Each	Extreme Height Inches	Diam. Bottom Inches	Size Lens Inches
\$42.00	\$47.00	22	10	7x8

Colored Lenses are Red, Green or Blue
Oil Fount complete with gears and burner \$18.00 each. Capacity of fount, 6 pints.

Fisherman's Side Light

GLOUCESTER TYPE



Fig. 346

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

Extreme Height Inches	Diam. Bottom Inches	Size of Lens Height Inches	Size of Lens Clear Inches	Weight Per Pair Lbs.	Galv. Per Pair
16	10	6 3/4	9	23	\$36.00
For combination oil and electric equipment					39.00

Gloucester Bow Lights, Each\$20.00

Gloucester Anchor Lights, Each 24.00

Steel Buoy Light

30 DAY LIGHT—BATTERY OPERATED
RIVETED BUOY—LEAD BALLASTED



Fig. 988

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

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

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

Lens is screw type fresnel.

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

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

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

Bumper is 1 1/2 inch heavy rubber hose.

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

With rubber bumper add \$5.00 each.

Extra bulbs, \$7.00 each.

With red lens add \$1.00 each.

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

Tri-Color Trawler Light

FOR STEAM TRAWLERS



Fig. 407
Oil Burning



Fig. 408
Electric Burning

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

No.	Galv. Each	Polished Brass Each	Polished Copper Each	Extreme Height Fig. 407	Extreme Height Fig. 408	Height Lens Inches
1	\$30.00	\$40.00	\$45.00	15	11	6 3/4
2	34.00	44.00	49.00	17 1/2	13 1/4	7 3/8

Fresnel Lenses Only—Red, Green and Clear

No. 1 — \$5.50 Each

No. 2 — \$7.50 Each



Fig. 59

Regulation Pier Lights

180 DEGREE RUBY FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

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

	OIL OR ELECTRIC		
	Galvanized Each	Brass Each	Copper Each
With back door	\$32.00	\$38.00	\$44.00
With swivel fount	28.00	35.00	40.00

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.

Mid Channel Span Light

360 DEGREE GREEN FRESNEL LENS

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

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

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

Size of lens, 7 inches x 8 inches
 Net weight, each, 18 pounds

	Galvanized Each	Brass Each	Copper Each
With hinged top, for oil or electric	\$29.00	\$38.00	\$43.00
With hinge top, combination oil and electric	30.50	39.50	44.50
With flat top, for electric only as Fig. 32	25.00	34.00	39.00

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



Fig. 80

Regulation Draw Bridge Light

OIL ONLY, ELECTRIC ONLY OR OIL AND ELECTRIC

Made of heavy sheet metal, in accordance with regulations. Square frame, in which a 360 degree clear fresnel lens is set. Glass panels in frame on all sides, two red and two green, set in opposite sides to each other. Large size swivel fount, for oil lighting which goes through bottom of light. Medium screw sockets used as standard 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 10 inches

Size of glass panels exposed 8 1/4 inches x 8 inches

	Galvanized Each	Brass Each	Copper Each
	\$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

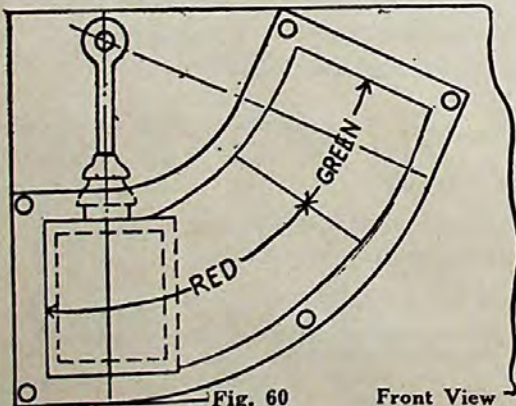


Fig. 60

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

	Each
Oil or electric, galvanized	\$150.00



Side View

CAST BRONZE BRIDGE AND PIER LIGHTS

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

Pier Light

180 DEGREE RED LENS

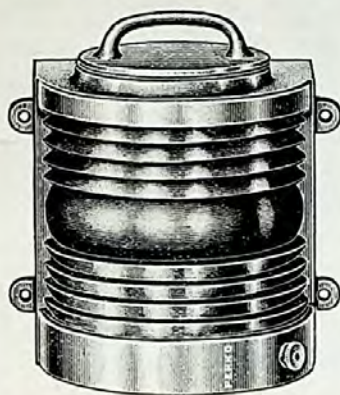


Fig. 1005

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

Each \$38.00
 Black nickel finish
 Furnished with green lens when desired at same price.

Mid-Channel Light

360 DEGREE GREEN LENS

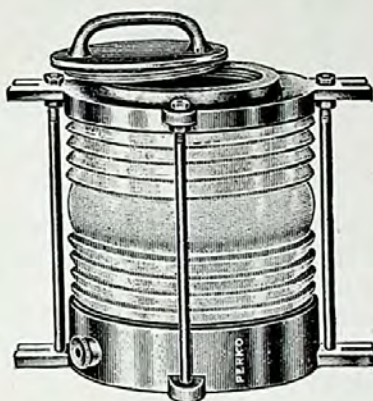


Fig. 1006

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

Each \$38.00
 Black nickel finish

Draw Bridge Light

RED AND GREEN PANEL GLASSES
 360 DEGREE CLEAR LENS

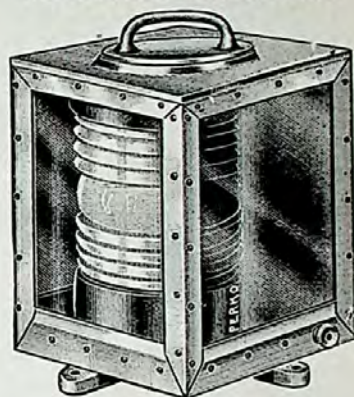


Fig. 1007

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

Each \$55.00
 Black nickel finish
 Extra panel glasses 2.00

Pier Light

ON PEDESTAL
 180 DEGREE RED LENS



Fig. 125

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

Each \$44.00
 Black nickel finish

Obstruction Light

ON PEDESTAL
 360 DEGREE RED LENS

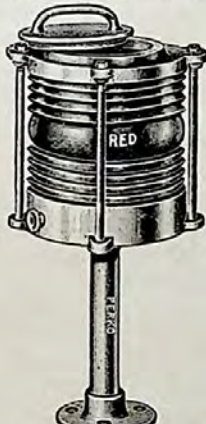


Fig. 126

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

Each \$44.00
 Black nickel finish

Lift Bridge Lights

180 DEGREE RED AND GREEN LENSES

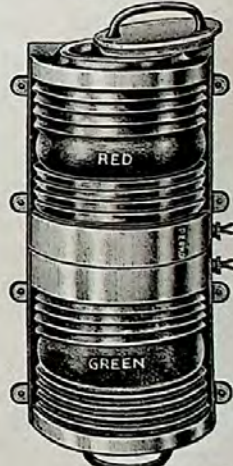


Fig. 127

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

Each \$80.00
 Black nickel finish

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

Globe—Distress or Signal Light

TURRET TOP
OIL OR ELECTRIC

Constructed of high grade, heavy materials. Colored globes are solid color—no painted. Heavy wire guards protect globe.

WITH CLEAR GLOBE

Trade Size Inches	Diam. Globe Inches	Height Overall Inches	Net Weight Each Lbs.	Price Each		Copper
				Galvanized	Brass	
6	6	11	4	\$ 7.00	\$10.00	\$12.00
8	8	14½	6	8.00	12.00	14.00
10	10	22	12	15.00	20.00	23.00

WITH RUBY, GREEN, BLUE OR FROSTED GLOBES

6	\$ 9.00	\$12.00	\$14.00
8	10.00	14.00	16.00
10	17.00	22.00	25.00

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

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



Fig. 44

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.



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

Fig. 49

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$4.00	\$7.00
With Ruby, Green or Blue Globe	5.50	8.50
With Electric Fount, Fig. 292, add	.50	.50

Superior Bulkhead Lantern

With Outside Sliding Glasses

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



Fig. 46

Size Body		Height Overall Inches	Galvanized Each	Brass Each
Front Inches	Side Inches			
7x11	5¾x11	14	\$10.00	\$15.00
8x12	6½x12	15½	12.00	17.00
9x13	7¾x13	16	14.00	19.00

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

Engineer's Hand Lantern

OIL ONLY

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



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

Fig. 50

	Galvanized Each	Pol. Brass Each
With Clear Globe	\$3.00	\$5.00
With Ruby, Green or Blue Globe	4.30	6.30
Spring Founts Only—All Brass		.67

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
	\$1.75	5	9

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

Philadelphia Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 137

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

No.	Polished Each	Chrome Plated Each	Height Inches	Exten- sion Inches	Capacity Fount Pints	Wall Plate Inches
2	\$8.00	\$10.00	14	8½	1½	4¾x2

Maine Cabin Lamp

STIFF BRACKET—NON SWING
ALL BRASS



Fig. 136

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

No.	Polished Each	Chrome Plated Each	Height Inches	Exten- sion Inches	Capacity Fount Pints	Wall Plate Inches
2	\$6.50	\$8.50	12	8	1½	3x1½

Smoke Bell and Arm

SPUN BRASS BELL—CAST BRASS ARM



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounces
Midget	\$1.10	\$1.75	4	3½	3½
1	1.10	1.75	4	3¾	4
2	1.10	1.75	4	4¼	4
3	1.10	1.75	6¼	5¾	6½
4	1.10	1.75	6¼	6½	7

No. 3 size is for the old No. 1 Detroit Cabin Lamp.

No. 4 size is for the old No. 2 Detroit Cabin Lamp and Figs. 136, 137.

Newport Cabin Lamp

DOUBLE SWING—WEIGHTED BASE
ALL BRASS



Fig. 141

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

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

No.	Polished Brass Each	Chrome Plated Each	Height Inches	Exten- sion Inches	Capacity Fount Pints	Burner Number
Midget	\$5.50	\$7.50	9	5	½	1
1	5.75	7.75	12⅞	5½	1	1
2	6.50	8.50	12½	6	1¼	2

Universal Wall Lamp

HEAVY TIN PLATE



Fig. 312

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

Each Complete	Height of Back Inches	Diam. of Fount Inches	Weight Each Lbs.
\$2.25	9	5	1½

"Perko" Brass Swivel Founts

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

Oil Fount



Fig. 582

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

Net weight, each, 4 ounces

Diameter of fount, 2 3/4 inches

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

Edison Electric Fount



Fig. 588

Brass Spring Founts

FOR OLD STYLE RUNNING LIGHTS
CLASSES 1, 2 AND 3

Oil and Electric Fount



Fig. 733

Oil Fount



Fig. 286

Oil and Electric Fount

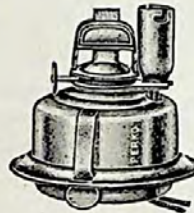


Fig. 736

Ediswan Fount Double Contact



Fig. 291

Edison Fount Medium Screw Base

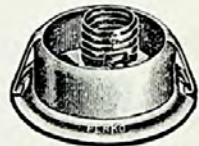


Fig. 292

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

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

Brass Swivel Founts

FOR CLASS 1 STERN LIGHT AND 6 INCH GLOBE LIGHTS

Oil and Electric Fount



Fig. 735

Oil Fount



Fig. 287

Ediswan Fount Double Contact



Fig. 293

Edison Fount Medium Screw Base



Fig. 274

	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
2	8, 9 & 10	14 & 15	22, 22½ & 85	3¾	4¾	2	\$1.00	\$1.50	\$1.50	\$2.00	\$2.50	\$3.00
3	11	16	23 & 86	4¾	5¾	2	1.50	2.00	2.00	2.50		

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
5	9 & 10	14 & 15	22, 22½ & 85	3¾	4¾	2	\$1.00	\$1.50	\$1.50	\$2.00	.....	.....
6	11	16	23 & 86	4¾	5¾	2	1.50	2.00	2.00	2.50	\$2.50	\$3.00

Sliding Founts for Back Door Lights

Oil Fount

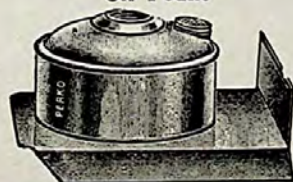


Fig. 284

One Light Electric Fount
Medium Screw Base



Fig. 281

Two Light Electric Fount
Medium Screw Base



Fig. 285

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

PRICE EACH		
Brass		Copper
\$2.50		\$2.75
2.50		2.75
3.00		3.25

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

Engineer's Lantern Globes



Fig. 263

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

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

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

Colored globes are solid colors, not painted.

Globe Light Globes



Fig. 264

Standard equipment in our globe lights, Fig. No. 44.
 Colored globes are red, green and blue, solid colors not painted. Frosted globes can also be furnished.

Navy Lantern Globes



Fig. 262

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

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

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

Colored globes are solid colors, not painted.

Size	Diameter		Height Overall Inches	Clear Each	Frosted or Colored Each
	Top	Bottom			
6	3 1/8	3 1/8	6 3/8	\$1.50	\$3.50
8	4	4	7 1/2	2.50	4.00
10	5 3/8	5 3/8	10 1/8	4.00	6.00

Double Contact Socket FOR DE-LITE RUNNING LIGHTS



Fig. 276

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

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

Price, each \$.36

Socket Holder

FOR DE-LITE RUNNING LIGHTS BRASS



Fig. 277

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

Price, each \$.50

Electric Converter

ALL BRASS



Fig. 458

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.



Fig. 130

Color Shield

FOR COMBINATION LIGHTS DIVIDES RED AND GREEN LENSES

Used on class 1 combination lights, Fig. No. 01, 010, etc.
 Made of heavy gauge brass or galvanized iron.

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

T Brackets

FOR LARGE SIZE RUNNING LIGHTS



Fig. 135

Made of cast iron, hot galvanized. Standard equipment on large size running lights. Height overall, 7 1/2 inches, width overall, 5 3/8 inches, width bracket, 2 1/2 inches.

Galvanized Cast Iron, Each \$1.00

Brackets

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



Fig. 131

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

No.	Width Inches	Height Inches	Galvanized Each	Brass Each
1	1 1/2	4 3/8	\$.30	\$.50
2	2	6 3/8	.50	

Mazda Lighting Bulbs



Fig. 337

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



Fig. 340

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

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

Packed, 10 bulbs to a box.

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

Packed, 6 bulbs to a package.

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

Packed, 6 bulbs to a package.

FOR DOME AND BERTH LIGHTS



Fig. 8

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

Packed, 20 bulbs to a box.

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		100	G-16 1/2	D. C.	2 1/8	3	3.50
32	3.5 amp.	8 amp.	P-25	Medium	3 1/8	4 3/4	6.00
32			G-30	Medium	3 3/4	5 1/8	9.00
32	400		G-30	Medium	3 3/4	5 1/8	4.00
120	250		G-30	Medium	3 3/4	5 1/8	6.00
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



Fig. 242

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

No.	Diam. Thread Inch	Wick Inch	Per Doz.
1	7/8	3/8	\$8.00
2	1 1/4	3/8	8.00

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	7/8	14.50

Eagle Burner

ALL BRASS—HEAVY PATTERN



Fig. 248

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

No.	Diam. Thread Inch	Wick Inch	Per Doz.
2	1 1/4	7/8	\$4.50

Cosmos or Ligne Burner

ALL BRASS—HEAVY PATTERN

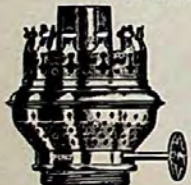


Fig. 240

Standard equipment on Norwegian running lights.

Nos. Lignes	Width Wick Inches	Per Doz.
10	2	\$10.80
14	2 3/4	12.00

Long Time Burner

HEAVY BRASS

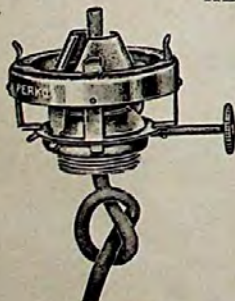


Fig. 245

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

Burners only	Per Doz.
Wicks only	\$12.00
	1.50

Marcy Lip or Dual Chimney



Fig. 267

No.	Per Dozen	Height Inches	Diam. Bottom Inches
1	\$5.00	4	1 5/8
1	5.00	4 1/2	1 5/8
1	5.00	5	1 5/8
1	5.00	6	1 5/8
2	6.00	4	2 1/8
2	6.00	4 1/2	2 1/8
2	6.00	5	2 1/8
2	6.00	6	2 1/8

Specify height of chimney when ordering.

No. 1, 4 and 6 inch, also No. 2, 6 inch are standard sizes.

All other sizes are special but carried in stock for immediate shipment.

Eagle Chimney

PLAIN TOP



Fig. 268

Standard equipment on wall lamp, Fig. 312.

Sizes	2 or B
Diameter of bottom	2 1/8
Diameter of top	1 3/4
Height overall	7 1/2
Net weight, per doz., lbs.	2

2 or B

Per Dozen \$6.00

Cosmos or Ligne Chimneys

Standard equipment on Norwegian running lights.



Fig. 270

	Height Overall Inches	Diam. Bottom Inches	Price Per Dozen
10 ligne	9 1/2	1 1/2	\$5.00
14 ligne	9 1/2	2	6.00

Long Time Chimney



Fig. 272

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

Diam. Bottom Inches	Height Inches	Per Dozen
1 1/2	1 1/4	\$6.00

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 3/4 inch diameter	\$2.00
6 1/2 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

Holophane Shade

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

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

With Ferrule	Without Ferrule
Each	Each
\$1.40	\$.90



Fig. 255

Brass Burner



Fig. 246

No.	Diam. Thread Inch	Wick Inch	Per Doz.
0	7/8	1/2	\$1.70
1	7/8	3/8	1.90
2	1 1/4	7/8	2.90

Wicks



Fig. 302

	Per Dozen
Flat Wicks, No. 0, 1/2 inch wide	\$.30
Flat Wicks, No. 1, 3/8 inch wide	.35
Flat Wicks, No. 2, 7/8 inch wide	.45
Cosmos Wicks—10 ligne	1.30
Cosmos Wicks—14 ligne	1.40
Wicks for long time burner	1.50

Side Light Screens

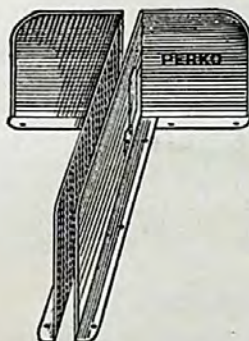


Fig. 316

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

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

Holophane Ball Globe

2 3/4 INCH DIAMETER FOR FIXTURES AND POLE LIGHTS—CLEAR

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

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

With Ferrule	Without Ferrule
Each	Each
\$1.50	\$1.00



Fig. 254

Fresnel Ball Globes

1 3/8 INCH DIAMETER

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



Fig. 604

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

Clear, Each \$.55

2 1/2 INCH DIAMETER

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



Fig. 250

Outside diameter 2 1/2 in.
Height overall 2 3/8 in.
Diameter of opening 1 1/2 in.
Diameter of thread 2 in.
Net weight, each 6 ozs.

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

3 INCH DIAMETER

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



Fig. 251

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

Clear	Ruby	Green	Blue
Each	Each	Each	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 3 3/8 in.
Diameter of opening 2 1/4 in.
Diameter of thread 2 3/8 in.
Net weight, each 10 ozs.

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

4 1/4 INCH DIAMETER

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



Fig. 252

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

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

3 1/2 INCH DIAMETER

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



Fig. 106

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

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

Special Mast Light Globe

2 3/4 INCH DIAMETER

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



Fig. 77

Outside diameter 2 3/4 in.
Height overall 5 1/2 in.
Diameter of opening 1 7/8 in.
Diameter of thread 2 3/8 in.
Net weight, each 11 oz.

Clear	Ruby	Green
Each	Each	Each
\$.80	\$2.00	\$2.00

Holophane Dome Glasses

SHALLOW



Fig. 257

For Dome Lights Figs. 294 and 555.

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$.60	2 7/8	5/8
4	.70	4	3/8
5	.90	5	1 1/2
6	1.40	6	1 3/8

DEEP



Fig. 258

For Dome Lights Fig. 454.

Outside Diam. Inches	Each	Depth Inches
4	\$.70	1 3/4
6	2.80	2 3/4

Frosted Dome Glasses

SHALLOW



Fig. 132

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

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$.60	2 7/8	5/8
4	.70	4	3/8
5	.90	5	1 1/2
6	1.40	6	1 3/8
8	1.80	7 3/4	7/8

Ribbed Opal Dome Glasses



Fig. 133

For Dome Lights, Fig. 385.

Outside Diam. Inches	Each	Extreme Depth Inches
5 3/8	\$1.20	1 1/8
	1.85	1 3/8

Fresnel Lenses

FOR SIDE AND COMBINATION LIGHTS
112½ DEGREES

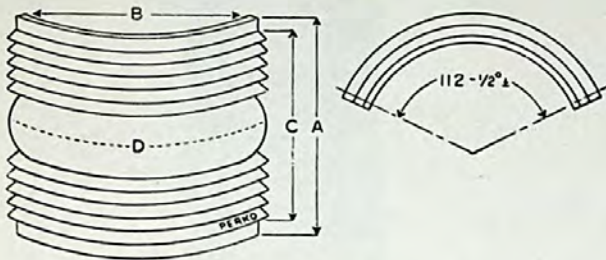


Fig. 259

For	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
O. B. Comb.	2 ⁹ / ₁₆	1 ³ / ₄	2 ¹ / ₈	3		\$.55
Cl. 1 Comb.	3 ⁹ / ₁₆	2 ⁹ / ₁₆	3	3 ³ / ₈	\$1.00	.80
Cl. 2 Side	4 ¹ / ₄	3 ³ / ₁₆	3 ¹ / ₄	4 ⁷ / ₈	1.50	1.10
Cl. 3 Side	5 ³ / ₁₆	3 ¹ / ₄	4 ¹ / ₂	5 ⁹ / ₁₆	2.00	1.35
No. 8 Side	5 ¹ / ₂	4 ¹ / ₁₆	4 ¹ / ₈	5 ⁷ / ₈		2.70
No. 9 Side	5 ³ / ₈	5 ⁷ / ₈	4 ¹ / ₈	8 ¹ / ₁₆		3.70
No. 10 Side	6 ³ / ₄	6	6	8 ³ / ₄		4.20
No. 11 Side	7 ¹ / ₂	8 ⁹ / ₁₆	6 ¹ / ₈	11 ¹ / ₁₆		8.00
8 in. Face	8 ³ / ₄	7 ¹ / ₂	8 ³ / ₁₆	9 ³ / ₈	7.00	8.00
Eng. or Nor.	7	9	6	12 ³ / ₈	8.00	

FOR ANCHOR LIGHTS—360 DEGREES

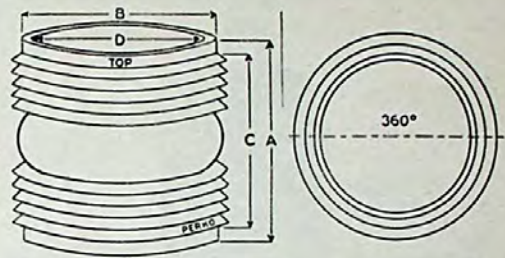


Fig. 261

For	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Cl. 1 Stern	3 ⁷ / ₁₆	3 ³ / ₁₆	2 ⁷ / ₈	2 ³ / ₄	\$.75	\$1.10
Cl. 2 and 3	4 ¹ / ₄	4	3 ⁹ / ₁₆	3 ¹ / ₁₆	1.10	1.65
No. 22 Anchor	5 ⁷ / ₁₆	5 ¹ / ₄	4 ¹ / ₈	4 ¹ / ₈	3.00	5.50
No. 22½ Anchor	6 ³ / ₄	5 ¹ / ₄	6	4 ³ / ₄	4.00	7.00
No. 23 Anchor	7 ¹ / ₁₆	7 ¹ / ₁₆	6 ¹ / ₁₆	6 ⁷ / ₈	5.60	10.50
Eng. or Nor.	7 ¹ / ₂	9 ¹ / ₁₆	6 ³ / ₄	8 ⁷ / ₁₆	15.00	

FOR MASTHEAD LIGHTS—225 DEGREES

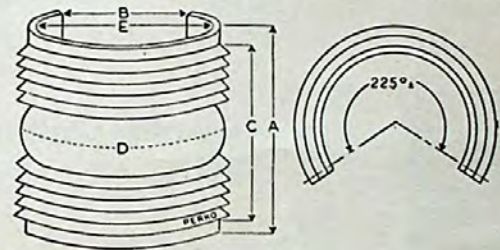


Fig. 256

For	A In.	B In.	C In.	D In.	E In.	Clear Each	Red or Green Each
No. 1 Masthead	5 ¹ / ₂	4 ³ / ₈	4 ¹ / ₈	11 ¹ / ₁₆	4 ³ / ₄	\$5.00	\$7.00
No. 2 Masthead	6 ⁵ / ₈	4 ³ / ₈	5 ⁷ / ₈	11 ¹ / ₁₆	4 ³ / ₄	6.00	8.25
No. 3 Masthead	7 ¹ / ₁₆	6 ¹ / ₈	6 ¹ / ₁₆	16 ⁹ / ₁₆	6 ⁷ / ₈	8.00	13.50
Eng. or Nor.	7 ¹ / ₂	7 ³ / ₈	6 ³ / ₄	19 ⁹ / ₁₆	8 ¹ / ₄	15.00	

FOR BOW LIGHTS—180 DEGREES

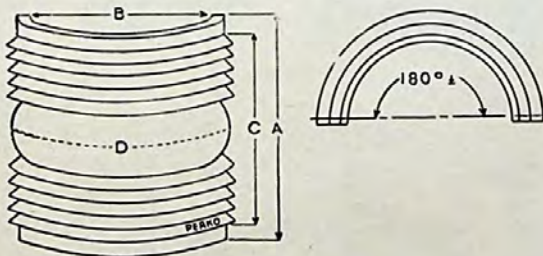


Fig. 260

For	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Cl. 1 Bow	3 ⁷ / ₁₆	2 ⁹ / ₁₆	2 ¹ / ₈	5 ³ / ₈	\$1.10	\$1.75
Cl. 2 Bow	4 ⁹ / ₁₆	3 ¹ / ₄	3 ³ / ₈	6 ³ / ₈	1.10	1.75
Cl. 3 Bow	5 ⁹ / ₁₆	3 ⁷ / ₈	4 ⁹ / ₁₆	7 ¹ / ₈	1.35	2.25
No. 14 Bow	5 ³ / ₈	4 ³ / ₄	4 ⁷ / ₈	9 ¹ / ₁₆	4.00	5.00
No. 15 Bow	6 ¹ / ₈	4 ³ / ₄	5 ¹ / ₈	9 ¹ / ₁₆	5.00	6.00
No. 16 Bow	7 ³ / ₈	6 ⁷ / ₈	6 ³ / ₈	12 ³ / ₈	6.00	8.00

FOR STERN LIGHTS—135 DEGREES

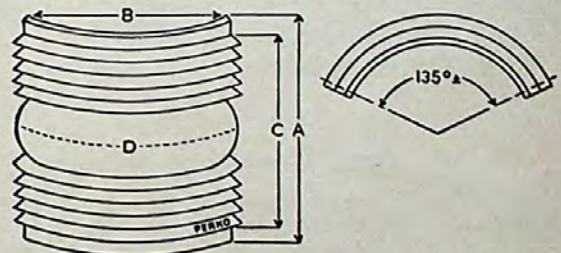


Fig. 269

For	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each
No. 4 Stern	5 ¹ / ₂	4 ³ / ₈	4 ⁷ / ₈	6 ¹ / ₈	\$5.00	\$6.00
No. 5 Stern	6 ¹ / ₂	4 ³ / ₈	5 ³ / ₈	6 ¹ / ₈	6.00	7.00
No. 6 Stern	7 ³ / ₈	6 ⁹ / ₁₆	6 ³ / ₈	9 ¹ / ₄	8.00	10.00
Eng. or Nor.	7 ¹ / ₂	7 ³ / ₈	6 ⁵ / ₈	10 ¹ / ₁₆	10.00	

DIMENSIONS SUBJECT TO GOVERNMENT STANDARD TOLERANCES—PLUS OR MINUS

Emergency Self Lighting Water Light

FOR ATTACHMENT TO RING BUOYS



Fig. 843

boat rail by top ring and attached to ring in ring and line. Lights automatically and on striking the water, gives a 250 candle light and burns for 45 minutes. Approved U. S. Board of Supervising Inspectors.

Size Overall Inches 5x8	Weight Pounds 3	Price Each \$6.00
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Distress Outfits

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



Fig. 514

Many boat owners do not realize the importance 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 extremely low price puts it within reach of every ones pocketbook. This outfit consists of twelve 2 minute moisture proof red flares packed in a moisture proof container.

Per Outfit Complete \$2.00

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—10 1/2 inches high—Price Each	5.00

Height does not include cover, but price does.

Bread Breakers

GALVANIZED

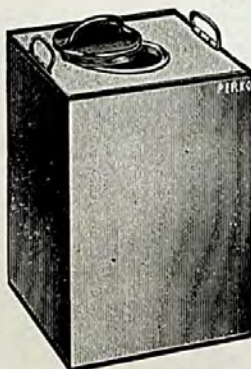


Fig. 155

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

Diameter cover. 5 inches

Capacity Lbs.	Each	Size Inches	Weight Lbs.
25	\$6.50	12x12x18	13
40	7.00	15x15x21	15
50	7.50	15x15x24	18
60	8.00	15x15x30	19
80	9.00	24x24x24	32
100	9.50	24x24x30	40

Axe Brackets

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



Fig. 325

Japanned Steel Polished Brass	Blade Brackets Only Per Dozen	\$4.50	Hooks Only Per Dozen	\$1.50
		7.00		3.00

Bread Breaker Caps

NEW STYLE
CAST BRONZE



Fig. 72

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

Price Per Set \$3.00	Extra Gaskets Each \$.25	Outside Diam. Cover Inches 5 3/4	Inside Diam. Opening Inches 4 3/4	Weight Each Pounds 2
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Boat Bailers

GALVANIZED



Fig. 180

Made of black steel, hot galvanized after completed, handle riveted to body.
Diameter, 8 1/4 inches.
Weight, per doz., 12 lbs.

Price each \$1.20

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 1/8 inches, No. 14 thread.



Fig. 213

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches
\$3.00	\$1.00	\$1.80	1 1/4	3 3/8

Ditty Bags

COMPLETE



Fig. 85

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.

Water Breakers

ROUND OAK



Fig. 1001

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

Capacity Gallons	With Galvanized Hoops Each
5	\$3.40
10	4.40
15	4.90
20	5.75

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 pet cocks and filling cap.

Diameter of Anchor Inches	Capacity of Can Quarts	Anchor with Can Complete Each	Anchor Only Each	Can Only Each
24	4	\$5.40	\$3.60	\$1.80
30	4	7.80	6.00	1.80

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

Trouble Light

NICKEL PLATED BRASS BODY—WOOD HANDLE



Fig. 389

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

Length overall, 10 inches, Each \$3.00

Watertight Receptacles and Plugs
CAST BRONZE—DIPPED FINISH

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

For all voltages from 6 to 125

FLUSH TYPE WITHOUT BOX



Fig. 968

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

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

FLUSH TYPE WITH BOX



Fig. 969

Furnished with box, bottom inlet. watertight

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

Complete Each	Plug Only Each
\$5.00	\$1.80

HEAVY DUTY FLUSH TYPE

For the larger yachts from 40 feet up in length.



Fig. 970

SIDE INLET

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

Complete Each	2 Wire Plug Each	3 Wire Plug Each	3 Wire Interior Extra
\$6.50	\$2.00	\$4.25	\$3.00

HEAVY DUTY SURFACE TYPE

Also for larger yachts where a surface type is required.

SIDE INLET



Fig. 971

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

Complete Each	2 Wire Plug Each	3 Wire Plug Each	3 Wire Interior Extra
\$6.00	\$2.00	\$4.25	\$3.00

Gang Type Receptacle and Plug
SURFACE TYPE



Fig. 972

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

Length Inches	Width Inches	Depth Inches
3 1/4	2 1/4	1 5/8

Complete with Plugs, Each \$8

Combination Switch and Receptacle
SURFACE TYPE

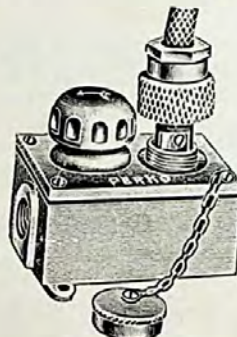


Fig. 973

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

Length Inches	Width Inches	Depth Inches
3 1/4	2 1/4	1 5/8

Price Complete \$8.

Watertight Snap Switch
FLUSH TYPE OR SURFACE TYPE

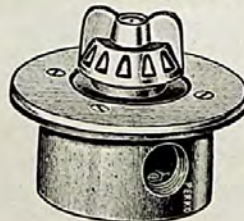


Fig. 974

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

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

Single Pole Switch
Double Pole Switch

	Flush Type	Surface Type
	\$6.00	\$5.25
	6.25	

Watertight Junction Box
SURFACE TYPE



Fig. 975

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

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

Without interior, each \$2.00

With block for one circuit, Each 2.00

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
Each
\$1.00

Nickel
Plated
Each
\$1.20

Chromium
Plated
Each
\$1.40

Socket Only
Plug Only

1.00

1.20

1.40

Watertight Connection
DOUBLE CONTACT



Fig. 477

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

Polished
Brass
Each
\$1.75

Nickel
Plated
Each
\$2.00

Chromium
Plated
Each
\$2.25

Composition Interiors Only
Per Set, \$.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\$1.00

Plugs and Sockets

DOUBLE CONTACT



Fig. 399

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

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

Mogul Socket

PORCELAIN—FOR 3 WIRE SYSTEM



Fig. 533

Used with our double filament bulb, Fig. 532.

Each\$1.50

Composition Connector
DOUBLE CONTACT

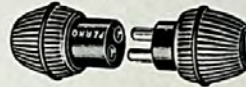


Fig. 749

Price Each\$.50

Brass Case Connector
DOUBLE CONTACT



Fig. 750

Metal caps and hard rubber body. Price, each\$.60
Metal clad throughout. Price, each\$.70

Bakelite Base Socket
SINGLE OR DOUBLE CONTACT



Fig. 472

Diameter base, 1 1/2 inches. Height, 1 inch.

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

Single End Socket

SINGLE OR DOUBLE CONTACT



Fig. 747

No.		Each
1	Double Contact	\$.15
2	Single Contact	.15

Double contact furnished unless otherwise specified.

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"

Fig. 377—Single end socket \$.25
Fig. 378—Double end socket30

Price Each

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, each25

Lighting Switches

FOR ALL VOLTAGES FROM 6 TO 120

THE STANDARD

With cadmium plated frame and bakelite sliding button.

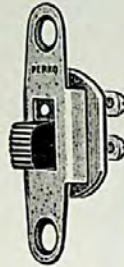


Fig. 717

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 1/4", same as fig. 718, price complete \$.-

THE DE-LUXE

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

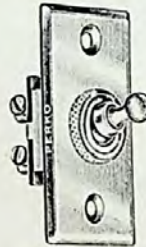


Fig. 718

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

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

THE DE-LITE

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

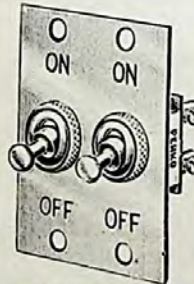


Fig. 719

With brass face plate polished or plated finishes.

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

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

TOGGLE TYPE

FOR THRU THE DASH MOUNTING



Fig. 745

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

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

Price Each \$.50
Furnished with neck 1/2" or 3/8 inches long. Specify length of neck when ordering.

Push and Pull Switch

HEAVY DUTY

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

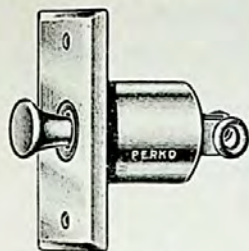


Fig. 740

	Each
1 point	\$.50
2 point	0.80
3 point	1.20
4 point	1.60

Please specify finish of plate when ordering.

Brass Straps

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



Fig. 121



Fig. 1075

Inside Diam. Inches	Fig. 121 Per 100	Fig. 1075 Per 100	Inside Diam. Inches	Fig. 121 Per 100	Fig. 1075 Per 100
1/8	\$.80	\$1.00	1/4	\$1.20	\$1.50
3/16	.90	1.10	1/2	1.30	1.60
1/4	1.00	1.25	3/8	1.60	2.10
5/16	1.00	1.25	3/4	1.70	2.20
3/8	1.10	1.40			

Push and Pull Switch

HEAVY DUTY—WITH IVORY KNOB

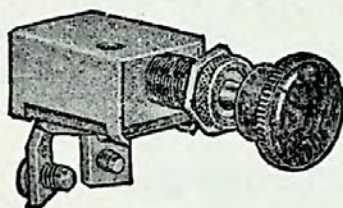


Fig. 94

Heavy duty, 2 point 2 terminal on and off with ivory tenite screw on knob, mounts through 3/8 inch hole, neck for 1/2 inch wood.

Price Each \$.75

Brass Cable Straps

FLAT TYPE FOR LEAD COVERED CABLE BRASS



Fig. 1076



Fig. 1077

Inside Measurements Inches	Fig. 1076 Per 100	Fig. 1077 Per 100
1/8 x 3/4	\$2.20	\$2.80

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

Knife or Battery Switches

UPRIGHT TYPE



Fig. 70

No.	Size Base Inches
1	2 1/4 x 1 1/4
2	3 3/8 x 1 1/4

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 1/4 x 1 1/4
4	2 1/4 x 1 1/4

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

Dashboard Lamp

BRASS—NICKEL PLATED WITH SWITCH

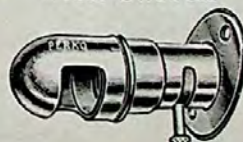


Fig. 184

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

Each	Height Overall Inches	Size Base Inches	Weight Each Oz.
\$.90	2 1/4	1 1/8 x 1 1/2	1 1/2

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 2½	Drop less Lamp Inches 2½	Projection less Lamp Inches 3	Weight Ounces 6
Polished Brass Each \$1.75	Nickel Plated Each \$2.00	Chromium Plated Each \$2.25	

Oval Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 516

Size Base Inches 2¾x2¾	Drop less Lamp Inches 2½	Projection less Lamp Inches 2¾	Weight Ounces 8
Polished Bronze Each \$2.75	Nickel Plated Each \$3.00	Chromium Plated Each \$3.25	

Square Base Pattern

WITH TOGGLE SWITCH—CAST BRONZE



Fig. 450

Size Base Inches 2x2	Drop less Lamp Inches 2	Projection less Lamp Inches 2¾	Weight Ounces 12
Polished Bronze Each \$2.50	Nickel Plated Each \$2.75	Chromium Plated Each \$3.00	

Upright Pattern

WITH TOGGLE SWITCH—CAST BRONZE

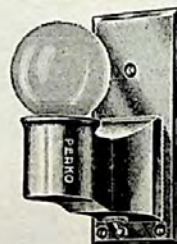


Fig. 304

Polished Bronze Each \$4.00	Nickel Plated Each \$4.50	Chromium Plated Each \$5.00	Size Plate Inches 4½x2¾	Projection less Lamp Inches 2¾
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Square Base Pattern

WITH PUSH BUTTON SWITCH—CAST BRONZE



Fig. 689

Size Base Inches 2x2	Drop Less Lamp Inches 2¾	Projection Less Lamp Inches 2¾	Weight Pounds ¾
Polished Bronze Each \$2.75	Nickel Plated Each \$3.00	Chromium Plated Each \$3.25	

Porcelain Cabin Fixture

WITH STANDARD SCREW SOCKET
NO SWITCH



Fig. 191

Width Inches 2¾	Drop Less lamp Inches 1¾	Projection Less lamp Inches 1¾	Price Each \$.75
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PRICES ON THIS PAGE DO NOT INCLUDE BULBS. WHEN ORDERING BULBS, SPECIFY VOLTAGE AND 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

Double Ceiling Fixture

CAST BRONZE—STANDARD SCREW SOCKETS
WITH TOGGLE SWITCH



Fig. 451

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Extension from Ceiling Inches
\$5.00	\$5.50	\$6.00	3 1/2 x 2	2 3/8

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	5 x 6	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

Holophane Cabin Fixtures

CAST BRONZE—DOUBLE CONTACT SOCKET
OPEN SHADE—TOGGLE SWITCH



Fig. 553

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Base Inches	Drop Extension Inches
\$3.00	\$3.25	\$4.00	1 3/4 x 1 3/8	3 1/2 4 1/4

GLOBE—TOGGLE SWITCH



Fig. 554

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Base Inches	Drop Extension Inches
\$3.25	\$3.50	\$4.25	1 3/4 x 1 5/8	4 1/2 3 1/2

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. 433

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

New "Brightlite" Dome Lights
 OPEN SIDES FOR BETTER ILLUMINATION
 HOLOPHANE OR FROSTED GLOBE
 BRASS—CHROMIUM PLATED



Shallow—Fig. 1147



Deep—Fig. 1148

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

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

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

No.	Chromium Plated Each	Diam. Globe Inches	Depth Inches	Diam. Base Inches	Type Globe	
1	\$3.00	4	Shallow	1 3/4	5 1/2	Holophane
2	3.00	4	Shallow	1 3/4	5 1/2	Frosted
3	3.00	4	Deep	3	5 1/2	Holophane
4	3.50	5	Shallow	2	6 1/2	Frosted
5	3.50	5	Deep	3	6 1/2	Holophane

Dome Lights

CAST BRONZE

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

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

WITH DEEP HOLOPHANE GLOBE



Fig. 554

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	5	3	4	2 1/2	\$ 6.50	\$ 7.00	\$ 7.50
2	8	4 1/4	6	4 1/2	10.00	10.50	11.50

WITH SHALLOW HOLOPHANE GLOBE



Fig. 555

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3	5	1 3/4	4	2 1/4	\$ 6.50	\$ 7.00	\$ 7.50
4	8	2 3/8	6	4 1/4	10.00	10.50	11.50

WITH SHALLOW FROSTED GLOBE



Fig. 460

No.	Diam. Base Inches	Depth Inches	Diam. Globe Inches	Weight Lbs.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
5	5	1 3/4	4	2	\$ 6.50	\$ 7.00	\$ 7.50
6	8	2 3/8	6	4	10.00	10.50	11.50

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

"Brightlite" Cabin Fixture

WROUGHT BRASS—ELECTRIC
 FOR BULKHEAD OR CEILING



Fig. 578

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

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

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

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

No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Length Inches	Width Inches	Depth Inches
1	\$3.00	\$3.50	\$3.75	5	3	1 3/4
2	4.00	4.50	5.00	5 1/2	3 1/8	2 3/8

Dome Lights

WITH HOLOPHANE GLOBES
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 294

Wrought Brass with Nickel Plated Reflector.

Diam. Glass Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches
3	\$2.60	\$2.85	\$3.60	4 1/4	1 3/4
4	3.10	3.35	4.10	5 1/2	1 7/8
5	3.60	3.85	4.60	6 3/8	2 3/4
6	4.60	4.85	5.60	7 1/2	2 3/4

Dome Lights

WITH FROSTED GLOBES
TOGGLE SWITCH—DOUBLE CONTACT SOCKET



Fig. 296

Diam. Glass Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches
3	\$2.60	\$2.85	\$3.60	4 1/4	1 3/4
4	3.10	3.35	4.10	5 1/2	1 7/8
5	3.60	3.85	4.60	6 3/8	2 3/4
6	4.60	4.85	5.60	7 1/2	2 3/4

Dome Lights

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



Fig. 385

With Double Contact Socket

No.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches
7	\$3.25	\$3.50	\$4.25	6	4 1/4	2 1/4
8	4.25	4.50	5.25	7	5 1/2	2 3/4

With Standard Screw Socket

9	\$4.50	\$4.75	\$5.50	7	5 1/2	2 3/4
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Bulb with standard screw base for this light, see Fig. 8.

Dome Lights

WITH FROSTED GLOBES
TOGGLE SWITCH—STANDARD SCREW SOCKETS

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

Nickel plated reflectors wired ready for installing. Will allow use of single 75 watt bulb or two 50 watt bulbs.

WITH FLANGE



Fig. 753

With Single Socket

Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$ 9.00	\$ 9.50	\$10.25	9 3/8	8	3

With Two Sockets and 3 Way Switch

10.00	10.50	11.25	9 3/8	8	3
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WITHOUT FLANGE



Fig. 754

With Single Socket

Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches
\$7.50	\$8.00	\$8.75	7 1/2	8	3

With Two Sockets and 3 Way Switch

8.50	9.00	9.75	7 1/2	8	3
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Berth or Pullman Light

OPAL GLOBE
WITH DOUBLE CONTACT OR STANDARD SCREW SOCKET

TOGGLE SWITCH—CAST BRONZE



Fig. 416

Brush Bronze Finish Each	Nickel Plated Each	Chrom. Plated Each	Globe Only Each	Length Inches	Width Inches	Diam. Globe Inches
\$7.50	\$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 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 bronze.
REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a greater distance than any other projector of its class.

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

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

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

SOCKETS AND BULBS—all sizes of searchlights are furnished with standard screw sockets. Bulbs furnished as standard equipment in various voltages are as follows—6-8 volts, 18 amps.; 12-16 volts, 18 amps.; 32 volt, 8 amps; 120 volts, 250 watt. Can also furnish 32 volt, 400 watt and 120 volts, 400 or 500 watt bulbs for special additional cost.

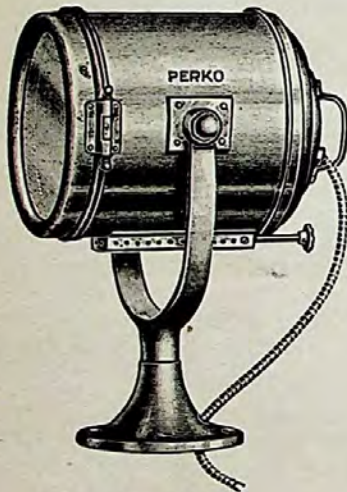


Fig. 480

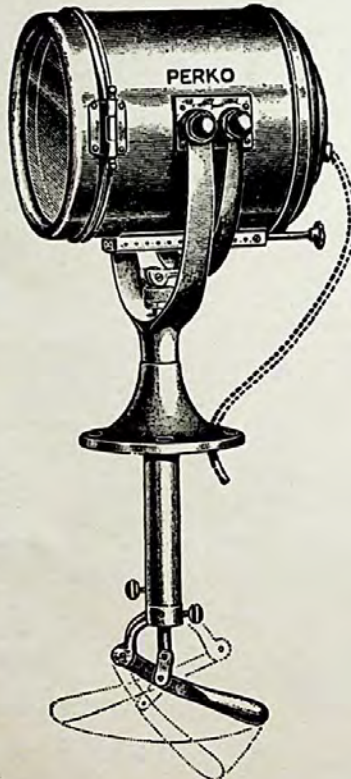


Fig. 297

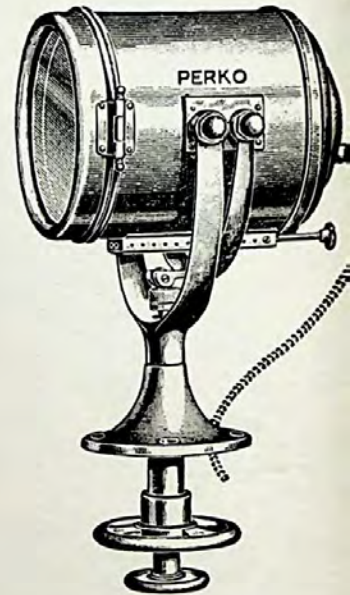


Fig. 529

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Overall Cabin Control Inches	Height Overall Deck Type Inches	Net Weight Cabin Control	Diameter of Base Inches
8	8	up to ¼ mile	350,000	12¾	7%	24	18	31 lbs.	6%
10	10	up to 1 mile	590,000	14¾	9%	28	22	36 lbs.	6%
12	12	up to 1½ miles	700,000	17	11%	30	24	48 lbs.	8½
14	14	up to 2 miles	850,000	19	13½	34	28	56 lbs.	8½

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

"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 volt, double contact, 50 candlepower. For 6 or 12 volt 100 candlepower bulbs, add \$2.00 each. For 32 volt 50 candlepower bulbs, add \$1.00 each. For 32 volt 100 candlepower bulbs, add \$2.50 each.

THESE SEARCHLIGHTS WILL THROW A POWERFUL BEAM UP TO ½ MILE DISTANCE, DEPENDING ON WEATHER CONDITIONS.

Sunbeam

WITH PILOT HOUSE CONTROL

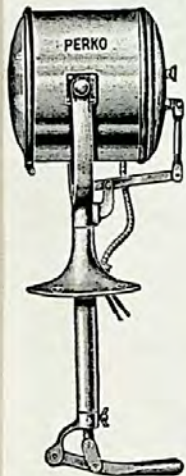


Fig. 306

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
6	6 1/8	21	3 1/2
8	7 7/8	24	5 1/2
10	10	27	5 1/2

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

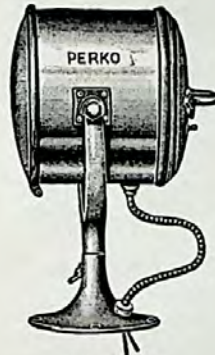


Fig. 305

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
6	6 1/8	11	3 1/2
8	7 7/8	14	5 1/2
10	10	17	5 1/2

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
**8	30.00	33.00	37.00
10	34.00	38.00	42.00

Superbeam

DECK TYPE



Fig. 307

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
8	7 7/8	12 1/2	3 3/4

Size In.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
8	\$18.50	\$20.00	\$21.00

Brightbeam

WITH PILOT HOUSE CONTROL



Fig. 310

Size Inches	Diam. Reflector Inches	Height Overall Inches	Diam. Base Inches
8	7 7/8	23	3 3/4

Size In.	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
8	\$30.00	\$33.00	\$37.00

Superbeam

HAND TYPE

Furnished as illustrated, with wire guard over lens and 10 feet of rubber covered cable.



Fig. 266

Size Inches	Diam. Reflector Inches	Extreme Length Inches
8	7 7/8	9

Pol. Brass Each	Nickel Plated Each	Chrom. Plated Each
\$15.00	\$16.00	\$17.00

Streamline Searchlight

FOR RUNABOUTS AND OUTBOARD MOTOR BOATS



Fig. 548

Diam. Body Inches	Height Overall Inches	Size Base Inches
4 3/4	7 1/2	2 1/2 x 5

Polished Brass Each	Nickel Plated Each	Chromium Plated Each
\$10.00	\$11.50	\$12.50

NOTE—SPECIFY VOLTAGE AND SIZE WHEN ORDERING

"Star" Oil Compasses

WITH DIAMOND POLISHED JEWEL BEARING
IN MAHOGANY BOX



Fig. 487

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

A guaranteed trouble and bubble proof compass.

Trade Size Inches	Exact Diam. Card Inches	Each	Size of Box Inches	Diam. Trunions Inches
2	2 1/8	\$ 7.00	4 3/8	4 1/4
2 1/2	2 3/8	9.00	5 3/8	4 3/4
3	3 1/8	10.50	6 1/4	5 1/4
4	4	16.50	7 1/4	6 3/8
5	4 3/4	21.50	8 1/2	7 1/8

Underlighted Binnacle Compass

WITH SPHERICAL DOME
POLISHED BRASS



Has several exclusive patented features including dynamic card assembly with built in shock arrester that prevents shock and vibration from reaching the compass bearing, resulting in a steadier card and more effective operation in rough waters.

Fig. 989

Diam. Card Inches	Without Compensator Each	With Compensator Each	Height Inches	Diam. Base Inches
5	\$ 90.00	\$110.00	7 1/2	7 1/2
6	100.00	120.00	8 1/2	8 1/2
With Flat Glass—No Dome—Fig. 817				
4	50.00	70.00	5	6 1/2
5	55.00	75.00	6	7 1/2
6	60.00	80.00	6 3/4	8 1/2

For chromium plated finish, add \$12.00 each.

Compass with Bulkhead Bracket

BRONZE BRACKET—DOUBLE SWING

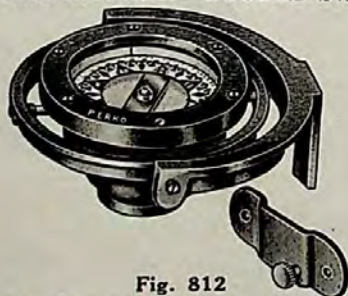


Fig. 812

This is our Fig. 487 oil compass mounted in cast bronze removable bulkhead bracket.

Size Compass Inches	Complete With Compass Each	Brackets Only Complete Each	Wall Plates Only Each
2	\$10.00	\$3.00	\$.40
2 1/2	12.25	3.25	.40
3	14.00	3.50	.40
4	20.25	3.75	.40
5	25.75	4.25	.40

"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 set to none in quality and dependability.

For use on large motor boats, yachts and other going vessels.

Trade Size Inches	Exact Diam. Card Inches	Regular Type Each	Under-lighted Type Each	Mahogany Box Only Each	Diam. Trunions Inches
4	4	\$22.50	\$36.00	\$4.50	6 1/2
5	4 3/4	25.00	38.50	5.00	8
6	5 1/4	28.00	43.00	6.00	9 1/2
7	6 3/4	31.00		7.00	10 1/2
8	7 1/2	38.00		8.00	11 1/2
9	9	48.00		9.00	13 1/2

Prices Above Do Not Include Box

"Star" Spherical Dome Compass

SPIRIT TYPE—UNDERLIGHTED
JEWEL BEARING



Fig. 823

Ideal for modern fast cruisers and speed boats, as spherical dome magnifies the card and provides stability unobtainable in any other way.

The deep dipping dynamic card is super sensitive. The shock arrester is an exclusive feature preventing shock and vibration from reaching the compass bearing.

The compass bearing is non corrosive. An oil pered hand polished pivot and genuine sapphire. Non glare and non shadow underlighting.

Diam. Card Inches	Each	Diam. Trunions Inches	Diam. Gimbals Inches	Height To Trunions Inches
5	\$79.00	7 7/8	6 7/8	3 1/2
6	90.00	9 1/4	8 3/8	3 1/2

"Star" Pathfinder Compasses WITH MAGNETIC COMPENSATOR INDIRECT ILLUMINATION MAGNIFIED DIAL



Bulkhead Type
Fig. 33



Shelf Type
Fig. 34

A highly practical and accurate instrument of light weight and neat appearance. Has a translucent magnified dial with indirect no glare illumination. Built-on magnetic compensator, spherical lens, jeweled bearing and non-vibrating mounting.

Fig.	Each	Diam. Face Inches	Depth Inches	Height Overall Inches	Size Base Inches	Weight Ounces
33	\$8.00	2 1/4	2 1/4	4	3	11
34	8.00	2 1/4	2 1/4	4 1/2	2 3/8	12

Skylight Binnacle BRASS



Fig. 534



Night Hood

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

No.	For Size Compass Inches	Height Overall Inches	Inside Diam. Inches	Diam. Base Inches	Between Compass Supports Inches	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
1	4	11	6 1/2	10	6			
2	5	11 3/4	7 7/8	10	7 3/8			
No.								
1						\$32.00	\$36.00	\$39.00
2						34.00	38.00	41.00

No. 2 size for 5 inch underlighted or dome compass add \$5.00 to above prices, made to order only.

Cruiser Binnacle WROUGHT BRASS—ONE PIECE



Fig. 412

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

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

For Size Compass Inches	Without Compass			With Compass Add Each
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
3	\$13.50	\$14.50	\$15.50	\$ 9.50
4	15.25	16.45	17.75	15.00
5	17.00	18.50	20.00	20.00

Cruiser Binnacle WROUGHT BRASS—TWO PIECE



Fig. 401

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

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

For Size Compass Inches	Without Compass			With Compass Add Each
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
3	\$15.50	\$16.50	\$17.50	\$ 9.50
4	17.25	18.45	19.75	15.00
5	19.00	20.50	22.00	20.00

PRICES ON FIG. 534 DO NOT INCLUDE COMPASS. FOR INFORMATION ON COMPASS REFER TO FIG. 487 AND FIG. 987.

Binnacles

WROUGHT BRASS—TWO PIECE



Fig. 444

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

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

For Size Compass Inches	Without Compass			With Compass Add Each
	Polished Brass Each	Nickel Plated Each	Chromium Plated Each	
3	\$10.00	\$11.00	\$12.00	\$ 9.50
4	12.00	13.20	14.50	15.00
5	14.00	15.50	17.00	20.00

Nickel Silver Dividers



Fig. 693

With adjustable and reversible steel needle points and straightening device.

Length, 6 inches, each\$1.50

Parallel Rules

NATURAL EBONY FINISH



Fig. 686

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

Length Closed Inches	Price Each
12	\$2.50
15	3.00
18	3.50

Improved Course Protractor

INDICATES COURSE AND REVERSE COURSE
TRANSPARENT

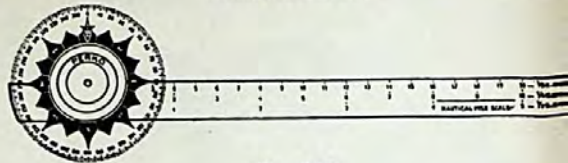


Fig. 706

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

Arm extended on short end to show reverse course. A precision instrument, accurate in detail. Position depths, etc., are clearly visible when covered by protractor.

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

"Director"

AUTOMATIC COURSE FINDER AND PLOTTER

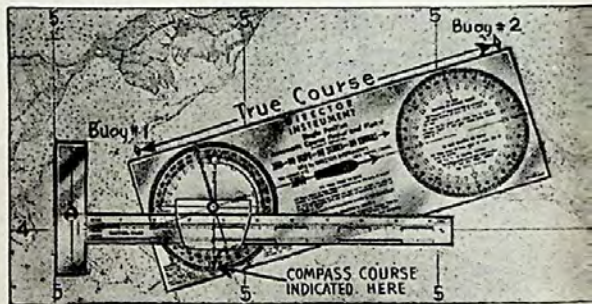


Fig. 696

FAST—ACCURATE—DIRECT

The director has separate pointers for correct variation. Both true and magnetic courses can be read at same time. Also for plotting bearings, positions reverse courses instantly. Courses can be read in po or degrees. No reference to compass rose on chart necessary.

Each	Length Closed Inches	Length Open Inches	Width Inches
\$5.00	12	20	4

String Protractor

TRANSPARENT



Fig. 697

For use where space is limited.

Size, 4x4 inches. Each\$

Mile-O-Meter

ELECTRIC INDICATING FLOW-METER SHOWING CONSUMPTION OF GASOLINE PER HOUR

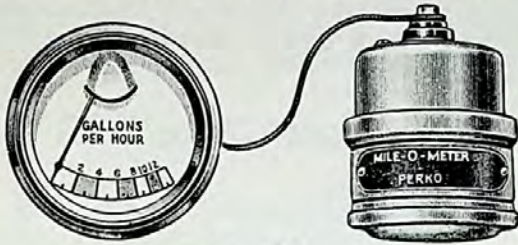


Fig. 694

The MILE-O-METER is a simple little device which is mounted directly onto the carburetor and connects into the fuel line. It meters the gasoline flowing through it and electrically indicates the flow or rate of consumption on the instrument panel in gallons per hour at any speed.

A special feature of its design is an air chamber that absorbs the pulsations from the fuel pump, assuring a steady flow of gasoline through the carburetor and guaranteeing smooth engine performance.

The MILE-O-METER operates on a pressure differential system and is guaranteed to be accurate within 3%.

The fuel chamber is installed in the gasoline line between the fuel pump and the carburetor, the indicator dial alongside the R.P.M. indicator.

Gasoline line connections are 1/4 inch pipe thread, indicator dial size overall is 2 3/8 inches.

GALLONS PER HOUR CAPACITY

	3	7	12	18	24
Each	\$11.45	\$11.45	\$13.45	\$19.50	\$29.50

Yacht Log

CAST BRASS CASE—BLACK FINISH
BRASS ROTATORS—LINEN LINE

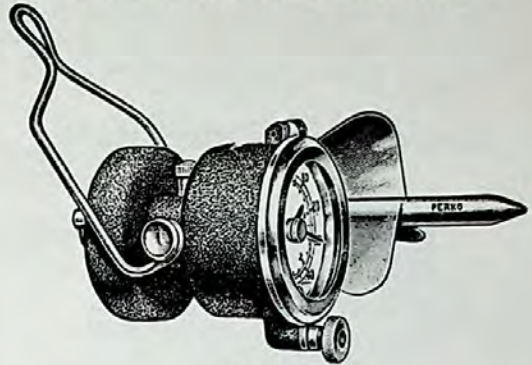


Fig. 695

Built to the highest standard of precision. A watertight cast brass case finished in black crackle and polished brass, with a watertight hinged bezel for easy reset of hands to zero.

Dial is white, vertical reading from cockpit. Numerals and Hands, black registers from 0 to 100 knots; red registers 0 to 5 knots subdivided to 1/4 mile. Will reset to 0.

Works, die cut gears, double ball bearings, governor wheel encased.

Rotators, brass, engineered for accuracy. Line, best linen log line easily attached with bronze hook.

Packed in ample wood box containing log, rotator, line, hook, oil and spare glass, the regular equipment.

Complete Each	Spare Rotator Each	Spare Line Each	Diam. Face Inches	Length Overall Inches
\$40.00	\$5.00	\$2.50	2 1/2	7 1/2

Furnished in statute miles if specified.

Electric Compass Light



Fig. 707

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

Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Height Overall Inches
\$1.75	\$2.00	\$2.25	8

Yacht Log Books

100 PAGES—NEAT PRINTING



Fig. 708

- No. 1 Binding: Imitation leather, pebble finish, star-board green color, gold letters, without gold border. Each\$2.00
- No. 2 Binding: Imitation leather, pebble finish, pilot blue color, gold letters and gold border. Each\$2.50
- No. 3 Binding: Genuine leather, natural light tan color, dark brown lettering and indented border. Each\$7.50

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

Chart Cases



Fig. 372

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

Diam. Inches	Length Inches	Galv. Each	Copper Each
3	36	\$3.60	\$7.00
4	36	4.50	8.00

"PERKO" BRONZE GEAR TYPE PUMPS

NON CORROSIVE BRONZE THROUGHOUT WITH TOBIN BRONZE SHAFTS AND GEARS

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

Single Lower Drive Shaft

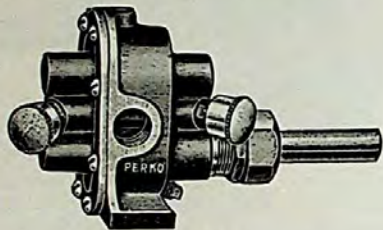


Fig. 684

Single Upper Drive Shaft

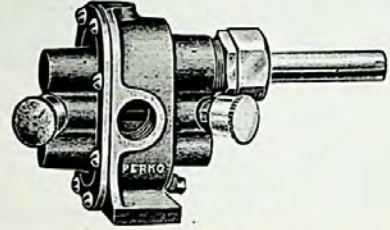


Fig. 682

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

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

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



Pumps with herringbone gears are much quieter in operation than spur gear pumps. They are also more efficient in power consumption.

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

Double Lower Drive Shaft



Fig. 685

Double Upper Drive Shaft

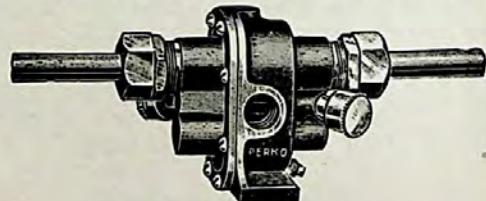


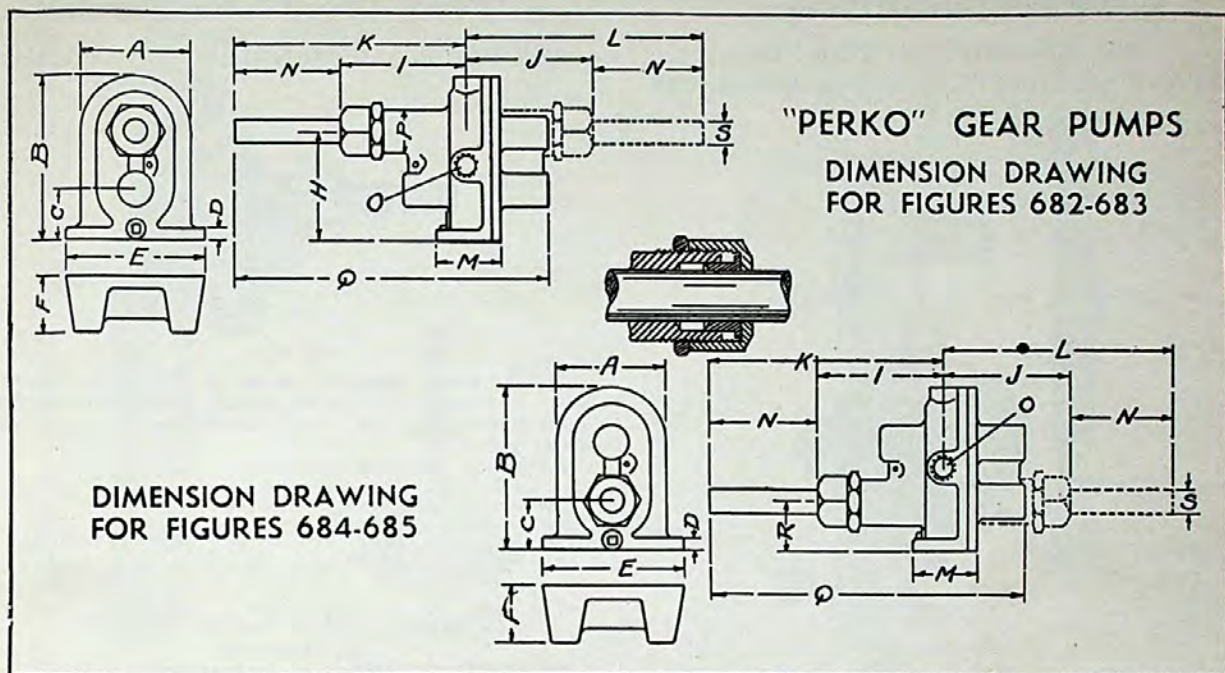
Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	1/4	1/2	4 1/2
3	12.50	15.50	3/8	5/8	6 1/4
4	13.75	17.00	1/2	3/8	6 3/4
7	16.50	21.00	3/4	5/8	9 1/2
9	17.50	22.50	1	5/8	9 3/4

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$11.50	\$13.75	1/4	1/2	4 1/2
3	12.50	15.50	3/8	5/8	6 1/4
4	13.75	17.00	1/2	3/8	6 3/4
7	16.50	21.00	3/4	5/8	9 1/2
9	17.50	22.50	1	5/8	9 3/4

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

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



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

DIMENSION DRAWING
FOR FIGURES 684-685

DIMENSION TABLE FOR "PERKO" GEAR PUMPS

Pump No.	A	B	C	D	E	F	H	I*	J*	K*	L*	M	N	O†	P	Q	R	S
2	2 $\frac{3}{8}$	3 $\frac{1}{2}$	1 $\frac{3}{8}$	$\frac{3}{8}$	2 $\frac{7}{8}$	1 $\frac{1}{16}$	2 $\frac{3}{8}$	2 $\frac{9}{8}$	2 $\frac{9}{8}$	4 $\frac{9}{8}$	4 $\frac{9}{8}$	1 $\frac{1}{16}$	2 $\frac{1}{8}$	$\frac{1}{4}$	1	6 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{1}{2}$
3	2 $\frac{3}{4}$	4	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{16}$	2 $\frac{5}{8}$	2 $\frac{7}{8}$	2 $\frac{7}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{16}$	2 $\frac{1}{2}$	$\frac{3}{8}$	1 $\frac{1}{8}$	6 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
4	2 $\frac{3}{4}$	4	1 $\frac{7}{8}$	$\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{3}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{3}{8}$	2 $\frac{1}{2}$	$\frac{1}{2}$	1 $\frac{1}{8}$	7 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
7	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{3}{8}$	$\frac{1}{4}$	4	1 $\frac{1}{2}$	3 $\frac{3}{8}$	3 $\frac{1}{8}$	3 $\frac{1}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{1}{2}$	2 $\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{8}$	7 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$
9	3 $\frac{1}{4}$	5 $\frac{3}{8}$	2 $\frac{3}{8}$	$\frac{1}{4}$	4	1 $\frac{3}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	3 $\frac{3}{8}$	5 $\frac{3}{8}$	5 $\frac{3}{8}$	1 $\frac{5}{8}$	2 $\frac{1}{2}$	1	1 $\frac{1}{8}$	7 $\frac{5}{8}$	1 $\frac{1}{8}$	$\frac{5}{8}$

Dimensions in inches—Standard Pumps. *From center line of gear. †Briggs standard pipe tap.

CAPACITY TABLE FOR "PERKO" GEAR PUMPS

1200 REVOLUTIONS PER MINUTE

Pump No.	P R E S S U R E									
	0 lb.		20 lb.		40 lb.		60 lb.		80 lb.	
	GPM	HP	GPM	HP	GPM	HP	GPM	HP	GPM	HP
2	3.	$\frac{1}{8}$	2.62	$\frac{1}{8}$	2.25	$\frac{1}{4}$	1.8	$\frac{1}{4}$	1.45	$\frac{1}{8}$
3	5.	$\frac{1}{8}$	4.25	$\frac{1}{4}$	3.7	$\frac{1}{8}$	3.2	$\frac{1}{2}$	2.8	$\frac{3}{4}$
4	7.5	$\frac{1}{4}$	6.3	$\frac{1}{8}$	5.4	$\frac{1}{2}$	4.6	$\frac{3}{4}$	3.8	1
7	13.5	$\frac{1}{2}$	11.5	$\frac{1}{2}$	9.9	$\frac{3}{4}$	8.75	1	7.7	1 $\frac{1}{2}$
9	17.	$\frac{1}{2}$	15.5	$\frac{3}{4}$	14.1	1 $\frac{1}{4}$	12.7	1 $\frac{1}{4}$	11.2	1 $\frac{1}{2}$

1800 REVOLUTIONS PER MINUTE

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

*At 1500 R.P.M.
Gallons per minute flow of clean water—63° F.—no pipe friction.
Motor recommended shown by H. P. indicated.
Head in feet = 2.3 x lbs. pressure.

"Perko" Wing Pumps

DOUBLE ACTION—ALL BRONZE
FOR MARINE, INDUSTRIAL AND DOMESTIC USE

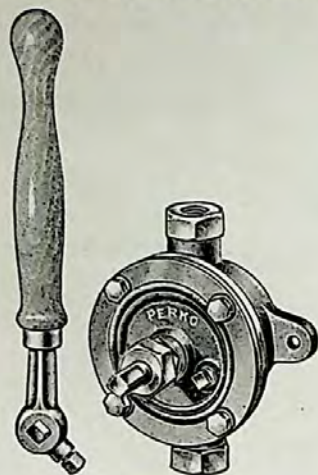


Fig. 681

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

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

EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Price Each	Size Pipe Connection Inches	Overall Diameter of Body Inches	Capacity Per Minute Gallons	Approx. Weight Each
0	\$19.00	1/2	5 1/8	5	11 1/2
1	21.50	3/4	5 3/4	7	14
2	25.00	1	6 3/8	9 3/4	19 1/2

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

"Perko" Ford Gear Pumps

ALL BRONZE
FOR MODEL A FORD MOTOR CONVERSION

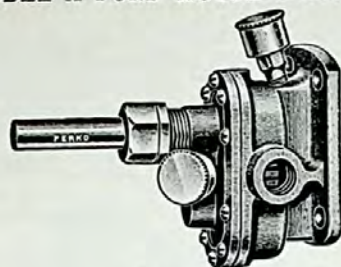


Fig. 530

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

Furnished complete as illustrated.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connections Inches	Diam. Shaft Inches	Weight Pounds
\$12.00	\$15.00	3/8	1/2	4 1/2

"Perko" Star Gear Pump

ALL BRONZE
FOR STAR MARINE MOTOR CONVERSION

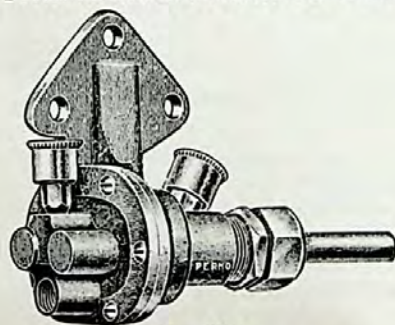


Fig. 804

Has a triangular bracket to fit the intake water manifold on the motor with water passage through bracket.

Furnished complete with grease cups, tobin brass gears and shafts, all bearings machined, all bearings are solid, not soldered.

With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Diameter Drive Shaft Inches	Weight Pounds
\$11.00	\$13.75	3/8	1/2	4 1/2

"PERKO" BRONZE GEAR PUMP PARTS

Pump No.	Size Pipe Con'c'n	Cover Each	Screws Each	Spur Gear Each	Herringbone Gear Each	Body Each	Drive Shaft Each	Metal Pack Gland Each	Lock Nut Each	Pack Nut Each	Idle Gear Shaft Each
2	1/4"	\$1.75	\$.02	\$1.10	\$2.50	\$2.95	\$.85	\$.60	\$.33	\$.60	\$.55
3	3/8"	1.90	.02	1.25	2.85	3.00	.85	.70	.42	.65	.55
4	1/2"	2.30	.02	1.60	3.20	3.55	1.00	.70	.42	.65	.80
7	3/4"	2.65	.02	2.10	5.00	4.40	1.00	.70	.42	.65	.80
9	1"	3.55	.02	2.40	5.60	5.25	1.00	.70	.42	.65	.80

"Champion" Navy Bilge Pump
BRASS CYLINDER—CAST BRONZE PARTS

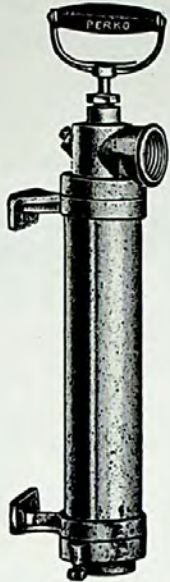


Fig. 1016

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 1½ quarts per stroke.

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$9.25	24	2¾	1¼	1½	½

"Super" Navy Bilge Pump
FOR HOSE OR PIPE

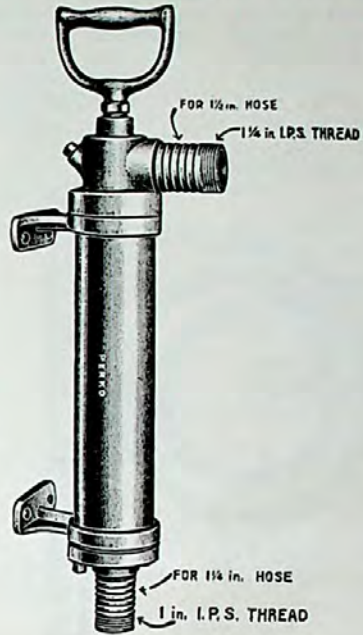


Fig. 701

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 ½ inch plunger rod.

Each	Extreme Length Inches	Inlet Sizes		Outlet Sizes	
		Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$9.25	27	1	1¼	1¼	1½

"Midget" Navy Bilge Pumps
FOR HOSE OR PIPE

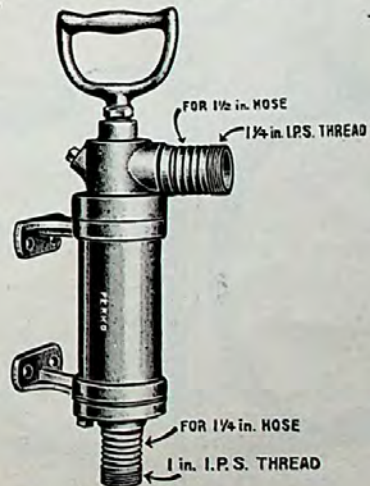


Fig. 702

Our regular pump reduced in length for boats requiring a large capacity pump to be installed where space is limited.

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Sizes		Outlet Sizes	
			Pipe Inches	Hose Inches	Pipe Inches	Hose Inches
\$9.25	18¼	2¾	1	1¼	1¼	1½

Bronze Navy Pump Strainers



Fig. 704



Fig. 705



Fig. 721

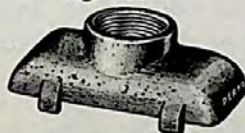


Fig. 722

Fig.	Price Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
721	\$2.00	1¼		5	2¾	1½
722	2.00	1¼		4¾	2¾	1¾
704	2.00	1	1¼	7	2¾	2
705	2.00	1	1¼	4¾	2¾	1½

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.

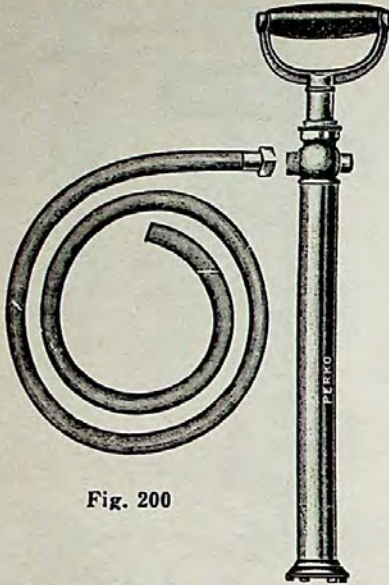


Fig. 200

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$3.75	17½	1½	6	2¼
2	4.65	20	1½	12	3¼
3	5.00	29	1½	8½	3
4	5.75	29	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.

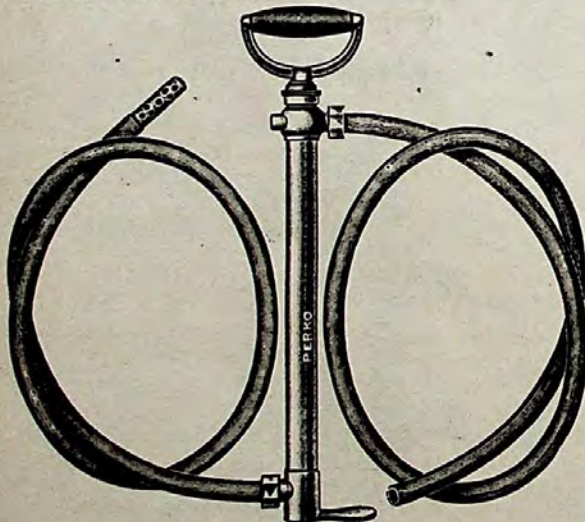


Fig. 202

Nos.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$6.00	18½	1½	6	3
6	7.00	21	1½	12	4
7	7.75	30	1½	8½	3¼
8	9.00	30	1½	16½	5

Brass Bilge Pump

DOUBLE ACTION WITH BULKHEAD BRACKETS

Complete with 2 five foot lengths of hose and suction strainer.

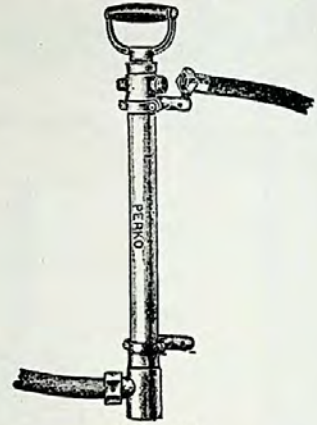


Fig. 524

Nos.	With Hose Each	Height Overall Inches	Diam. Pump Inches	Weight Pounds
11	\$8.00	21	1½	9
12	9.25	31	1½	10

Special Bilge Pump

SINGLE ACTION—ALL BRASS

Designed primarily the small outboard motor boat or runabout.

Well constructed, of brass, furnished complete with 5 feet of moulded rubber hose.

CAPACITY—at ordinary stroke, 3½ gallons per minute.

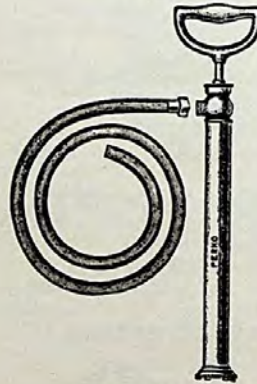


Fig. 723

Complete Each	Extra Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
\$3.00	\$.60	1½	17½	2

Rubber Hose and Strainer

FOR FIG. 200 AND 202 BRASS BILGE PUMPS

Heavy moulded rubber hose durable and lasting. ½ inch inside diameter.



Fig. 208 Fig. 209

Standard 5 ft. lengths Cast Bronze Strainer

Other lengths of hose can be furnished. Price on application.

ALL PUMPS ON THIS PAGE WITHOUT HOSE, DEDUCT \$.25 FOR EACH HOSE.

Trench or Bilge Pump

GALVANIZED

Made of heavy tubing, formed from black steel and hot galvanized afterwards, water-tight and rustproof seams. Galvanized iron valves with oak leather clapper, wood rod and handle, cone shaped oak leather plunger, as per Fig. 239, long lengths are well reinforced with galvanized steel bands around body.

ALSO KNOWN AS CONTRACTOR'S PUMP

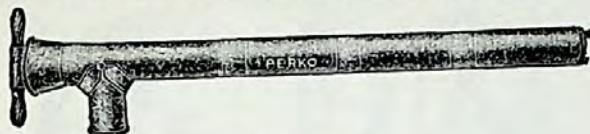


Fig. 156

Diameter, inches	2	2½	3	3½	4
Price per foot	\$.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.

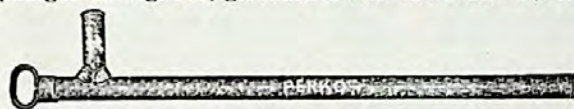


Fig. 158

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.

Heavy Duty Bilge Pumps

SPIRAL LOCK SEAMED BODY

24 B. & S. Gauge Steel, Hot Galvanized After Forming

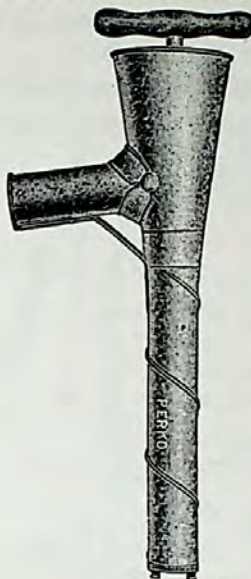


Fig. 724

SOLDERED JOINTS

Galvanized cast iron bottom valve with heavy leather clapper, galvanized steel support for spout rivited to spout and body.

Especially recommend 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.

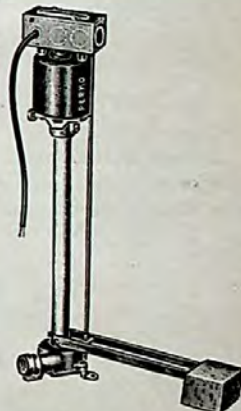
Midget Electric Pumps

AUTOMATIC OR NON AUTOMATIC

BRONZE



Non Automatic Fig. 801



Automatic Fig. 801-A

Ideal for pumping the bilge in small boats. Current consumption as low as boat radio. 6 amps full load at 6 volts.

Automatic pump has large cork float attached to enclosed switch, water level controls action of pump.

Pump unit is rotary type with cast bronze vanes. Capacity is amazing for such a small low powered pump.

Discharge fitting is threaded for ½ inch pipe. 1 inch rubber hose can also be used without the need of a nipple.

Furnished with bronze handle for carrying illustrated on Fig. 801 at small extra charge.

Volts	Fig. 801 Each	Fig. 801-A Each	Extreme Height Inches	Diam. Base Inches	Weight Pounds
6	\$12.50	\$16.50	17½	4	4¼
12	15.00	19.00	17½	4	4¼
32	16.00	20.00	17½	4	4¼

For carrying handle add \$1.00 each. Size of handle inside 3¼x1½ inches.

Basin or Galley Pumps

CAST BRONZE, POLISHED, NICKEL AND CHROMIUM PLATED

With a finished mahogany handle which when all the way down will not pinch the hand against the upright 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.

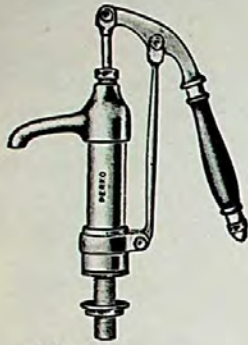


Fig. 473
With High Spout
Straight Base

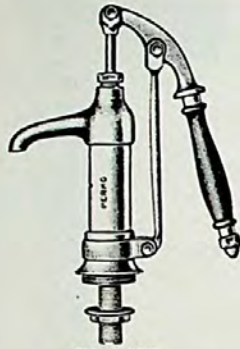


Fig. 478
With High Spout
Flange Base

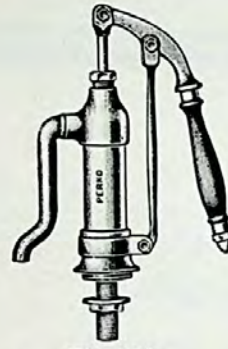


Fig. 474
With Low Spout
Flange Base

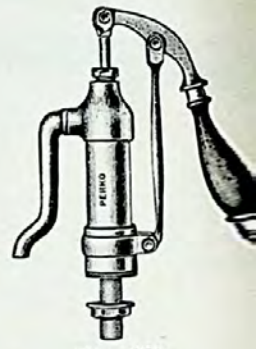


Fig. 479
With Low Spout
Straight Base

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	\$10.00	\$10.75	\$11.75	1 3/8	6	2 1/2	1/2	14	3 1/2
474-479	10.50	11.25	12.50	1 3/8	6	2 1/2	1/2	13	3 3/4

New Basin Pump

WITH METAL LEVER HANDLE

A well made good looking pump with brass ball checks in plunger and at the bottom or intake. Adjustable handle for operating from most convenient position.

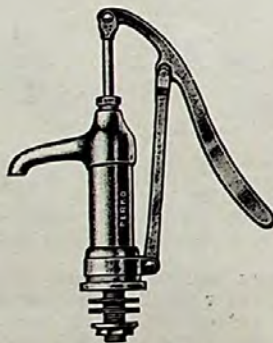


Fig. 467

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.

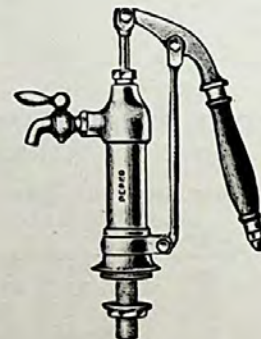


Fig. 525

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 3/8	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	
\$8.00		\$8.50		\$9.75		\$12.00		\$13.00		\$14.00	

Tail Pieces for above pumps for attaching hose or lead pipe see Figs. 67 and 68.

Marvel Basin Pumps

ALL BRONZE

Designed for beauty as well as simplicity, just as attractive as the water fittings in the modern home. Furnished with brass ball checks in plunger and at bottom or intake.

Length of stroke is 5 1/4 inches.

Inlet is threaded for 3/8 inch pipe.

Capacity per minute, Low Speed Stroke—3 Gallons.

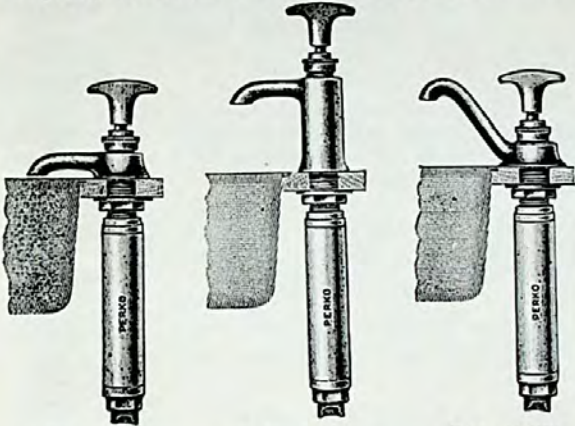


Fig. 144
Low Spout

Fig. 145
High Spout

Fig. 1040
Gooseneck Spout

Fig.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds
144	1 1/2	13 1/2	3	0	3
145	1 1/2	16 1/2	3	3	3 1/2
1040	1 1/2	14 1/2	4 1/2	3	3 1/2

Fig.	Exposed Parts Only		
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
144	\$6.75	\$7.25	\$8.00
145	7.75	8.50	9.25
1040	7.25	7.75	8.75

Double Action Basin Pump

ALL BRONZE

With double tubing and brass ball checks in plunger and bottom intake. Furnished with solid flange or clamp flange.

Capacity per minute, Low Speed Stroke—3 1/2 Gallons.



With Solid Flange
Fig. 373

With Clamp Flange
Fig. 374

Fig.	Diam. Barrel Inches	Length Up To Spout Inches	Projection Spout Inches	Inlet Pipe Thread Inches	Diam. Flange Inches	Weight Pounds
373	1 1/8	13 1/2	4 1/4	3/8	2 1/2	2 3/4
374						

Fig.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
373	\$4.00	\$4.50	\$5.25
374	4.50	5.00	5.75

New Angle Galley Pump

DOUBLE ACTION—ALL BRONZE

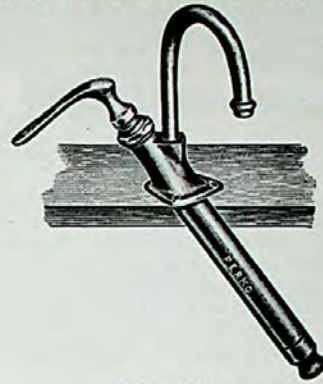


Fig. 677

Angle toward user when installed permits easy effortless operation.

Spout swivels to various positions.

Bottom valve is an improved type to hold prime.

Polished Bronze Each	Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
\$4.75	\$5.00	3/8	4	4 1/4	2 1/4

Cruiser Basin Pump

ALL BRONZE

With brass ball checks in plunger and bottom intake. Threaded for 1/2 inch pipe, neck is 2 1/4 inches long, weight, 3 pounds.



Fig. 495

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Diam. Barrel Inches	Height to Spout Inches	Projection of Spout Inches
\$6.00	\$6.50	\$7.50	1 1/8	5	2 1/4

Galley Supply Pump

DOUBLE ACTION—ALL BRASS

A large capacity pump ideal for galley use, complete with bulkhead brackets and tail pieces for attaching hose or lead pipe. Brass ball checks in plunger and intake. Threaded for 1/2 inch pipe.



Fig. 345

No.	Diam. Barrel Inches	Length Overall Inches
9	1 1/2	21
10	1 1/2	31

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
9	\$6.25	\$7.25	\$ 9.75
10	7.75	8.75	11.25

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



Fig. 146

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

Length Pump Overall Inches	Length Inlet Spout Inches	Length Outlet Spout Inches	Diameter Pump Inches	Weight Pounds
17 1/2	12 1/2	1 3/4	1 1/8	2 1/2
Complete Each	Without Spout Each	Spout Only Each	Rubber Hose Per Foot	
\$4.00	\$3.25	\$1.90	\$.20	

Rubber hose not furnished as standard equipment.

Crank Case Pump
DOUBLE ACTION—ALL BRASS



Fig. 1029

This pump is equipped with a cast bronze intake spout for rubber hose. 12 inches of 3/8 inch hose is included.

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

Complete Each	Without Spout Each	Spout Only Each	Extra Hose Per Foot
\$4.00	\$3.25	\$1.00	\$.20

Crank Case Pump
SINGLE ACTION—ALL BRASS



Fig. 388

Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Each Pounds	Complete Each	Without Spout Each
1 1/2	12	15 1/2	2	\$3.00	\$2.50

Extra Spouts—Each \$1.10.

Bulkhead Bracket

FOR BASIN PUMPS—CAST BRONZE



Fig. 475

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

Flexible Couplings
DIE CAST WHITE BRASS

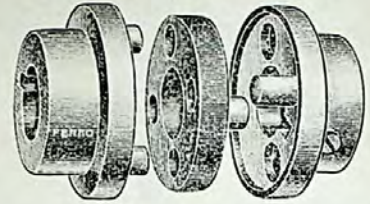


Fig. 687

Die cast under tremendous pressure, a heavy lead disc, 5/16" thick with two inserts on each side finished complete with set screws. 5/8 and larger keyway and set screws.

No.	Price Each	Bore Inches	Length Inches	Outside Diameter Inches
1	\$1.00	3/8 and 1/2	1 1/8	1 7/8
2	1.50	3/8 to 3/4	1 3/8	2 1/8

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

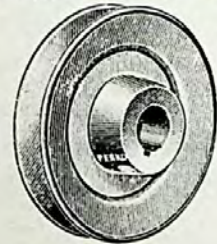


Fig. 688

No.	Price Each	Outside Diameter Inches	Bores Inches	Runn Diam. Inch
1	\$1.00	3	3/8 to 3/4	2 1/2
2	1.50	4	1/2 to 3/4	3 1/2
3	2.00	5	1/2 to 3/4	4 1/2

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 of light weight yet practically indestructible.

No.	Each	Height Inches	Inside Diam. Inches	Pipe Thread Inches	Capac. 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 1/4	1 1/4	1/8	3/8

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		Fig. 550	
For Pump Size No.	Each	For Pump Size No.	Each
0	\$.90	5	\$1.30
1	1.00	6	1.60
2	1.30	7	1.30
3	1.00	8	1.60
4	1.30		

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

Weighted Clapper Valves

FOR NAVY BILGE PUMPS AND BASIN PUMPS



Fig. 147



Fig. 148

Fig. 147—Valve for Navy Bilge Pumps \$.80
 Fig. 148—Valve for Basin Pumps60

Pump Valve



Fig. 237

Galvanized iron with oak leather clapper, galvanized iron weights on both sides of leather riveted together and screwed to casting.

Diameter, inches	1½	2	2½	3	3½	4
Wgt. per doz., lbs.	3	4	6	7	9	11
Price per doz.	2.75	2.75	2.75	3.00	4.00	4.50

Improved Plunger

Malleable iron stem threaded to cast iron wheel to support oak leather disc plunger.



Fig. 238

Diam. Inches	Weight Per Dozen		Price Per Dozen
	Lbs.		
1½	2½		\$2.75
2	3		2.75
2½	4½		3.00
3	6		3.25

Leather Plungers

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Weight Per Dozen		Price Per Dozen
	Lbs.		
2	2		\$2.75
2½	2½		2.75
3	3		3.00
3½	3½		3.60
4	4		4.00

Wood Pump Handles

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



Fig. 230

Diam. of hole, in. ⅞ 1¼
 Price per doz. \$1.44 \$1.92

Wood Pump Rods

Pointed on one end.



Fig. 231

Diam., inches ⅞ 1¼
 Lengths, ft. 2 to 6 6 to 12
 Price per ft. \$.08 \$1.10

NOTE—⅞ inch only furnished in 6 inch multiples.
 1¼ inch only furnished in 12 inch multiples.

Plunger for Navy Bilge Pumps

ALL BRASS



Fig. 108

This style plunger assembly used on all "Perko" navy type bilge pumps. All cast bronze handle with "man size" grip. The brass vertical rod is ½ inch diameter. The plunger itself consists of a bronze casting with ¼ inch self lubricated flax packing set in a groove. This packing is far superior to leather and with ordinary use will give fine results for years, yet it is very easy to replace.

For cylinder—2¼ inches inside diameter. Each, complete \$4.20

Paint Scraper Set

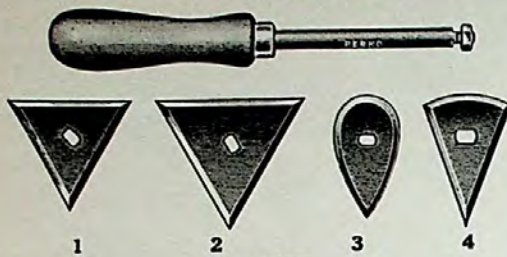


Fig. 1015

Per Set—\$1.50

Set consists of handle with 4 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular—2½x2½ inches.

No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval—2½x1¼ inches.

No. 4 Blade, Curved Top, Triangle—2¼x1¼ inches.

Length Handle—8½ inches.

Paint Scrapers



Triangular
Figs. 625 and 626

Oval
Fig. 918

Fig.	Complete Per Doz.	Blades Only Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Pounds
625	\$ 6.60	\$3.00	2 x 2	6	2½
626	10.80	3.60	2¾x2¾	9½	5
918	6.60	3.80	2½x1½	6	2¾

Ship Scrapers

TEMPERED STEEL BLADES



Fig. 920

No.	Size Blade Inches	Each	Blades Only Each	Handles Only Each	Length Inches
1	4½x¼	\$1.75	\$.80	\$1.00	17
2	4½x½	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	5½	2½	4½
1	7.25	1/8	5¾	2¾	5¼

Marlin Spikes

POLISHED STEEL FOR WIRE ROPE



Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$20.50	6
10	26.00	10
12	32.00	12¾
14	37.00	16½
16	43.00	25
18	49.00	30

FOR MANILA ROPE



Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$ 8.00	5¾
8	9.25	7½
10	10.50	12
12	12.00	17
14	16.00	23½
16	19.50	27
18	23.50	34¾

Hand Fids

MAPLE



Fig. 923

For use in splicing ropes and light flexible cables; a rounded end for hand use; varnished finish.

No.	Per Dozen	Size in Inches
0	\$ 5.45	12x
1	6.50	14x
2	7.25	16x
3	8.20	18x
4	16.25	20x
5	21.50	24x

Caulking Mallets

LOCUST HANDLES

Mallet Head, 15 inches long; 1½ inch diameter.

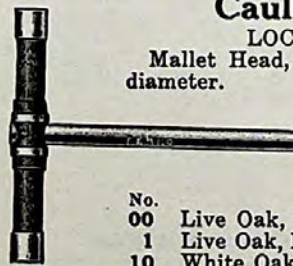


Fig. 924

No.	Material	Price
00	Live Oak, Tempered Steel Rings	\$4.00
1	Live Oak, Polished Steel Rings	3.00
10	White Oak, Varnished Iron Rings	2.00

Caulking Irons

DROP FORGED STEEL



Fig. 925

No.	Per Dozen	Thickness Inches	Length Inches	Weight
0	\$11.50	1/8	5 5/8	2 1/2
1	12.00	1/8	6 1/8	2 1/2

"Perko" Zinc Marine Oilers

BRASS BOTTOM

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

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

PRICE PER GROSS

No.	3	\$67.00
4	\$84.00	

EXTRA SPOUTS

No.	3	4 inch	\$19.00
4	6 inch	21.50	

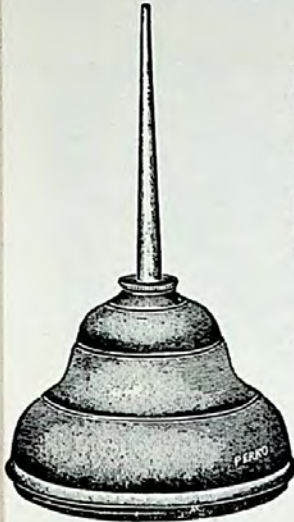


Fig. 326

Gasoline Funnels

GALVANIZED—FOR OUTBOARD MOTORS AND RUNABOUTS



Fig. 81

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

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
1	\$.80	8	8½	½
2	.95	9½	9¾	1

Offset Gasoline Funnel

GALVANIZED



Fig. 83

Fine for outboard motors and gasoline fillers hard to get at.

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

No.	Each	Diam. Top Inches	Height Inches	Capacity Gallons
3	\$2.20	9½	9¾	1

Signal Torch

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 \$4.00

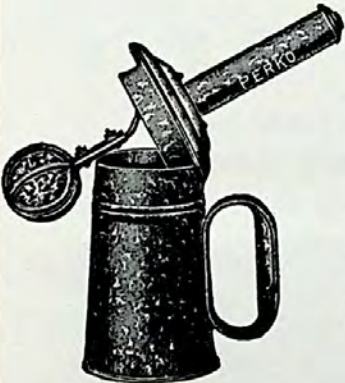


Fig. 177

Pitch Payers



Fig. 178

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

Diam. Inches	Length Body Inches	Length Overall Inches	Weight Lbs.	Price Each
7	13	20	1½	\$2.50

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

Corner Lavatory

WHITE VITREOUS CHINA

With chromium plated low spout pump, Fig. 479



Fig. 830

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

No.	Complete with Pump Each	Complete Except Pump Each	Size of Sides Inches	Diam. of Basin Inches	Height Back Inches
1	\$30.00	\$19.00	12x12	10	2 1/2
2	35.00	24.00	14x14	11	2 1/2

Furnished with chromium plated compression faucet if desired, add \$3.50 to price of lavatory without pump.

Folding Lavatories

VITREOUS ENAMELED ENTIRELY
CHROMIUM PLATED PUMP AND FITTINGS

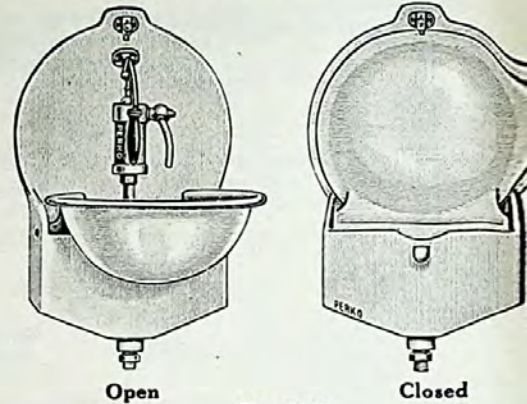


Fig. 732

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

Also furnished with compression type spring pump instead of pump.

Complete assembly weighs 42 pounds.

With Faucet Each	With Pump Each	Height Inches	Width Inches	Projection When Open Inches	Diam. Basin Inches
\$32.00	\$36.00	20	13 3/4	14	10

Flat Back Lavatory

With Chromium Plated low spout compression faucet



Fig. 831

No.	Complete with Faucet Each	Complete Except Faucet Each	Size Inches	Diam. of Basin Inches	Height Back Inches
3	\$19.50	\$16.00	12x12	10	2 1/2

Flat Back Lavatory

WHITE VITREOUS CHINA

With Chromium Plated high spout pump, Fig. 479



Fig. 832

With integral back and round basin. Complete chromium plated waste plug, chainstay, chain and stopper. Size of outlet 1 1/4 inch outside diameter to pump 1/2 inch inside diameter.

No.	Complete with Pump Each	Complete Except Pump Each	Size Inches	Diam. of Basin Inches
4	\$29.00	\$18.50	14x14	11

For detailed information on various types of basin and galley pumps see page 72-73.

Cast Iron Lavatory

PORCELAIN ENAMELED—WHITE

THE "BYRD"

With Chromium Plated gooseneck spout pump, Fig. 1040



Fig. 335

White enameled iron lavatory without overflow.

Furnished complete with waste plug, chain stay, chain and rubber stopper, also screws and washers for mounting.

Complete Except Pump Each	Complete with Pump Each	Size Inches	Diam. of Basin Inches	Height Back Inches
\$10.00	\$18.75	12x12	10½	2

Pressed Steel Corner Lavatory

PORCELAIN ENAMELED—WHITE

For small cruisers or sail boats where space is limited.

Has 1½ inch diameter hole in shelf for faucet or pump.

Complete with chromium plated tail piece and rubber drain plug.



Fig. 404

Each	Size Bowl Inches	Depth Inches	Outside Dimensions Inches	Tall Piece Inches	Weight Pounds
\$4.75	9x7¼	4⅞	12x11	1¼	3

Galley Sink

PRESSED STEEL—PORCELAIN ENAMELED WHITE



Fig. 402

With flat rim and chromium plated combination sink drain and stopper in one unit, 1½ inch tail piece.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inches	Wt. Lbs.
1	\$4.75	10 x12	11½x13½	4¾	3
2	4.80	10½x16	12¾x18	4¾	4
3	5.75	11½x17¼	14 x20	4½	5
4	7.25	14 x21½	16¼x24	4½	7

Pressed Steel Lavatory

PORCELAIN ENAMELED—WHITE

WITH BRACKETS FOR MOUNTING

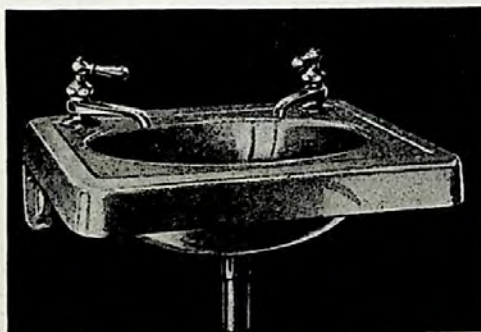


Fig. 336

Pressed in one piece out of 18 gauge ingot iron, finished in 3 coats of porcelain enamel, an exclusive process. The underside is also enameled so that its attractiveness is not lessened when fully exposed.

Each	Outside Measurements Inches	Oval Size Basin Inches	Inside Depth Inches	Weight Pounds
\$8.50	14x16½	9½x12¾	4¾	11

Price includes brackets, Tailpiece and Plug.

Price does not include Faucets—can be used with Pumps shown on pages 72 and 73.

Galley Sinks

CAST IRON—PORCELAIN ENAMELED INSIDE



Fig. 833

With flat rim and 1 inch flange, complete with chromium plated brass plug type strainer and rubber stopper. Connections for 1½ inch lead pipe, 2 inch outlet in sink.

No.	Each	Width Overall Inches	Length Overall Inches	Depth Inside Inches
1	\$ 6.50	12	12	6
2	7.50	12	18	6
3	8.50	14	20	6
4	10.30	16	24	6

"PERKO" MARINE CLOSETS

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

BOWL is of rim flushing type and of latest design to eliminate loose pipe connections where supply pipe connected to it.

PUMP for supply and discharge is 2½ inch with felt packed piston. Length of stroke 3½ inches.

VALVES, waste valve contains leather clack washers. A combination supply and check valve.

WASTE ARM has ¾ inch pipe size clean out opening ample to allow cleaning out of foreign matter or quick draining when hauling out.

OUTLET is full size 1½ inch opening with 2 inch pipe size coupling nut.

INLET is full size ¾ inch opening with 1 inch pipe size coupling nut.

SEAT AND COVER in two styles, closed front as illustrated or open front.

The Yachtsman

The Seaman

The Boatman

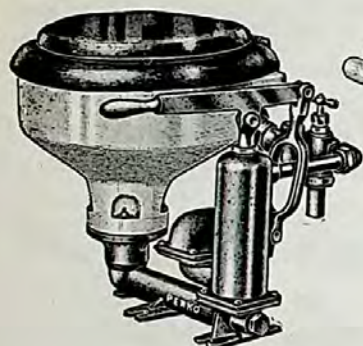


Fig. 828



Fig. 829



Fig. 1026

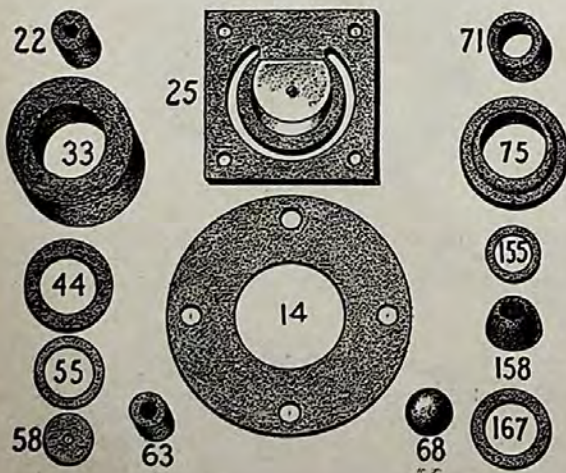
Fig. 828		Fig. 829		Fig. 1026	
With Mahogany Seat and Cover Each	With White Seat and Cover Each	With Mahogany Seat and Cover Each	With White Seat and Cover Each	With Mahogany Seat and Cover Each	With White Seat and Cover Each
\$40.00	\$42.50	\$45.00	\$47.50	\$42.00	\$44.50

With open front seat and cover add for mahogany \$1.00 each. White \$2.50 each, to mahogany prices.

Mahogany Seat and Cover Only Each	White Seat and Cover Only Each	White Vitreous China Bowls Only Each	Overall Width Side to Side Inches	Overall Width Front to Back Inches	Overall Height Inches
\$4.75	\$6.00	\$13.00	17½	16	14¼

Open front seat and cover only, mahogany \$5.75 each. White \$6.00 each.

Furnished with pump on right or left hand side. Right hand facing furnished unless otherwise specified. Specify finish of seat and whether closed front or open front types.



Repair Parts for "Perko" Closet

Repair kits for 828 and 1026 consisting of parts 14 to 75 inclusive..... Each \$3

Repair kits for 829 consisting of all parts No. 14 167 inclusive Each \$3

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

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 3/8	1 oz.
3/8	.75	2 3/8	3 oz.
1/2	.90	2 3/4	4 oz.
3/4	1.00	2 7/8	8
1	1.25	2 3/4	12
1 1/4	1.75	3	1 1/2 lbs.
1 1/2	2.50	3 3/8	2 1/4
2	3.00	3 1/2	2 1/2
2 1/2	5.00	3 3/4	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.

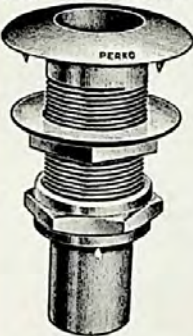


Fig. 64

Size Pipe Inches	Without Strainer Each	With Strainer Each	For Planking Inches	Weight
1/4	\$1.15	\$1.40	7/8	2 oz.
3/8	1.25	1.50	1 1/8	4 oz.
1/2	1.40	1.70	1 1/8	7 oz.
3/4	1.65	2.00	1 1/8	10
1	2.00	2.45	1 3/4	1 lb.
1 1/4	2.75	3.25	1 3/4	2
1 1/2	3.75	4.35	2 1/4	2 3/4
2	5.00	5.65	2 1/2	3 3/4

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
1/4	\$1.25	2 1/4	2 1/2 x 3 1/2	11 oz.
3/8	1.50	2 3/8	3 x 4	14 oz.
1	2.00	3	3 x 4	1 1/4 lbs.
1 1/4	2.50	3 3/8	3 3/8 x 4 1/2	1 1/2 lbs.
1 1/2	3.00	3 3/4	4 1/4 x 6 1/4	2 1/2 lbs.

Scoop Strainers

CAST BRONZE

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



Fig. 66

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

Round Strainers

PLAIN CAST BRONZE



Fig. 86

Diam. Inches	Price Each	Depth Inches	Weight Each
2 1/2	\$.30	1/2	2 oz.
3	.35	5/8	4 oz.
3 1/2	.45	3/4	5 oz.
4	.50	3/4	6 oz.
5	.75	1	12 oz.
6	1.00	1 1/4	1 lb.
8	2.00	1 3/4	2 lbs.
10	4.00	1 3/4	3 lbs.

Bronze Sea Cocks

WITH DRAIN PLUGS—ROUND WAY



Fig. 835



Fig. 834

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

Angle Sea Cocks

CAST BRONZE

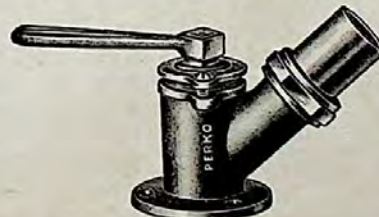


Fig. 836

Heavy cast bronze handle.

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

Size Inches	Weight Each Pounds	Without Strainer Each	With Strainer Each
3/4	2	\$3.60	\$3.95
1 1/2	4	6.60	7.20

Angle sea cocks will not accommodate through hull connections.

Round Portlights

Round Frames for Portlight Glass

GALVANIZED IRON AND CAST BRONZE
NEW STYLE—IMPROVED
GLASS AREA IS SAME DIAMETER AS OPENING

CAST BRONZE

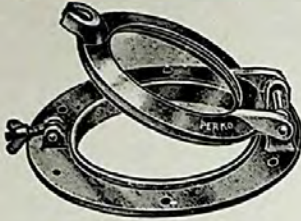


Fig. 317

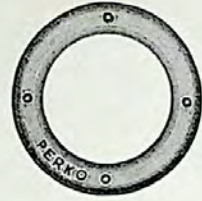


Fig. 71

Diam. Opening Inches	Galv. Each	Plain Bronze Each	Pol. Bronze Each	Diam. Glass in Clear Inches	Diam. Frame Inches	Thickness of Glass Inches	Inside Diam.	Outside Diam.	Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chro. Pl. Each
3	\$2.75	\$3.00	\$5.00	3	6 5/8	1/4	3 7/8	5 3/4	\$.55	\$1.00	\$1.40	\$
4	3.00	3.25	6.00	4	7 3/8	1/4	4 3/8	6 1/4	.60	1.10	1.50	
5	3.75	4.50	7.25	5	8 3/4	3/8	4 7/8	6 3/4	.65	1.25	1.75	
6	4.50	5.25	8.00	6	9 3/4	3/8	5 1/4	7 1/4	.70	1.50	2.10	
7	6.25	7.00	10.00	7	11	1/2	5 3/4	8	1.00	1.85	2.45	
8	7.75	8.50	12.50	8	12 1/4	1/2	6 1/4	8 1/2	1.30	2.25	2.85	
9	10.25	11.50	16.50	9	14 3/8	1/2	7 1/4	9 3/4	1.65	2.75	3.45	
10	12.50	14.00	20.00	10	14 7/8	1/2	8 1/4	11 1/4	2.00	3.25	4.00	
12	19.00	21.00	30.00	12	17 1/8	1/2	9 1/4	12 1/4	2.50	3.75	4.75	
							10 1/4	13 1/4	3.00	5.00	6.00	

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

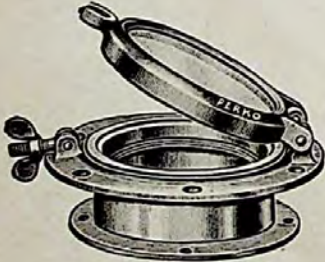
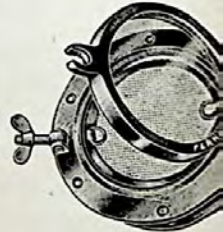


Fig. 157

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.
Diameter frame up to 8 inch, add 3 inches. 9 to 12 inch, add 4 inches.

Without outside finishing ring, deduct from above prices the following:

	4 Inch	5 Inch	6 Inch	7 Inch	8 Inch	9 Inch	10 Inch	12 Inch
Plain	\$.45	\$.55	\$.65	\$.80	\$1.00	\$1.50	\$2.00	\$2.50
Polished	.60	.75	.85	1.10	1.35	2.00	2.75	3.25

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Oval Portlights

INSIDE PATTERN—WITH DEEP COLLAR

CAST BRONZE

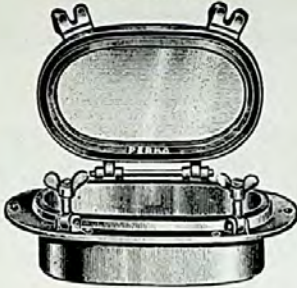


Fig. 907

COMPLETE WITH OUTSIDE FINISHING RING

PLAIN BRONZE

Size Opening Inches	For Thickness of Wood	
	1 1/4 Inch Each	2 Inch Each
4 x 7	\$10.00	\$11.00
5 x 9	12.50	14.00
6 3/4 x 12	18.00	21.00

POLISHED BRONZE

Size Opening Inches	For Thickness of Wood	
	1 1/4 Inch Each	2 Inch Each
4 x 7	\$13.00	\$14.00
5 x 9	16.00	17.50
6 3/4 x 12	23.00	26.00

WITHOUT OUTSIDE FINISHING RING DEDUCT FROM ABOVE

Size	Plain	Polished
4 x 7	\$.50	\$.75
5 x 9	.75	1.25
6 3/4 x 12	1.00	1.50

Galvanized Inside Portlights

CAST IRON—WITH FINISHING RING

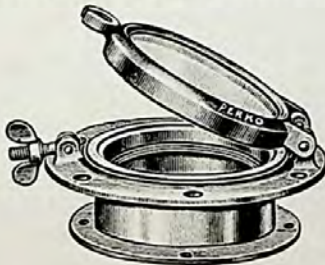


Fig. 265

Opening Inches	For Thickness of Wood		
	1 1/4 Inch Each	2 Inch Each	2 1/2 Inch Each
5	\$4.50	\$4.65	\$4.80
6	5.50	5.75	5.90
7	7.25	7.55	7.75
8	9.25	9.65	9.90

WITHOUT OUTSIDE FINISHING RING DEDUCT FROM ABOVE

5 Inch Size Each	6 Inch Size Each	7 Inch Size Each	8 Inch Size Each
\$.50	\$.50	\$.75	\$.75

Lightweight Portlights

CAST BRONZE
GLASS AREA IS SAME DIAMETER AS OPENING



Fig. 795

These are made primarily for small cabin cruisers and cabin sailboats where space and weight are important factors.

Diam. Opening Inches	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Bronze Each	Outside Diam. Inches	Thickness of Glass Inches	Weight Pounds
4	\$2.75	\$ 4.75	\$ 6.75	7	3/16	3 1/4
5	3.50	5.75	8.00	8	3/16	3 1/2
6	4.50	6.75	9.75	9 1/4	3/16	4
7	6.00	8.50	12.25	10 3/8	3/16	5
8	7.25	10.50	14.50	11 1/4	3/16	7

All sizes are recessed for screens.
For screens see Fig. 434.

Marine Cabin Windows

CAST BRONZE—WATERTIGHT

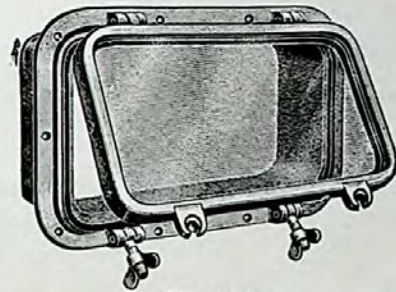


Fig. 796

These cabin windows are fitted with push-in type screens which can be left in position when window is closed. Complete with finishing rings.

Size Glass in Clear Inches	With 2 Fastenings		With 4 Fastenings	
	Plain Bronze Each	Polished Bronze Each	Plain Bronze Each	Polished Bronze Each
5x12	\$17.50	\$24.25	\$20.00	\$27.75
7x14	21.75	29.50	24.75	33.50
8x18	30.00	41.50		
7x21	33.50	46.50		
8x21	35.00	48.50		
10x21	45.00	60.00		
12x21	55.00	72.50		

Without Finishing Rings, Deduct From Above

Size	Plain	Polished	Plain	Polished
5x12	1.50	2.25	1.50	2.25
7x14	1.75	2.50	1.75	2.50
8x18	2.50	4.00		
7x21	2.75	4.25		
8x21	3.00	4.50		
10x21	4.00	6.00		
12x21	6.00	9.00		

Opening Inches	With Screen in Place		Width Flange Inches	Outside of Flange Inches	Outside of Spigot Inches	Length of Spigot Inches
	Without Screen	With Screen				
5x12	5 1/4 x 12 1/4	1 1/8	7 3/4 x 14 3/4	5 1/2 x 12 1/2	2 1/4	
7x14	7 1/4 x 14 1/4	1 1/4	10 x 17	7 1/2 x 14 1/2	2 1/4	
8x18	8 1/4 x 18 1/4	1 3/8	11 1/4 x 21 1/4	8 1/2 x 18 1/2	2 1/4	
7x21	7 1/4 x 21 1/4	1 3/8	10 1/4 x 24 1/4	7 1/2 x 21 1/2	2 1/4	
8x21	8 1/4 x 21 1/4	1 3/8	11 1/4 x 24 1/4	8 1/2 x 21 1/2	2 1/4	
10x21	10 1/4 x 21 1/4	1 3/8	13 1/4 x 24 1/4	10 1/2 x 21 1/2	2 1/4	
12x21	12 1/4 x 21 1/4	1 3/8	15 1/4 x 24 1/4	12 1/2 x 21 1/2	2 1/4	

Thickness of glass 1/4 inch.

With longer spigots, price on application.

Specify plain or polished, with or without rings.

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Air Scoops for Portlights

GALVANIZED OR POLISHED BRASS
WITH OR WITHOUT SCREENS



Fig. 153

Open- ing of Port- light 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	\$1.50
5 x 9	1.75
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 1/4 inch to above sizes.

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

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	Polish Brass Each
1/4	\$.10	\$.20	1/2	\$.25	\$.40
5/16	.10	.20	5/8	.30	.50
3/8	.10	.20	3/4	.30	.50
7/8	.20	.35			

Rubber for Portlights



Fig. 461

Size	Per F
1/4 inch square	\$.
1/8 inch square	..
3/8 inch square	..

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 3/8	\$2.75	\$3.75	3/8	5 1/4
4 1/8	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

Clothes Hammocks

PULLMAN BERTH TYPE—GREEN



Fig. 566

The same type as used in Pullman sleeping cars. have many uses in a boat. Length overall, 66 in.

Price Each

"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 ALCOHOL STOVES FIGS. 714 AND 1014



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	\$1.50	2 3/4	6 3/4	1 7/8
3	1.75	3 1/8	7 1/2	3 1/2
3 1/2	2.00	3 1 1/8	8 3/8	4
4	2.25	4 3/8	9 1/4	5 3/8
4 1/2	2.50	4 1 1/8	10	6 1/2
5	2.75	5 3/8	10 1/2	7
5 1/2	3.50	5 1 1/8	11	9
6	4.00	6 1/8	11 1/4	9 5/8
7	5.00	7 3/8	13	11
8	7.00	8 1/8	14 3/8	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

Size Inches	Price Each Fig. 67	Price Each Fig. 78	Weight Each
3/4	\$.65	\$1.00	5 oz.
1	.75	1.40	6 oz.
1 1/4	1.25	1.75	8 oz.
1 1/2	1.25	2.00	1 lb.
2	2.00	2.75	1 1/2 lbs.

PERKO ALCOHOL STOVES

THOROUGHLY INSPECTED AND PASSED FOR INSURANCE PURPOSES
 BAKED OPALESCENT SILVER FINISH—ALCOHOL RESISTING

CONSTRUCTION of heavy gauge lead coated sheet steel, double seamed and riveted at all joints, heavy bead around all edges.

THESE STOVES use high grade denatured alcohol which is a safe dependable fuel and can be obtained anywhere at small cost.

THE BURNERS are cast bronze and give a clear blue flame not disturbed by vibration or rough seas. The burners have rectangular flame openings which permits flame to cover the entire bottom of a pot or pan.

TOP OF STOVE is enclosed on three sides, an exclusive feature protects burners from draft and overheat from pot cannot run down the back or sides.

NEEDLE VALVES are improved and allow precise flame adjustment and stems have bakelite ferrules to prevent burnt fingers.

TUBING CONNECTIONS are flared type, non leakable.

TRAY is removable and of ample size and depth.

FULL DIRECTIONS for lighting, cleaning, etc., furnished with each stove.

Pressure Type

WITH PRESSURE GAUGE, AIR PUMP
 AND TANK IN BOTTOM

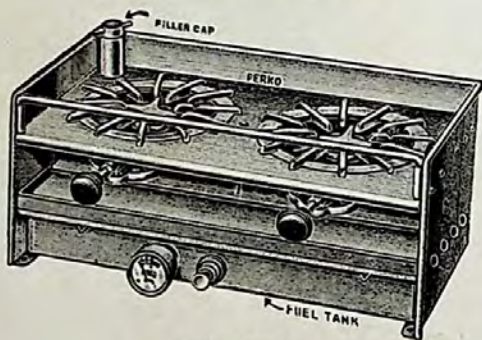


Fig. 1014

AIR PRESSURE GAUGE is installed in the tank, it is very accurate, easy to read and shows the maximum operating pressure for best results.

FILLER PLUG, improved, guaranteed non leakable.

FUEL CONSUMPTION, two burners will operate about 12 hours on 1 gallon of alcohol and 1 pound of air pressure.

TRAY has 1/4 inch sheet asbestos on bottom plus air space to protect fuel tank from heat.

HEAT, with ordinary flame, a quart of water will boil in three minutes.

	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches	Capacity of Tank Gallons
2 Burner	20	12 1/4	8 1/2	1 1/2
3 Burner	31	12 1/4	8 1/2	2
2 Burner Complete Each				3 Burner Complete Each
\$27.00				\$36.50

Gravity Type

WITH ONE GALLON COPPER TANK AND
 FIVE FEET COPPER TUBING

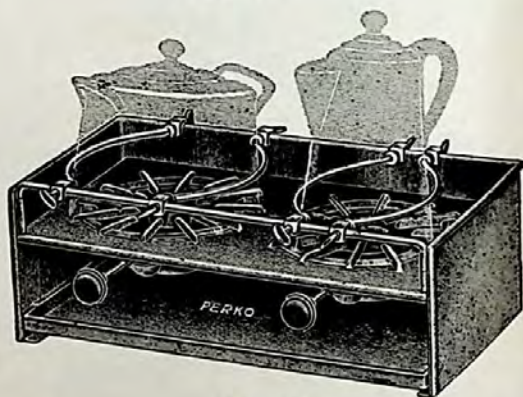


Fig. 714

Both burners will operate about 10 hours on gallon of alcohol.

	Extreme Length Inches	Extreme Height Inches	*Extreme Width Inches	Wt. Comp With Tank Pounds
2 Burner	20	7	12 1/4	24
3 Burner	31	7	12 1/4	33
2 Burner Complete Each				Bronze Pot Holder Per Pair
\$20.00				\$2.50
3 Burner Complete Each				\$29.50

Stove only, without tank, tubing or fittings dec \$2.00 each.

* Width shown is extreme of Body, not including valve handle

NOTE—State Number of Burners when ordering

Perko Vitreous Enameled Alcohol Stoves

THOROUGHLY IMPROVED IN FINISH AND APPEARANCE
FINISHED IN WHITE VITREOUS ENAMEL WITH BLACK TRIM
ADJUSTABLE FRONT RAIL—INVISIBLE FUEL TANK

These stoves have all the construction and operating advantages of our 1938 models with modernizing improvements in finish and appearances.

CONSTRUCTION of heavy gauge sheet steel, welded at all joints.

BURNERS are cast bronze, same as used in our 1938 models. These have proven extremely satisfactory. No improvement necessary.

TRAY is removable and finished in white vitreous enamel.

GUARD RAIL is adjustable for various sizes of pots, small, large or medium, fastened in desired position by brass thumb nuts.

GRATES are cast iron with black vitreous enamel finish.

FUEL, a good grade of "burning alcohol" should always be used, easily obtainable.

FINISH, the entire body of stove is finished in white vitreous enamel with black enamel around all edges, joints, screw holes, etc.

Gravity Type

WITH ONE GALLON POLISHED COPPER TANK
AND FIVE FEET OF COPPER TUBING

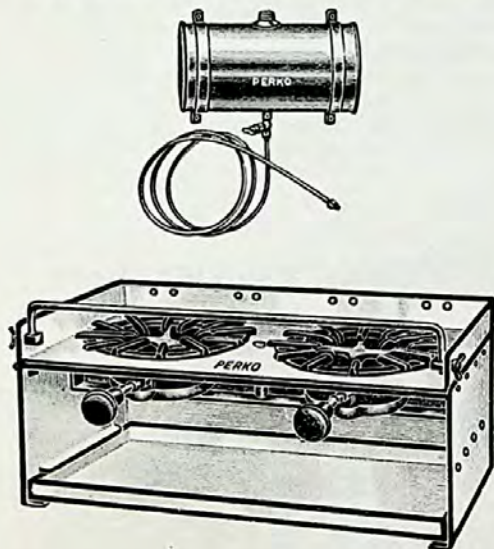


Fig. 562

Has ample space between tray and burners. Handy for keeping dishes or food warm.

Two burners will operate about 10 hours on one gallon of alcohol.

	Extreme Length Inches	Extreme Height Inches	*Extreme Width Inches	Weight Complete Pounds
2 Burner	20	8½	12¼	26
3 Burner	31	8½	12¼	35
2 Burner Complete Each		3 Burner Complete Each	Brass Pot Holders Per Pair	
\$22.00		\$32.50	\$1.75	

Stove only, without tank, tubing or fittings deduct \$2.00 each.

Pressure Type

WITH PRESSURE GAUGE, AIR PUMP AND INVISIBLE FUEL TANK

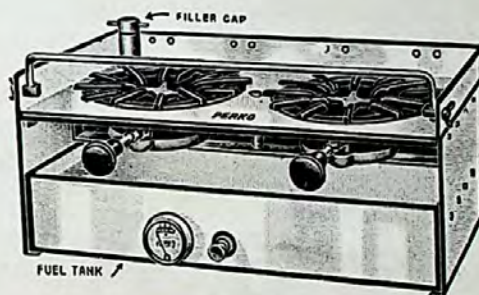


Fig. 574

AIR PRESSURE GAUGE is installed in the tank, it is very accurate, easy to read and shows the maximum operating pressure for best results.

FILLER PLUG, improved guaranteed non leakable.

FUEL CONSUMPTION, two burners will operate about 12 hours on one gallon of alcohol and one pound air pressure.

TRAY has integral front apron which entirely hides the fuel tank and adds a great deal to the entire appearance of the stove. Tray also has ¼ inch sheet asbestos on bottom plus air space to protect tank from heat.

VENTILATION, ample ventilating holes in sides and back of stove furnishing plenty of cool air around fuel tank.

HEAT, with ordinary flame a quart of water will boil in three minutes.

	Extreme Length Inches	*Extreme Width Inches	Extreme Height Inches	Capacity of Tank Gallons
2 Burner	20	12¼	8½	1½
3 Burner	31	12¼	8½	2
2 Burner Complete Each		3 Burner Complete Each	Brass Pot Holders Per Pair	
\$29.50		\$39.50	\$1.75	

* Width shown is extreme of body, not including valve handle.

Pot holders above are for our vitreous enameled stoves only.

NOTE—State number of burners when ordering.

New "Perko Primus" Kerosene Stoves

WHITE VITREOUS ENAMELED FINISH—CHROMIUM PLATED PRESSURE TANK
CHROMIUM PLATED ADJUSTABLE FRONT RAIL
VERY EFFICIENT—ECONOMICAL—SAFE

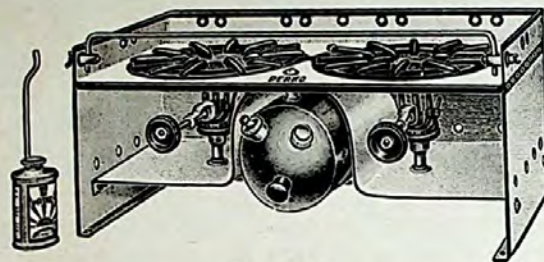


Fig. 1160

PRIMUS Burners are world famous and stand head and shoulders above all other kerosene burners. We are furnishing these patented burners combined with the PRIMUS pressure tested fuel tank in the same pop enameled body as used for our alcohol stove Fig. 574.

PRIMUS Burners at all times and under most trying conditions function perfectly, efficiently and safely. Being of the wickless type they are clean, smokeless, and odorless.

Black Bakelite control knobs regulate, clean, and extinguish the burner as easily as a standard gas range. Burners contain a built-in cleaning device for the nipple and shutoff valve. The burners can be turned down to a simmering flame or up to an intense hot flame that will boil a quart of water in three minutes. The fuel tank holds enough kerosene for all liquid fuel to burn both burners for about four hours.

	Complete Each	Complete With Gimbals as Fig. 591 Each	Extreme Length Inches	Extreme Height Inches	Extreme Width Inches	Capacity of Tank Quarts
2 Burner	\$24.00	\$33.00	19 3/4	8 1/4	10 1/2	2
3 Burner	36.00	46.00	31	8 1/4	10 1/2	2

"Primus" Cooker-Heaters

FOR KEROSENE OIL
WITH INTERNAL MECHANICAL CLEANING
DEVICE

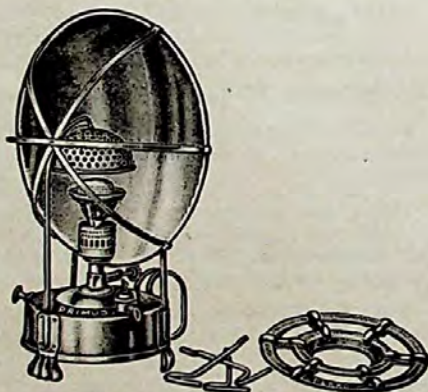


Fig. 1161

Can be used alternatively as a cooker or as a heat radiator.

Consists of a Primus 1 burner cooker with heating cone and holder, reflector and flame guard.

By removing the radiator parts quickly without tools and replacing same with grate and holders a fine 1 burner cooking stove is ready for use.

No.	Complete Each	Height With Reflector Inches	Height With Grate Inches	Capacity Tank Pints
1	\$10.25	15 3/4	8 1/4	2
2	13.75	17 1/2	9 3/4	3

No. 1 size is brass, polished.

No. 2 size is brass, nickel plated.

"Primus" Cooking Stove

FOR KEROSENE OIL
POLISHED BRASS



Fig. 1162

Excellent economical quick cooking stove for use on boats, campers, weekenders, etc., or for cooking on deck or in cockpit of yachts, cruisers, etc.

Collapsible and take up little space when packed.

One filling will last about 4 hours. Will boil 1 quart of water in 3 minutes.

Complete Each	Extreme Height Inches	Capacity Tank Pints	Weight Pounds
\$4.50	8 1/4	2	2 1/2

Perko Cabin Heater

WITH ALCOHOL BURNER AND PRESSURE TANK
WHITE VITREOUS ENAMELED FINISH

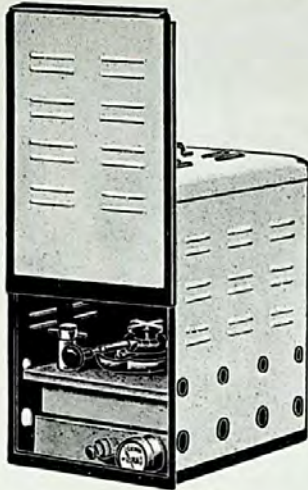


Fig. 590

A heater that is extremely attractive in appearance, and will increase the temperature of the average cabin 15 to 20 degrees in less than one hour.

Contains our well known alcohol burner, pressure tank, air gauge, air pump, heating elements, etc., all entirely enclosed in white vitreous enameled sheet steel body.

Door is sliding type, cannot open accidentally. Tank is kept cool by ample ventilation.

Each Complete	Extreme Height Inches	Extreme Width Inches	Extreme Depth Inches	Capacity of Tank Gallons
\$24.50	16	10½	14½	¾

Hot Air Cabin Heater

CAST IRON PLATE—CAST ALUMINUM BODY
6-12-32 AND 110 VOLTS

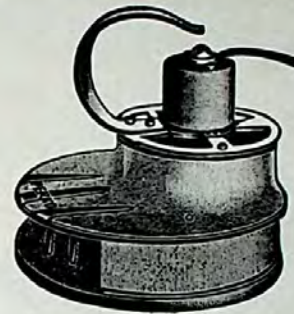


Fig. 595

Now you can use your galley stove to heat your boat. Works equally well on gas, alcohol, kerosene, coal or any other type of stove.

The TRADE WIND Hot Air Heater takes the heat from the stove and distributes it to all corners of the cabin. This blast of hot air will heat the average cabin in a few minutes and maintain a comfortable temperature as long as required.

Just place the heater on the stove over the burner, connect electric fan wires to battery, light the stove and in a few minutes the cabin will be as comfortable as you want it.

Temperature of air can be regulated by height of flame on stove.

This heater consists of a heating chamber, small electric fan, switch for fan and handle for carrying.

HEATS INSTANTLY—ECONOMICAL TO OPERATE

Ampere draw from battery is very slight.

Volts	Each	Amperes	Diameter Inches	Height Inches	Weight Pounds
6	\$16.00	1.5	8½	7	9½
12	16.00	.75	8½	7¼	9¾
32	16.00	.28	8½	7¾	10¼
110	17.75	.08	8½	8	11

The 110 volt heater furnished for A. C. and D. C. current.

Specify Voltage When Ordering.

Pressure Alcohol Stove in Gimbals

WHITE VITREOUS ENAMELED STOVE
CAST BRONZE GIMBALS

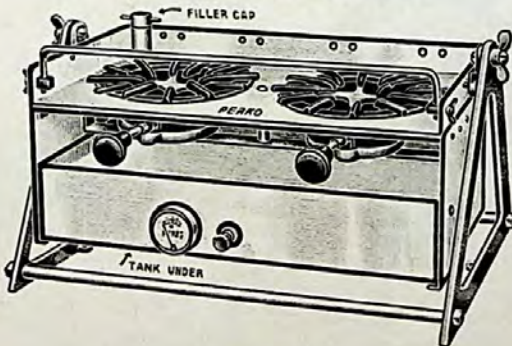


Fig. 591

Stove hangs in balanced horizontal plane when vessel is heeled over to port or starboard. This feature is particularly desirable on sailing craft but very useful on vessels of all types.

Stove will not sway unnecessarily when thumb nuts are tightened.

The stove is our Fig. 574 shown on page 87.

	Complete Each	Gimbals Only Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches
2 Burner	\$38.50	\$ 9.00	22	12¼	11½
3 Burner	48.50	10.00	33	12¼	11½

Pot Holders

ALL BRASS

For all our vitreous enameled stoves Figs. 562, 574, 591 and 1160.

Adjustable on the stove for various sizes of pots, pans, etc.



Fig. 1116

Polished Brass Per Pair	Chromium Plated Per Pair	Length Overall Inches
\$1.50	\$1.75	12

OVENS

FOR PERKO ALCOHOL STOVES

Bakes and roasts over any kind of cooking burner (alcohol, gas, gasoline, or oil), consuming but one-quarter the fuel required to heat ordinary range oven. Bakes biscuits, pies, muffins, cakes, custards, puddings, beans, macaroni and cheese, potatoes, etc., thoroughly and well, roasts meats to a turn.

The Gem

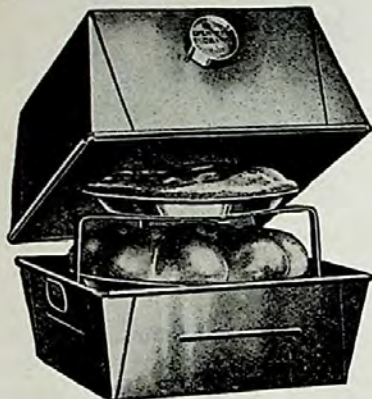


Fig. 1104

Gem Oven is built of high-grade material and consists of asbestos lined Hood with Heat Indicator, Base with Octagon Shelf insulated with asbestos. Wire Stand and Tripod.

Each	Height Inches	Size Bottom Inches	Size Middle Inches	Weight Pounds
\$3.50	10	9½x9½	12x12	8

The Stanley WITH HEAT INDICATOR

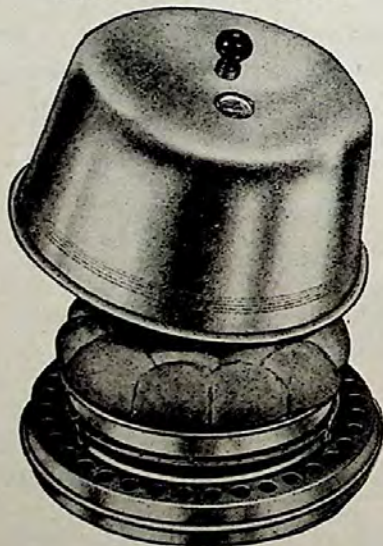


Fig. 1103

Stanley Oven consists of aluminumized steel base with heat deflector lined with heavy asbestos, tinned wire stand and polished aluminum hood.

Each	Height Inches	Diameter Inches	Weight Pounds
\$2.75	6¼	10¾	6

Operating Directions Furnished with Each Oven

Safety Electric Fans

STREAMLINED FLEXIBLE RUBBER BLADES

6-12-32 VOLTS



Fig. 244

Invaluable for circulating air in small cabins, where space is limited. The flexible rubber blades eliminate possibility of accidents but furnish maximum air delivery.

Furnished with bracket and integral turn switch attractively finished in light gun metal enamel.

6 Volt Each	12 Volt Each	32 Volt Each	Diam. Fan Inches	Depth Overall Inches	Weight Pounds
\$3.95	\$5.95	\$7.45	6	4¼	

Specify voltage when ordering.

Electric Fans

MARINE TYPE—6-12-32-110 VOLTS

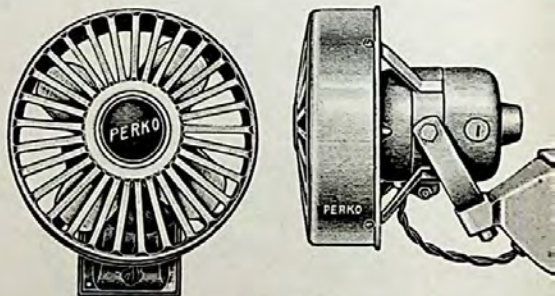


Fig. 648

An ideal fan for small cabins. The motor is of sturdy semi-enclosed construction with bronze bearings. Fan is adjustable to any suitable angle, and has a safety aluminum safety guard around the blades.

The air delivery is approximately 300 cubic feet per minute at a velocity of 400 feet per minute.

The power consumption is approximately 25 watts.

Standard finish is gray lacquer.

Each	Height Overall Inches	Diam. Guard Inches	Diam. Blades Inches	Size Base Inches	Weight Pounds
\$13.00	8	7	6	2¾x2¾	6

Swivel Outrigger Pole Holders

EXTRA LONG SOCKET—REINFORCED
STRONG HEAVY BRONZE CASTINGS



Fig. 414

Pole can be set at any desired angle, has swivel base plate and hinged socket.

Cast bronze fittings are good and heavy to prevent breakage, socket is extra long and reinforced on the outer end to prevent splitting.

Per Pair	Inside Diam. Socket Inches	Length Socket Inches	Diam. Plate Inches	Weight Pair Pounds
\$10.00	1 7/8	10	3	6 3/4

Swivel Outrigger Pole Holders

MANGANESE BRONZE—PLAIN
LIGHT PATTERN



Fig. 415

For mounting on deck or side of deck house. The double hinged straps and swivel flange will allow the pole to be set at any desired angle.

The entire fitting being made of cast manganese bronze gives maximum strength and minimum weight.

No.	Per Pair	For Diam. Pole Inches	Length Straps Inches	Diam. Flange Inches	Weight Pair Pounds
1	\$6.00	1 1/4	4	2 1/4	1
2	7.00	1 1/2	5 3/4	2 3/4	2

Outrigger Pole Sockets

POLISHED BRASS



Fig. 1100

A well made heavily constructed socket of heavy brass with cast bronze brackets for mounting on rail or deck house.

No.	Each	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Weight Pounds
1	\$5.00	2	10 1/4	3 3/8	3
2	5.50	2 3/8	12	4	3 3/4

Sword Fish Darts

PLAIN CAST BRONZE



Fig. 805

Price Each
\$0.40

Length Inches
5

Weight Per 100 In Pounds
31

Dart Shank

IRON SHANK—CAST BRONZE SOCKET

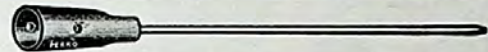


Fig. 655

Length overall, 24 inches; Weight, 1 1/4 pounds.

Price each \$1.50

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 5/8	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			

REDUCED EDGE

No.	Per 100	Length Inches	No.	Per 100	Length Inches
17	\$3.35	2 1/4	15	\$3.35	2 1/2
16 1/2	3.35	2 3/8	14 1/2	3.75	2 3/4
16	3.35	2 1/2	14	3.45	2 5/8
15 1/2	3.35	2 5/8	13	4.10	3

Packed 25 needles per package—only furnished in full packages.

Sailors Seaming Palms

FULL HIDE MOUNTED



Fig. 411

Right Hand, Per Dozen \$5.00
Left Hand, Per Dozen 5.50

"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	Size Flange	
	Inches	Inches	Inches	Inches	Cubic Feet Per Minute	Inches	Inches
1	3	2 1/4	7 1/2	6x6	90	3 1/2	3 1/2
2	4	4	8 1/2	8x8	186	4 1/2	4 1/2

Volts	No. 1 Each		No. 2 Each		Amperes		Watts	
			No. 1	No. 2	No. 1	No. 2	No. 1	No. 2
6	\$11.50	\$26.00	3.25	7.	19.6	42.0		
12	11.50	26.00	1.70	4.	20.8	48.0		
32	11.50	26.00	.75	1.5	20.0	49.0		
110	14.50	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.

Blower and Ignition Switch

CAST BRONZE
FLUSH TYPE



Fig. 149

A way to automatically prevent starting the engine until the blower or exhaust fan has been turned on.

Clear bilges and engine room of dangerous fumes before starting motor.

Polished Bronze Each	Chromium Plated Each	Diam. Face Plate Inches	Diam. Box Inches	Depth Inches
\$6.00	\$7.00	2 3/4	2 1/4	1 1/4

Exhaust Fan Ventilator

WITH SWIVEL DECK PLATE—CAST BRONZE



Fig. 634

Can be turned in any direction, made in two heights, furnished with cover for deck plate when vent is removed. Side of deck flange can be cut away for installing against side of deck house.

No.	Diam. Bottom Opening	Extreme Height Inches	Size of Mouth Inches	Diam. Body Inches	Galv. Iron Each	Copper Each
1	2	6 1/8	2 1/4 x 4 1/2	4	\$ 9.00	\$13.50
2	2	8	2 1/4 x 4 1/2	5	9.00	13.50
				6	9.00	13.50
				7	9.00	14.50
				8	10.50	15.50
				10	12.00	18.50
				12	14.50	23.50

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$8.00	\$8.75	\$9.50

"Perko" Exhaust Fan and Ventilators

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

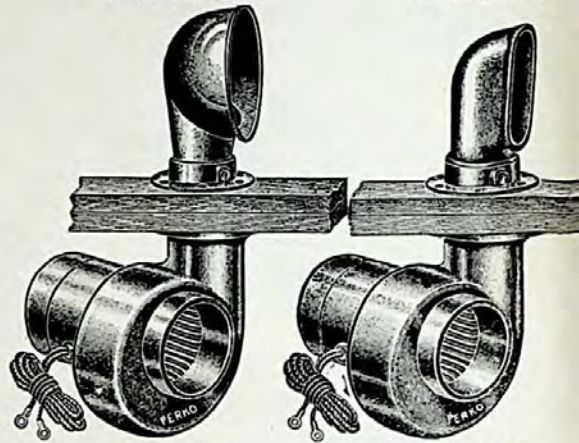


Fig. 780

Fig. 781

Fig. 780 has a spun brass or copper ventilator 2 inch bottom opening, 5 inch mouth, 7 inches high overall.

Fig. 781 has a cast bronze ventilator 2 inch bottom opening, 2 1/4 x 4 1/2 inch mouth, 6 1/2 inches high overall.

Both ventilators have cast bronze swivel deck plate. Price complete—either style \$10.00

Don't forget to mention the voltage.

For information on Exhaust Fan see Fig. 778.

Turbine Ventilator

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



Fig. 744

For removing gasoline fumes from engine room 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 being drawn in. Absolutely quiet in operation, durable and rainproof.

Diam. Body Inches	Galv. Iron Each	Copper Each
4	\$ 9.00	\$13.50
5	9.00	13.50
6	9.00	13.50
7	9.00	14.50
8	10.50	15.50
10	12.00	18.50
12	14.50	23.50

Ship and Yacht Ventilators

SEAMLESS STEEL—16 GAUGE
HOT DIPPED GALVANIZED

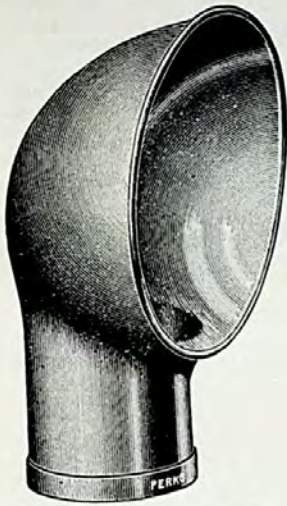


Fig. 557

Made of 16 gauge sheet steel and hot galvanized after fabrication. Joints are welded smooth before galvanizing and have no visible seams after galvanizing.

Furnished with brass rim around mouth and with or without bottom bands or deck flanges.

Hoods with deck flange have thumb screws in band to fasten to flange, deck flange is grooved.

Diam. Bottom Opening Inches	Hood Only Without Band Each	Hood Only With Band Each	Hood With Galvanized Deck Flange	Diam. Mouth Inches	Height Overall Inches
10	\$44.00	\$47.00	\$ 59.00	20	26
12	52.00	55.00	69.00	24	30
14	60.00	63.00	79.00	28	36
16	66.00	69.00	87.00	32	42
18	70.00	73.00	93.00	36	48
20	80.00	84.00	107.00	40	52
24	90.00	94.00	120.00	48	60

Also furnished in copper—price on application.

We can furnish above with galvanized and bronze swivel deck plates as Fig. 419. Price on application.

Ice Box Ventilators

CAST BRONZE—POLISHED



Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches
1	\$2.00	\$3.00	1 7/8	2 1/2 x 2 1/2
2	2.25	3.25	2 1/2	3 1/4 x 3 1/4
3	3.25	4.25	3	4 1/8 x 4 1/8
4	4.00	5.25	3 3/8	4 7/8 x 4 7/8

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

Swivel Ventilator

ROUND MOUTH—CAST BRONZE

Made of heavy cast bronze, swivel deck plate, thumb screw for fastening in position. Cast cover to take place of vent when removed. Set screw to prevent loss of thumb screw. Vent painted green on inside.



Fig. 198

Diam. bottom opening, 3 3/4 in.
Diameter mouth, 5 1/2 inches
Height overall, 9 inches
Diameter base, 6 1/4 inches
Weight each, 11 pounds

	Each
Polished	\$13.50
Nickel Plated	15.50
Chromium Plated	17.50

Seamed Hood Ventilator

WITH BRONZE SCREW DECK PLATE

Constructed of heavy sheet steel or brass. Steel ventilators are completely formed and then hot galvanized.



Fig. 151

Deck Plate Opening Inches	Opening of Mouth Inches	Height Inches
2	4	5
2½	5	6
3	6	7
3½	7	10
4	8	11
4½	9	12
5	10	14
6	12	15
8	16	21

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
2	\$ 6.00	\$ 7.75
2½	6.25	8.00
3	6.50	8.25
3½	7.25	9.25
4	8.25	10.25

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
4½	11.00	13.25
5	\$13.25	\$15.50
6	18.00	21.00
8	28.00	32.00

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 Inches
3	6	8
3½	7	9
4	8	11
4½	9	12
5	10	13
6	12	15
8	16	20

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
3	\$10.00	\$12.00
3½	11.50	13.75
4	13.00	15.50
4½	15.50	17.50

Deck Plate Opening Inches	Galv. Each	Polished Brass Each
5	\$19.00	\$22.00
6	24.00	27.00
8	35.00	42.00

For Large Size Ventilators, See Fig. 557

Seamed Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Heavy sheet steel or brass. Steel vents are hot galvanized after forming. Furnished with spun brass cover for deck plate when vent is removed, at small additional charge.



Fig. 575

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches
3	6	7½
4	8	10
5	10	12½
6	12	15
8	16	20

Deck Plate Size Inches	Galv. Each	Polished Brass Each
3	\$ 7.75	\$ 9.50
4	11.00	12.50
5	14.50	16.75

Deck Plate Size Inches	Galv. Each	Polished Brass Each
6	20.00	23.00
8	\$26.50	\$30.00

Riveted Hood Ventilator

WITH BRONZE SWIVEL DECK PLATE

Made of heavy gauge sheet steel, hot galvanized or brass. All joints riveted. Brass rim around mouth on galvanized vents, 4½ inch and smaller. Brass cover for deck plate at small additional charge.



Fig. 368

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches
3	6	8
4	8	10
5	10	12
6	12	15
8	16	20

Deck Plate Size Inches	Galv. Each	Polished Brass Each
3	\$11.00	\$13.50
4	15.75	18.00
5	20.50	23.00

Deck Plate Size Inches	Galv. Each	Polished Brass Each
6	26.00	29.00
8	\$35.00	\$41.00

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.

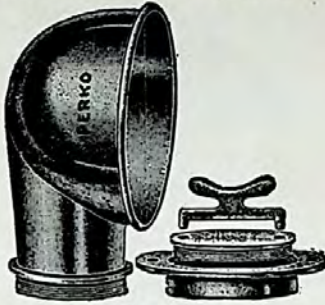


Fig. 152

Deck Plate Size Inches	Polished Brass Each	Polished Copper Each	Diameter Mouth Inches	Height Overall Inches
2	\$ 7.75	\$ 9.00	4	6
2½	8.00	9.25	5	7
3	8.25	9.50	6	8
3½	9.25	10.25	7	9
4	10.25	11.50	8	10½
5	16.50	18.75	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	19.00

Hammered Copper Ventilators

WITH SCREW OR SWIVEL DECK PLATE

Heavy gauge sheet copper, hammered to shape by hand, hammer marks remaining in surface. With cover and key for screw deck plate.

Screw Deck Plate

Swivel Deck Plate



Fig. 367



Fig. 560

Size Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches
3	\$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

Larger Sizes—Price on Application

Seamless Steel Ventilators

HOT DIPPED GALVANIZED WITH CAST BRONZE DECK PLATES



Screw Deck Plate
Fig. 510



Swivel Deck Plate
Fig. 513

These are our latest improvement in hood type ventilators, made of heavy gauge sheet steel and hot galvanized after fabrication. The body is smooth and free of seams, has a brass rim around the mouth and makes a sturdy and good looking ventilator.

Cast Bronze Ventilator

ROUND MOUTH—SCREW DECK PLATE



Fig. 199

Diam. bottom opening, 3 inches
Diameter mouth, 6 inches
Height overall, 8½ inches
Diameter deck flange, 4½ in.
Weight, 5 pounds

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$12.00	\$14.00	\$16.00

Deck Plate Opening Inches	With Screw Deck Plate Each	With Swivel Deck Plate Each	Diam. Mouth Inches	Height Overall Inches	Gauge Before Galvanizing
3	\$12.00	\$14.00	6	8	24
4	15.50	18.00	8	11	24
5	19.50	22.00	10	13	24
6	29.50	32.50	12	15	24
8	46.50	48.00	16	20	20

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
4x1 3/8	5 3/4	6 3/4	2 3/8	1 5/8

Polished Bronze Per Pair \$7.00

Nickel Plated Per Pair \$8.00

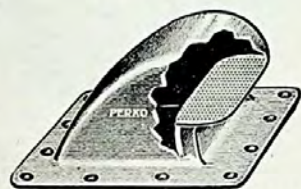
Chromium Plated Per Pair \$9.00

A pair consists of one right hand and one left hand.

Cruiser Ventilator STREAMLINE—CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser decks cabin roofs.

An integral water guard inside mouth prevents snow or rain from entering ventilator. A bronze screen permanently installed to keep insects out of cabin.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Height Overall Inches	Weight Pounds
\$7.00	\$7.50	\$8.00	7x7	3 1/2	4

Space Saver Ventilator

CAST BRONZE

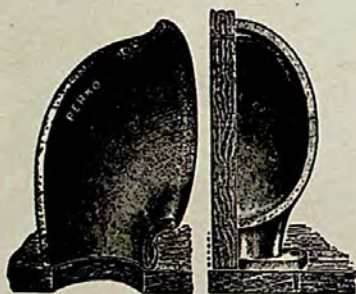


Fig. 782

Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan Fig. 778.

No.	Inside Diameter at Base Inches	Inside Measurements at Mouth Inches	Extreme Height Inches
1	2 1/2	2 3/8 x 5	6 3/4
2	3 1/2	3 1/8 x 7 1/2	9

No.	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrome Plated Per Pair
1	\$4.50	\$5.00	\$6.00	\$ 7.00
2	7.50	8.00	9.50	11.00

Engine Compartment Outlet Ventilator



Fig. 329

For use on hulls of runabouts or cruisers. Mac cast bronze, highly polished, interior painted in enamel.

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Diam. Opening Inches	Diam. Flange Inches	Weight Ounces
\$1.75	\$2.00	\$2.50	2 1/8	4	

Transom Ventilators CAST BRONZE



Fig. 1069

The importance of ventilation to all parts of boat cannot be overstressed.

These are for installation in stern transom. Furnished with or without mosquito screening.

Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	Size Flange Inches	Depth Collar Inches	Weight Pounds
\$1.00	\$1.50	\$2.25	6 3/4 x 2 1/4	3/4	

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

Clam Shell Ventilators

CAST BRONZE
IMPROVED

Now made in two sizes, with base improved in appearance.



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Oz.
4	2 3/4	1 3/4	3 5/8 x 3 1/2	11
5	3 1/2	2	4 x 3 3/8	14
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
No. 4	\$1.40	\$1.70	\$2.00	
No. 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 1/8	3 3/8 x 4 1/8	12
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
No. 1	\$1.20	\$1.40	\$1.70	
No. 2	1.30	1.50	1.80	
No. 3	1.40	1.70	2.00	

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 3/4	5 x 6	1
7	4 3/8	3 1/4	6 x 7	2
8	5 1/4	3 3/2	7 x 8	2 1/2
	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
No. 6	\$2.50	\$2.75	\$3.10	
No. 7	3.25	3.50	4.00	
No. 8	4.25	4.75	5.25	

Automatic Boat Drainer

BRASS TUBING—CAST BRONZE FITTINGS
BALL TYPE—STREAMLINE

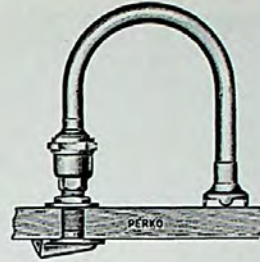


Fig. 397

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

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

Complete With Wrench Each	Diameter Flange Inches	Depth Inches	Weight Ounces
\$1.75	3 1/8	1	10

Self Locking Gas Tank Cap

CAST BRONZE



Fig. 520

A half turn will open or lock cap in an instant. Locking device is indicated at A. Interior of neck below flange is threaded for 1 1/2 inch pipe.

Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set	Diam. Opening Inches	Diam. Flange Inches	Height Closed Inches
\$2.00	\$2.50	\$3.00	1 1/2	3 1/8	1 1/4

Maxim Silencers

WET TYPE—MODEL M3
CAST IRON



Fig. 334

For Exhaust Pipe Inches	Each	Diameter Inches	Length Overall Inches	Weight Pounds
1 1/2	\$ 12.75	4 3/4	9 3/4	8 3/4
2	15.50	6 1/4	11	15
2 1/2	21.00	7 1/2	12 3/8	30
3	26.00	9 1/8	13 1/2	40
3 1/2	35.00	11	14 3/4	60
4	39.00	12 3/8	15 3/4	80
5	104.00	14	23	145
6	149.00	14 7/8	27 1/2	170

Removable Flanges on both ends to connect standard pipe or tubing.

Use same size Silencer as diameter of Exhaust Pipe.

Used with equal success on Diesel as well as gasoline engines.

Designed to take all the cooling water discharge from the engine making unnecessary any other water discharge through the hull. Can be installed practically anywhere in the exhaust line that is convenient, either near the engine or near the stern, however a two foot tail pipe at the silencer outlet will give best results.

Maxim silencers are available for dry exhausts of gasoline and Diesel engines. Give bore, number of cylinders, R. P. M. and exhaust size.

Maxim Silencers

CAST IRON—WET TYPE—MODEL M-4

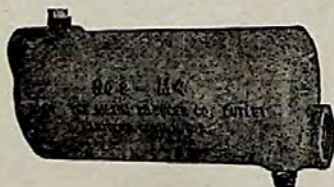


Fig. 755

Admirably suited to the line of small engines being presented to the field at the present time for the propulsion of small boats and for use with generating units in larger vessels.

Similar in construction to model M-3 and installed in like fashion.

For Exhaust Pipe Inches	Each	Diam. Inches	Length Overall Inches	Weight Pounds
1/2	\$5.00	3 1/4	7 3/4	4
3/4	6.00	3 1/2	8 1/4	5
1	7.00	3 3/4	9	6
1 1/4	8.00	4 1/4	9 1/2	10

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 00
2 1/2	2 7/8	5 1/4	1 1b
3	3 1/2	6 1/4	1 1/2
3 1/2	4	6 7/8	1 1/2

Size	Plain Bronze Each	Polished Bronze Each	Chrom. Plat. 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
2 1/2	2 5/8	4 3/8	14
3	3 1/8	5	1
3 1/2	3 5/8	5 1/2	1 1/2
4	4 1/8	6	1 1/2

Size	Plain Bronze Each	Polished Bronze Each	Chrom. Plat. Each
2	\$.90	\$1.65	\$2.10
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	2.85

Check Valves

CAST BRONZE

A simple but exceptionally dependable check valve threaded to fit standard pipe.



Fig. 273

Plunger



Fig. 68

Spring



Fig. 69

Size Pipe Inches	Complete Each	Plunger Only Each	Spring Only Each	Length Overall Inches
3/4	\$2.50	\$.60	\$.12	2 3/4
1	3.00	.70	.15	3
1 1/4	3.50	.80	.17	3
1 1/2	4.00	.90	.20	3 1/4

Gasolene Strainer

PLAIN BRONZE—WOVEN COPPER SCREEN

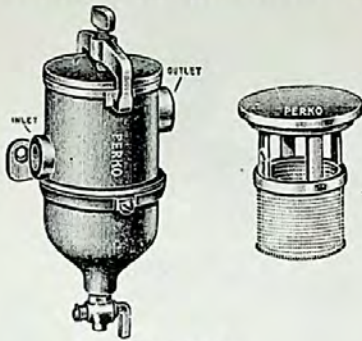


Fig. 299

With Yoke, Thumbscrew and Supporting Bracket.

Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pet cock at bottom drains the settling chamber. Side bracket supports the strainer, relieving the fuel pipes of all weight.

★Size No.	Price Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Each Pounds
1	\$ 5.50	5½	2¾	¼ or ⅜	3
1½	7.75	6¼	3⅛	⅜ or ½	5
2	10.00	7¼	3⅜	½ or ¾	7

Ash Tray and Glass Holder in Gimbals

ALL BRASS—CHROMIUM PLATED

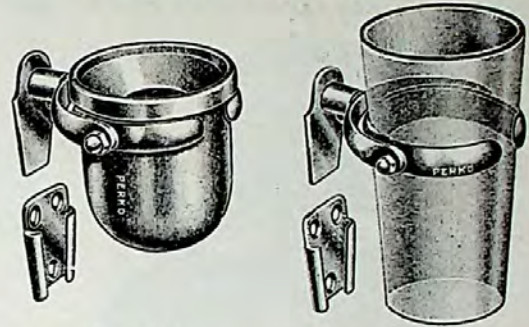


Fig. 698 Complete

Fig. 700 Glass Holder

What is more useful in various parts of a boat than several deep good looking ash trays in gimbals. When a long cooling drink is served, remove the ash tray insert the glass in the gimbal and the drink is safe regardless of heel or roll.

Made entirely of brass with bell type removable bracket. All chromium plated. Ash receiver is lead weighted.

Complete Per Set	Glass Holder Only Each	Ash Tray Only Each	Size Bracket Inches	Projection Inches
\$3.75	\$2.25	\$1.50	1¾x1¼	4

Set consists of ash receiver, gimballed holder and mounting bracket. When used as glass holder ash receiver is removed from holder.

Intake Water Strainers

CAST BRONZE

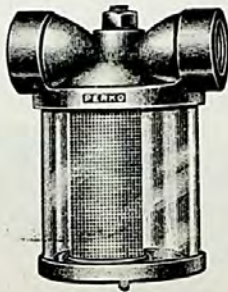


Fig. 493

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	\$10.00	½ or ¾	5¼	3⅜
2	17.00	1 or 1¼	7½	5¼

Specify size pipe when ordering.

Gy-A-Liner Engine Aligners

CAST IRON—PAINTED

Patent No. 2123484

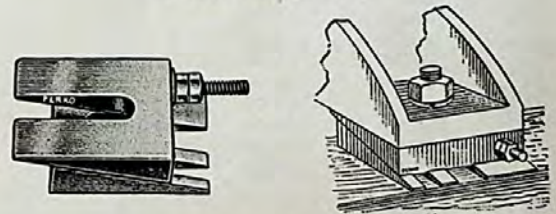


Fig. 1097

Proper alignment of engine eliminates whipping of propeller shaft, excessive heating of stuffing boxes and other bearings.

No training, experience, or unusual mechanical ability is called for to install or adjust the Gy-A-Liner. Nothing tricky or delicate.

Consists of two cast iron wedges adjusted by a galvanized bolt to various heights as required.

Suitable for all light and medium weight engines.

Each	Size Inches	For Engine Bolt Inches	Height of Adjustment Inches	Weight Each Pounds
\$.95	2½x2½	½	1¼	¾

Columbian Propellers

MANGANESE BRONZE
AILSA CRAIG TYPE

FOR GENERAL ALL AROUND USE, THE MOST
POPULAR OF ALL COLUMBIAN PROPELLERS

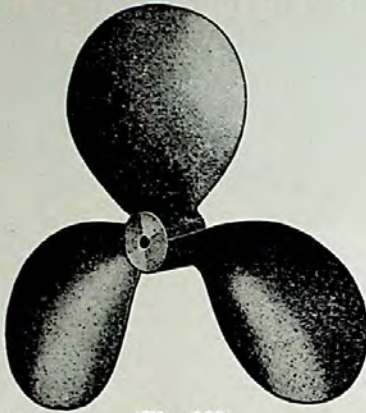


Fig. 809

Diam. Inches	3 Blade Each	2 Blade Each	Boring Each	Maximum Standard Bore Inches
8	\$ 7.70	\$ 6.30	\$ 1.70	3/4
9	8.80	7.20	1.80	7/8
10	9.30	7.70	1.90	1
11	9.70	8.00	1.90	1 1/8
12	10.60	8.80	2.20	1 1/8
13	12.10	10.00	2.30	1 1/4
14	13.60	11.20	2.40	1 1/4
15	15.50	12.80	2.70	1 1/2
16	17.60	14.60	2.80	1 3/8
17	19.40	16.00	3.00	1 3/8
18	21.50	17.80	3.30	1 3/8
19	24.00	19.00	3.60	1 1/2
20	28.00	21.60	3.60	1 1/2
21	34.00	26.00	4.00	1 3/4
22	39.00	29.00	4.00	1 3/4
23	43.00	33.00	4.40	1 3/4
24	47.00	36.00	4.40	1 3/4
25	51.00	39.00	5.00	2
26	57.00	43.00	5.00	2
27	62.00	47.00	5.80	2
28	68.00	51.00	5.80	2
30	80.00	60.00	6.60	2 1/4
32	98.00	74.00	7.60	2 1/2
33	107.00	80.00	9.00	2 3/4
34	115.00	86.00	9.00	2 3/4
35	123.00	93.00	10.00	2 3/4
36	138.00	104.00	10.00	2 3/4
38	160.00	120.00	12.00	3
40	185.00	140.00	14.00	3
42	210.00		17.00	3 1/4
44	237.00		19.00	3 1/4
46	270.00		21.00	3 1/2
48	308.00		25.00	3 1/2
50	333.00		31.00	4

With Special Large Hub, Price on Application

Columbian Propellers

BRONZE—PEERLESS QUALITY
AILSA CRAIG TYPE

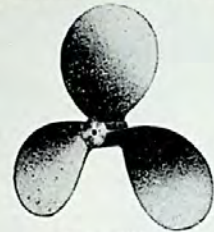


Fig. 739

Diam. Inches	Three Blade Boring	Diam. Inches	Three Blade Boring
8	\$ 5.70	25	\$ 39.00
9	6.60	26	43.00
10	7.00	27	46.00
11	7.30	28	51.00
12	8.00	30	60.00
13	9.00	32	73.00
14	10.50	33	80.00
15	12.00	34	87.00
16	13.00	35	92.00
17	14.50	36	103.00
18	16.00	38	120.00
19	18.00	40	140.00
20	21.00	42	157.00
21	25.00	44	178.00
22	29.00	46	202.00
23	32.00	48	231.00
24	35.00	50	250.00

Maximum standard bore same as Fig. 809.

With Special Large Hub, Price on Application

Speed Boat Rudders

CAST MANGANESE BRONZE



Fig. 813

Furnished complete with tiller, collar, nut and rudder port.

Bronze Tillers
CAST MANGANESE BRONZE



Fig. 810

No.	Each	Length Inches	For Rudder Stock Inches	Size Keyway Inches	Weight Pounds
1	\$4.00	12	1	1/4	3 1/4
3	5.50	14	1 1/8	1/4	4 1/2
4	8.75	16	1 1/4	1/2	7

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
1	9x14	1	12	12	16 ft. to 22 ft. long	\$23.00	\$.15
2	10x16	1	12	12	20 ft. to 26 ft. long	25.00	.15
3	11x18	1 1/2	12	14	26 ft. to 35 ft. long	28.00	.18
4	12x20	1 1/2	12	16	30 ft. to 40 ft. long	35.00	.24

Hyspeed Rudder and Stock

CAST MANGANESE BRONZE

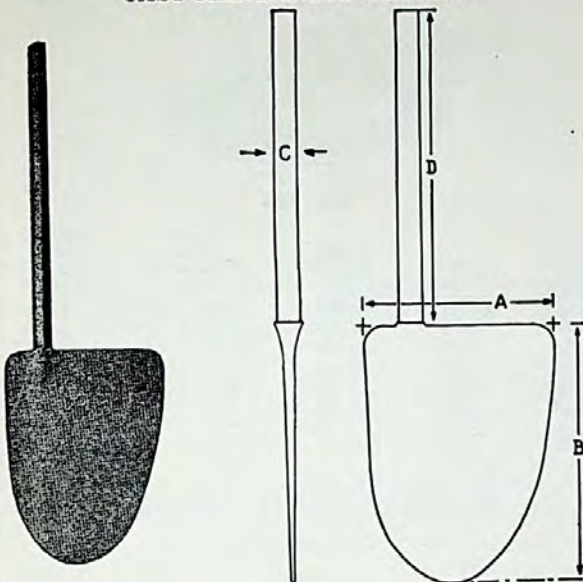


Fig. 818

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a skag.

DIMENSIONS, INCHES

No.	A	B	C	D	Each
1	9	12	1	16	\$12.00
2	10 1/2	14	1 1/8	18	15.00
3	12	16	1 1/4	18	16.00
4	13 1/2	18	1 3/8	24	22.00
5	15	20	1 1/2	24	31.00
6	16 1/2	22	1 3/4	30	45.00
7	18	24	2	36	62.00
8	20	26	2 1/4	40	77.00

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
12x12	1/4	1	12	\$.15	\$11.00
13x13	1/4	1	12	.15	12.00
14x14	1/4	1	12	.15	14.00
15x15	1/4	1	12	.15	16.00
16x16	1/4	1	12	.15	18.00
18x16	1/4	1	12	.15	19.00
18x18	1/4	1	12	.15	21.00
20x18	1/4	1 1/4	18	.24	23.00
20x20	1/4	1 1/4	18	.24	27.00
22x18	1/4	1 1/4	18	.24	27.00
22x20	3/8	1 1/4	18	.24	35.00
22x22	3/8	1 1/4	18	.24	36.00
24x20	3/8	1 1/4	18	.24	36.00
24x22	3/8	1 1/4	18	.24	37.00
24x24	3/8	1 1/4	18	.24	38.00
24x26	3/8	1 1/2	22	.33	55.00
26x26	3/8	1 1/2	22	.33	55.00

Rudder Ports with Stuffing Box

CAST BRONZE—PLAIN
WITH BRASS GREASE CUPS



Fig. 1089

Eliminates leakage at rudder post entrance through the hull.

Bronze bearing is full length of casting. Assures smooth action with minimum wear.

Size Inches	Each	Size Flange Inches	Length Bearing Inches	Drilled for Fastening Inches	Weight Pounds
3/4	\$4.50	4 x 2	5 1/8	3/8	3
7/8	5.00	4 1/4 x 2 1/4	5 3/8	3/8	3 1/4
1	5.50	4 1/4 x 2 1/2	5 1/4	3/8	3 1/2
1 1/8	6.00	5 x 2 5/8	5 1/4	1/2	3 3/4
1 1/4	6.50	5 3/4 x 3	6 3/8	1/2	5 1/2
1 3/8	7.00	6 1/4 x 3 1/4	6 3/4	1/2	6 1/2
1 1/2	7.50	6 1/2 x 3 1/2	6 3/4	1/2	6 3/4

Rudder Post Bearings

CAST IRON AND CAST BRONZE

Consists of a collar to be fitted to rudder post with set screw. Collar rides on a ball bearing inside housing of mounting bracket as illustrated.

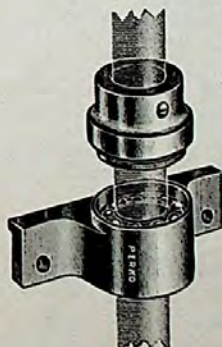


Fig. 576

Diam. Rudder Post Inches	Cast Iron Each	Cast Bronze Each	Size Bracket Inches
1	\$7.00	\$10.00	6 1/8 x 1 1/2
1 1/8	8.00	11.50	6 1/8 x 1 1/2
1 1/4	9.00	12.50	6 1/8 x 1 1/2
1 3/8	10.00	13.50	6 1/8 x 1 1/2
1 1/2	11.00	15.00	7 1/4 x 1 3/8
1 3/4	12.00	16.00	7 1/4 x 1 3/8
2	13.00	17.00	7 1/4 x 1 3/8

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

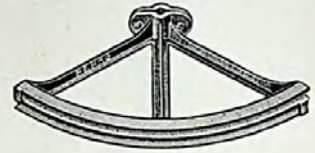


Fig. 651

Radius Inches	Galv. Each	Plain Bronze Each	Square Hole Adjustable Inches	Weight Each Pounds
7	\$2.00	\$5.00	$\frac{5}{8}$ to $\frac{3}{4}$	3
10	3.50	7.00	$\frac{3}{4}$ to 1	5
12	5.00	10.00	$\frac{3}{4}$ to $\frac{1}{4}$	8
15	7.50	14.00	$\frac{3}{4}$ to $\frac{1}{4}$	13
18	13.00	24.00	1 to $\frac{1}{8}$	27
24	25.00	45.00	$\frac{1}{2}$ to $\frac{1}{4}$	46

Rudder Stuffing Boxes
CAST BRONZE

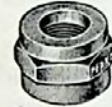


Fig. 499

Size No.	For Diam. Rudder Post Inches	For Pipe Size Inches	Weight Each Ounces
1	$\frac{3}{4}$	$\frac{3}{4}$	6
2	1	1	7
3	$1\frac{1}{4}$	$1\frac{1}{4}$	7

Rudder Skags
DROP FORGED STEEL AND BRONZE



Fig. 649

Size No.	Galv. Each	Plain Bronze Each	Dimensions Inches	For Rudder Post Inches	Weight Each Pounds
0	\$2.00	\$4.00	24x $1\frac{1}{2}$ x $\frac{3}{8}$	$\frac{3}{4}$	4 $\frac{1}{2}$
1	3.00	7.00	30x $1\frac{3}{4}$ x $\frac{1}{2}$	$\frac{3}{4}$	9
2	5.00	14.00	42x2x $\frac{3}{8}$	1	17

Bronze Rudder Collars



Fig. 815

For Diam. Stock Inches	Price Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
1	\$1.00	$1\frac{3}{4}$	$\frac{1}{8}$	12
$1\frac{1}{8}$	1.00	$1\frac{3}{4}$	$\frac{1}{8}$	12
$1\frac{1}{4}$	1.25	$2\frac{1}{8}$	$\frac{1}{8}$	12
$1\frac{3}{8}$	1.50	$2\frac{1}{2}$	$\frac{1}{8}$	12
$1\frac{1}{2}$	1.80	$2\frac{1}{2}$	$\frac{1}{8}$	12

Straight Tillers
GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 650

Length Inches	Galv. Each	Plain Bronze Each	Size of Square Hole Inches	Weight Each (Iron) Pounds
8	\$1.10	\$2.00	$\frac{5}{8}$ x $\frac{5}{8}$	1
10	1.25	2.25	$\frac{3}{8}$ x $\frac{3}{8}$	$1\frac{3}{4}$
12	1.75	2.50	$\frac{3}{4}$ x $\frac{3}{4}$	$2\frac{1}{8}$
15	2.25	5.00	$\frac{1}{8}$ x $\frac{1}{8}$	$3\frac{1}{2}$

Rudder Pipes
GALVANIZED STEEL AND BRASS



Fig. 652

Size No.	Galv. Each	Brass Each	Pipe Size Inches	Length Inches	Weight Each Pounds
0	\$1.00	\$2.25	$\frac{3}{4}$	12	$1\frac{3}{8}$
1	1.00	2.25	$\frac{3}{4}$	12	$1\frac{3}{8}$
2	1.50	3.50	1	15	2
3	1.75	4.50	$1\frac{1}{4}$	18	$2\frac{1}{2}$

Aluminum Racing Fin
CAST SILICON ALUMINUM



Fig. 189

Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
12 $\frac{3}{4}$	5	$2\frac{1}{2}$ x 10	$1\frac{1}{8}$

Strap Rudder Braces

GALVANIZED MALLEABLE IRON

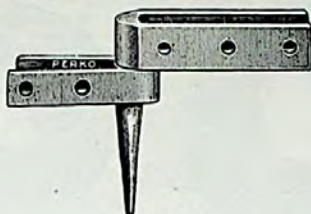


Fig. 217

Size No.	Per Set Complete	Pintles Only Pair	Straps Only Pair	Between Straps Inches	Weight Per Set Pounds
00	\$.70	\$.40	\$.30	5/8	3/4
0	.90	.50	.40	3/4	1
1	1.20	.70	.50	7/8	1 1/2
2	1.40	.80	.60	1	2
3	1.80	1.00	.80	1 1/4	2 7/8
4	2.50	1.50	1.00	1 1/2	4 1/4

Set consists of two Pintles and two Straps.

Sliding Rudder Fittings

CAST BRONZE

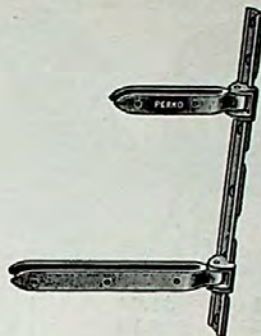


Fig. 552

For use on dinghys and small sail boats. Rudder can be quickly and easily attached or removed. The rudder slides on a cast bronze track which has a stop at the bottom.

Complete Per Set	Track Only Each	Between Straps Inches	Width Track Inches	Length Track Inches
\$4.50	\$1.75	7/8	1	18

Screw Rudder Braces

GALVANIZED MALLEABLE IRON



Fig. 201

Size No.	Per Set Complete	Pintles Only Pair	Gudgeons Only Pair	Between Straps Inches	Weight Per Set Pounds
1	\$.50	\$.40	\$.10	5/8	5/8
2	.64	.50	.14	3/4	3/4
3	.90	.70	.20	7/8	1
4	1.18	.90	.28	1 1/8	1 1/2

Bronze Rudder Braces

CAST BRONZE—PLAIN

Strap Gudgeon



Fig. 1070

Pintle



Fig. 1071

Plate Rudder Braces

GALVANIZED MALLEABLE IRON



Fig. 743

Plate Gudgeon



Fig. 1072

Plate Gudgeon



Fig. 1073

Screw Gudgeon

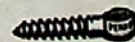


Fig. 1074

DESIGNED FOR SQUARE STERN BOATS

Size No.	Price Per Set	Plates Only Per Pair	Pintles Only Per Pair	Opening Between Straps Inches	Est. Wt. Per Set in Lbs.	No.	Between Straps Inches	Fig. 1071 Pintles Each	Fig. 1070 Strap Gudgeon Each	Fig. 1072 Plate Gudgeon Each	Fig. 1073 Plate Gudgeon Each	Fig. 1074 Screw Gudgeon Each
1	\$.80	\$.40	\$.40	3/8	3/4	0	1/2	\$.30	\$.25	\$.25	\$.25	\$.10
2	1.00	.50	.50	3/4	1	1	5/8	.35	.30	.30	.30	.10
3	1.30	.60	.70	7/8	1 3/8	2	3/4	.40	.35	.35	.35	.13
4	1.50	.70	.80	1	2 1/8	3	7/8	.50	.40		.40	

Set consists of Two Plates and Two Pintles

Thrust Ball Bearings

Flat Race
Bronze Retainers



Fig. 786

Grooved Race
Steel Retainers

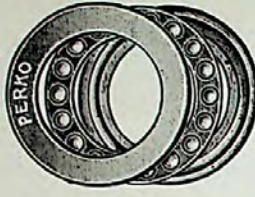


Fig. 942

Shaft Inches Diameter	Fig. 786	Fig. 942	Diameter Inches Outside	Thickness Inches
5/8	\$1.10	\$1.00	1 1/8	5/8
3/4	1.20	1.10	1 1/4	5/8
7/8	1.25	1.15	1 3/8	5/8
1	1.30	1.25	1 7/8	5/8
1 1/8	1.45	1.35	2 1/8	5/8
1 1/4	1.55	1.40	2 1/4	5/8
1 3/8	1.90	1.75	2 3/8	5/8
1 1/2	2.00	1.85	2 7/8	5/8
1 5/8	2.50	2.20	3 1/8	1 1/8
1 3/4	2.75	2.20	3 1/4	1 1/8
2	3.20	2.85	3 3/4	1 1/8
2 1/4	3.60	3.10	3 7/8	1 1/8
2 1/2	4.50	3.60	4 1/8	1 1/8

Safety Shaft Collars
CAST SEMI STEEL—MACHINED



Solid Type
Fig. 787



Split Type
Fig. 788

Shaft Size Inches	Solid Type Price Each	Split Type Price Each
5/8	\$.40	
3/4	.45	\$.65
7/8	.45	.70
1	.55	.75
1 1/8	.60	.85
1 1/4	.70	.95
1 3/8	.75	1.00
1 1/2	.80	1.10
1 3/4	1.00	1.30
2	1.10	1.50

Split type is not made in 5/8 inch size.

Thrust Ball Bearings

GROOVED RACES
STEEL RETAINING BAND



Fig. 943

Diam. Shaft Inches	Price Each	Outside Diam. Inches
5/8	\$1.10	1 1/8
3/4	1.20	1 1/4
7/8	1.25	1 3/8
1	1.35	1 7/8
1 1/8	1.45	2 1/8
1 1/4	1.60	2 1/4
1 3/8	1.90	2 3/8
1 1/2	2.05	2 7/8
1 5/8	2.60	3 1/8
1 3/4	2.80	3 1/4
2	3.30	3 3/4
2 1/4	3.60	3 7/8
2 1/2	4.50	4 1/8

Flat Bearings

BABBITTED



Fig. 789

For Shaft Size Inches	Price Each	Size Base In
3/4	\$1.10	2 x
7/8	1.30	2 3/4 x
1	1.30	2 3/8 x
1 1/8	1.60	3 3/8 x
1 1/4	1.60	3 3/4 x
1 3/8	1.95	3 7/8 x
1 1/2	1.95	3 7/8 x
1 3/4	2.75	4 1/2 x
2	3.50	4 3/4 x

Intermediate Bearings

BABBITTED

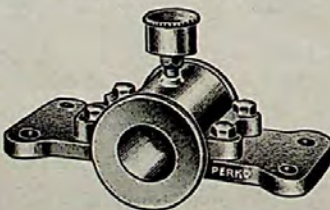


Fig. 941

Diameter Shaft Inches	Price Each	Length Overall Inches	Length Bearing Inches
1	\$3.60	7 1/4	3 1/2
1 1/8	3.60	8 1/4	3 3/4
1 1/4	4.25	8 1/4	3 3/4
1 3/8	4.25	8 1/4	3 3/4
1 1/2	4.75	9 1/4	4 1/4
1 3/4	5.50	9 1/4	4 1/4
2	5.50	10 1/2	5

Rear Bearings



Fig. 790

Shaft Size Inches	Price Each	A Inches	E Inches	E Inches
7/8	\$ 3.85	7 7/8	6	5 1/2
1	4.68	13 1/2	10 3/4	5 1/2
1 1/8	4.68	13 1/2	10 3/4	5 1/2
1 1/4	5.50	15	12	6 1/2
1 3/8	5.50	15	12	6 1/2
1 1/2	6.60	16 1/2	13 1/2	7 1/2
1 3/4	7.70	20	16 1/2	7 1/2
2	11.00	20	16 1/2	8 1/2

"Northeast" Thrust and Intermediate Bearing Combined
ALL ENCLOSED—RETAINS GREASE

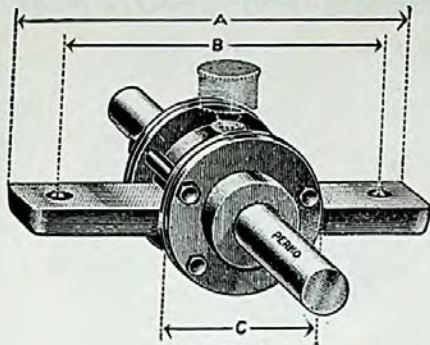


Fig. 742

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	\$ 9.00	10 1/2	9 1/8	3 1/4
3/4	11.00	10 1/2	9 1/8	3 1/4
7/8	12.00	10 1/2	9 1/4	3 1/4
1	12.50	11	9 1/2	3 1/2
1 1/8	13.25	11 1/4	9	3 1/2
1 1/4	15.00	11 1/4	9	4 1/8
1 3/8	17.00	11 1/4	9	4 1/8
1 1/2	18.00	11 1/4	9	4 1/8
1 3/4	22.00	12	10	4 1/2
2	24.00	12	10	4 1/2

Prices Do Not Include Grease Cups

"Northeast" High Speed Radial and Thrust Bearing Combined
NO MORE SCORED SHAFTS

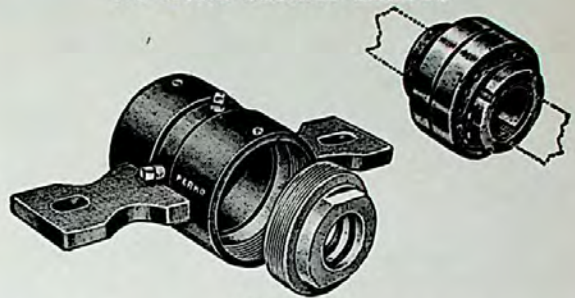


Fig. 1090

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	Regular Each	Heavy Duty Each	Width Overall Inches	Width Center to Center of Holes Inches
3/4	\$12.50		10	8
7/8	13.60		11	9
1	14.70	\$20.00	11	9
1 1/8	18.00	22.50	11	9
1 1/4	19.00	24.40	11	9
1 3/8	21.50	25.50	11	10
1 1/2	23.00	27.00	11	10
1 3/4	26.50	31.25	11	9 1/2
2	30.00	35.00	12	10

Larger sizes, price on application.

Universal Joints
DROP FORGED STEEL

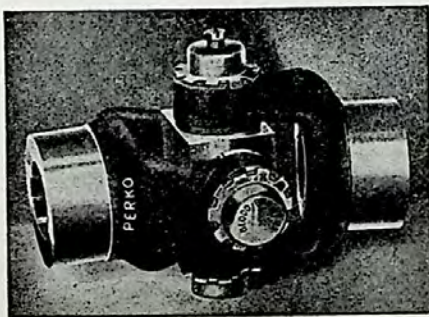


Fig. 791

An extremely rugged joint designed principally for marine use, turns in a small circle and is lubricated through a simple opening, the use of these joints will reduce vibration and lengthen the life of the boat and motor.

Size No.	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	119.00	2 3/4	8 1/8	14 1/2

Shaft Couplings
CAST IRON

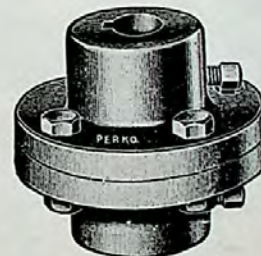


Fig. 327

No.	Price Each	Size Shaft Inches	Diam. Flange Inches	Length Overall Inches
1	\$3.50	3/4-7/8-1	4	3 1/2
2	4.25	3/4 to 1 1/2	4 1/2	4 1/8
3	5.25	1/8 to 1 1/2	5	4 3/4
14	8.00	1 to 2	6	6 1/2

For divided sizes such as 1 x 1 1/8, etc., add \$.50 each.
For special boring, not listed, add \$1.00 each.
For 1/2 coupling add \$.25 to half of above prices. No bolts furnished.

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Size Keyway Inches
3/4 - 7/8	1/8
1 - 1 1/8	1/4
1 1/4	5/16
1 3/8 - 1 1/2	3/8
1 3/4 - 1 3/4	1/2
1 7/8 - 2	5/8

GOODRICH CUTLESS BEARINGS

Stock Sizes—Table of Dimensions, Weights and 1940 Prices

SIZES SHOWN HERE ARE IN STOCK FOR IMMEDIATE SHIPMENT

A Shaft Diam. Inches	B Outside Diam. Inches	Standard Length Inches	D Rubber Wall Inches	D Metal Wall Inches	Shipping Weight Lbs.	Price Each \$	Sp'l Price Lbs. Price Lin. In.
						6.20	\$2.22
3/4	1 1/4	3	1/8	1/8	3/4	7.20	2.22
7/8	1 3/8	3 1/2	1/8	1/8	3/4	7.20	2.22
1	1 1/2	3 1/2	1/8	1/8	3/4	8.30	2.38
1	1 1/2	4	1/8	1/8	1	8.30	2.38
1	1 5/8	4	1/8	1/8	1 1/4	8.30	2.38
1 1/8	2	4	1/8	1/8	1 1/2	9.80	2.44
1 1/8	2	4 1/2	1/8	1/8	1 1/2	9.80	2.44
1 1/8	2 1/4	4 1/2	1/8	1/8	1 3/4	9.80	2.44
1 1/4	2 1/4	5	1/8	1/8	1 1/2	11.20	2.50
1 1/4	2 1/4	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	2 1/8	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 3/4	2 3/8	7 1/2	1/4	1/8	3 1/4	20.80	3.26
1 7/8	2 1/2	7 1/2	1/8	1/8	4	20.80	3.26
2	2 3/8	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 1/2	8 1/2	1/8	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 1/2	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 3/8	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	3/4	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	1/8	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	1/8	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	1/8	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	1/8	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	1/8	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

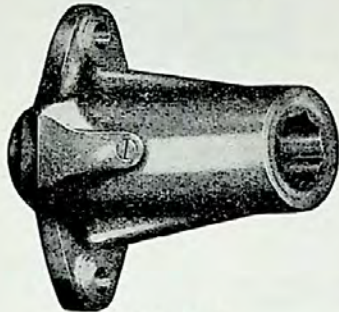


Fig. 381

With Square Flange

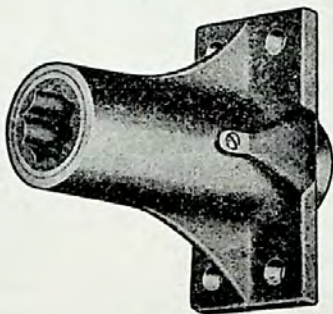


Fig. 382

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 5/8	8
2 1/4	55.60	10 1/2 x 5 1/4	9
2 1/2	64.80	11 1/2 x 5 3/4	10
2 3/4	79.00	12 3/4 x 6 3/8	11
3	93.00	14 x 7	12

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 Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$ 7.50	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 1/2	8 3/4
4	36.00	1 3/4-2	8x6	15 1/2

No. 4 size has Stuffing Gland like Fig. 630 instead of Nut, and four hose clamps.

Can be made one inch shorter if desired by cutting off that much hose.

Improved Stuffing Box

EXTRA HEAVY—CAST BRONZE

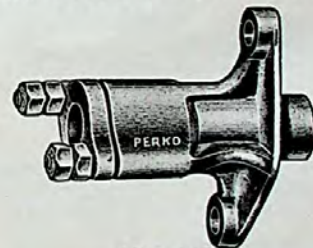


Fig. 630

A decided improvement over the regular type of stuffing box, extremely strong and heavily constructed, no nuts to bind on shaft or turn off, used with right or left hand engines, packing gland is kept in proper adjustment by two heavy tightening nuts and two lock nuts.

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Inches	Length Bearing Inches
1	\$ 6.25	\$ 8.00	5 3/4 x 3	1/2	5
1 1/8	6.75	8.50	6 3/8 x 3 1/4	1/2	5 1/2
1 1/4	7.75	9.50	7 x 3 1/2	3/8	6
1 3/8	9.00	10.75	7 3/8 x 3 3/4	3/8	6 1/2
1 1/2	11.00	13.25	8 1/8 x 4	3/4	7
1 3/4	13.50	17.00	9 1/8 x 4	3/4	8
2	17.00	21.50	10 1/8 x 4 1/2	3/4	9

GOODRICH CUT

Stock Sizes—Table of Dimensions

SIZES SHOWN HERE ARE IN STOCK

A Shaft Diam. Inches	B Outside Diam. Inches	Standard Length Inches
3/4	1 1/4	3
7/8	1 3/8	3 1/2
1	1 1/2	3 1/2
1	1 1/2	4
1	1 3/8	4
1	2	4
1 1/8	1 5/8	4 1/2
1 1/8	1 3/4	4 1/2
1 1/8	2	4 1/2
1 1/4	1 3/4	5
1 1/4	2	5
1 1/4	2 1/8	5
1 3/8	1 7/8	5 1/2
1 3/8	2 1/8	5 1/2
1 3/8	2 3/8	5 1/2
1 1/2	2	6
1 1/2	2 3/8	6
1 3/8	2 1/8	6 1/2
1 3/8	2 5/8	6 1/2
1 3/4	2 3/8	7
1 3/4	2 5/8	7
1 3/8	2 5/8	7 1/2
1 7/8	2 7/8	7 1/2
2	2 5/8	8
2	3	8
2 1/8	2 7/8	8 1/2
2 1/8	3 1/8	8 1/2
2 1/4	2 7/8	9
2 1/4	3 1/8	9
2 1/4	3 3/8	9
2 3/8	3 3/8	9 1/2
2 1/2	3 1/8	10
2 1/2	3 3/8	10
2 5/8	3 3/8	10 1/2
2 3/4	3 3/8	11
2 3/4	3 3/4	11
2 7/8	3 3/4	11 1/2
3	3 3/4	12
3	4	12
3 1/8	4 1/4	12 1/2
3 1/4	4	13
3 1/4	4 1/4	13
3 3/8	4 1/2	13 1/2
3 1/2	4 1/4	14
3 1/2	4 1/2	14
3 5/8	4 1/2	14 1/2
3 3/4	4 1/2	15
3 3/4	5	15
3 3/4	5 1/4	15
3 7/8	5 1/4	15 1/2
4	5	16
4	5 1/4	16
4 1/8	5 1/4	16 1/2
4 1/4	5 1/2	17
4 3/8	5 3/4	17
4 1/2	5 1/2	17 1/2
4 1/2	5 3/4	18
4 3/4	6 1/8	18
4 3/4	6 1/8	18 1/2
4 7/8	6 1/8	19
5	6 1/8	19 1/2
5	6 1/2	20
5 1/4	6 1/2	20
5 3/8	7	21
5 1/2	7	21 1/2
5 3/8	7	22
5 3/4	7	22 1/2
5 3/4	7	23
6	7 1/2	24



Fig. 1021

Stuffing Boxes

CAST BRONZE—HEAVY

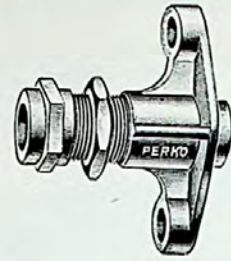


Fig. 631

Size Shaft Inches	Plain Each	Babbitted Each	Size Flange Inches	Drilled for Fastening Bearing 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 1/2
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 5/8 x 3 3/4	5/8	6	8
1 1/2	8.50	10.75	8 1/8 x 4	3/4	6 1/2	9 1/2
1 3/8	10.00	13.25	8 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 Bearing 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 3/8	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

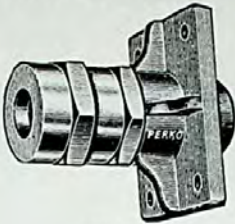


Fig. 819

For Diam. Shaft Inches	Plain Each	Babbitted Each	Size of Flange Inches	Length Bearing Inches
1	\$ 5.25	\$ 7.00	5 x3	4 1/8
1 1/8	5.75	7.50	5 1/2 x3 1/4	4 1/8
1 1/4	6.75	8.50	5 3/4 x3 3/8	4 3/8
1 3/8	8.00	9.75	6 x4	5 1/8
1 1/2	10.00	12.25	6 x4 1/2	5 5/8
1 3/4	12.50	16.00	6 1/2 x4 1/2	7
2	16.00	20.50	7 3/4 x5	7 7/8
2 1/4	22.00	28.00	8 1/4 x5 1/2	8
2 1/2	32.00	40.00	9 x6 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.

Extra Heavy Stern Bearing
RECTANGULAR FLANGE—CAST BRONZE



Fig. 906

Size of Flange and Bearing same as Fig. 819 above.

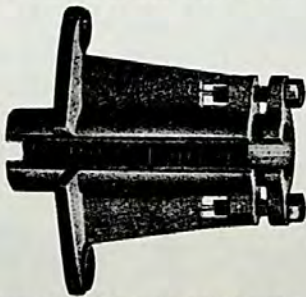
For Diam. Shaft Inches	Plain Each	Babbitted Each
1	\$ 3.50	\$ 5.25
1 1/8	4.00	5.75
1 1/4	4.50	6.25
1 3/8	5.50	7.25
1 1/2	6.50	8.75
1 3/4	9.00	12.50
2	11.75	16.25
2 1/4	16.50	22.50
2 1/2	24.00	32.00

No.	Price Each	For Size Shaft Inches	Size Flange Inches	Length From Flange to End of Box Inches
1	\$ 7.50	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 1/2	8 3/4
4	36.00	1 3/4-2	8x6	15 1/2

No. 4 size has Stuffing Gland like Fig. 630 instead of Nut, and four hose clamps.

Can be made one inch shorter if desired by cutting off that much hose.

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 x2 3/8	5 1/4	\$ 7.00
1 1/8	6 x3	5 3/4	7.25
1 1/4	6 3/8 x3 1/8	6 1/4	7.75
1 3/8	7 1/4 x3 5/8	6 3/4	8.50
1 1/2	8 x4	7 3/4	12.00
1 3/4	9 1/4 x4 3/8	9	17.50
2	10 1/2 x5 1/4	9 1 1/8	22.00
2 1/4	12 x6	11 1/8	28.50
2 1/2	13 1/4 x6 5/8	12 1/4	38.50

Improved Stuffing Box
EXTRA HEAVY—CAST BRONZE

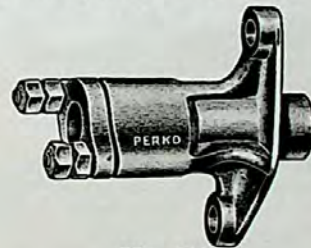


Fig. 630

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	\$ 6.25	\$ 8.00	5 3/4 x3	1/2	5
1 1/8	6.75	8.50	6 3/8 x3 1/4	1/2	5 1/2
1 1/4	7.75	9.50	7 x3 1/2	3/8	6
1 3/8	9.00	10.75	7 3/8 x3 3/4	3/8	6 1/2
1 1/2	11.00	13.25	8 1/8 x4	3/4	7
1 3/4	13.50	17.00	9 1/8 x4	3/4	8
2	17.00	21.50	10 1/8 x4 1/2	3/4	9

New Self Aligning Shaft Log

CAST BRONZE

ALLOWS INSTALLATION OF ENGINE WELL AFT



Fig. 589

Stuffing box and shaft are cushioned in rubber, reducing vibration in the hull to a minimum and eliminating excessive wear on shaft and bearing.

Base is sufficiently wide for watertight installation with gasket.

Furnished without screw or bolt holes to allow drilling as required.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt. Lbs.
0	\$5.50	5/8	8x4	9	14	3
1	8.50	3/4	10x5	11 1/4	14	5 1/2
2	8.50	7/8	10x5	11 1/4	14	5 1/2
3	8.50	1	10x5	11 1/4	14	5 1/2

New Adjustable Shaft Log

CAST BRONZE



Fig. 577

Cast Bronze Ball and Socket arrangement gives ample adjustment in all directions, very easy to install. Construction is strong to stand hard usage.

Normal operating angle is 16 degrees.

Range of adjustment between 12 and 25 degrees.

Nos. 1 to 5 are drilled and countersunk for 1/4 inch bolts.

Nos. 6 and 7 are drilled and countersunk for 5/16 inch bolts.

Furnished complete as illustrated with grease cups. Flange bolts are locked with set screws.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$12.00	3/4	17 3/4	14	3 3/8	11
2	12.00	7/8	17 3/4	14	3 3/8	11
3	12.00	1	17 3/4	14	3 3/8	11
4	20.00	1 1/8	25	20	4 1/2	21
5	20.00	1 1/4	25	20	4 1/2	21
6	31.50	1 3/8	28 1/2	23	5 1/4	28
7	31.50	1 1/2	28 1/2	23	5 1/4	28

Adjustable Shaft Logs

ALL CAST BRONZE—EXTRA HEAVY

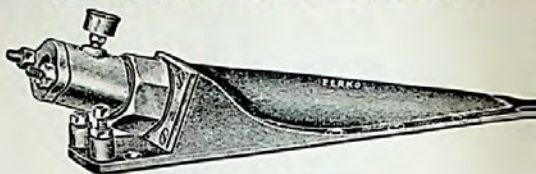


Fig. 627

Without doubt a shaft log superior to any other yet on the market, made entirely of high grade bronze, stuffing box is adjustable to any angle 360° radius and is supported by two adjustable logs. It will keep it from turning with the shaft should binding or freezing ever occur. Furnished complete with grease cups and rubber gasket for installing.

No.	Price Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$15.25	3/4, 7/8, 1	16	3 1/2	
2	23.00	1 1/8, 1 1/4	22	4 1/4	
3	35.00	1 3/8, 1 1/2	26	5	
4	50.00	1 3/4, 2	28	5 1/2	

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 stuffing hose clamps.

No.	Price Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Pitch	Wt. Lbs.
1	\$ 9.00	3/4-7/8-1	11x3 1/2	18	14	
2	14.00	1 1/8-1 1/4	17x4 1/4	23 1/2	11	
3	20.00	1 3/8-1 1/2	19x5	28	11	

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	Wt. Lbs.
0	\$ 1.75	.40	\$.40	1 1/4	1 3/4	
1	3.50	.60	.60	1 3/4	2 3/8	
2	4.50	.90	1.40	2 3/8	3	
3	7.00	1.50	1.70	2 5/8	3 1/2	
4	15.00	5.00	2.00	3	3 3/4	

When Ordering Box state Size of Shaft

No. 4 size has stuffing gland like Fig. 627 instead of nut.

Adjustable Strut

ALL CAST BRONZE
MARINE BABBITT BEARING

Side View

End View

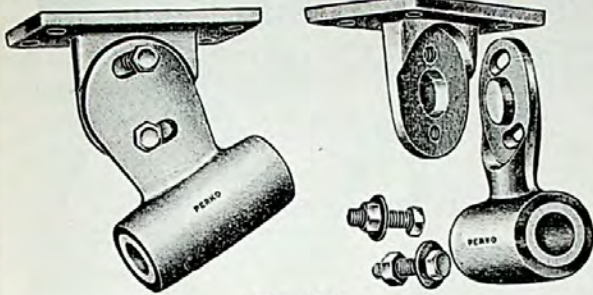


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by three heavy bronze bolts, bearing is of a special marine babbitt, the highest grade obtainable. Length of drop is figured from bottom of keel to center of shaft.

Lgth. Drop In.	Size Shaft Inches					
	3/4	7/8	1	1 1/8	1 1/4	1 1/2
5	\$ 8.75	\$ 8.75	\$ 8.75	\$12.00		
6	9.00	9.00	9.00	12.50	\$12.50	\$14.25
7	9.25	9.25	9.25	12.75	12.75	14.50
8	9.50	9.50	9.50	13.00	13.00	15.00
9	10.00	10.00	10.00	13.25	13.25	15.50
10	10.50	10.50	10.50	13.50	13.50	15.75
11	11.00	11.00	11.00	14.00	14.00	16.00
12				14.50	14.50	16.50

Specify Size Shaft and Length of Drop, When Ordering

Adjustable Strut

WITH GOODRICH RUBBER BEARING
CAST BRONZE—EXTRA HEAVY

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches
3/4	3	5 1/2	3
7/8	3	5 1/2	3 1/2
1	3	5 1/2	4
1 1/8	3	5 1/2	4 1/2
1 1/4	3 1/2	6 1/2	5
1 3/8	3 1/2	6 1/2	5 1/2
1 1/2	3 1/2	6 1/2	6



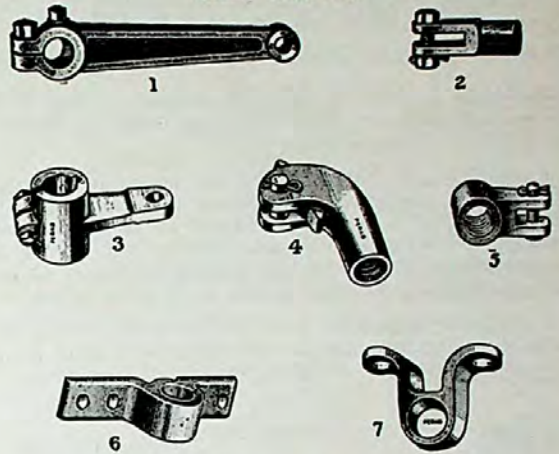
Fig. 1019

Lgth. Drop In.	Size Shaft Inches					
	3/4	7/8	1	1 1/8	1 1/4	1 1/2
5	\$20.25	\$21.25	\$24.25	\$26.50	\$31.50	\$33.25
6	20.75	21.50	24.50	26.75	32.00	33.50
7	21.00	22.00	25.00	27.00	32.25	34.00
8	21.50	22.25	25.25	27.50	32.50	34.25
9	21.75	22.50	25.50	27.75	33.00	34.50
10	22.25	23.25	26.00	28.50	33.25	35.00
11					33.50	35.25
12					34.50	36.00

Specify Size Shaft and Length of Drop, When Ordering

Steerer and Control Parts

CAST BRONZE



PERKO

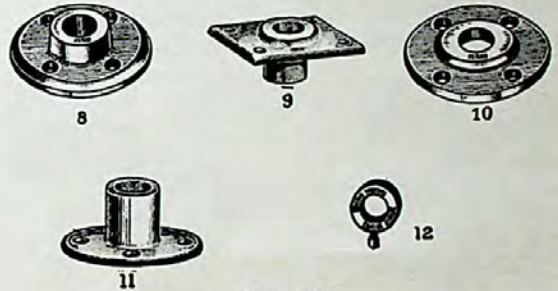


Fig. 865

No.	Plain Each	Length Center of Holes Inches	Extreme Length Inches	For Diam. Rod Inches	Tapped For Pipe Inches	Diam. Bolt Inches	Size Jaws Inches
1	\$3.30	6	8	1		1/2	
2	2.00	2 3/4	4 1/2	3/4	1/2	5/8	5/8
3	3.00	2 3/4	4 1/2	1		1/2	
4	2.25	3 1/2	3	1	3/4	1/2	5/8
5	2.00	1 3/4	3	1	3/4	1/2	5/8

No.	Polished Each	Length Inches	Width Inches	Outside Diam. Inches	For Diam. Rod Inches	Depth to Center of Bore Inches
6	\$2.50	7	1 1/4		1	1 1/8
7	2.50	4 1/2	1 1/4		1 or 1 1/8	2 1/8
8	2.25			3 3/4	1	
9	2.25	4	3 3/8		1	
10	2.25			4	1 or 1 1/8	
11	2.50 Plain			4 3/4	1	Height 2 1/8
12	.70			1 1/2	1 or 1 1/8	

Bronze Universal Joints

CAST BRONZE—PLAIN



Fig. 93

No.	Each	Bored for Rod Inches	Tapped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$2.00	3/4	1/2	4 1/2	1
2	5.00	1	3/4	6	2 1/4

"Perko" Reverse Gear Controls

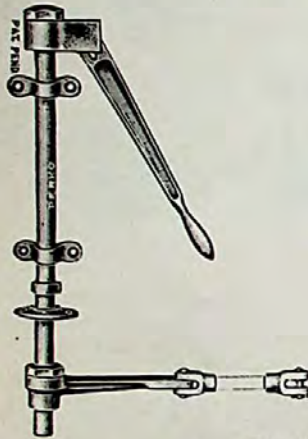
HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/4 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE

The main feature of "Perko" controls is that it is unnecessary to have shaft machined, such as threading, key seating or drilling.

A mechanically perfect wedging device is incorporated in both upper and lower lever (patent pending). When installing it is only necessary to insert tapered bushing "B" around shaft and tighten nut "A" and an absolutely fast grip on the shaft is obtained, at no extra expense for machining, and very little labor.

A simple arrangement holds the control handle horizontally and when not in use can be placed in a vertical position by a slight movement of the hand.



Interior view of tapered fastening device.

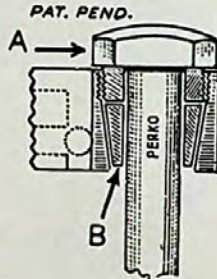


Fig. 663

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	1 1/4	2	15 1/4

Fittings complete—except shaft \$23.00
1 inch bronze shaft—per foot 2.00
1 1/4 inch bronze shaft—per foot 2.50

Do not fail to specify size of shaft when ordering

Reverse Gear Controls

SPECIAL CAST BRONZE

A good substantial handle which will not bend under side leverage, special hard government bronze. Handle is removable and a flush plate is furnished to fit opening in deck flange.

Furnished with two sockets threaded for 3/4 inch rod. Deck flange is 5 x 2 3/4 inches. Length of throw is 8 1/2 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches
\$13.50	\$16.25	25	8



Fig. 720

"Perko" Reverse Gear Control

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH SHAFT

Same tapered bushing device as Fig. 663 in upper and lower levers, no machining of shaft necessary

Control handle is hinged so that it hangs in vertical position out of way when not in use.

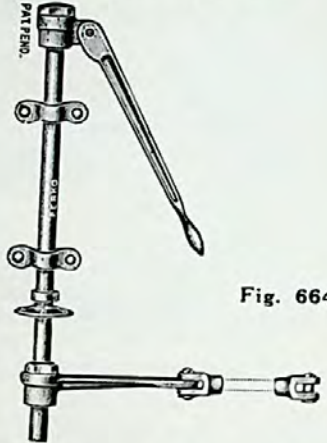


Fig. 664

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Diam. Vertical Shaft Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	1	2	13

Fitting complete—except shaft \$17.00
1 inch bronze shaft—per foot 1.50

Clutch Control
CAST BRONZE—POLISHED

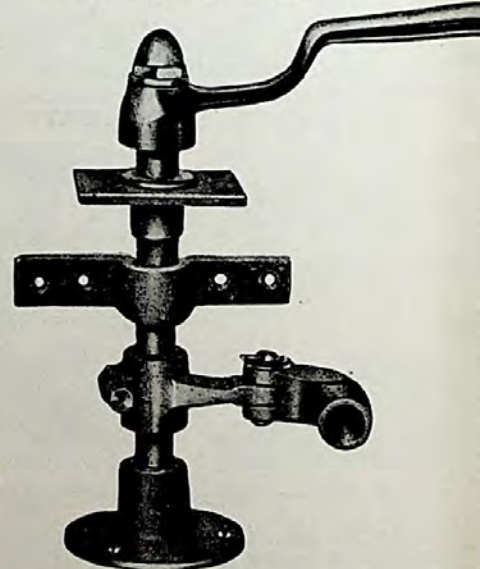


Fig. 822

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 \$14.00

Above items, (Except Fig. 720) desired CHROMIUM PLATED, add 40% to Polished Bronze Price

Spark and Throttle Controls

FRICION TYPE FOR CONTROL ROD
CAST BRONZE



Fig. 653

All control connections are inside bulkhead, out of sight after installation. Control rod sockets are tapped for 1/4 or 5/16 inch rod. Shafts for connecting rods are long enough for mounting on bulkhead 2 inches thick.

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.

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

FRICION TYPE—FOR BOWDEN WIRE

Same construction as Fig. 653 above except connections which are designed for a bowden wire and casing installation. Equipment includes special clips for connecting bowden wire and two swivel clamps for supporting bowden casing.

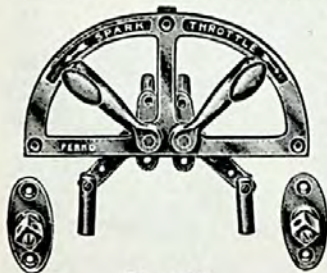


Fig. 654

For more detailed information on bowden clamp refer to Fig. 352.

Polished Bronze Each	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

Throttle Controls

FOR ROD OR CONTROL WIRE
CAST BRONZE—RATCHET TYPE



Fig. 715
For Control Wire



Fig. 716
For Control Rod

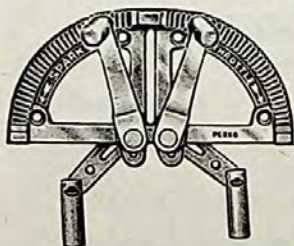
A strong and very practical control for all types of boats, an improved ratchet device that is almost noiseless, yet the handle cannot be shifted out of place by vibration. Furnished with finishing plate for outside of bulkhead, all bolts and swivel fittings for control wire and casing, or rod socket for 1/4 or 5/16 inch rod.

Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches
\$4.00	\$5.00	\$5.50	\$6.50	6	2 3/8

BE SURE TO SPECIFY SIZE OF ROD WHEN ORDERING

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

Front Bulkhead Controls

FOR SPARK AND THROTTLE

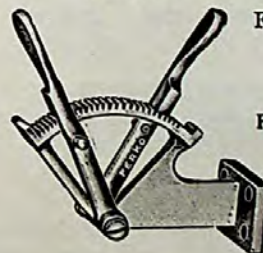


Fig. 409

For use with Control Wire and Casing.

	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
Single	\$2.50	\$3.50	\$5.20
Double	3.50	4.50	6.30

Remote Throttle Controls

PLAIN CAST BRONZE
FOR OUTBOARD MOTOR BOATS

SIDE PATTERN

FLOOR PATTERN

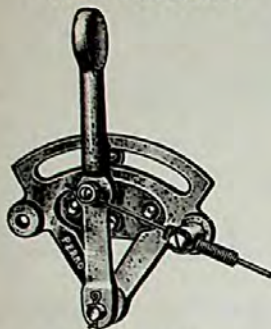


Fig. 350

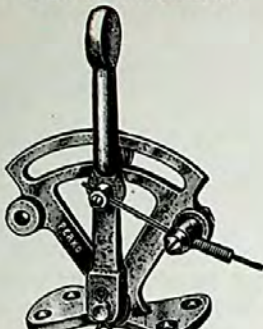


Fig. 351

Sturdily constructed of cast bronze especially designed for the racing driver's convenience. A long handle giving full leverage. Arrangement of side plate allows installation on gunwale while at the same time, it does not project above deck enough to cause injury in case of upsetting. Furnished complete with necessary bowden wire fittings.

Size Floor Plate Inches	Width Overall Inches	Height Overall Inches	Weight Ounces	Either Style Each
3x1 3/4	3 3/4	5 1/4	14	\$1.75

Prices do not include Bowden Wire or Casing.

Spark and Throttle Controls

CAST BRONZE



Fig. 904

Side Bracket



Fig. 905

Position can be changed by loosening one screw. The toothed arc holds control in desired position. Control rod sockets are tapped for 1/4 or 5/16 inch rod.

Fig.		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

Arens Control Wire and Casing

BRONZE WIRE—WITH FABRIC COVER



Fig. 990

This material is remarkable in operation particularly where long lengths or bends of small radius are necessary. All parts treated for protection against rust and corrosion. Guaranteed to give smooth trouble free service.

6 Ft. Lengths Each	9 Ft. Lengths Each	12 Ft. Lengths Each	36 Ft. Lengths Each
\$2.50	\$3.75	\$5.00	\$15.00

Improved Throttle Control

FOR CONTROL WIRE
STRAIGHT PUSH AND PULL—ALL BRASS

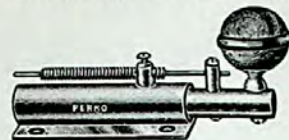


Fig. 190

An improved control giving smoother action to control wire, helps eliminate kinks in wire by direct and pull of handle. All brass except handle which is bakelite knob. Length of pull is 2 1/2 inches.

Polished Each	Chromium Plated Each	Overall Length Inches	Overall Width Inches	Overall Height Inches
\$2.50	\$4.00	6	1 1/2	2 1/2

Dashboard Choke Controls

ALL BRASS CONTROL HANDLE



Fig. 371

WITH STEEL CASING AND WIRE		WITH BRASS CASING AND WIRE		WITH BRONZE CASING AND WIRE		WITH ARENS BRONZE CASING AND WIRE	
5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	6 Ft. Lengths Per Set	9 Ft. Lengths Per Set
\$2.00	\$2.20	\$2.50	\$2.90	\$2.85	\$3.40	\$4.50	\$6.00
10 Ft. Lengths Per Set	15 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set	12 Ft. Lengths Per Set	36 Ft. Lengths Per Set
\$2.50	\$3.00	\$3.50	\$4.50	\$4.20	\$5.50	\$7.50	\$19.50

With nickel plated handle, add \$.25 per set.
With chromium plated handle, add \$.60 per set.

Control Wire Handles

ALL BRASS

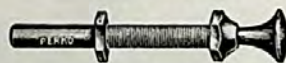


Fig. 692

Control wire and casing can be easily attached. 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 Wire and Casing

A high grade remote control wire, flexible strong. Casing is 1/4 inch outside diameter.



Fig. 353

Wire and casing furnished in lengths up to 100 feet each.

	Per Foot
Steel wire with casing	\$.
Brass wire with casing	\$.
Phosphor bronze wire with casing	\$.

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
5/16	.25	3/8 x 3/4

Control Rod Sockets

HEAVY TYPE—BRONZE



Fig. 298

Tapped for Rod Inches	Price Each	Size of Slot Inches
1/4	\$.25	3/8 x 3/4
5/16	.30	1/2 x 3/4

Bowden Casing Clamp

CAST BRONZE—SWIVEL TYPE



Fig. 352

Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle; size base, 2 1/4 x 1 inch.

Price Each—Plain Bronze \$.50

Control Wire Sockets

BRASS

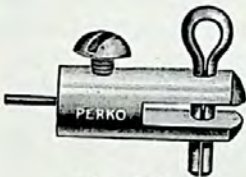


Fig. 679

Complete with brass cotter pin and brass set screw.

Price Each \$.25

Price Does Not Include Control Wire

Control Cranks

PLAIN CAST BRONZE

Furnished for single or double controls as desired. Cranks are solid castings with 90 degree angle. Control rod sockets are tapped for 1/4 inch or 5/16 inch rod.

Side Type

Upright Type



Fig. 636

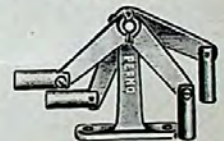


Fig. 637

SIDE OR UPRIGHT TYPE

For Rod Inches	Single Complete Each	Double Complete Each	Cranks Only Each	Brackets Only Each
1/4	\$1.10	\$1.75	\$.35	\$.40
5/16	1.35	2.25	.40	.50

Elbow Ball Joints

BRONZE

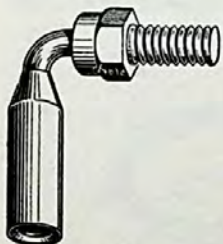


Fig. 792

Ball joints are very desirable when installing spark and throttle controls carburetor or choke control, etc.

Both ends threaded for 1/4" rod, 20 threads to inch.

PRICE EACH \$.25

Sounding Leads



Fig. 940

Furnished in all weights up to 50 pounds.

PRICE PER POUND \$.25

Adjustable Ball Joints

BRONZE



Fig. 793

Adjustable for wear, Ball is held by stiff spring and cannot rattle or work loose.

Threaded 1/4", 20 U.S.S.

PRICE EACH \$.40



Fig. 597

Lead Lines

ITALIAN HEMP

Made of the finest Italian hemp and marked every fathom by the latest approved method.

Length	Each
10 fathoms	\$ 4.50
15 fathoms	6.00
20 fathoms	7.25
30 fathoms	10.00

Prices above do not include lead.

Runabout Steerers

DASHBOARD TYPE—FOR TILLER ROPE
15 INCH WHEEL—PEARL GRAY FINISH
POLISHED ALUMINUM ALLOY CASTINGS

These steerers combine good looks and sturdiness. The wheel is hard rubber with steel core.

10 feet of Bowden wire is furnished with steerers having throttle control.

WITH 22 DEGREE BRACKET

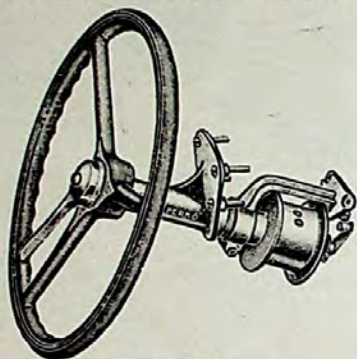


Fig. 1131

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Inside Diam. Drum Inches	Weight Pounds
\$14.75	\$16.00	6½	13	3	8

WITH 40 DEGREE BRACKET

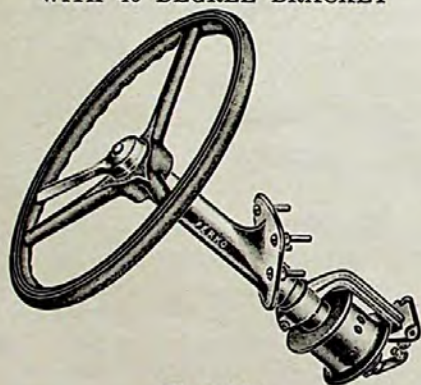


Fig. 1149

Without Controls Each	With Controls Each	Length Dash to Wheel Inches	Length Overall Inches	Inside Diam. Drum Inches	Weight Pounds
\$15.75	\$17.00	10½	17	3	9¼

Racing Outboard Steerers

WITHOUT CONTROLS



Fig. 737

NO. 1 WHEEL HAS PEARL GRAY FINISH.
NO. 2 WHEEL HAS BLACK FINISH.

Aluminum alloy castings with hard rubber steel core wheel.

No.	Each	Diam. Wheel Inches	Diam. Base Inches	Extreme Height Inches	Diam. Drum Inches	Weight Pounds
1	\$ 9.00	15	6¼	5½	3	6½
2	10.00	16¾	7¼	6½	4	8

Runabout Steerer

IMPROVED DASH TYPE
WITH THROTTLE AND CHOKE CONTROLS
16¾ INCH WHEEL—BLACK FINISH
POLISHED BRONZE CASTINGS

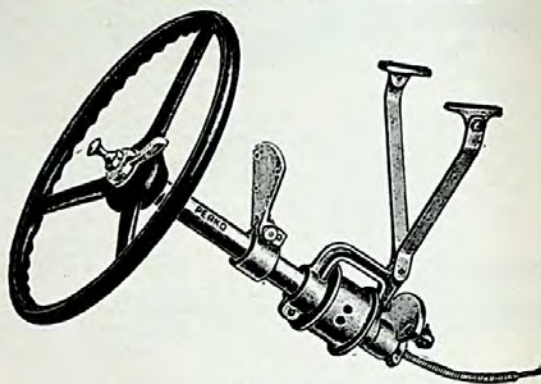


Fig. 448

This steerer designed for all types of boats, dashboard bracket and under deck brackets are adjustable to various angles. Dash bracket can be installed inside or outside of dash.

Wheel is hard rubber, steel cored. Drum is aluminum.

Furnished with two 10 foot lengths of Bowden wire for throttle and choke controls.

Without Choke Control Each	With Choke Control Each	Length Overall Inches	Size Dash Bracket Inches	Inside Diam. Drum Inches	Weight Pounds
\$18.00	\$20.00	17¾	4x4	3	13

Exposed parts, nickel plated, add \$1.00 each.

Exposed parts, chromium plated, add \$2.00 each.

Racing Outboard Steerers

WITH REMOTE THROTTLE CONTROL AND CUTOUT



Fig. 447

NO. 1 WHEEL HAS PEARL GRAY FINISH.
NO. 2 WHEEL HAS BLACK FINISH.

Wheel is hard rubber with steel core. All metal parts are aluminum alloy. Furnished complete with 10 feet Bowden wire and fittings.

No.	Each	Diam. Wheel Inches	Diam. Base Inches	Extreme Height Inches	Diam. Drum Inches	Weight Pounds
1	\$12.00	15	7½	6	3	7½
2	13.00	16¾	7½	6½	3	9½

Galvanized Steerers
GALVANIZED CAST IRON
MAHOAGANY 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 3/8	3 3/8
20	8.75	5 1/8 x 5 1/8	3 3/8	4 3/8
25	18.00	5 3/4 x 5 3/4	4	6

Bronze Steerers

RIBBED PATTERN—WILL NOT BEND
MAHOAGANY 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 3/8	3 3/8
20	17.00	19.50	5 1/8 x 5 1/8	3 3/8	4 3/8

Bronze Steerers

OVAL RIM—OVAL SPOKES
MAHOAGANY DRUM AND GRIPS

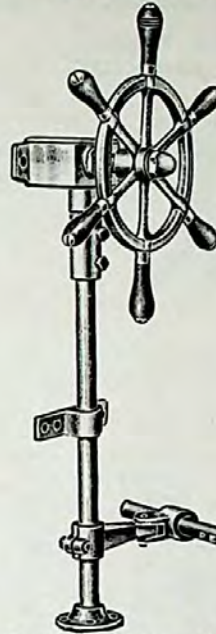


Fig. 660

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 3/8	3 3/8
20	17.00	19.50	5 1/8 x 5 1/8	3 3/8	4 3/8

Bronze Worm Geared Steerer

MODEL A-1



Worm type gears enclosed in cast bronze case produce powerful action remarkably smooth in operation and insures easy steering, 1 1/4 turns of the wheel obtains 45 degree angle of rudder.

Worm type gears automatically "lock" the rudder in desired position until wheel is turned to change course.

Wheel is of heavy cast bronze, highly polished, with hardwood handles.

	Inches
Diam. Wheel Shaft	1
Fittings for Rod	1
*Length Wheel Shaft	5 1/2
Size Mounting Flange	7 1/4 x 2 1/2
Depth Gear Box	3 1/2

Fig. 820

Complete except shafting, with 16 inch bronze wheel	\$39.00
Complete except shafting, with 20 inch bronze wheel	41.00
With 24 inch bronze wheel	46.00
Worm Steerer only, without wheel, shafting or other fittings	18.00
16 inch bronze wheel only	11.00
20 inch bronze wheel only	13.20
24 inch bronze wheel only	18.00
Lower lever with clevis	5.25
Bulkhead bracket only	2.50
Floor plate only	2.50

Model A-1 for wheelbox or outside bulkhead mounting. For inside bulkhead mounting, specify Model E. * Length wheel shaft measured between wheel and box.

Worm Geared Dual Steering Unit
ALL BRONZE



Fig. 537

A very compact assembly incorporating the many advantages of our worm type steerers described above, with the added feature of a connection for a vertical shaft to connect with a steering wheel on the upper deck or cabin roof. Both steering wheels have the same ratio with the lower shaft.

Wheel shaft is 1 inch diameter bronze rod. All fittings are for 1 inch diameter vertical rod.

Complete as Illustrated Each	Extreme Width Inches	Depth Box Inches	Height Box Inches	Length Shaft Inches
\$55.00	8 1/2	6 1/8	5 1/4	6

For wheel and other fittings refer to Fig. 820.

BRACKET CHAIN TYPE STEERERS

CAST BRONZE BRACKET AND SPROCKET

WITH POLISHED BRONZE WHEEL
FOR OUTSIDE BULKHEAD MOUNTING

WITH POLISHED BRONZE WHEEL
FOR INSIDE BULKHEAD MOUNTING



Chromium Plated Prices apply only to wheel, shaft and nut.



Fig. 674

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	$\frac{7}{8}$
25	36.00	40.00	1

Size Wheel Inches	Polished Each	Chromium Plated Each	Diameter of Shaft Inches
16	\$25.00	\$28.00	$\frac{7}{8}$
20	31.00	34.50	$\frac{7}{8}$
25	36.00	40.00	1

WITH INLAID MAHOGANY WHEEL

WITH HARD RUBBER STEEL CORE WHEEL



Fig. 676



Fig. 699

Size Wheel Inches	Price Each	Diam. of Shaft Inches
20	\$50.00	$\frac{7}{8}$
24	58.50	1
28	68.50	1

Diam. Wheel Inches	Each	Diam. Shaft Inches
16 $\frac{3}{4}$	\$24.00	1

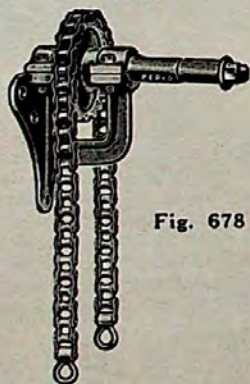


Fig. 678

BRACKET STEERER, COMPLETE EXCEPT WHEEL

Furnished complete with 36 inches of chain as shown, with long shaft and keyway for mahogany wheel. Chain has $\frac{5}{8}$ 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	$\frac{7}{8}$
24	23.00	1
28	26.00	1

Standard Overall Length of Shaft for Bronze Wheel 7 $\frac{1}{4}$ inches
 Standard Overall Length of Shaft for Mahogany Wheel 9 $\frac{1}{4}$ inches
 Special Length of Shaft, add \$.25 per inch.

Extra 36 inch lengths of Brass Roller Chain with Ends, Price, \$7.50 Each
 Extra Sprockets, 4 $\frac{3}{8}$ diameter, 21 teeth 3.50 Each

ALL ABOVE STEERERS FURNISHED FOR INSIDE OR OUTSIDE BULKHEAD MOUNTING, PLEASE SPECIFY

Bronze Steering Wheels

6 ROUND SPOKES—ROUND RIM
TEAKWOOD HANDLES

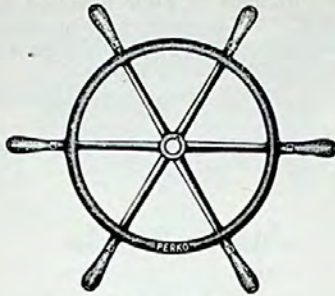


Fig. 197

Diam. Inches	Polished Each	Chromium Plated Each	For Diam. Shaft Inches	Length Hub Inches	Keyway Inches
20	\$13.20	\$17.00	1	2 1/8	1/4
24	18.00	23.00	1	2 1/8	1/4
28	24.00	30.00	1 1/4	2 1/2	3/8

Bronze Steering Wheel

POLISHED—HEAVY TYPE
USED ON FIG. 674 CHAIN TYPE STEERER

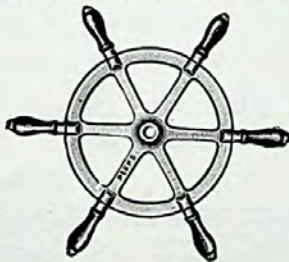


Fig. 976

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	1	1	1/4
25	11.50	15.00	1 1/4	1 1/4	1/4

Galvanized Steering Wheels

WITH WOOD HANDLES, BRONZE TIPS



Fig. 977

Diam. Inches	Each	Number Spokes	For Diam. Shaft Inches	Length Hub Inches	Est. Wt. Each in Lbs.
20	\$12.50	6	1 1/8	2 1/8	9
22	15.50	6	1 1/8	2 1/8	13
25	18.00	6	1	2 1/8	16
28	21.00	6	1 1/8	2 1/8	21
30	24.00	8	1 1/4	3 1/8	31
36	33.00	8	1 3/8	3 1/8	41

Mahogany Steering Wheels

INLAID RIM—CAST BRONZE HUB

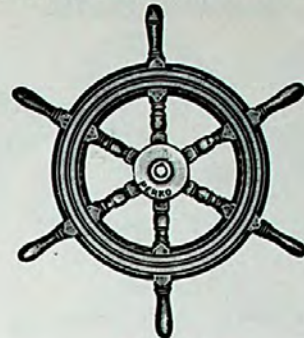


Fig. 657

Diam. Overall Inches	Each	For Diam. Shaft Inches	Thickness of Hub Inches	Size Keyway Inches
20	\$25.00	7/8 or 1	2 1/8	1/4
24	30.00	1	2 1/8	1/4
28	36.00	1	2 1/8	1/4
30	42.00	1	2 1/8	1/4
32	48.00	1 1/8	2 1/8	1/4
34	51.00	1 1/8	2 1/4	1/4
36	66.60	1 1/4	2 1/2	3/8
42	81.50	1 1/4	2 1/2	3/8
48	92.50	1 3/8	2 1/2	3/8

All above wheels are measured from end to end of grips.

Above wheels with drum and stand furnished promptly to order.

Hubs for Wood Steering Wheels

CAST BRONZE



Fig. 1018

Diam. Inches	Polished Bronze Each	Chromium Plated Each	Number of Spokes
4	\$ 5.50	\$ 7.50	6
5	7.75	10.00	6
6	15.50	18.00	8

State Size of Bore and Keyway when ordering.

Lever with Clevis

CAST BRONZE



Fig. 978

Lever is made for 1 inch rod. Clevis is threaded for 3/4 inch pipe.

Complete Each	Lever Only Each	Clevis Only Each	Length Overall Inches
\$5.25	\$3.30	\$2.00	10 1/4

Air-tone Marine Horns

POWERFUL TONE OF AN AIR WHISTLE
CHROMIUM PLATED

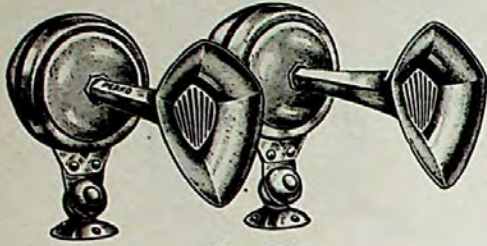


Fig. 808

MATCHED TONE, SOLD ONLY IN PAIRS

Made of noncorrosive metal, heavily chromium plated, motor and vibrator are fully enclosed and watertight.

Furnished complete with control button and marine relay which allows the control button to be placed a long distance from the horns.

Largest diameter, 6 inches; length overall, 13 3/4 inches.

Price per pair, 6 volt	\$27.00
Price per pair, 12 volt	31.00
Price per pair, 32 volt	34.00

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	6 Volt	
			Polished Brass Each	Chromium Plated Each
13	7 1/4	3 3/8	\$12.50	\$15.00

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

Mile-Away Horn

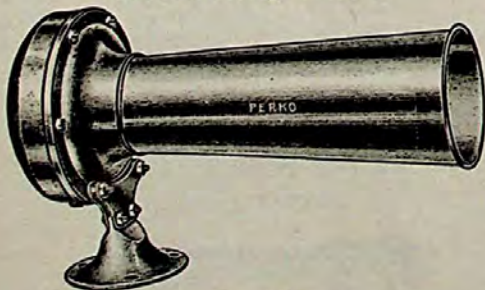


Fig. 75

Length Overall Inches	Height Overall Inches	Diam. Base Inches	6 Volt	
			Polished Brass Each	Chromium Plated Each
15 3/4	8 1/2	3 3/8	\$20.00	\$22.50

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

Speed-Way Marine Horns

POLISHED BRASS AND CHROMIUM PLATED

These horns produce a high powered commanding note, the long narrow projectors being responsible for the long distance tone carrying qualities and reducing back pressure of tone to a minimum.

Constructed of brass and other corrosion resistant material.

Furnished complete with marine type relay and push button. Very attractive in appearance.

Junior Single

6-12 AND 32 VOLTS

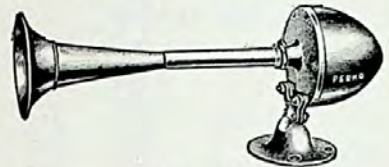


Fig. 110

	Polished Brass Each	Chromium Plated Each	Length Overall Inches	Width Inches
Volts				
6	\$10.00	\$12.50	19	4 1/2
12	12.00	14.50	19	4 1/2
32	13.50	16.00	19	4 1/2

Junior Twins and Senior Twins

6-12 AND 32 VOLTS

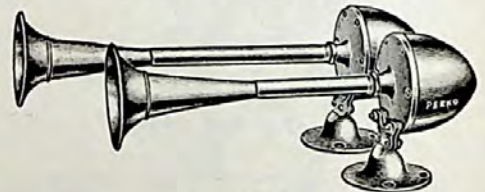


Fig. 111

Type	Length Overall		Width Each Horn Inches
	Short Horn Inches	Long Horn Inches	
Junior	16	19	4 1/2
Senior	18	22 1/2	5 1/8

Volts	Junior		Senior	
	Polished Brass Per Pair	Chromium Plated Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
6	\$19.50	\$22.50	\$22.50	\$25.00
12	23.50	26.50	26.50	29.00
32	26.50	29.50	29.50	32.00

Remote Control Relays

FOR SEARCHLIGHTS, HORNS, ETC.
6-12-32 VOLTS



Fig. 105

For elimination of line loss on long line runs.

Will make searchlights develop more light, horns develop more power. Fans and other small motors run faster.

Very necessary on low voltage battery systems.

Each	Height Inches	Width Inches
\$1.25	1 3/8	3 1/4

Specify voltage when ordering

Junior Siren

ELECTRIC HIGH SPEED MOTOR

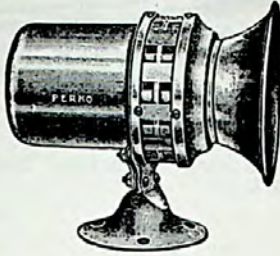


Fig. 192

Case, projector, bracket, etc., made of brass. Other parts cadmium plated. A powerful and distinctive tone that can be heard for a distance of over 1,000 yards. Furnished complete with deck bracket, push button and 10 feet of cable.

Length Overall Inches	Height Overall Inches	Diam. Base Inches	6 Volt	
			Polished Brass Each	Chromium Plated Each
7½	5¾	3¾	\$15.50	\$18.00

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

New Marine Sirens

BRASS—CHROMIUM PLATED
6 AND 12 VOLTS

THE SEA-MITE

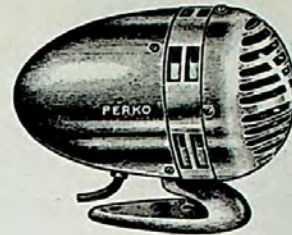


Fig. 1117

Extremely Powerful

A siren of fine tone quality, dependability and performance at a remarkably low price.

Manufactured primarily for marine use, has all brass case, brass screws and die cast white metal rotor.

Its neat streamlined appearance will add distinction to any boat.

Furnished complete with 10 ft. cable and heavy duty push button.

Volts	Chromium Plated Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$20.00	7¾	5¾	4⅝	5¼
12	22.50	7¾	5¾	4⅝	5½

Senior Siren

ELECTRIC HIGH SPEED MOTOR



Fig. 193

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.

Height Overall Inches	Diam. Inches	6 Volt	
		Polished Brass Each	Chromium Plated Each
11½	6⅞	\$15.00	\$17.50

For 12 volt equipment add \$2.00.
For 32 volt equipment add \$3.50.

THE YACHTSMAN

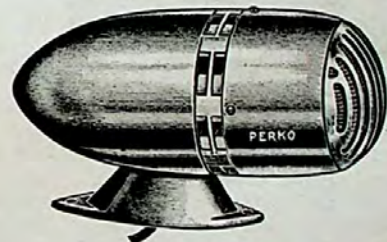


Fig. 1118

A siren that audibly commands the right of way. An ear piercing tone that can be heard for miles.

Has specially designed motor for economical operation, equipped with greased sealed ball bearings for smooth operation.

These sirens are ruggedly constructed for severe usage and precision built for long life.

All brass case, brass screws and die cast rotor. Built for marine use.

Furnished complete with long cable and heavy duty push button.

Volts	Chromium Plated Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
6	\$56.00	13½	7½	5¾	10

For 12 or 32 Volts Add \$4.00 Each

Fog Horns
WITH ADJUSTABLE REED



Fig. 162

These horns have a patented slide on the reed which controls the tone. Very easy to adjust or tune.

Length Overall Inches		Galv. Per Doz.	Brass Per Doz.
18	Without Bell	\$11.00	\$16.50
20	With Bell, as illustrated	13.00	18.50
24	With Bell, as illustrated	15.50	20.00

Two Tone Signal Horns

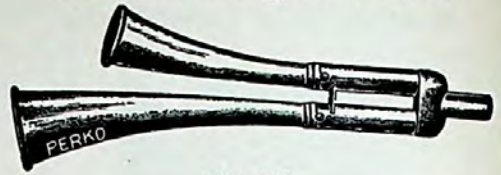


Fig. 165

Solid brass. Very loud, double tone. Blown by mouth. Easily taken apart.

Length Overall Inches	Polished Brass Each	Nickel Plated Each
7 1/2	\$2.25	\$2.70
10	2.65	3.20

Midget Fog Horn

GALVANIZED OR POLISHED BRASS WITH NICKEL PLATED MOUTHPIECE



Fig. 253

It's amazing, the fine deep loud tone this small horn produces. Ideal for storing in a small space. Has slotted hole in large end for hanging on wall.

Length Inches	Galvanized Per dozen	Polished brass Per dozen
15	\$8.00	\$12.00

Full Tone Whistle



Fig. 164

Made of solid brass, nickel plated. Blown by mouth or can be attached to compressed air tank or steering pipe by removing mouthpiece. Standard pipe thread, 1/2 inch.

Polished Brass Each	Nickel Plated Each	Chromium Plated Each	Size Inches
\$2.00	\$2.20	\$3.00	1 1/8 x 6 3/4

Police or Signal Whistle

Solid brass, nickel plated, loud, clear tone.



Fig. 349

Price per dozen, \$6.00

Mouth Blown Sirens
BRASS



Fig. 138

If a signal or warning whistle with a different tone than the usual is desired this is it.

Mouth piece contains a high speed fibre rotator, delicately balanced on bronze needle bearing. Requires no effort to produce a high pitched penetrating sound easily heard a half mile or more away.

A small child can blow it effectively.

No.	Polished Brass Each	Chromium Plated Each	Extreme Length Inches	Diam. Mouth Inches
1	\$4.00	\$4.75	7	3 3/8
2	4.25	5.00	9	4 3/8

Triplex Motor Boat Whistle
WITH METAL MOUTHPIECE



Fig. 168

All solid brass, nickel plated, loud triple tone. Complete with chain.

Length overall, 6 1/2 in.

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 3/4 inches

Price per dozen \$9.00

Mouth Blown Siren
POCKET SIZE—BRASS



Fig. 166

Same mouth piece, rotator and effective tone as Fig 138 above. Small enough for a vest pocket.

Nickel Plated Each	Extreme Length Inches	Extreme Diam. Inches
\$1.25	2 7/8	1

Wrought Brass Fog Bells

STAMPED FROM BELL METAL



Diameter	6 in.	8 in.
Hgt. overall	4 in.	5 in.
Extension	7 3/8 in.	8 3/4 in.
Weight	1 lb.	2 1/2 lbs.

Fig. 159

Diam. Inches	Plain Brass Each	Polished Brass Each	Nickel Plated Each	Chromium Plated Each
6	\$1.40	\$1.55	\$2.15	\$3.25
8	2.40	2.65	3.25	4.40
Wall Plates only	.30	.35	.45	.60
Arms only	.65	.75	.90	1.10

Cast Fog Bell
MEDIUM WEIGHT—WITH YOKE



Fig. 386

Diam. Inches	Polished Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$ 7.00	\$ 9.25	7 1/4	4
8	11.40	14.50	9	9

Cast Fog Bells

LIGHTWEIGHT



Fig. 581

Cast from bell metal. With removable bracket.

Diameter	6 in.	8 in.
Hgt. overall	4 1/2 in.	5 1/4 in.
Extension	6 1/2 in.	8 1/2 in.
Weight	1 1/2 lbs.	4 1/2 lbs.

Diam. Inches	Polished Each	Chromium Plated Each
6	\$3.75	\$5.50
8	6.00	8.50

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	4 lbs.	8 lbs.

Diam. Inches	Polished Each	Chromium Plated Each
6	\$ 6.40	\$ 8.60
8	10.85	13.25

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	Chromium Plated Each
8	\$16.00	\$19.50
10	29.50	34.00

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 is polished, and the balance is finished bronze.

A special feature of this whistle is the bronze base for mounting, which contains the pipe connection and air inlet in its vertical post, through the under part of the base.

The tone is easily regulated by turning the projector to right or left, a brass key is furnished for the fastening device which holds projector in position.

No.	Price Each	Diameter of Disc Inches	Diameter Base Inches	Length Overall Inches	For Size Pipe Inches
1	\$10.00	3	3	5 3/4	3/4
2	19.25	4	3 1/2	8 3/4	1

Whistle Valves
FOR AIR WHISTLES
CAST BRONZE—PLAIN

A very fine fool-proof air whistle valve made of cast bronze with stainless steel valve spring.

Guaranteed for air pressure up to 200 lbs.



Fig. 463

Pipe Size Inches	Each
3/8	\$5.50

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	\$.95	\$ 1.45	\$.45	\$.15	2 1/2
1 1/2	1.15	1.65	.55	.20	3 1/8
2	1.70	2.25	.85	.25	3 3/8
2 1/2	2.00	2.60	1.00	.25	4 1/2
3	2.50	3.15	1.25	.25	4 7/8
3 1/2	3.00	3.70	1.50	.35	5 1/2
4	3.75	4.50	1.85	.40	5 3/4
4 1/2	4.10	4.90	2.05	.45	6 3/8
5	5.60	6.60	2.80	.50	7 1/8
6	6.80	8.00	3.90	.90	8 1/4
8	18.00	20.00	9.00	1.25	10 1/4

Pipe Deck Plates

CAST BRONZE

Standard iron pipe size thread. Complete with key.

Can be furnished with words "water," "gas," "oil," "fuel," cast in cover, on all sizes 1 inch to 2 1/2 inch inclusive.



Fig. 528

Pipe Size Inches	Polished Finish Complete Each	Chromium Plated Complete Each	Polished Covers Only Each	Keys Only Each	O. D. Plate Inches
3/4	\$ 1.15	\$ 1.50	\$.55	\$.15	2 5/8
1	1.25	1.80	.60	.15	2 7/8
1 1/4	1.50	2.10	.75	.20	3 1/8
1 1/2	1.75	2.40	.85	.20	3 3/4
2	2.25	3.00	1.10	.25	4 1/4
2 1/2	3.00	3.75	1.50	.25	4 3/8
3	3.75	4.75	1.85	.35	5 3/8
3 1/2	6.50	7.75	3.50	.35	6
4	7.50	10.25	3.75	.40	6 3/4
5	11.00	13.00	6.00	.50	8
6	14.00	17.00	8.00	.80	9

Ventilator Deck Plates

POLISHED

CAST BRONZE

Complete with key and extra ring for hood ventilator.



Fig. 527

Diameter Opening Inches	Polished Each	Chromium Plated Each	Diameter Plate Inches	Weight Each
2	\$ 2.65	\$ 3.50	3 3/8	12 oz.
2 1/2	2.95	3.80	4 1/2	1 lb.
3	3.50	4.20	4 7/8	1 1/4 lbs.
3 1/2	4.20	5.00	5 1/2	1 3/4 lbs.
4	5.00	5.75	5 3/4	2 1/4 lbs.
4 1/2	5.80	6.60	6 3/8	3 1/4 lbs.
5	7.25	8.50	7 1/8	3 3/4 lbs.
6	9.00	10.50	8 1/4	4 1/2 lbs.
8	23.00	26.00	10 1/4	7 1/2 lbs.

Swivel Rings

FOR VENTILATORS—CAST BRONZE

When used with hood ventilator, allows it to turned in any position desired. Complete with three screws for fastening.

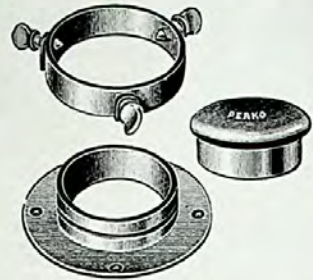


Fig. 419

For Size Ventilator Inches	Opening in Base Inches	Price Each	For Size Ventilator Inches	Opening in Base Inches	Price Each
3	2 1/8	\$ 4.50	8	7	\$ 13
4	3 1/2	6.75	9	8 1/8	15
5	4	8.25	10	9 1/8	22
6	5	10.00	11	10 1/8	24
7	6	11.00	12	11 1/8	26

Price does not include cap, if cap is desired add 2 to above prices.

Chromium plated swivel rings, add 40% to above.

Manhole Plates

WATERTIGHT

GALVANIZED IRON AND CAST BRONZE

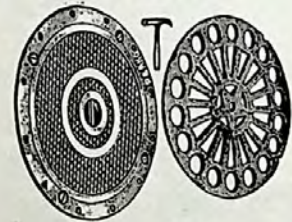


Fig. 662

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 PLATE



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

Rope Deck Pipes

GALVANIZED CAST IRON AND CAST BRONZE FOR MANILA ROPE



Fig. 741

BRONZE

For Diam. Rope Inches	Plain Bronze Each	Polished Bronze Each	Chrom. Plated Each	Inside Diam. Inches	Diam. Flange Inches
3/4 & 1	\$4.00	\$4.80	\$5.80	1 3/4	3 3/8
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 7/8
1 1/4	2.50	2 1/2	4 5/8	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 7/8	1 7/8
2	1.55	4.50	5.00	6.00	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 7/8
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

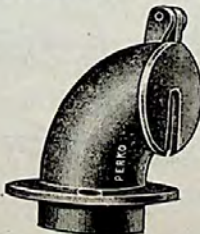


Fig. 342

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 7/8	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

Military Mast Sets

CAST BRONZE—POLISHED

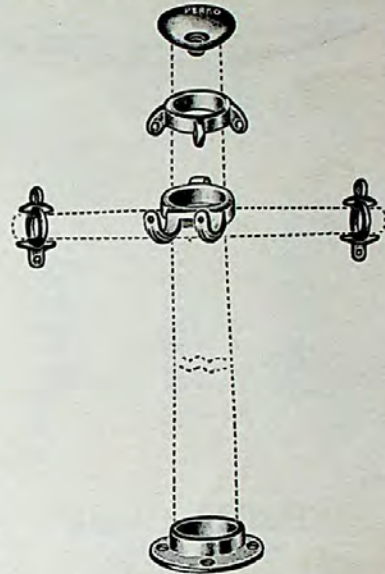


Fig. 586

Furnished in two sizes, a handsome and practical set of fittings, mast cap has small bronze sheave for flag halyards.

Set No.	Inside Diam. Deck Flange Inches	Inside Diam. Cross Arm Bracket Inches	Inside Diam. Eye Band Inches	Inside Diam. Mast Cap Inches	Inside Diam. End Fittings Inches
1	2 3/4	2 1/2	2 1/4	1 7/8	1 1/4
2	3 1/2	3	2 3/4	2 1/4	1 1/2

Set No.	Per Set Complete	Deck Flange Each	Cross Arm Bracket Each	Eye Band Each	Mast Cap Each	End Fittings for Cross Arm Each
1	\$7.50	\$1.50	\$2.00	\$1.50	\$1.50	\$.75
2	10.00	2.00	2.50	2.00	2.00	1.25

Chromium Plated Finish, add 40% to above prices.

Hinged Mast Steps

CAST BRONZE



Fig. 1039

Mast can be lowered to horizontal position parallel with deck, base has integral lug which prevents side strain on hinge.

Inside Diam. Step Inches	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Diam. Base Inches	Height Inside Step Inches
2	\$3.15	\$3.65	\$5.15	4	2 1/2
2 1/2	3.75	4.25	5.75	4 1/2	3
3	6.90	7.40	8.90	5	3 1/2

Boat Cleats

GALVANIZED IRON—CAST BRONZE
OPEN BASE



Fig. 544

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each
3 1/2	\$.10	\$.08	\$.50	\$.75
4	.12	.10	.60	.85
5	.15	.12	.70	1.00
6	.20	.16	.90	1.20
8	.40	.35	1.35	1.70
10	.60	.55	2.00	2.80
12	.90	.80	3.00	3.85
14	2.00	1.60	5.50	6.50
18		3.00		

Boat or Fender Cleats

GALVANIZED IRON AND BRONZE
SQUARE BASE



Fig. 583

Length Inches	Mall. Iron Each	Cast Iron Each	Polished Bronze Each	Chromium Plated Each	Weight Each Ounce
2	\$.12	\$.10	\$.35	\$.65	1
2 1/4			.40	.70	1 1/2
3	.19	.12	.50	.85	2 1/2
4	.43	.15	.70	1.10	5
5	.48	.28	1.00	1.40	9
6	.70	.35	1.20	1.70	16

Hollow Cleats

CLOSED ENDS
CAST BRONZE



Fig. 572

Length Inches	Polished Bronze Each	Chromium Plated Each	Weight
4 1/2	\$1.10	\$1.40	8 oz.
5 1/2	1.40	1.70	9 oz.
6 1/2	1.50	1.80	10 oz.
8	1.75	2.25	20 oz.
10	2.50	3.25	2 lbs.
12	4.00	4.75	3 lbs.

Canoe Cleats

CAST BRONZE



Fig. 763

Size No.	Length Inches	Polished Bronze Each	Chromium Plated Each
1	2 3/8	\$.35	\$.65
2	3 3/4	.50	.80

Round Base Cleats

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 1044

Length Inches	Galvanized Each	Polished Brass Each	Chromium Plated Each	Diameter Base Inches
1 3/4		\$.35	\$.65	1 1/8
2 1/4	\$.12	.40	.70	1 1/4
3	.15	.50	.85	1 3/8
3 1/2	.20	.80	1.20	1 3/4

Improved Cleats

CAST BRONZE



Fig. 384

Flag Pole Cleats

CAST BRONZE



Fig. 584

For attaching to side of bow or stern flag pole. neat little fitting that has long been desired.

Length Inches	Polished Bronze Each	Chromium Plated Each	For Rope Inches	Weight Pounds
4	\$.85	\$1.35	1/4	1/2
5	1.15	1.65	3/8	3/4
6	1.50	2.00	1/2	1
8	2.75	3.35	3/4	1 3/4

Length Overall Inches	Polished Bronze Each	Chromium Plated Each	Size Base Inches
1 3/4	\$.35	\$.65	3/8 x 3/4

A definite improvement in cleats long needed. The large rounded bottoms, legs and ends save wear on the rope but allow more turns of rope.

These are of much sturdier construction and of heavier weight than other types. Take larger fastenings and greater strain.

Awning Cleats

GALVANIZED MALLEABLE IRON



Fig. 927

Length Inches	Per 100 Pieces	Weight Per 100 in Lbs.
4½	\$ 4.50	4¾
6	6.50	8¾
8	10.00	13¾

Ship Cleats

CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$.80	4¼ x 2 ¾	7/8	3
10	1.20	4¾ x 2½	½	5¾
12	2.00	6 7/8 x 3	¾	10
15	3.00	7¼ x 3½	¾	14
18	4.00	7½ x 4	¾	20¼
24	6.50	8½ x 4¾	¾	35
30	12.50	10¾ x 5½	1	73
36	20.00	13 x 7¼	1¼	117

Closed Straight Chocks

GALVANIZED CAST IRON AND CAST BRONZE



Fig. 163

Length Inches	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each	Width Inches
4	\$.22	\$1.00	\$1.25	\$1.50	1
6	.55	1.60	1.85	2.20	1½
8	1.35	2.25	2.75	3.00	1½
10	1.60	3.75	4.25	4.75	2¾
12	2.30				2½
15	4.10				3
18	6.50				3½

Beveled Bow Chocks

GALVANIZED AND CAST BRONZE

Length Overall Inches	Width Inches	For Diam. Rope Inches
3	¾	¾
4	¾	½
5	7/8	¾-¾
6	1 1/8	1
8	1 1/8	1
10	1¾	1¼
12	2½	1½
15	3	2
18	3¼	2¼

Fig. 546

Length Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium 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	3.00	3.40	4.20
8	1.60	4.00	4.50	5.30
10	2.40	7.00	7.75	8.50
12	5.00	11.50	12.50	14.00
15	10.00			
18	15.00			

Straight Stern Chocks

GALVANIZED AND CAST BRONZE

Length Inches	Width Inches	For Diam. Rope Inches
4	1 1/8	¾
5	1¾	¾
6	1½	7/8
8	1¾	1¼
10	2¼	1¾
12	2¾	1¾
15	2¾	1¾
18	3¾	2

Fig. 119

Length Inches	Galv. Iron Each	Polished Bronze Each	Nickel Plated Each	Chrom. Plated Each
4	\$.20	\$.75	\$1.00	\$1.20
5	.30	1.00	1.25	1.55
6	.50	1.50	1.75	2.10
8	1.00	2.25	2.75	2.90
10	1.20	3.75	4.25	4.50
12	2.50	6.00	6.50	7.25
15	5.50			
18	7.50			

Mooring Chocks

CAST BRONZE—POLISHED



Fig. 413

Length Overall Inches	Width Overall Inches	Opening Inches	Weight Pounds
4¾	1½	2x2	¾

Skene Bulwark Bow Chocks

CAST BRONZE

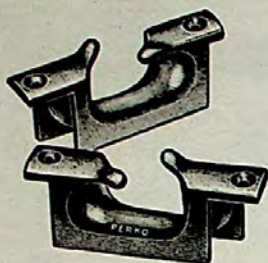


Fig. 751

Lgth. In.	Plain Bronze Pair	Pol. Bronze Pair	Chrom. Plated Pair	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Pair Lbs.
6	\$3.50	\$5.25	\$7.75	1	1 1/4	2 1/4	2 3/4
7	5.50	7.50	10.00	1 1/4	1 1/2	2 3/4	4 1/4

Skene Bow Chocks

CAST BRONZE



Fig. 160

Size No.	Length Inches	Width Inches	Opening Inches	Weight Per Pair Pounds
1	4 1/2	3/8	3/4	3/4
2	5 1/2	1 1/8	1	1 1/2
3	7 3/4	1 1/2	1 1/4	3 3/4
4	8 1/2	1 3/8	1 1/2	5
5	10 1/2	2	2	6

Size No.	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium 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

Skene Bulwark Stern Chocks

CAST BRONZE



Fig. 752

Lgth. In.	Plain Bronze Each	Pol. Bronze Each	Chrom. Plated Each	For Diam. Rope Up to Inches	Thick-ness of Rail Inches	Height Inches	Wt. Each Lbs.
6	\$3.00	\$4.00	\$5.25	1 1/4	1 1/2	2 3/4	2

Skene Stern Chocks

CAST BRONZE



Fig. 161

Size No.	Length Inches	Width Inches	Opening Inches	Weight Each Pound
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	Chromium 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	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$ 7.50	\$ 9.50	10	1	1 7/8	1
2	9.00	12.00	11 1/2	1 1/2	2 1/4	1 1/2
3	12.00	15.00	11 1/4	1 1/2	2 1/2	1 1/2

Bulwark Stern Chocks

CAST BRONZE—POLISHED



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$4.50	\$5.50	9 1/4	1 3/8	2 3/8	1 1/2
2	6.50	8.00	11 1/2	1 3/4	3	1 3/4

Streamline Fittings

Are made of the highest grade of bronze castings. These fittings all follow the same design and will match all other "Perko" streamline items on the deck, such as running lights, flagpole sockets, ventilators, etc. They will add to the appearance of any boat and are good, strong, practical fittings in use.

Streamline Cleat
CAST BRONZE



Fig. 114

Length Overall Inches	Size Base Inches	For Rope Diameter Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
2 1/2	7/8 x 2	Up to 1/2	\$.50	\$.75	\$.90
3 1/2	1 1/4 x 2 3/4	Up to 5/8	.80	1.05	1.25
4 1/2	1 1/2 x 3 1/4	Up to 3/4	1.10	1.35	1.60
5 1/2	1 7/8 x 4	Up to 1	1.50	1.75	2.10

Streamline Stern Chock
CAST BRONZE
OPEN PATTERN



Fig. 116

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3	3/4	Up to 1/2	\$.65	\$.85	\$1.00
4	1	Up to 5/8	.75	.95	1.15
5	1 1/8	Up to 3/4	1.10	1.30	1.60
6	1 3/8	Up to 1 1/2	1.40	1.80	1.90

Streamline Bow Chocks
CAST BRONZE
OPEN PATTERN



Fig. 115

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
3 1/2	3/4	Up to 1/2	\$1.30	\$1.60	\$2.00
4 1/2	1	Up to 5/8	1.50	1.80	2.30
5 1/2	1 1/8	Up to 3/4	2.20	2.50	3.20
6 1/2	1 3/8	Up to 1	2.80	3.10	3.80

Streamline Stern Chocks
CLOSED PATTERN



Fig. 118

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
3	3/4	Up to 5/8	\$.75	\$1.00	\$1.15
4	1	Up to 3/4	1.00	1.25	1.40
5	1 1/8	Up to 1	1.40	1.65	1.95
6	1 3/8	Up to 1 1/2	1.75	2.15	2.35

Streamline Bow Chocks
CLOSED PATTERN

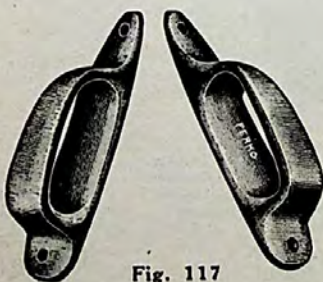


Fig. 117

Length Overall Inches	Width Base Inches	For Rope Diameter Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
3 1/2	3/4	Up to 5/8	\$1.50	\$1.90	\$2.30
4 1/2	1	Up to 3/4	2.00	2.40	2.90
5 1/2	1 1/8	Up to 1	2.80	3.30	3.90
6 1/2	1 3/8	Up to 1 1/2	3.50	4.00	4.70

Upright Flag Pole Socket

ROUND BASE—WITH FERRULE
CAST BRONZE



Fig. 220

Inside Diam. Inches	Diam. Base Inches	Inside Diam. Ferrule Inches	Height Inches	Weight Ounces
3/8	1 5/8	1 1/8	1 3/8	5
3/4	2 1/8	1 1/2	1 3/4	7
7/8	2 3/4	1 5/8	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
3/8	\$.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

3/8 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.

New Streamline Flag Pole Socket

CAST BRONZE



Fig. 1115

To meet the numerous demands we have had for streamline flag pole sockets.

Polished Bronze Each	Chromium Plated Each	Diam. Socket Inches	Size Flange Inches	Weight Pounds
\$1.50	\$2.00	1/4	2 3/8 x 5	3/4

Flush Flag Pole Socket

WITH FERRULE
GALVANIZED CAST IRON—CAST BRONZE



Fig. 218



Fig. 219

Inside Diam. Inches	Diam. Flange Inches	Inside Diam. Ferrule Inches	Depth Socket Inches	Weight
3/8	1 3/4	1 1/8	1 3/8	2 1/2 oz.
3/4	2	1 1/2	1 1/2	4 1/2 oz.
7/8	2 1/8	1 3/4	1 5/8	4 3/4 oz.
1	2 3/8	1 7/8	1 3/4	6 oz.
1 1/4	2 3/4	1 7/8	2	10 oz.
1 1/2	3 1/8	1 7/8	2 3/8	1 lb.

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
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

3/8 inch furnished without ferrule.

Galvanized furnished without ferrule.

Runabout Flag Pole Socket

CAST BRONZE

Unique design of flange makes this a good looking deck fitting. Complete with set screw for holding pole fast in place.



Fig. 541

Inside Diameter Inches	Size Flange Inches	Depth Socket Inches	Weight Ounces
1 1/4	3 1/2 x 3 1/2	2 1/2	12

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

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 5/8 x 5	2 1/2	1 1/4
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$2.25	\$2.75	\$3.25	

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		

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 1/8	8
Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$1.75	\$2.00	\$2.50	

Comb. Bitt and Rope Deck Pipe

CAST BRONZE



Fig. 431

A hollow one piece casting of minimum weight but maximum strength. An opening in one side of bitt to allow rope to be stored below deck but always ready for use.

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Base Inches	Height Inches	For Diam. Rope Inches
1	\$4.50	\$5.00	\$5.75	4 1/2 x 4 1/2	3 1/2	3/4
2	7.75	8.25	9.25	6 x 6	5	1

Mooring Bitt

CAST BRONZE

One solid casting, except horizontal bar, which is of bronze rod and goes clear through casting, brazed both ends.

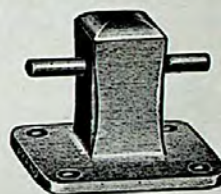


Fig. 608

No.	Size Base Inches	Height Inches	Net Weight Lbs.
1	3 x 3	2 1/2	7/8
2	4 1/2 x 4 1/2	3 1/2	1 1/8
3	6 x 6	5	5 1/2
4	7 x 7	6 1/2	12
No.	Polished Bronze Each	Chromium Plated Each	
1	\$ 2.25	\$ 3.00	
2	4.00	5.00	
3	8.00	10.00	
4	11.50	13.75	

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	5/16
01	2.40	6.00	7.80	5 1/2	3 1/2 x 3 1/2	3/8
1	3.70	9.00	11.00	6 3/4	5 x 5	1/2
1 1/2	6.75	12.50	15.00	8 1/4	5 1/2 x 5 1/2	5/8
2	9.25	17.50	20.00	10	5 1/2 x 7 1/2	3/4

Bow Plates

CAST BRONZE AND ALUMINUM



Fig. 494

Size Plate Inches
4 1/8 x 4 3/8
Polished Bronze Each
\$1.00

Fig. 494 Diam. Eye Inches
1/2
Nickel Plated Each
\$1.30



Fig. 181

Fig. 181 Diam. Eye Inches	Weight Bronze Oz.	Weight Aluminum Oz.
3/4	10	2 1/2
Chromium Plated Each	Polished Aluminum Each	
\$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 3/4	Up to 3/4	11
2	3 3/4	4 3/4	Up to 1	15
No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
1	\$2.50	\$2.75	\$3.00	
2	2.75	3.00	3.35	

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
1	\$.30	\$.50	\$.80	\$1.20	1/4 x 1 1/2	4 1/4 x 1 3/8
2	.35	.60	.85	1.30	1/2 x 1 3/4	4 1/4 x 3/8

Ring on Plate

GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches
1	\$.40	1 1/2 x 1 1/2	2 x 2 x 3/8
2	.50	3/8 x 2	2 x 2 x 1/4

Weight Per 100 in Lbs.
33
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 x 1 1/4	4
2	3 1/4	1 3/8	1/4 x 1 1/2	6
No.	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	3/8	4
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.50	\$.70	\$.90	\$1.10

Straps only, deduct \$.20 each.

Ring With Strap

CAST BRONZE



Fig. 1004

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Size Ring Inches	Length Strap Inches
\$.50	\$.70	\$.90	1 1/2 x 1 1/2	2

Straps only, deduct \$.25 each.

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 3/4	3	3/4
2	1/2	2 3/8	3 3/8	1 1/8

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

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 3/4	1 1/8	1 1/2 x 2 1/2	5/8	13 oz.
6	6 3/4	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

Hatch Handle
CAST BRONZE AND ALUMINUM



Fig. 185

Length Overall Inches	Height Overall Inches	Size Opening Inches	Weight Oz.
5	1 1/8	3 3/4 x 1	6

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Polished Aluminum Each
\$.70	\$.95	\$1.05	\$.75

Lifting Handle
CAST BRONZE AND ALUMINUM



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	Weight Oz.
6 3/8	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	3/8	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 3/4 inch.



Fig. 210

I. D. Ring Inches	Size Base Inches	Size Bolt Inches
1	2 1/4 x 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	5/8" Rod	\$.40	\$.70	\$1.00	\$1.20
1 1/2 2	1/4" Pipe	.40	.70	1.00	1.20
2 2 1/2	5/8" Rod	.50	.85	1.20	1.40
2 1/2 2 1/2	1/4" Pipe	.50	.85	1.20	1.40
3 3	5/8" Rod	.60	1.00	1.40	1.60
3 1/2 3	3/8" Pipe	.60	1.00	1.40	1.60
5 4	3/4" Rod	.75	1.75	2.20	2.40
5 1/2 4	1/2" Pipe	.75	1.75	2.20	2.40

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	5/8" Rod	\$.40	\$.70	\$1.00	\$1.20
1 1/2 2	1/4" Pipe	.40	.70	1.00	1.20
2 2 1/2	5/8" Rod	.50	.85	1.20	1.40
2 1/2 2 1/2	1/4" Pipe	.50	.85	1.20	1.40
3 3	5/8" Rod	.60	1.00	1.40	1.60
3 1/2 3	3/8" Pipe	.60	1.00	1.40	1.60
5 4	3/4" Rod	.75	1.75	2.20	2.40
5 1/2 4	1/2" Pipe	.75	1.75	2.20	2.40

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 1/4	1.00	1.25	1.40	1.65	1.75

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
3/8	3/8	.55	.80	1.10	1.40
3/4	1/2	.60	.90	1.30	1.50
3/8		.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 3/4

Rail Hinge

CAST BRONZE

Made to fit standard hand rail on high class yachts and cruisers.



Fig. 122

No.	Size Rail Inches	Length Inches	Weight Lbs.
1	1½ x 2½	5	1½
2	1½ x 3	3¾	1¾

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
1	\$4.00	\$4.50	\$5.00
2	4.25	4.75	5.25

Grab Rails

Made of heavy brass tubing with cast bronze posts.

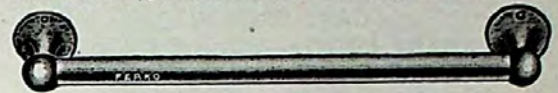


Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch		1½ Inch	
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$3.00	\$4.00	\$3.25	\$4.25
8	3.20	4.20	3.50	4.50
12	3.50	4.50	4.00	5.00
18	3.75	4.90	4.25	5.50
24	4.00	5.25	4.50	5.75
30	4.25	5.75	4.75	6.25
36	4.50	6.25	5.00	6.75
42	4.75	6.50	5.25	7.00

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.

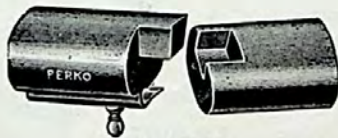


Fig. 123

No.	Size Rail Inches	Length Inches	Weight Lbs.
1	1½ x 2½	5	1½
2	1½ x 3	3¾	1¾

No.	Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
1	\$4.25	\$4.75	\$5.25
2	4.50	5.00	5.50

Grab Rail Posts

CAST BRONZE—HOLLOW



Fig. 380

Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Per Pair Pounds
2½	3¾	1 or 1½	1½

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$1.25	\$1.50	\$1.85

Furnished for center mounting when desired, please specify.

Letters and Figures

CAST BRONZE

GOTHIC-PATTERN



Fig. 313

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
3	\$.20	\$.30	\$.50	18

REGULAR PATTERN



Fig. 348

Height Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Per 100 in Lbs.
2	\$.15	\$.25	\$.45	6½
3	.20	.30	.50	24¼
4	.50	.75	1.00	36

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	Chromium Plated Each
0	\$.45	\$1.25	\$2.25
1	.55	1.40	2.40
2	.70	1.90	2.80
3	.85		

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	Chromium Plated Each
3 1/2	\$.50	\$1.25	\$2.25
4	.55	1.40	2.40
5	.70	1.90	2.80
6	.90		

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?

Boat Hook Holders

SPRING BRASS

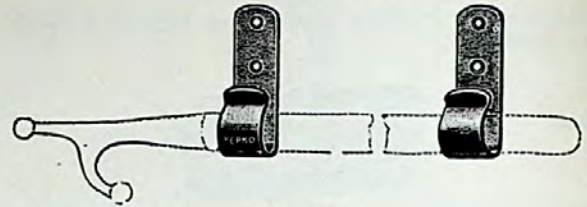


Fig. 490

Boat owners have been in need of a simple gadget like this for years, yet this is the first time boat hook holders have been put on the market.

Made of spring brass they will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Polished Brass Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
\$.45	\$.65	3 1/2	1	1 1/2

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	1/2

Fender Hooks

CAST BRONZE



Fig. 547

No.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches
1	\$.35	\$.40	\$.70	1/8	1 3/8 x 1 1/4
2	.55	.60	.90	1/2	2 1/4 x 1 3/4

Rope Swimming Ladders
WITH ROUND WOOD RUNGS

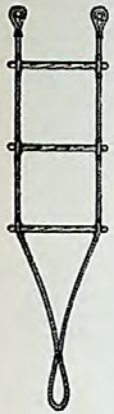
Made of 5/8 inch best grade manila rope with hardwood rungs in mahogany finish. Rungs are 1 1/4 x 14 inches and spaced 12 inches apart.

Furnished complete with lanyards 6 feet long for fastening on board and thimbles with light lanyard on lower end for tying down.

Ladders	Each
2 rung	\$3.00
3 rung	3.50
4 rung	4.00
5 rung	4.50
6 rung	5.00

Additional rungs add \$.80 each.

Fig. 991



Ladder Locks
CAST BRONZE



Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
1 1/4	1	1 1/4	12
Polished Bronze Per Set			Chromium Plated Per Set
\$2.00			\$3.50

A set consists of four pieces illustrated

Rope Swimming Ladders

WITH FLAT WOOD STEPS CUT OUT FOR TOES AND HAND HOLD.

Steps are 3/4 x 3 3/4 x 20 inches and spaced 12 inches apart.

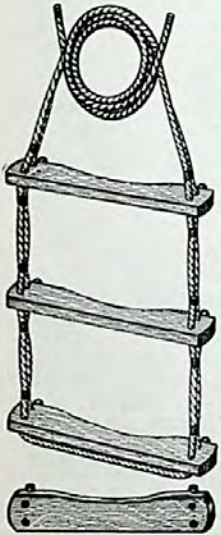
Made of 5/8 inch best grade manila rope with ash steps, varnished.

Furnished complete with lanyards 6 feet long for fastening on board.

Ladders	Each
2 step	\$4.00
3 step	5.00
4 step	6.00
5 step	7.00
6 step	8.00

Additional steps add \$1.30 each.

Fig. 992



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	Pol. Bronze Per Pair	Nickel Plated Per Pair
\$8.50	\$9.50	\$1.75	\$2.25
	Chrom. Plated Per Set	Chrom. Plated Per Pair	
	\$10.50	\$2.75	

Ladder Hooks
CAST BRONZE

WITH FLUSH PLATES FOR DECK

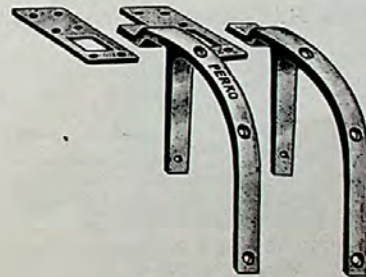


Fig. 994

Extreme Length Inches	Length Brace Inches	Size of Plate Inches	Weight Per Set Pounds
10	3 3/4	3 1/4 x 2	4
Complete		Plates Only	
Pol. Bronze Per Set	Nickel Plated Per Set	Pol. Bronze Per Pair	Nickel Plated Per Pair
\$8.50	\$9.50	\$1.40	\$1.90
	Chrom. Plated Per Set	Chrom. Plated Per Pair	
	\$10.50	\$2.40	

Rope Boarding Ladders

WITH OVAL SIDES AND DOUBLE RUNGS

Each rung is 1 1/2 x 14 inches and steps are spaced 12 inches apart.

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.

Ladders	Each
2 step	\$ 6.00
3 step	8.50
4 step	11.00
5 step	13.50
6 step	16.00

Additional steps add \$2.50 each.

Fig. 993



Ribbed Socket Rowlocks

GALVANIZED—MALLEABLE AND CAST IRON



Fig. 638

Size No.	GALVANIZED CAST IRON			Opening Inches	Weight Per Pair Pounds
	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair		
0	\$.30	\$.20	\$.15	1 3/4	1 1/8
1	.35	.25	.15	2	1 1/4
2	.50	.35	.25	2 1/4	1 3/4

GALVANIZED MALLEABLE IRON

1	.45	.30	.25	2	1 1/4
2	.60	.40	.35	2 1/4	1 3/4

Standard Socket Rowlocks

GALVANIZED MALLEABLE IRON



Fig. 639

Size No.	GALVANIZED MALLEABLE IRON			Opening Inches	Weight Per Pair Pounds
	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair		
0	\$.50	\$.35	\$.25	1 3/4	1 1/8
1	.50	.35	.25	2	1 1/4
2	.70	.50	.35	2 1/4	1 3/4
3	1.00	.70	.50	2 1/2	2 5/8

Swivel Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 640

Size No.	GALVANIZED MALLEABLE IRON			Opening Inches	Weight Per Pair Pounds
	Complete Per Pair	Horns Only Per Pair	Plates Only Per Pair		
1	\$1.60	\$.95	\$.95	2	2
2	1.90	1.05	1.05	2 1/4	2 7/8

CAST BRONZE

Size No.	Plain		Polished		Plates Only	
	Complete Per Pr.	Per Pr.	Complete Per Pr.	Per Pr.	Plain Per Pr.	Pol. Per Pr.
1	\$2.50	\$3.50	\$1.40	\$1.90	\$1.40	\$1.90

Davis Pattern Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 641

Size No.	Galv. Per pair	Plain Bronze Per pair	Polished Bronze Per pair	Opening Inches	Weight Per pair Pounds
1	1.10	\$2.00	\$3.25	2	2
2	1.50			2 1/4	2 3/4

Round Socket Rowlocks

GALVANIZED IRON AND BRONZE



Fig. 642

GALVANIZED MALLEABLE IRON

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
1	.50	.35	.25	2 1/4	1 1/4
2	.65	.50	.25	2 1/2	1 1/2

GALVANIZED CAST IRON

1	.40	.25	.20	2 1/4	1 1/4
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PLAIN BRONZE

1	1.25	.90	.45	2 1/4	1 1/4
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POLISHED BRONZE

1	2.00	1.45	.65	2 1/4	1 1/4
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North River Rowlocks

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 643

Opening Inches 2 1/8

Weight Per Pair Pounds 1 3/8



Fig. 644

Galv., Fig. 643	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair						
				Pl. Bronze, Fig. 643	Pol. Bronze, Fig. 643	Galv., Fig. 644	Pl. Bronze, Fig. 644	Pol. Bronze, Fig. 644	
	\$.50	\$.35	\$.25	1.50	1.05	.55	2.00	1.40	.70
				.70	.35	.45	1.80	1.05	.85
				2.75	1.40	1.45			

Above items desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Side Plate Rowlocks GALVANIZED MALLEABLE IRON

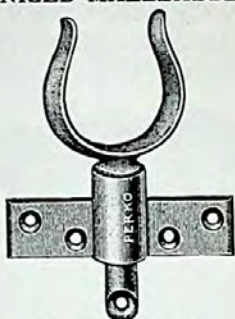


Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.75	\$.40	\$.45	1 3/4	1 3/8
1	.85	.50	.45	2	1 3/4

Moline Open Rowlocks GALVANIZED MALLEABLE IRON

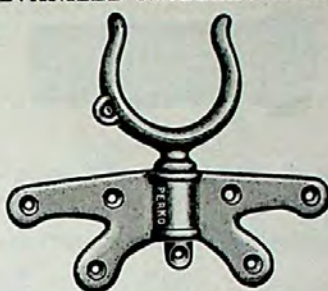


Fig. 914

Size of Plate 7x2 1/2 inches.

No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.90	\$.35	\$.65	1 3/4	1 3/8
1	.90	.35	.65	2	1 3/4

Boston Side Plate Rowlocks GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 646

With Chain and Without Chair

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$.90	\$.35	\$.65	2	1 1/2
0 Pl. Bronze	1.60	.80	.90	1 3/4	1 1/2
1 Pl. Bronze	1.60	.80	.90	2	1 1/4
0 Pol. Bronze	2.75	1.20	1.65	1 3/4	1 1/4
1 Pol. Bronze	2.75	1.20	1.65	2	1 1/2

With Chain for Galv. add 10c to above prices.
With Chain for Bronze add 20c to above prices.

Moline Round Rowlocks GALVANIZED MALLEABLE IRON

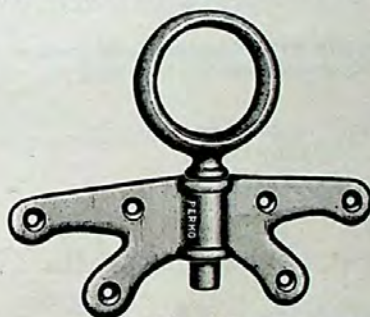


Fig. 915

Size of Plate 7x2 1/2 inches.

No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.90	\$.35	\$.65	2	1 3/4
1	.90	.35	.65	2 1/4	2

Boston Socket Rowlocks GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 545

With Chain and Without Chain

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$.50	\$.35	\$.25	1 3/4	3/8
1 Galv.	.50	.35	.25	2	1
0 Pl. Bronze	1.20	.80	.50	1 3/4	3/8
1 Pl. Bronze	1.20	.80	.50	2	1
0 Pol. Bronze	2.00	1.20	.90	1 3/4	3/8
1 Pol. Bronze	2.00	1.20	.90	2	1

With Chain for Galv., add 10c to above prices.
With Chain for Bronze, add 20c to above prices.

Moline North River Rowlocks GALVANIZED MALLEABLE IRON

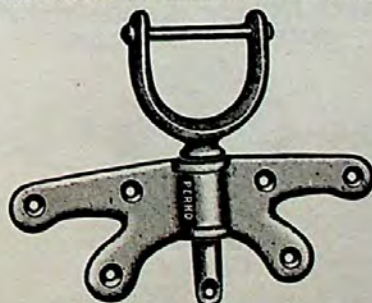


Fig. 916

Size of Plate 7x2 1/2 inches.

No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.90	\$.35	\$.65	1 7/8	1 3/4
1	.90	.35	.65	2 1/8	2

Above Rowlocks desired CHROMIUM PLATED, add 50% to Polished Bronze Prices

Improved Oar Leathers
TANNED LEATHER



Fig. 196

Oar leathers of an improved type, which will fit any oar and eliminate the old method of permanent fastening with nails.
Furnished complete with buttons and leather laces.

Per Pair	Length Inches	Width Inches
\$1.50	7	6

Oar Leathers and Buttons
RUSSET LEATHER



Fig. 233

A high grade russet leather and button furnished complete with brass nails for attaching to oar.

	Per Pair
Complete, Leathers and Buttons	\$.95
Leathers Only—7x6½ Inches	.70
Buttons Only—½x16 Inches	.30

Copper Oar and Paddle Tips



Fig. 794



Fig. 850

Made of soft sheet copper, will fit any oar and paddle.

Fig. 794 Oar Tips—Price per Pair	\$0.25
Fig 850 Paddle Tips—Price Each	.15

Outboard Motor Transom Plates
CAST BRONZE—PLAIN

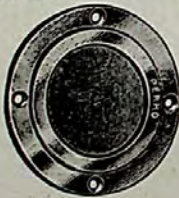


Fig. 814

Furnished complete with tanned leather inserts. Protects transom from wear and tear of motor clamp, and prevents loss of motor should motor clamp become loosened.

Made shallow as practicable to allow clearance of clamp when mounting or removing motor.

Plain Per Pair	Inside Diam. Inches	Outside Diam. Inches	Extreme Thickness Inches	Weight Per Pair Ounces
\$.80	1¾	3	1/16	6

Step Plates

CAST BRONZE—CHROMIUM PLATED
WITH MOLDED RUBBER STEP PADS
TAPERED BOTTOM FOR CROWN OF DECK



Fig. 559

Sturdy cast bronze plates of attractive design. Plate is tapered from 1 inch high in front to its own thickness of material in the back. Will match the deck crown of most popular runabouts.

Furnished complete with thick molded rubber step pads of grooved design.

No.	Complete Each	Plates Only Each	Rubber Pads Only Each	Extreme Dimensions Inches	Weight Pounds
1	\$3.00	\$2.25	\$1.00	8½x3½	1
2	4.50	3.75	1.20	11½x5½	2

Dock Roller
FOR CANOES AND BOATS

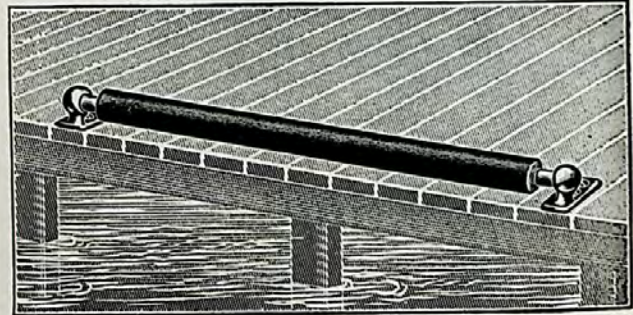


Fig. 400

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
¾	1½	2	24	\$5.00
¾	1¾	2¼	28	6.00
1	1¾	2¼	30	7.00
1	1¾	2¼	36	8.00

HARD WOOD ROLLER

Diam. Shaft Inches	Diam. Roller Inches	Height Inches	Length Inches	Price
¾	1½	2	24	\$3.00
¾	1½	2⅛	28	3.50
1	1½	2¼	31	4.00

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 3/4 inch glass, and are tilted at a 50 degree angle.

V TYPE

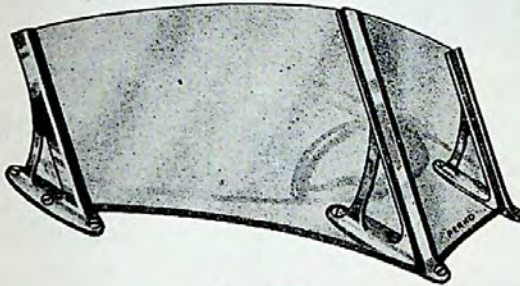


Fig. 665

Height of Center Brackets Inches	Height of End Brackets Inches	Length of Center Base Inches	Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
9 1/2	7 1/2	7 3/8	\$9.00	\$10.50	\$11.50

Height of brackets is figured perpendicular to bases. Prices do not include glass.

STRAIGHT TYPE

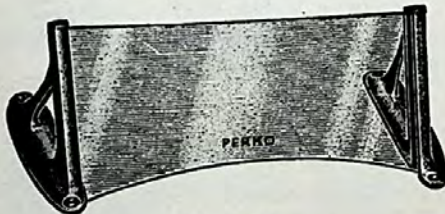


Fig. 666

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

Windshield Cleaners

ELECTRIC—6 AND 12 VOLTS
FOR SWING OUT WINDSHIELDS
CHROMIUM PLATED

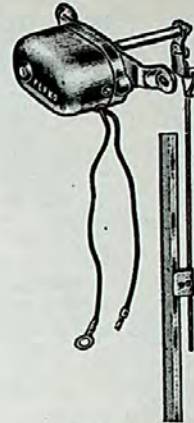


Fig. 395

A single blade cleaner for inside mounting and swing out windshield.

Motor cover is brass, chromium plated. Shaft and arm are steel, cadmium plated. Blade is adjustable to various lengths.

Furnished with drilling template, rubber insulating washers, connecting wires and switch.

6 Volt Each	12 Volt Each	Extreme Width Inches	Length Blade Inches	Length Shaft Inches	Weight Pounds
\$5.00	\$6.00	5 1/2	9	2 1/2	1 1/4

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

Rubber Insulation for Windshields



Fig. 667



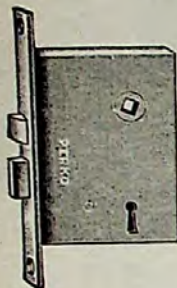
Fig. 668

Fig. 667—For bottom of windshields—per foot \$.20

Fig. 668—For windshield brackets—per foot... .18

Mortise Locks

CAST BRONZE—POLISHED



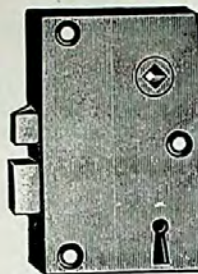
Cast bronze case with reversible latch bolt. Furnished with polished striking plate and one brass bit key.

Fig. 944

No.	Each	Case Inches	Facing Inches	Backset Inches	Spindle Hub Inches
1	\$3.00	2 3/4 x 2 x 1/2	4 1/8 x 1 1/4	1 1/2	1 1/8
2	3.80	3 1/2 x 2 3/4 x 1/2	5 x 3/4	2 1/4	1 3/8

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	1 1/8	1 1/2
2	3.25	3 3/4 x 2 1/2	1 3/8	1 3/8

Mortise Lock Sets

CAST BRONZE—POLISHED

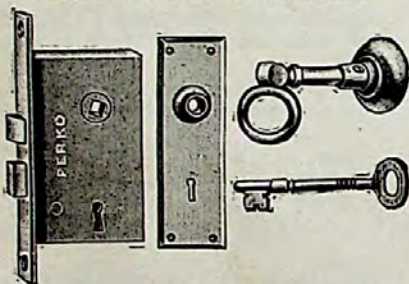


Fig. 945

The following shows mortise lock Fig. 944 numbers 1 and 2 made up in various sets.

SET A

With Combination Escutcheons, Round Knob and Drop Handle

Size No. 1, Price Per Set	\$6.80
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.

Rim Lock Sets

CAST BRONZE—POLISHED

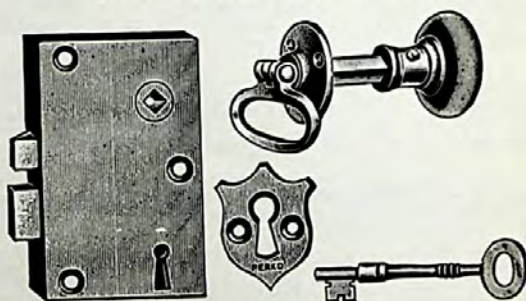


Fig. 1046

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	1 3/4	1 1/2
2	6 x 1 1/2	1 3/4	1 3/4

All of the above sets can be furnished with oval knobs if desired—Price on Application.

Extra keys for above locks furnished to order.

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices

Brass Rim Lock Set

FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

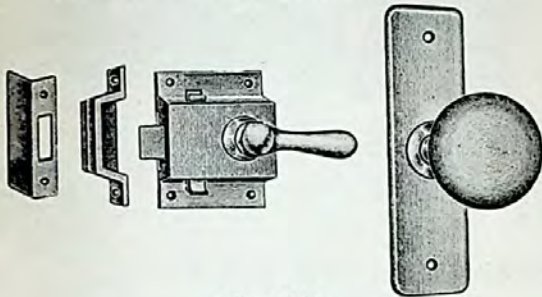


Fig. 1086

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.

No.	Size Case Inches	Size Escutcheons Inches	Size Knob Inches	Backset Inches	For Thickness of Doors Inches
1	2 1/4 x 1 1/8	4 x 1 3/8	1 3/4	1 1/2	7/8 to 1 3/8
2	3 x 2	4 1/2 x 1 1/2	1 3/4	1 1/2	7/8 to 1 3/8

No.	Polished Brass Each	Chromium Plated Each
1	\$3.30	\$4.95
2	3.50	5.25

Brass Mortise Lock Set

FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

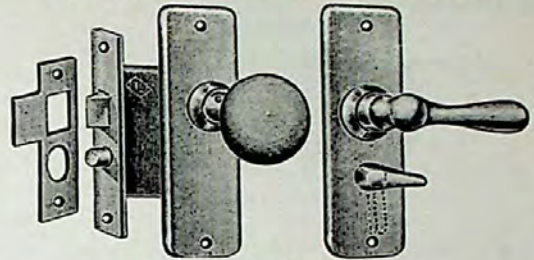


Fig. 1088

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 5/8 to 1 3/8 inches thick.
No. 2 size for doors 7/8 to 1 1/2 inches thick.

No.	Size Case Inches	Size Face Inches	Size Escutcheons Inches	Size Knob Inches	Backset Inches
1	2 x 1 1/4 x 3/8	3 1/4 x 1 1/4	3 3/8 x 1 1/4	1 3/4	7/8
2	2 x 1 3/4 x 1 1/4	3 1/4 x 1 1/4	4 x 1 3/8	1 3/4	1 1/4

No.	Polished Brass Each	Chromium Plated Each
1	\$3.85	\$5.50
2	3.85	5.50

Brass Mortise Lock Set

WITH 2 KEYS
FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

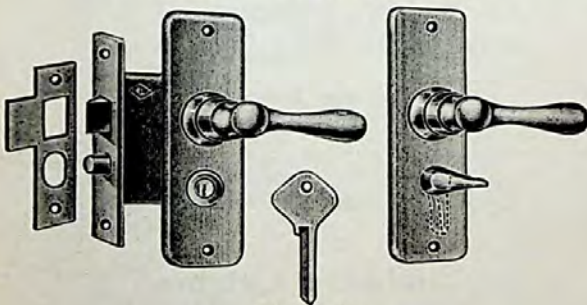


Fig. 1087

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 7/8 to 1 1/2 inches thick.

Size Case Inches	Size Face Inches	Size Escutcheons Inches	Length Levers Inches	Backset Inches
2 x 1 1/8 x 1 1/4	3 1/4 x 1 1/4	4 x 1 3/8	2	1 1/4

Polished Brass Each	Chromium Plated Each
\$4.10	\$5.75

Tubular Lock Sets

FOR SMALL CABIN DOORS
POLISHED BRASS

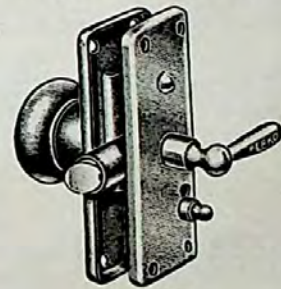


Fig. 567

Per Set Each	For Thickness of Doors Inches	Size Escutcheon Inches	Size Knob Inches	Backset Inches
\$2.25	7/8 to 1 3/8	4 3/8 x 1 3/8	1 3/4	1 3/8

Cylinder Rim Spring Latches

ALL BRONZE—REVERSIBLE

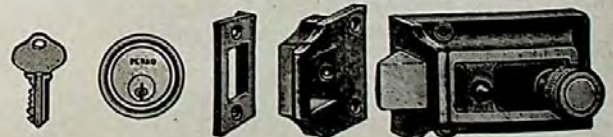


Fig. 1101

Raised parts and edges are polished, furnished with both strikes, three keys and screws. Meets U. S. Navy specifications 42-L-27.

Per Set	Size Case Inches	Thickness Inches	Backset Inches	For Thickness of Doors Inches
\$3.50	3 3/4 x 2 1/2	1	2 3/8	1 1/4 to 2 1/4

Door Knobs

CAST BRASS—POLISHED

Solid cast brass round knobs and rosettes. Wrought brass spindles.

Two Round Knobs

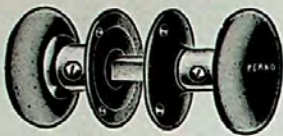


Fig. 1048

Diam. Knob Inches
1 3/4
2

Per set
\$2.25
2.25

Size Spindle Inches
1/8
1/8

Round Knob and Drop Handle

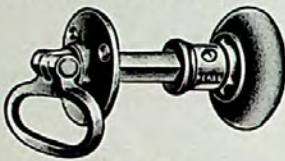


Fig. 1049

Diameter Knob Inches
1 3/4
2

Per Set
\$2.25
2.25

Size Spindle Inches
1/8
1/8

Knobs for Rim Locks have One Rosette
Knobs for Mortise Locks have Two Rosettes

Cupboard Catches
CAST BRONZE—POLISHED

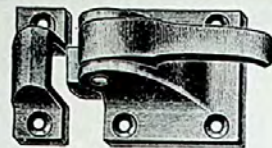


Fig. 1102

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.85	1 1/2 x 1 1/2	1 1/2
2	.85	1 1/2 x 1 1/2	1 3/4

No. 2 has 3/8 inch offset.

Cupboard Turns
WROUGHT BRONZE—POLISHED

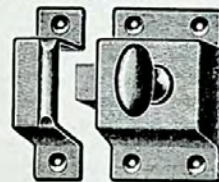


Fig. 1105

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.50	1 7/8 x 1 1/8	2
2	.55	2 1/8 x 1 1/8	3

Cupboard Turns
CAST BRASS—POLISHED

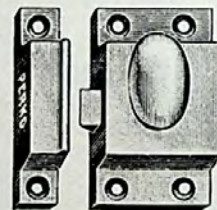


Fig. 949

Furnished complete with screws.

No.	Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$.80	1 7/8 x 1 1/8	2 1/2
2	.80	2 1/8 x 1 1/8	3 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	1/8
2	.85	6 x 1 1/2	1/8

Shield Escutcheons

CAST BRASS—POLISHED

Showing the type of escutcheon furnished with lock sets C and D.



Fig. 946

No.	Each	Size Inches
1	\$.20	1 1/2
2	.20	1 3/4

Flush Ring Catch
CAST BRASS—POLISHED



Fig. 1051

Size Inches
1 3/8 x 1 1/4

Each
\$.50

Cupboard Catches
CAST BRASS—POLISHED



Fig. 950

Furnished complete with screws.

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 3/8 x 1 3/8

Above items desired CHROMIUM PLATED, add 40% to Polished Bronze Prices

Barrel Bolts

CAST BRASS—POLISHED

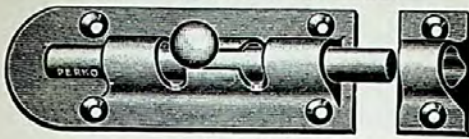


Fig. 947

No.	Each	Size Inches	Weight Per Dozen Pounds
1	\$.55	2 1/4 x 1 1/8	1 1/2
2	.75	3 x 1 1/4	2
3	.90	4 x 1 1/4	3

Flush Bolts

CAST BRONZE—POLISHED



Fig. 1052

Size Inches	Each
5/8 x 2 1/2	\$.40
3/4 x 3	.45

Ship Bolts

HEAVY CAST BRONZE—POLISHED

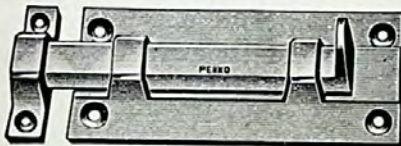


Fig. 1053

Size Inches	Each
3 x 1 1/8	\$.50
4 x 1 3/8	.66
5 x 1 3/8	.80

Square Neck Bolts

HEAVY CAST BRONZE—POLISHED

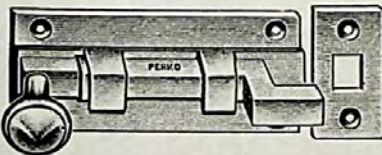


Fig. 1054

Size Inches	Each
3 x 1 1/4	\$.66
4 x 1 1/4	.88

Window Bolts

CAST BRONZE—POLISHED

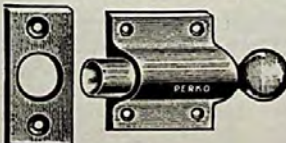


Fig. 1055

Base Inches	Each
1 1/8 x 1 1/4	\$.60

Elbow Catches

CAST BRASS—POLISHED

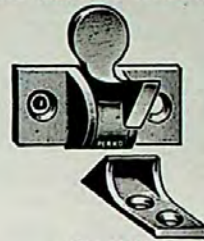


Fig. 1056

Small spiral brass spring in catch lever. For light cupboard doors, etc.

Size Base Inches	Each
1 1/4 x 3/8	\$.35

Casement Fasteners

CAST BRONZE—POLISHED

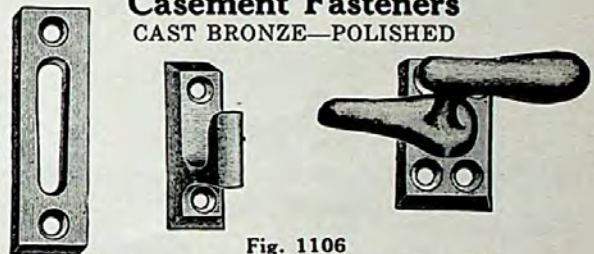


Fig. 1106

Furnished with screws and either type strike.

Each	Without Strike Inches	Extreme Projection Inches	Weight Per Dozen Pounds
\$.85	1 3/8 x 1 1/4	1 3/8	2 1/2

State type of strike when ordering.

Butterfly Hinges

WROUGHT BRASS—PLAIN



Fig. 1058

Size Open Inches	Per Pair
2 1/4	\$.10
3	.15

Spring Hinges

WROUGHT BRASS—PLAIN



Fig. 1059

Length Inches	Per Pair
2 3/8	\$.50
3	.75

Spring Hinges

CAST BRONZE—POLISHED



Fig. 1107

Furnished complete with screws.

Per Pair	Size	Weight Per Pair Pounds
\$3.20	3 x 2 3/8	1 1/4

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	\$.75	\$ 1.15	\$ 1.65	\$ 2.15	1/8
6	.60	1.00	1.40	2.00	2.50	5/8
8	.95	1.25	1.85	2.60	3.10	7/8
10	1.20	1.65	2.40	3.40	3.80	1 1/8
12	1.70	2.30	3.10	4.10	4.60	1 3/8

Port Hinges

GALVANIZED MALLEABLE IRON AND BRONZE
BRASS PINS



Fig. 109

Length Opened Inches	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chrom. Plated Per Pair	Weight Per Pair Pounds
4	\$.60	\$ 1.00	\$ 1.70	\$ 2.20	\$ 2.70	1/2
6	.85	1.30	2.00	2.60	3.20	3/8
8	1.30	1.75	2.75	3.50	4.15	1 1/2
10	2.00	2.60	3.60	4.35	5.10	2
12	2.60	4.65	5.50	6.35	7.10	2 3/4

Cuddy Door Hinges

HEAVY CAST BRONZE



Fig. 951

Length Opened Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
3	\$.65	\$ 1.10	\$ 1.70
3 1/2	.70	1.20	1.90
4	.75	1.25	2.10
5	.90	1.75	2.75

Fast Pin Butt Hinges

CAST BRASS—EMERY FINISH
BRASS PINS

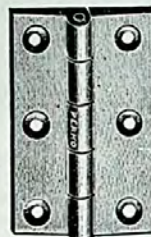


Fig. 952

Size Open Inches	Per Doz. Pairs	Size Open Inches	Per Doz. Pairs
1 1/2 x 1 1/4	\$ 4.80	3 x 1 1/2	\$ 13.44
1 1/2 x 1 1/2	5.04	3 x 2	13.44
1 3/4 x 1 1/4	5.04	3 x 2 1/4	15.36
1 3/4 x 1 1/2	5.76	3 x 2 1/2	15.36
2 x 1 1/4	6.00	3 x 3	16.48
2 x 1 1/2	6.48	3 1/2 x 2 1/2	20.00
2 x 1 3/4	7.44	3 1/2 x 3	21.60
2 x 2	7.92	3 1/2 x 3 1/2	24.00
2 1/2 x 1 1/2	9.36	4 x 3	28.16
2 1/2 x 1 3/4	10.56	4 x 3 1/2	31.44
2 1/2 x 2	10.80	4 x 4	33.60
2 1/2 x 2 1/2	12.00		

Polished or Chromium Plated, Price on Application
Other Sizes Furnished to Order

Loose Pin Butt Hinges

CAST BRASS—POLISHED
BRASS PINS

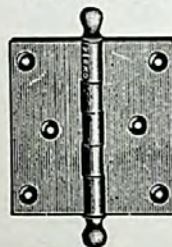


Fig. 953

Size Open Inches	Size Screw Inches	Per Pair	Size Open Inches	Size Screw Inches	Per Pair
2 x 1 1/2	3/4 x 6	\$ 1.15	3 x 3	1 x 8	\$ 2.30
2 x 2	3/4 x 7	1.40	3 1/2 x 3	1 x 11	3.00
2 1/2 x 2	3/4 x 7	1.65	3 1/2 x 3 1/2	1 x 11	3.30
2 1/2 x 2 1/2	1/2 x 7	1.80	4 x 3	1 x 11	4.50
3 x 2	1 x 8	2.00	4 x 3 1/2	1 x 11	5.00
3 x 2 1/2	1 x 8	2.20	4 x 4	1 x 11	6.00

Chromium Plated, add 50% to above Prices

Skylight or Hatch Hinges

CAST BRONZE



Fig. 376

Length Between Joints Inches	Plain Bronze Per Pair	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair	Length Open Inches
2	\$ 2.10	\$ 3.40	\$ 4.15	\$ 4.65	1 1/4
3	2.40	3.75	4.60	5.05	12 1/4
4	2.60	4.25	5.25	5.65	13
5	4.20	6.00	7.30	7.60	16 1/4
6	4.50	6.50	8.00	8.25	17

Boston Hasp Hinges

GALVANIZED MALLEABLE IRON AND BRONZE

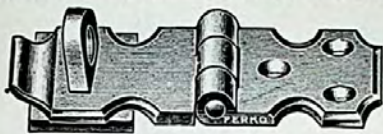


Fig. 954

Length Opened Inches	Galv.	Pl. Bronze	Pol. Bronze
	Each	Each	Each
4	\$.40	\$.75	\$1.10
6	.55	1.00	1.65

Security Hasp Hinges

POLISHED BRONZE

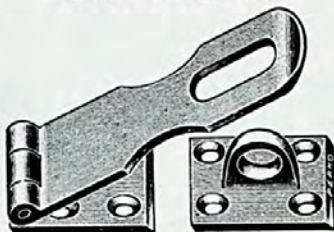


Fig. 955

Length Closed Inches	Pol. Bronze	Width Inches
	Each	
2 3/4	\$.85	1
3 3/4	1.00	1 1/4

Cabin Door Hooks

CAST BRASS—POLISHED



Fig. 956

Size Inches	Each	Size Inches	Each
1 1/2	\$.40	3 1/2	\$.70
2	.45	4	.75
2 1/2	.55	5	.90
3	.60	6	1.20

Cabin Door Hooks

DOUBLE JOINTED
CAST BRASS—POLISHED



Fig. 957

Size Inches	Each	Size Inches	Each
2	\$1.50	4	\$1.70
2 1/2	1.50	5	1.85
3	1.55	6	2.00

Safety Hasps

EXTRA HEAVY CAST BRONZE—POLISHED



Fig. 1060

Length Inches	Width Inches	Each
4 1/2	1 3/8	\$1.75

Anti-Rattle Door Fastener

CAST BRONZE—POLISHED

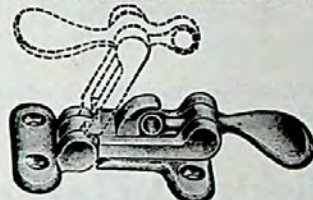


Fig. 1108

Furnished complete with screws. Has 1/4 inch hole in lever for padlock.

Each	Size Base Inches	Weight Ounces
\$1.25	3x2	
	6	

Door Holders

SIDE PATTERN
CAST BRONZE—POLISHED

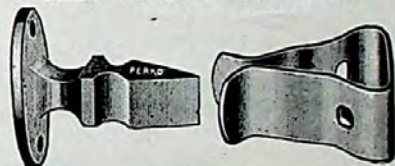


Fig. 1065

Projection Inches	Price Per set
2		$ .90

FLOOR PATTERN

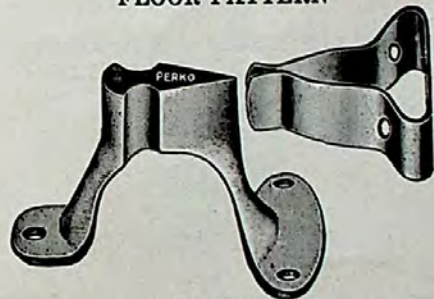


Fig. 1066

Height From floor Inches	Price Per set
2		$1.00

Door Stops

CAST BRONZE—POLISHED
RUBBER TIP



Fig. 1109

Each	Diam. Base Inches	Projection Inches
\$.75	2	1 1/8

Furnished complete with screws.

Above items desired CHROMIUM PLATED, add 50% to Polished Brass and Bronze Prices

Refrigerator Hinges
CAST BRASS—POLISHED

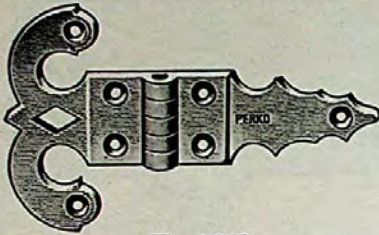


Fig. 1061

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

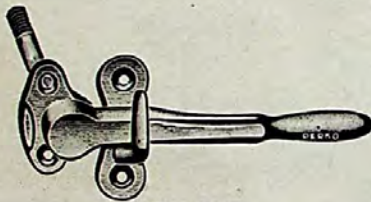


Fig. 1062

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

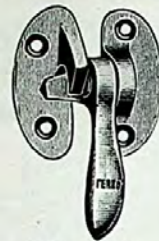


Fig. 1064

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 Pulls
CAST BRONZE

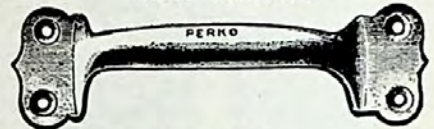


Fig. 775

Length Inches	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
4 1/4	\$.40	\$.55	\$.75
6	.50	.65	.85

Drawer Pulls
CAST BRASS—POLISHED



Fig. 958

Size Inches	Each
3	\$.40
4	.45

Flush Drawer Handle
CAST BRONZE—POLISHED

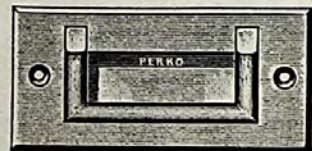


Fig. 1057

Size Inches	Each
1 3/8 x 3 1/4	\$.70

Flush Ring Pulls
CAST BRASS—POLISHED



Fig. 841

No.	Each	Size Plate Inches
1	\$.50	1 1/4 x 1 1/2
2	.65	1 1/2 x 1 3/8
3	.85	1 3/8 x 2 1/2
4	1.00	2 x 2 3/4

Hatch Adjusters

CAST BRONZE

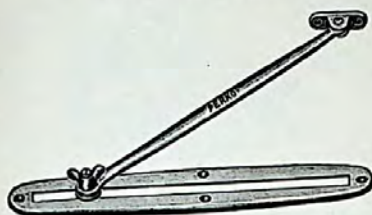


Fig. 797

No.	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Arm Inches	Length Plate Inches
1	\$2.25	\$2.75	\$3.25	8	8 1/2
2	2.75	3.25	3.75	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 Bracket

POLISHED BRASS

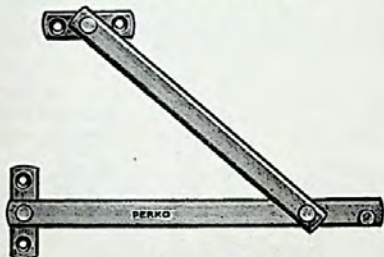


Fig. 406

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 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 Hinges

CAST BRONZE

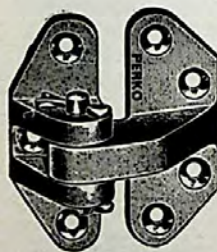


Fig. 773

A new type hatch hinge that will allow hatch cover to be laid flat on deck.

Size—2 1/2 x 3 1/4

	Price Per Pair
Polished Bronze	\$4.00
Nickel Plated . . .	4.50
Chromium Plated	5.25

Illustration shows one-half pair.

Skylight Quadrants

CAST BRONZE



Fig. 449

CAST BRONZE

No.	Per Dozen Complete	Without Plate Per Dozen	Size Inches	No.	Length Inches	Polished Bronze Per Pair	Nickel Plated Per Pair	Chromium Plated Per Pair
1	\$3.50	\$1.40	1 1/2	1	5	\$3.50	\$4.25	\$5.00
2	4.00	2.00	1 3/4	2	8	5.25	6.25	6.75
3	5.00	2.25	2	3	10	6.50	7.50	8.30
				4	12	7.25	8.50	9.25

Door Buttons

CAST BRASS—POLISHED



Fig. 948

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	\$1.50	\$1.85	\$2.25
2	2.00	2.35	2.75

Combination Sash Hinges

WITH CURTAIN ROD SOCKETS
CAST BRONZE

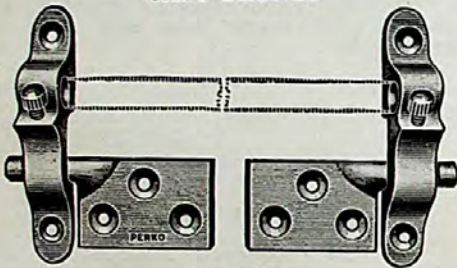


Fig. 960

Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1 1/4 x 3/8	2 3/4 x 1/2	7	7/8

	Polished Bronze Per Set	Nickel Plated Per Set	Chromium Plated Per Set
	\$1.50	\$1.85	\$2.25

Wardrobe Hooks

CAST BRONZE—POLISHED



Fig. 840

Fig.	Polished Brass Each
835	\$.25
840	.30



Fig. 635

Chromium Plated Each	Projection Inches	Width Inches
\$.40	1 1/2	1
.50	1 1/2	2 3/8

Coat and Hat Hooks

CAST BRASS



Fig. 959

Projection Inches	Width Base Inches	Polished Brass Each	Chromium Plated Each
2	1 1/4	\$.30	\$.45

Sash Anti Rattlers

CAST BRONZE—POLISHED

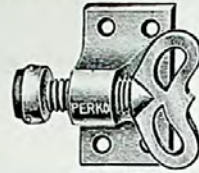


Fig. 839

Furnished with leather tip to prevent defacing of wood work. Size of base 1" x 1 3/4".

Polished Bronze, Each	\$1.25
Chromium Plated, Each	1.75

Sash Lifts

CAST BRONZE



Fig. 776

No.	Size of Plate	Polished Bronze Each	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



Fig. 777

Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
\$.60	\$1.00	1 3/4 x 1	1 1/2

Please specify left or right hand

Flush Hatch Lifting Handle

CAST BRONZE



Fig. 774

Designed especially for flush installation on boats, will not catch on table or chair legs or heels of shoes.

Size—3 x 2 3/8 inches

	Price Each
Polished Bronze	\$2.00
Nickel Plated	2.50
Chromium Plated	3.00

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	5/8	1/8	2
1/8	4.40	1 1/2	1 1/8	1 1/8	5/8	1/8	2 1/2
1/4	4.40	1 3/4	1 1/8	1 1/4	3/4	1/8	3 1/2
1/4	5.25	2 1/8	1 3/8	1 1/8	1 1/8	1/8	5 3/8
3/8	6.00	2 3/8	1 1/8	1 1/2	1	1/8	7 1/2
1/2	7.00	2 5/8	1 3/4	1 5/8	1 1/8	1/8	9 1/4
1/2	8.00	2 3/4	1 1/4	1 3/4	1 1/8	1/8	13 1/4
5/8	11.00	3 5/8	2 1/2	2 1/4	1 3/8	1/8	22 1/2
3/4	13.00	3 1/4	2 3/4	2 3/8	1 1/8	1	26
3/8	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 1/4	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 7/8	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.

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	3/8	2 1/4
1/4	6.00	5/8	1	3 1/8
1/2	8.00	3/4	1 1/4	6 1/2
3/8	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

LIGHT

★Size Ins.	Galv. Iron Per Doz.	Spun Brass Per Doz.	Cast Brass Per Doz.	Weight Per Doz.	For Diam. Rope Inches
1/2		\$.35			1/8
3/8		.50			1/4
3/4	\$.45	.55	\$.84		1/4
7/8		.75	.98		1/8
1	.60	.85	1.12		1/8
1 1/4	.80	1.50	1.50		3/8
1 1/2	1.00		1.86		1/8
1 3/4	1.25		2.40		1/2
2	1.50		2.80		5/8
2 1/4	1.85		3.20		5/8
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 1/8 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.

Bronze Wire Rope Thimbles
WROUGHT BRONZE—DIPPED



Fig. 930

For dimensions refer to Fig. 466.

For Size Rope Inches	Price Each
1/8	\$.15
1/8	.15
1/4	.20
1/4	.25
3/8	.35
3/8	.45
1/2	.50
1/2	.70

Solid Wire Rope Thimbles
MANGANESE BRONZE—POLISHED



Fig. 929

For Size Rope Inches	Price Each	Thick-ness Inches	For Turnbuckle Inches
1/8	\$.30	1/8	1/4
1/8	.40	3/8	1/8
1/4	.45	1/2	3/8
3/8	.50	5/8	1/2
1/2	.60	3/4	1/2
3/8	.75	1	3/8

OPEN TURNBUCKLES

DROP FORGED STEEL
GALVANIZED AND SELF COLORED

HOOK AND EYE



Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK

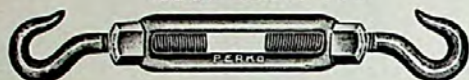


Fig. 392

JAW AND EYE

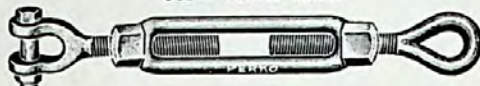


Fig. 393

JAW AND JAW

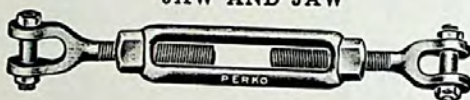


Fig. 394

All Turnbuckles Have Right and Left Hand Threads—Threads Are All Hot Galvanized.
All Turnbuckle Jaws $\frac{5}{8}$ and Smaller Have Hex. Head Bolt and Nut.
All Turnbuckle Jaws $\frac{3}{4}$ and Larger Have Pin and Cotter.
 $\frac{3}{4}$ and Larger Furnished with Bolt and Nut To Order.

Diameter & Takeup	Eye & Eye Hook & Hook		Jaw & Eye		Jaw & Jaw		Diameter & Takeup	Eye & Eye Hook & Hook		Jaw & Eye		Jaw & Jaw	
	Galv. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each		Galv. Each	S. C. Each	Galv. Each	S. C. Each	Galv. Each	S. C. Each
* $\frac{1}{4}$ x 3	\$.40	\$.36	\$.50	\$.45	\$.60	\$.55							
* $\frac{1}{4}$ x 4	.40	.36	.50	.45	.60	.55							
* $\frac{1}{4}$ x 4½	.50	.44	.62	.54	.74	.66							
* $\frac{1}{4}$ x 6	.60	.52	.74	.64	.88	.78	* $\frac{1}{4}$ x 12	\$ 7.25	\$ 6.00	\$ 9.00	\$ 7.50	\$11.00	\$ 9.00
* $\frac{1}{2}$ x 6	.90	.80	1.10	.95	1.30	1.15	18	9.00	7.50	11.00	9.00	13.00	10.50
9	1.45	1.20	1.70	1.40	1.90	1.55	24	11.50	9.50	13.00	11.00	15.00	12.50
12	1.70	1.40	2.00	1.60	2.30	1.85	36	16.00	13.00	17.00	14.00	18.00	15.00
* $\frac{3}{8}$ x 6	1.15	.95	1.30	1.10	1.50	1.25	* $\frac{1}{2}$ x 12	11.00	9.00	13.00	10.50	15.00	12.00
9	1.75	1.45	2.00	1.70	2.30	1.90	18	13.50	11.00	15.75	13.00	18.00	15.00
12	2.10	1.70	2.40	2.00	2.70	2.20	24	17.00	14.00	20.00	16.50	23.00	19.00
18	2.60	2.20	3.10	2.60	3.50	2.90	36	22.00	18.00	26.00	21.00	30.00	24.00
* $\frac{1}{2}$ x 6	1.50	1.25	1.75	1.45	2.00	1.65	48	28.00	23.00	33.00	27.00	38.00	30.00
9	2.30	1.90	2.70	2.20	3.00	2.50	* $\frac{3}{4}$ x 18	22.00	18.00	28.00	22.50	33.00	27.00
12	2.70	2.20	3.10	2.60	3.50	2.90	24	28.00	23.00	34.00	28.00	39.00	32.00
18	3.60	3.00	4.20	3.50	4.70	3.90	36	36.00	30.00	42.00	35.00	48.00	39.00
24	4.20	3.50	4.90	4.10	5.50	4.60	48	47.00	38.00	55.00	44.00	62.00	50.00
* $\frac{3}{8}$ x 12	3.40	2.80	3.90	3.20	4.50	3.70	* 2 x 24	42.00	35.00	50.00	41.00	58.00	47.00
18	4.30	3.60	5.00	4.20	5.75	4.70	36	50.00	40.00	59.00	48.00	68.00	55.00
24	5.25	4.40	6.25	5.10	7.00	5.75	48	62.00	50.00	74.00	60.00	85.00	70.00
* 1 x 12	4.20	3.50	4.80	4.00	5.50	4.60							
18	5.50	4.50	6.50	5.25	7.25	6.00							
24	6.75	5.50	8.00	6.50	8.75	7.25							
36	8.50	7.00	10.00	8.25	11.50	9.25							
* $\frac{1}{8}$ x 12	5.25	4.20											
18	6.75	5.50											
24	8.25	6.75											
36	10.50	8.50											

LARGER SIZES—PRICE ON APPLICATION

For One Lock Nut Add 5% to List. For Two Lock Nuts Add 10% to List.

*Indicates standard marine lengths.

Improved Pipe Turnbuckles

GALVANIZED DROP FORGED STEEL WITH LOCK NUTS



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 1/2	80.00	90.00	100.00		

Sizes larger than 1 1/4 inches are furnished in the round type.

Jaws 5/8 and smaller have hex. head bolt and nut.

Jaws 3/4 and larger have pin and cotter, furnished with bolt and nut to order.

Petite Brass Turnbuckles

RIGHT AND LEFT HAND THREADS



Fig. 396

Size No.	Thrd. Diam. Inches	Lgth. Takeup Inches	Overall Lgth. Closed Inches	Inside Diam. Eye Inches	Plain Brass Each
1	1/8	3/8	2 1/8	1/8	\$.20
2	1/4	1/2	3 1/4	1/4	.25
3	3/8	5/8	4 1/2	3/8	.30
4	1/2	3/4	5 5/8	1/2	.35
5	5/8	1	6	5/8	.40

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

Swivels

WELDLESS DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Overall Length Inches	Width Inside Inches	Est. Weight Each in Lbs.	Est. Ult. T. S. Tons
1/4	\$.75	3 1/4	3/4	1 1/8	2 1/2
5/16	.90	4 1/8	1	1 1/8	4 1/4
3/8	1.00	5	1 1/4	3/8	5 1/2
1/2	1.50	6	1 1/2	1 1/4	9 1/2
5/8	2.50	7 1/2	1 3/4	2 1/4	14 3/4
3/4	3.50	9	2	3 1/2	18 1/2
7/8	4.50	9 1/2	2 1/4	5 3/8	22 1/4
1	5.50	11 1/2	2 1/2	8 3/4	27 1/2
1 1/4	11.00	14	3	16	37 1/2

Deduct 10% for Self Colored Finish.

Swivels with Jaw End

DROP FORGED STEEL



Fig. 623

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 1/2
5/16	1.15	4 1/8	1/2	1 x 1	1 3/4
3/8	1.25	4 1/2	3/8	1 1/4 x 1	1 1/2
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.

Jaw and Jaw Swivels

DROP FORGED STEEL

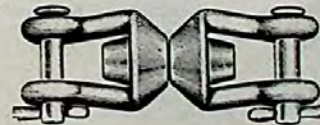


Fig. 481

Size Inches	Galv. Each	Overall Length Inches	Dimensions of Jaws Inside		Est. Wt. Each in Lbs.
			Width Inches	Length Inches	
3/8	\$1.40	4 3/4	1 1/8	3/8	1
1/2	2.25	6 1/8	1 3/8	3/4	1 3/4
5/8	3.00	7 1/2	1 1/2	1	3
3/4	4.25	8 3/8	1 3/2	1 3/8	5

For Self Colored Finish, Deduct 10%

Hooks and Thimbles
DROPPED 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	1/2	10 1/2
3/8	.25	2 7/8	5/8	18
1/2	.30	3 3/8	3/4	37 1/2
5/8	.50	4 3/8	7/8	80
3/4	.60	5 3/8	1	150
7/8	.80	6 1/4	1 1/8	212
1	1.00	7	1 1/4	300
1 1/8	1.35	7 1/2	1 3/8	350
1 1/4	1.65	8 3/8	1 1/2	450

Deduct 5% for Self Colored Finish.

Hooks and Thimbles
DROPPED 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	1/4	8
5/16	.22	2 3/8	1/4	11
3/8	.25	2 3/4	1/4	24
1/2	.30	3 1/4	3/8	32
5/8	.50	4	1/2	62
3/4	.60	4 7/8	1/2	103
7/8	.80	5 3/8	3/4	142
1	1.00	6 1/4	3/4	225
1 1/8	1.35	7	3/4	293
1 1/4	1.65	7 1/4	1	400

Deduct 5% for Self Colored Finish.

Small Eye Hooks
FOR BLOCKS—DROPPED FORGED STEEL



Fig. 656

Size Inches	Galv. Each	Length Overall Inches	Throat Opening Inches	Est. Wt. Per 100 in Lbs.
1/4	\$.15	2	1/2	7
5/16	.15	2 3/8	1/2	10
3/8	.18	2 1/2	1/2	21
1/2	.20	3 1/4	1/2	26
5/8	.35	4	1/2	50
3/4	.45	4 7/8	1 1/8	92
7/8	.60	5 3/8	1 3/8	128
1	.75	6 1/4	1 1/4	200
1 1/8	1.05	7	1 1/8	255
1 1/4	1.30	7 3/8	1 1/2	375

"S" Hooks

WROUGHT STEEL GALVANIZED



Fig. 680

Size Inches	Price Per Doz.	Length Overall Inches	Est. Wt. Per Doz. in Lbs.
1/4	\$.36	1 1/2	1/4
5/16	.48	2	1/2
3/8	.96	2 1/2	1
1/2	1.20	3	1 3/4
5/8	1.80	3 3/4	2 3/4
3/4	2.40	3 3/4	4

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 7/8	4 3/4

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	1 1/8	7/8	22
1/2	.40	3 1/2	7/8	1	38
5/8	.70	4 1/8	1	1 1/4	78
3/4	.90	5 1/8	1 1/8	1 3/8	113
7/8	1.20	5 3/8	1 1/4	1 1/2	175
1	1.50	6 1/4	1 3/8	1 3/4	281

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 1/4	2 1/4	3/8
3	.90	7/8	1 3/4	5	3 1/4	1/2
4	1.10	1	2	5 1/2	3 1/2	1/2

Match Hooks and Wire Rope Thimbles



Fig. 539

Size Inches	Galv. List Each	Score of Thimble Inches	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Approx. Weight Per 100 in Lbs.
1/4	\$.40	7/8	2 1/8	1/2	3/8	11
5/16	.40	1/4	2 1/2	5/8	3/4	17
3/8	.45	7/8	2 7/8	1 1/8	7/8	27
1/2	.55	7/8	3 1/2	7/8	1	51
5/8	.90	1/2	4 1/8	1	1 1/4	95
3/4	1.10	3/8	5 1/8	1 1/8	1 3/8	141
7/8	1.50	3/4	5 3/8	1 1/4	1 1/2	207
1	1.85	7/8	6 1/4	1 3/8	1 3/4	334

Wire Rope Clips

MALLEABLE IRON SADDLE STEEL U-BOLT AND NUTS GALVANIZED



Fig. 333

Match Hooks and Manila Rope Thimbles



Fig. 540

Size Inches	Galv. List Each	Thimble Scored For Rope Diam. Inches	Length Hook Inches	Inside Diam. of Eye Inches	Inside Diam. of Hook Inches	Approx. Weight Per 100 in Lbs.
1/4	\$.40	3/8	2 1/4	3/8	5/8	10
5/16	.40	1/2	2 1/2	3/4	3/4	17
3/8	.45	1/2	3 1/8	7/8	7/8	25
1/2	.55	3/8	3 3/8	1 1/8	1	49
5/8	.90	7/8	4 1/2	1 1/4	1 1/4	107
3/4	1.10	1	5 1/8	1 1/2	1 3/8	166
7/8	1.50	1 1/8	6 1/8	1 3/4	1 1/2	254
1	1.85	1 1/4	7	2	1 3/4	377

DEDUCT 5% FOR SELF COLORED

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
5/16	9.00	19
3/8	12.00	25
7/8	15.50	32
1/2	18.50	40
5/8	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

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
1/2 x 2 1/4	.12	3/8	12 3/4
3/8 x 2 1/2	.14	3/4	17
1/2 x 3 1/4	.20	1	43
5/8 x 4	.35	1 1/4	92
3/4 x 4 1/2	.60	1 1/2	146
7/8 x 5	.85	1 3/4	221
1 x 6	1.25	2	325
1 1/4 x 8	2.25	2 1/2	575

Sizes are: 1st, Diameter Screw.
2nd, Length under Eye.

Shoulder Screw Eye Bolts

WELDLESS DROP FORGED STEEL AND BRONZE
LARGE EYE



Fig. 501

Size Inches	Galv. Each	Polished Manganese Bronze Each	Inside Diam. Eye Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.10	\$.50	1/2	4 1/2
1/2 x 2 1/4	.12	.60	3/8	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	1.75	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
BRONZE ONLY WITH SHOULDER



Without Shoulder—Fig. 522



With Shoulder—Fig. 523

REGULAR

Size Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each
1/4 x 2	\$.14	\$.45	\$.50
1/2 x 2 1/4	.16	.50	.60
3/8 x 2 1/2	.18	.60	.70
1/2 x 3 1/4	.25	.90	1.00
5/8 x 4	.45	1.50	1.75
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		

EXTRA LONG

Size Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each
1/4 x 4	\$.20	\$.55	\$.60
1/2 x 4 1/4	.24	.65	.75
3/8 x 4 1/2	.28	.75	.85
1/2 x 6	.40	1.15	1.25
5/8 x 6	.60	1.75	2.00
3/4 x 6	.95		
7/8 x 8	1.35		
1 x 9	1.90		
1 1/4 x 11	3.25		

Inside Diam. Eye Inches	Regular Weight Per 100 in Lbs.	Extra Long Weight Per 100 in Lbs.
1/2	7	10
5/8	11	16
3/4	20	27
1	44	56
1 1/4	86	104
1 1/2	124	150
1 3/4	270	323
2	329	398
2 1/2	688	835

ADDITIONAL LENGTHS—GALVANIZED

Length of Shank Inches	Diameter of Bolts					
	1/4	1/2	3/8	1/2	3/4	1
3	\$.20	\$.24	\$.28			
4	.20	.24	.28	\$.40		
5	.21	.25	.30	.40	\$.60	
6	.22	.26	.32	.40	.60	.95
7			.34	.42	.63	.99
8			.36	.44	.66	1.03
10				.48	.72	1.11
12					.78	1.19
15					.87	1.31
18					.96	1.43
20						1.51

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

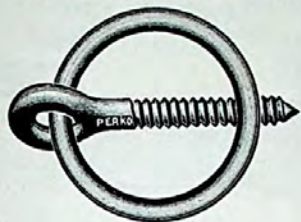


Fig. 618

Shoulder Screw Ring Bolts
DROP FORGED STEEL AND CAST BRONZE

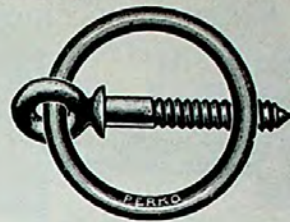


Fig. 619

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		Regular		Extra Long
Size Inches	Galv. Each	Polished Bronze Each	Size Inches	Galv. Each	Diam. Stock Inside Diam. Rings Inches	Weight Per 100 in Lbs.	Weight Per 100 in Lbs.
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.

Bronze Machine Bolts

HOT FORGED
HEX HEAD—HEX NUT



Fig. 726

PRICE PER HUNDRED

Length Under Head Inches	Diameter of Bolts Inches					
	¼	⅜	½	⅝	¾	⅞
2	\$13.00	\$15.30	\$17.45	\$20.50	\$23.10	
2½	13.50	16.10	18.25	21.50	24.30	
3	14.00	16.90	19.05	22.50	25.50	\$37.80
3½	14.50	17.70	19.85	23.50	26.70	
4	15.00	18.50	20.65	24.50	27.90	41.80
4½		19.30	21.45		29.10	
5	16.00	20.10	22.25	26.50	30.30	45.80
5½		20.90	23.05		31.50	
6		21.70	23.85	28.50	32.70	49.80
8					37.50	57.80

Bronze Lag Screws

HOT FORGED
SQUARE HEAD—GIMLET POINT



Fig. 727

PRICE PER HUNDRED

Length Under Head Inches	Diameter of Screw Inches					
	¼	⅜	½	⅝	¾	⅞
1½	\$11.00	\$12.00	\$12.90			
2	11.50	12.50	13.25	\$16.20	\$17.75	
2½	12.00	13.15	14.20	17.05	18.85	
3	12.50	13.80	15.00	17.90	20.00	\$30.00
3½	13.00	14.45	15.80	18.75	21.20	
4	13.50	15.10	16.60	19.60	22.40	34.00
4½		15.75	17.40	20.50	23.60	
5	14.50	16.40	18.20	21.50	24.80	38.00
5½			19.00	22.50	26.10	
6	15.50	17.70	19.80	23.50	27.40	42.00
7			21.40	25.50	30.00	46.00
8			23.00	27.50	32.60	50.00
10			26.20		37.80	58.00

Bronze Carriage Bolts

HOT FORGED
ROUND HEAD—HEX NUT



Fig. 728

PRICE PER HUNDRED

Length Under Head Inches	Diameter of Bolts Inches					
	¼	⅜	½	⅝	¾	⅞
1½	\$12.00	\$14.50				
2	12.50	15.30	\$16.80	\$21.00	\$23.00	
2½	13.00	16.10	17.60		24.30	
3	13.50	16.90	18.40	23.00	25.60	\$44.50
3½	14.00	17.20	19.20		26.90	
4	14.50	18.00	20.00	25.00	28.20	48.50
4½	15.00	18.80	21.80		29.50	
5	15.50	19.60	22.60	27.00	30.80	52.50
5½	16.00	20.40	23.40		32.10	
6	16.50	21.20	24.20	29.00	33.40	56.50
7		23.20	26.20		36.40	
8		25.20	28.20		39.40	66.50
10			32.20		45.40	76.50

Bronze Hanger Bolts

HOT FORGED
HEX NUT—GIMLET POINT



Fig. 729

PRICE PER HUNDRED

Length Overall Inches	Diameter of Screws Inches					
	¼ & ⅜	½	⅝	¾	⅞	1
2	\$16.00					
2½	16.50	\$17.00		\$23.20		
3	17.00	17.00	\$20.00	23.20	\$32.00	
3½	17.80	17.80	21.00	24.40		
4	18.60	18.60	22.00	25.60	36.00	
5		20.20	24.00	28.00	40.00	\$56.40
6		21.80	26.00	30.40	44.00	62.20
7		23.40	28.00	32.80	48.00	
8		25.00		35.20	52.00	73.40
10		28.20		40.00	60.00	84.80
12						96.20

DIAMETERS AND LENGTHS NOT LISTED ARE NOT CARRIED IN STOCK BUT CAN BE FURNISHED. PRICE AND DELIVERY ON APPLICATION.

Galvanized Machine Bolts



Fig. 1078

Cut Thread—Square Head and Square Nut

Length Inches	PRICE PER 100 PIECES						
	Diameter Inches						
	¼	⅝	¾	⅞	1½	2	2½
1	\$1.15	\$1.75	\$2.35	\$3.95	\$4.60		
1¼	1.25	1.80	2.45	4.10			
1½	1.30	1.95	2.60	4.25	5.00		
2	1.50	2.20	2.90	4.55	5.35	\$9.10	\$11.60
2½	1.70	2.45	3.20	4.85	5.75	9.60	12.25
3	1.85	2.70	3.50	5.20	6.15	10.10	12.90
3½	2.05	2.95	3.80	5.50	6.50	10.60	13.55
4	2.50	3.15	4.10	5.85	6.85	11.10	14.20
4½	2.65	3.60	4.40	6.15	7.25	11.60	
5	2.80	3.80	4.80	6.50	7.65	12.10	15.50
5½	2.95	4.00	5.10	6.85	8.05	12.60	
6	3.10	4.20	5.40	7.15	8.45	13.10	16.80
6½	3.80	5.10	6.50	9.20	10.15	13.60	
7	4.00	5.35	6.85	9.65	10.60	14.10	18.10
7½			7.15		11.05		
8	4.35	5.80	7.50	10.55	11.50	15.10	19.40
8½			7.80		11.95		
9			8.15		12.40	16.10	20.70
9½					12.85		
10			8.80		13.30	17.10	22.00
11			9.50		14.70		
12			10.20		15.60	19.10	24.60
14					17.40	21.10	27.20
16					19.20	23.10	29.80
18					21.00	25.10	32.40
20					22.80	27.10	35.00

We stock Galvanized Bolts only. Plain Bolts (not Galvanized) furnished to order.

Diameters and lengths not listed are not carried in stock but can be furnished. Price and delivery on application.

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
¼	100	8	100	8	100	10
⅝	50	10	50	10	100	10
¾	50	12	50	12	50	12
⅞	50	12	50	12	50	12
1½	50	10	50	8	50	12
2	25	12	25	12		
2½	25	8	25	8		
3	25	8	25	8	25	8

Longer lengths and larger diameters packed according to the discretion of the manufacturer.

Galvanized Carriage Bolts

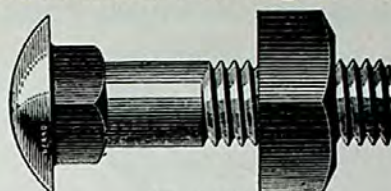


Fig. 1079

Cut Thread—Square Nut

Length Inches	PRICE PER 100 PIECES						
	Diameter Inches						
	¼ & ⅝	¾	⅞	1½	2	2½	3
¾	\$1.05						
1	1.10	\$1.65	\$2.10		\$4.25		
1¼	1.15	1.70	2.20				
1½	1.20	1.80	2.35		4.60		
2	1.35	2.00	2.60	\$4.05	4.95	\$9.10	
2½	1.55	2.25	2.90	4.40	5.35	9.60	
3	1.70	2.50	3.20	4.75	5.75	10.10	
3½	1.85	2.75	3.50	5.10	6.15	10.60	
4	2.30	2.95	3.80	5.40	6.55	11.10	\$15.70
4½	2.45	3.40	4.10	5.75	6.95	11.60	
5	2.60	3.60	4.50	6.10	7.35	12.10	17.00
5½	2.75	3.85	4.80	6.45	7.80	12.60	
6	2.90	4.05	5.10	6.80	8.20	13.10	18.30
6½	3.65	4.90	6.30		9.75		
7	3.85	5.15	6.65		10.20	14.10	19.60
7½	4.00	5.35	6.95		10.65		
8	4.20	5.60	7.30	9.60	11.10	15.10	20.90
8½			7.60		12.05		
9		6.05	7.95		12.50	16.10	22.20
10		6.50	8.60		13.40	17.10	23.50
11			9.30		14.30	18.10	
12			10.00		15.20	19.10	
13					16.10		
14					17.00		
15					17.90		
16					18.80		
17					19.70		
18					20.60		

¾ inch size carried in stock up to 4 inches long.

Galvanized Lag Screws



Fig. 1080

Cut Thread—Square Head—Gimlet Point

Length Inches	PRICE PER 100 PIECES						
	Diameter Inches						
	¼ & ⅝	¾	⅞	1½	2	2½	3
1	\$2.35	\$2.85					
1½	2.15	2.60	\$3.90	\$4.85			
2	2.35	2.85	3.55	4.45	\$7.40		
2½	2.55	3.10	3.90	4.85			
3	2.80	3.40	4.30	5.30	7.50		
3½	3.05	3.70	4.70	5.75			
4	3.30	4.00	5.10	6.20	8.80	\$13.70	
4½	3.55	4.30	5.50	6.65			
5	3.80	4.65	5.90	7.10	10.10	15.50	
5½	4.05	5.00		7.55			
6	4.35	5.35	6.70	8.00	11.40	17.30	
6½				8.45			
7		6.05		8.90	12.70	19.10	
8		6.75		9.80	14.00	20.90	
9				10.70	15.20		
10				11.60	16.40	24.40	
12					19.00	28.10	

Hexagon Brass Nuts
TAPPED U. S. STANDARD THREADS



Fig. 730

Bolt Diameter	U. S. S. Standard			List Price Per Hundred	
	Threads Per Inch	Width (Inches)	Thickness (Inches)	Milled Smd-Finished	Cast
1/4	20	1/2	1/4	\$2.40	....
1/4*	18	3/8	1/4	3.20	....
3/8	16	1/2	3/8	5.20	....
3/8*	14	3/8	1/2	7.20	....
1/2	13	3/4	1/2	9.60	\$5.00
1/2*	12	1/2	3/4	15.00	7.00
5/8	11	1 1/8	5/8	17.00	8.75
5/8*	10	1 1/4	3/4	27.00	12.00
3/4	9	1 1/2	3/4	45.00	18.30
3/4*	8	1 3/8	1	68.00	25.00
1	7	1 3/4	1 1/8	....	37.50
1 1/8	7	2	1 1/4	....	50.00
1 1/4	6	2 1/8	1 3/8	....	65.00
1 1/4*	6	2 3/8	1 1/2	....	75.00
1 1/2	5 1/2	2 1/2	1 3/4	....	125.00
1 3/4	5	2 3/4	1 3/4	....	150.00
1 3/4*	5	2 7/8	1 3/8	....	175.00
1 7/8	4 1/2	3 1/8	2	....	250.00
2				....

Brass Washers



Fig. 731

Bolt Size	Outside Diameter	Inside Diameter	Thickness	Price Per Pound	Bolt Size
1/8	1/2	.195	.040	\$.80	1/8
1/4	3/4	1/2	.051	.75	1/4
1/4*	7/8	3/4	.064	.75	1/4*
3/8	1	3/4	.081	.70	3/8
3/8*	1 1/8	1/2	.081	.70	3/8*
1/2	1 1/4	1/2	.091	.70	1/2
1/2*	1 1/2	3/8	.091	.70	1/2*
5/8	1 5/8	1/2	.102	.70	5/8
5/8*	2	3/8	.114	.70	5/8*
3/4	2 1/4	1/2	.128	.70	3/4
3/4*	2 1/2	1/2	.144	.70	3/4*
1					1

Wrought Steel Washers

HOT GALVANIZED—U. S. STANDARD SIZES

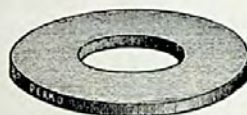


Fig. 1083

Square Iron Nuts
HOT GALVANIZED AND PLAIN
TAPPED U. S. STANDARD THREAD



Fig. 1084

Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100
1/4*	13.8	\$.55	3/4*	237.1	\$ 4.60
1/4	22.8	.75	7/8	371.0	7.20
3/8*	37.4	1.05	1	518.1	10.00
3/8	55.7	1.50	1 1/8	725.4	14.00
1/2*	78.6	2.00	1 1/4	957.0	19.60
1/2	109.8	2.80	1 3/8	1257.6	33.50
5/8*	147.0	3.25	1 1/2	1604.9	45.20

For Bolts Inches	Outside Diam. Inches	Size Hole Inches	Thick-ness Gauge Nos.	Thick-ness Inches	Number in 100 Pounds	Per Pound
3/16	9/16	1/4	18	3/64	36200	\$.38
1/4*	3/4	5/16	16	1/16	14900	.33
5/16	7/8	3/8	16	1/16	11100	.33
3/8*	1	7/16	14	5/64	6700	.21
7/16	1-1/4	1/2	14	5/64	4100	.20
1/2*	1-3/8	9/16	12	7/64	2600	.19
9/16	1-1/2	5/8	12	7/64	2200	.19
5/8*	1-3/4	11/16	10	1/8	1300	.18
3/4*	2	13/16	10	1/8	1000	.18
7/8	2-1/4	15/16	9	5/32	728	.18
1*	2-1/2	1- 1/16	9	5/32	595	.18

Hexagon Iron Nuts
HOT GALVANIZED AND PLAIN
TAPPED U. S. STANDARD THREAD



Fig. 1085

Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100	Bolt Diam. Inches	Weight Per M in Lbs.	Price Per 100
1/4*	12.2	\$.65	3/4*	202.3	\$ 5.10
1/4	19.9	.90	7/8	314.1	8.00
3/8*	32.7	1.20	1	441.4	11.15
3/8	48.4	1.75	1 1/8	617.2	15.55
1/2*	68.4	2.25	1 1/4	819.3	21.40
1/2	97.2	3.10	1 3/8	1077.5	28.80
5/8*	122.3	3.60	1 1/2	1371.0	38.70

Brass Spring Cotter Pins



Fig. 703

Length Inches	PRICE PER 100 Diameter Inches			
	3/32	1/4	5/32	
1	\$.75	\$.90	\$1.35	
1 1/2	.90	1.20	1.80	\$2.60
2	1.10	1.50	2.20	3.30
2 1/2		1.90	2.80	4.00

Connecting Links

DROP FORGED STEEL

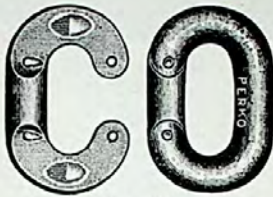


Fig. 319

Size Inches	Galv. Per Dozen	S. C. Per Dozen	Overall Dimensions Inches	Est. Wt. Per Doz. Pounds
1/8	\$1.50	\$1.15	1 1/8 x 3/4	3/8
1/4	1.50	1.15	1 1/2 x 1	3/4
5/16	1.65	1.20	1 1/4 x 1 1/8	1
3/8	2.00	1.50	2 1/8 x 1 3/8	2
7/16	2.40	1.80	2 3/8 x 1 1/2	3 1/8
1/2	2.90	2.00	2 3/8 x 1 3/4	4 1/2
5/8	3.90	2.70	3 x 1 1/2	6 3/8
3/4	4.50	3.20	3 1/8 x 2 1/8	9
7/8	5.50	4.10	3 1/2 x 2 1/8	11
1	6.00	4.50	3 7/8 x 2 1/2	14 1/4
1 1/8	9.25	6.75	4 1/2 x 2 1/2	20 1/4
1 1/4	14.00	11.00	5 x 3 1/4	29
1 1/8	16.50	13.50	5 5/8 x 3 1/2	40
1 1/4	21.50	17.50	6 1/8 x 4	53 1/2
1 3/8	27.00	24.50	6 3/4 x 4 3/4	75
1 1/2	34.00	30.00	7 1/4 x 5 1/8	103
1 5/8	41.00	37.00	8 x 5 1/2	131
1 7/8	92.00	59.00	9 x 6 1/4	216

Swing Links

DROP FORGED STEEL WITH INTERLOCKING LUGS



Fig. 784

Size Inches	Galvanized Per Dozen	Self Colored Per Dozen	Outside Dimensions Inches	Wt. Per Dozen in Lbs.
1/4	\$ 2.40	\$ 2.20	7/8 x 1 1/8	3/4
5/16	2.90	2.40	1 1/8 x 2 1/8	1 1/2
3/8	3.40	2.70	1 1/4 x 2 1/2	2 1/4
7/16	4.60	3.50	1 1/2 x 2 1/2	3 1/4
1/2	5.75	4.30	1 3/8 x 3 1/8	5 1/4
5/8	9.00	7.50	1 1/2 x 3 1/2	7 3/4
3/4	9.75	8.00	2 1/8 x 4 1/8	11
7/8	13.00	11.00	2 3/8 x 4 3/8	19 1/4
1	20.50	17.00	2 3/4 x 5 3/4	30 1/2
1 1/8	24.50	20.50	3 1/4 x 6 1/4	43 1/2

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
1/8	\$.40	1 x 1/2	3/8	\$1.35	1 1/8 x 1 1/8
1/4	.47	1 1/2 x 1/2	7/16	1.85	2 x 7/8
5/16	.94	1 1/2 x 7/8	1/2	2.10	2 x 1

Brass Stove Bolts

ROUND HEAD AND FLAT HEAD



Fig. 709



Fig. 1091

PER HUNDRED, WITH NUTS

Length Inches	Diameter Inches			
	3/16	1/4	5/16	3/8
1 1/2	\$3.15	\$ 5.45	\$ 9.70	\$13.50
2	3.80	6.35	11.10	15.50
2 1/2	4.50	7.25	12.75	17.75
3	5.25	8.20	14.45	20.60
3 1/2		9.25	16.30	23.45
4		10.30	18.15	26.50
5		12.40	21.70	32.35
6		14.40	25.15	38.15

Chromium Plated Wood Screws

BRASS—FLAT HEAD

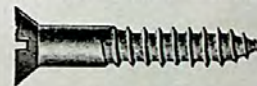


Fig. 1110

PER GROSS

No.	Length Inches					
	1/2	5/8	3/4	7/8	1	1 1/4
4	\$1.80					
5	1.90	\$2.00	\$2.10	\$2.30	\$2.40	
6	2.00	2.20	2.30	2.40	2.60	\$2.80
7	2.20	2.40	2.40	2.60	2.80	3.00
8	2.40	2.60	2.60	2.80	3.00	3.20
9			2.80	3.00	3.20	3.60
10			3.00	3.20	3.50	4.00
11					3.80	4.20
12					4.00	4.70
14						5.80

No.	Length Inches					
	1 1/2	1 3/4	2	2 1/2	3	3 1/2
6	\$3.00					
7	3.30					
8	3.60	\$4.40	\$4.80			
9	4.00	4.80	5.40			
10	4.40	5.20	5.80	\$7.20		
11	4.70	6.00	6.40	7.80		
12	5.20	6.60	7.00	8.60	\$9.60	\$11.40
14	6.20	8.20	8.80	10.20	11.40	13.20
16			10.60	12.60	14.00	16.00
18				14.60	16.80	19.00

Only the above sizes are carried in stock, all other sizes—price on application.

Flexible Wire Tiller Rope
GALVANIZED AND BRONZE



Fig. 760

Composed of 6 ropes and a hemp center. Each rope has 6 strands of 7 wires each and a cotton center.

Diam. Inches	Galvanized Price Per Foot	Bronze Price Per Foot
1/8	\$.04	\$.06
3/8	.12	.15
1/4	.13	.17
5/8	.14	.20
3/4	.15	.28
1/2	.20	.40

Braided Tiller Rope
WITH BRONZE CENTER



Fig. 761

Diam. Inches	Price Per Foot
3/8	\$.05
1/4	.06
5/8	.08
3/4	.11

All above rigging and tiller rope can be furnished in 250 and 500 foot reels.

Assorted Sheaves

GALVANIZED IRON AND BRONZE
COMMON BUSHED—FOR MANILA ROPE

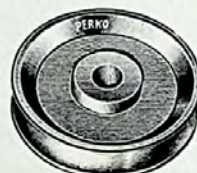


Fig. 154

GALVANIZED

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	Size Pin Inches
1	\$.12	3/4	1/8	1/8	1/8
2	.15	1	3/8	1/4	1/8
3	.18	1 1/4	3/8	1/8	1/8
4	.20	1 1/2	1/2	3/8	1/4
5	.25	1 3/4	1/8	1/8	1/4
6	.30	2	5/8	1/2	1/4
7	.35	2 1/2	3/4	5/8	1/8
8	.40	3	7/8	3/4	1/8

BRONZE

9	.25	1 1/8	1/8	1/4	3/8
10	.30	3/4	3/8	1/4	1/8
11	.35	3/4	1/8	1/8	1/4
12	.40	7/8	1/8	3/8	1/8
13	.45	1	1/8	3/8	1/4
14	.50	1 1/8	1/8	1/8	1/4
15	.50	1 1/8	3/8	1/2	3/8
16	.55	1 1/4	1/8	1/8	3/8
17	.60	1 3/8	1/2	3/8	1/8
18	.65	1 3/4	1 1/8	1/8	1/4
19	.70	1 7/8	5/8	1/8	3/8
20	.75	2 1/4	1/2	3/8	3/8
21	3.50	6	7/8	5/8	3/4

Tiller Rope Clamps

GALVANIZED IRON AND CAST BRONZE



Fig. 358

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Weight Ounces
1/8	\$.12	\$.17	3/4	1 5/8	1 3/4
3/8	.15	.20	3/4	1 3/4	2
1/4	.20	.25	1	1 3/4	3
5/8	.25	.35	1	2	3 1/2
3/8	.30	.50	1 1/8	2 1/4	5

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 3/8 x 1 1/8	3/4 or 1/2	\$.30	\$.60	3/4
2 x 1 1/8	3/4 or 1/2	.30	.65	1/2
2 1/2 x 3/8	3/4 or 1/2	.35	.70	1/2
2 3/4 x 1 1/8	3/4 or 1/2	.35	.70	1/2
3 x 1 1/8	1/2 or 3/8	.45	.90	3/8
3 x 1 1/4	1/2 or 3/8	.45	1.00	3/4
3 1/4 x 1 1/2	1/2 or 3/8	.50	1.00	3/4
4 x 1 1/2	3/8 or 1/2	.60	1.40	3/8
4 x 5/8	3/8 or 1/2	.75	1.50	3/8
4 1/2 x 1 1/8	1/2 or 3/8	.75	1.50	1/2
4 1/2 x 3/4	1/2 or 3/8	.80	1.75	1/2
5 x 3/8	1/2 or 3/8	1.25	2.75	1/2
5 x 1	3/8 or 1/2	1.40	4.00	3/8
6 x 1 1/4	1/2 or 3/8	1.60	4.00	1/2
6 x 1	5/8 or 3/4	2.00	4.50	5/8

Manila Rope Sheaves

GALVANIZED—COMMON BUSHED



Fig. 807

No.	Galv. Each	Size Sheave Inches	Size Block Inches
1	\$.13	1 3/4 x 1 1/2 x 3/8	3
2	.14	2 x 1 1/2 x 3/8	3 1/2
3	.16	2 1/4 x 1 1/2 x 3/8	4
4	.20	2 1/2 x 1 1/2 x 3/8	4 1/2
5	.30	3 x 1 1/2 x 3/8	5
6	.35	3 1/2 x 1 1/2 x 1/2	6
7	.45	4 1/4 x 1 1/2 x 1/2	7
8	.55	4 3/4 x 1 1/2 x 3/8	8
9	.65	5 1/2 x 1 1/2 x 3/8	9
10	.80	6 1/4 x 1 1/2 x 5/8	10

Tiller Rope Pulley

SWIVEL EYE AND STRAP
CAST BRONZE—PLAIN



Fig. 585

Plain Bronze Each	For Rope Diam. Inches	Length Overall Inches	Diam. Wheel Inches	Length Strap Inches	Weight Ounces
\$1.15	$\frac{1}{8}$	3 $\frac{1}{2}$	1 $\frac{3}{4}$	2	6

Tiller Rope Pulley
WITH STRAP—CAST BRONZE



Fig. 579

For Rope Diam. Inches	Length Pulley Inches	Size Wheel Inches	Length Strap Inches
$\frac{1}{8}$	1 $\frac{3}{4}$	1x $\frac{1}{2}$	2

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each
\$.90	\$1.25	\$1.75

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.
$\frac{1}{8}$	$\frac{3}{4}$ x 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.	For Diam. Rope Inches	Diameter Base Inches
1	$\frac{1}{4}$	1 $\frac{1}{8}$
2	$\frac{1}{8}$	1 $\frac{1}{4}$
3	$\frac{3}{8}$	1 $\frac{3}{4}$

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 $\frac{1}{2}$ x $\frac{3}{4}$	\$.14	\$.25	\$.35	\$.70
$\frac{1}{2}$	1 $\frac{3}{4}$ x 1 $\frac{1}{8}$	.16	.30	.40	.75
$\frac{5}{8}$	1 $\frac{7}{8}$ x 1 $\frac{1}{4}$	.18	.35	.45	.85

Tiller Rope Guides

UPRIGHT PATTERN—CAST BRONZE



Fig. 593

Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	For Rope Diam. Inches	Size Base Inches	Weight Ounces
\$.65	\$.95	\$1.20	$\frac{1}{8}$	$\frac{7}{8}$ x 1 $\frac{1}{2}$	2

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
1	$\frac{3}{8}$	$\frac{3}{4}$ x 1 $\frac{1}{2}$	\$.08	\$.14	\$.25	\$.70
2	$\frac{1}{2}$	1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	.10	.16	.30	.75
3	$\frac{5}{8}$	1 $\frac{1}{4}$ x 1 $\frac{1}{2}$	.12	.18	.35	.85

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	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{3}{8}$
3	.18	.30	.55	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{2}$
5	.28	.45	.75	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{1}{4}$
7	.35	.55	.90	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
9	.50			$\frac{1}{2}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{1}{2}$
11	.70			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$\frac{5}{8}$
13	1.00			$\frac{5}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$1\frac{1}{8}$
15	1.50			$\frac{3}{4}$	$3 \times \frac{3}{8}$	$1\frac{1}{2}$

Loose Hook Blocks

GALVANIZED MALLEABLE IRON BODY
FORGED STEEL HOOKS
SINGLE

Without Becket



Fig. 52

With Becket



Fig. 56

Size No.	Galvanized Each	Length of Shell Inches	For Rope Diam. Inches	Weight Each Pounds
1	\$.65	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$
3	.70	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{4}$
5	.80	2	$\frac{1}{2}$	$\frac{1}{2}$
7	.90	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$
9	1.15	3	$\frac{1}{2}$	$\frac{3}{8}$
11	1.50	$3\frac{1}{4}$	$\frac{1}{2}$	1
13	2.00	4	$\frac{3}{8}$	$2\frac{1}{4}$
15	2.75	$4\frac{3}{8}$	$\frac{3}{4}$	$2\frac{1}{2}$

Fast Eye Blocks

GALVANIZED MALLEABLE IRON
DOUBLE

Without Becket



Fig. 51

With Becket



Fig. 55

Size No.	Galv. Each	Plain Bronze Each	Pol. Bronze Each	For Rope Diam. Inches	Size Sheave Inches	Weight Each Pounds
2	\$.20	\$.45	\$.65	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{8}$	$\frac{1}{4}$
4	.30	.60	.90	$\frac{1}{4}$	$1 \times \frac{3}{8}$	$\frac{1}{2}$
6	.45	.80	1.20	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{1}{2}$	$\frac{3}{8}$
8	.55	1.00	1.50	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$	$\frac{3}{8}$
10	.80			$\frac{1}{2}$	$1\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4}$
12	1.05			$\frac{1}{2}$	$2 \times \frac{3}{8}$	$1\frac{1}{4}$
14	1.65			$\frac{3}{8}$	$2\frac{1}{2} \times \frac{3}{4}$	$2\frac{1}{8}$
16	2.50			$\frac{3}{4}$	$3 \times \frac{3}{8}$	$2\frac{3}{4}$

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	$1\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{4}$
4	.85	$1\frac{3}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
6	1.00	2	$\frac{1}{2}$	$\frac{1}{2}$
8	1.10	$2\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$
10	1.45	3	$\frac{1}{2}$	1
12	1.85	$3\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{2}$
14	2.65	4	$\frac{3}{8}$	$2\frac{1}{2}$
16	3.75	$4\frac{3}{8}$	$\frac{3}{4}$	$3\frac{3}{4}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Single



Fig. 100

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Dos. in Lbs.
0	$\frac{3}{8}$	1	$\frac{1}{2}$	$\frac{1}{2}$
1	$\frac{7}{16}$	1 $\frac{1}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$
3	$\frac{1}{4}$	1 $\frac{3}{4}$	1	2
5	$\frac{5}{16}$	2	1 $\frac{1}{4}$	2 $\frac{7}{8}$
7	$\frac{3}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	4 $\frac{7}{8}$

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

Heavy Steering Rope Pulleys

CAST BRONZE—PLAIN FOR WIRE ROPE

The sturdy construction answers the demand for a larger and stronger tiller rope pulley. The sheave pin is $\frac{3}{4}$ inch diameter bronze rod.

SIDE PATTERN



Fig. 962

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Length of Plate Inches
\$8.75	$\frac{3}{8}$	6	9

UPRIGHT PATTERN

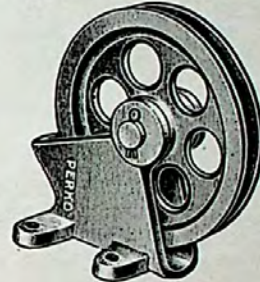


Fig. 963

Plain Bronze Each	For Wire Rope Diameter Inches	Diameter Sheave Inches	Height Overall Inches
\$8.75	$\frac{3}{8}$	6	7 $\frac{1}{2}$

Swivel Eye Blocks

GALVANIZED MALLEABLE IRON AND BRONZE

Double



Fig. 101

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Dos. in Lbs.
00	$\frac{1}{8}$	1	$\frac{1}{2}$	1 $\frac{1}{4}$
2	$\frac{3}{16}$	1 $\frac{1}{4}$	$\frac{3}{4}$	2 $\frac{1}{4}$
4	$\frac{1}{4}$	1 $\frac{3}{4}$	1	3 $\frac{3}{8}$
6	$\frac{5}{16}$	2	1 $\frac{1}{4}$	4 $\frac{1}{2}$
8	$\frac{3}{8}$	2 $\frac{1}{4}$	1 $\frac{1}{2}$	7

Size No.	Galvanized Iron Each	Plain Bronze Each	Polished Bronze Each
00	\$.20	\$.55	\$.75
2	.25	.60	.80
4	.35	.80	1.10
6	.50	1.65	1.90
8	.70	.....	.....

Side Pulleys

GALVANIZED CAST IRON AND BRONZE



Fig. 97

Size No.	Galv. Each	Pol. Bronze Each	Size Base Inches	Diam. Rope Inches	Weight Per Dos. in Lbs.
1	\$.25	\$.60	$\frac{3}{4}$ x 2 $\frac{1}{8}$	$\frac{1}{4}$	1 $\frac{3}{8}$
2	.35	.70	$\frac{7}{8}$ x 2 $\frac{1}{4}$	$\frac{3}{8}$	2
3	.45	.90	1 x 3 $\frac{3}{8}$	$\frac{1}{2}$	3 $\frac{1}{4}$

Blocks on Plates

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 107

Size No.	Galv. Each	Plain Brass Each	Pol. Brass Each	For Rope Diam. Inches	Style Block	Weight Per 100 in Lbs.
3	\$.55	\$1.20	\$1.75	$\frac{1}{4}$	Swivel Eye	20
5	.65	1.40	2.00	$\frac{3}{8}$	Swivel Eye	35
7	1.00	1.60	2.35	$\frac{1}{2}$	Swivel Eye	66
9	1.10	.....	.....	$\frac{3}{4}$	Fast Eye	72

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE
SINGLE



Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	Pol. Bronze Each	For Diam. Rope Inches	Size Sheave Inches
0	\$.30	\$.20	\$.60	\$.90	$\frac{1}{8}$	1 $\frac{1}{4}$ 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	$\frac{3}{8}$	2 $\frac{1}{2}$ x $\frac{3}{4}$
7	1.90	1.50	3.25	4.00	$\frac{3}{4}$	3 x $\frac{1}{2}$

Deck Blocks

OPEN PATTERN
GALVANIZED IRON AND BRONZE
DOUBLE

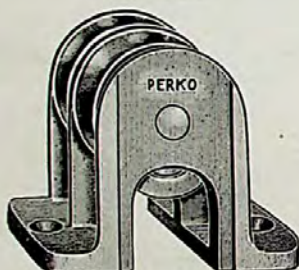


Fig. 88

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 $\frac{3}{8}$
8	3.00	2.50			$\frac{3}{4}$	3 x $\frac{1}{2}$

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	1.90	2.65	$\frac{3}{8}$	2 $\frac{1}{2}$ x $\frac{3}{4}$
5	2.00			$\frac{3}{4}$	3 x $\frac{1}{2}$
6	3.50			$\frac{3}{4}$	3 $\frac{1}{2}$ x 1

Bell Chain Leaders

CAST BRONZE—PLAIN



Upright Type—Fig. 912



Flat Type—Fig. 913

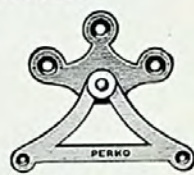
Diam. Sheave Inches	Width of Groove Inches	Single Sheave Each	Double Sheave Each	Triple Sheave Each	Quadruple Sheave Each
2	$\frac{1}{8}$	\$ 1.10	\$ 1.65	\$ 2.75	\$ 3.85
3 $\frac{1}{2}$	$\frac{1}{4}$	1.90	2.50	3.85	5.50

Bell Cranks

CAST BRONZE—PLAIN



Upright Type—Fig. 910



Side Type—Fig. 911

No.	Upright Type Each	Side Type Each	Length of Crank Inches
1	\$.70	\$.60	3
2	.90	.70	3 $\frac{1}{4}$
3	1.30	.85	3 $\frac{3}{4}$

Brass Telegraph or Bell Chain

Links are stamped from heavy gauge brass, fastened together by brass rivets, which are finished flush with side of link. Furnished in any continuous length desired, complete with end links both ends.

Made to comply with U. S. Navy Specifications.



Fig. 275

Price Per Foot	Length of Links Inches	Thickness Overall Inches	Pitch Inches	Weight per Foot Ounces
\$.65	$\frac{3}{4}$	$\frac{1}{16}$	$\frac{3}{8}$	3 $\frac{1}{2}$

Cheek Blocks

GALVANIZED MALLEABLE IRON AND BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches
11	\$.75	\$ 1.20	\$ 1.60	$\frac{1}{8}$	1 $\frac{3}{8}$ 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 $\frac{3}{8}$

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	1/4 - 1/8	1 7/8 x 1 1/8	3/8
2	1.10	2.25	3.00	3/8	3 x 2 1/8	1 3/8
3	2.00	4.00	5.25	1/2	4 x 3/8	2 3/4
3 1/2	3.00			5/8	4 1/2 x 3/4	4 1/4
4	3.50			3/4	5 x 7/8	5 1/4
5	5.25			7/8	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	1/8	2 1/2 x 3/8	1/2
2	1.00	2.00	1/4	3 1/4 x 1/2	1 1/4
3	2.00	3.00	1/2 - 3/8	4 1/2 x 1 1/8	2 3/8

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

SINGLE—UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
10	\$.70	\$1.50	1/8	2 1/2 x 3/8	5/8
20	1.00	2.00	1/4	3 1/4 x 1/2	1 1/2
30	2.00	3.00	1/2 - 3/8	4 1/2 x 1 1/8	2 1/2

Cheek Blocks

FOR WIRE ROPE

GALVANIZED CAST IRON AND BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
1	\$.60	\$1.25	\$2.00	1/4 - 1/8	1 7/8 x 1 1/8	3/8
2	.95	2.25	3.00	3/8	3 x 1 1/8	1 3/8
3	1.75	4.00	5.25	1/2	4 x 3/8	2 3/4
3 1/2	2.25			5/8	4 1/2 x 3/4	4 1/4
4	2.75			3/4	5 x 7/8	5 1/4
5	4.75			7/8	6 x 1	11

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE—SIDE PATTERN



Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
11	\$1.15	\$2.25	1/8	2 1/2 x 3/8	1 1/8
12	1.75	3.00	1/4	3 1/4 x 1/2	2
13	3.25	4.25	1/2 - 3/8	4 1/2 x 1 1/8	4 1/4

Wire Rope Pulleys

GALVANIZED MALLEABLE IRON AND BRONZE

DOUBLE—UPRIGHT PATTERN

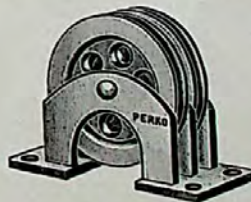


Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Each Pounds
110	\$1.15	\$2.25	1/8	2 1/2 x 3/8	1 1/8
120	1.75	3.00	1/4	3 1/4 x 1/2	2
130	3.25	4.25	1/2 - 3/8	4 1/2 x 1 1/8	4 1/4

Polished Bronze Yacht Blocks

DROP FORGED BRONZE SHELL AND SHEAVE
PLAIN OR ROLLER BUSHED

Made of high grade 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.



Without Becket



With Becket

Size No.	Length Shell Inches	Width Shell Inches	Size of Sheave Inches	For Rope Diam. Inches
0	2 1/8	1 1/4	1 1/8 x 7/16	7/16
1	2 3/8	1 1/2	1 3/8 x 1/2	3/8
2	3 1/8	2	1 7/8 x 5/8	1/2

Front Shackle Block

Side 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



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

Upset Side 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



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

Open Snatch 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.



Fig. 856

No.	SINGLE ONLY	
	Plain Bushed Each	Roller Bushed Each
0	\$1.65	\$2.15
1	2.00	2.65
2	3.00	3.65

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		Length Strap Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$1.50	\$2.00		2
1	1.75	2.40		2 1/4
2	2.50	3.15		2 3/4

		DOUBLE		Length Strap Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$2.40	\$3.40		2
1	3.15	4.35		2 1/4
2	4.50	5.75		2 3/4

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		Length Strap Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$1.85	\$2.35		1 1/2
1	2.25	2.90		2
2	3.25	3.90		2 1/2

		DOUBLE		Length Strap Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$2.80	\$3.80		1 1/2
1	3.65	4.85		2
2	5.25	6.50		2 1/2

Main Sheet Bridle Block

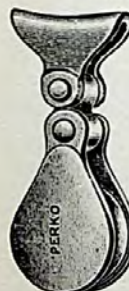


Fig. 859

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		Length Strap Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$1.75	\$2.25		2 3/8
1	2.10	2.75		3
2	3.00	3.65		3 1/2

		DOUBLE		Length Strap Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$2.65	\$3.65		2 3/8
1	3.50	4.70		3
2	5.00	6.25		3 1/2

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

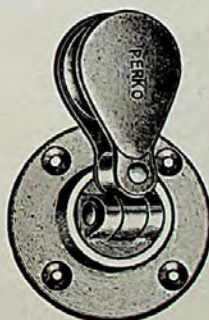


Fig. 864

		SINGLE		Diam. Plate Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$2.75	\$3.25		2 1/4
1	3.25	3.90		2 3/4
2	4.25	4.90		3 1/4

		DOUBLE		Diam. Plate Inches
No.	Plain Bushed Each	Roller Bushed Each		
0	\$3.65	\$4.65		2 1/4
1	4.65	5.85		2 3/4
2	6.25	7.50		3 1/4

DEDUCT 10% FOR PLAIN FINISH
 CHROMIUM PLATED Yacht Blocks—Price on Application
 SIZES AND OTHER INFORMATION ON PAGE 170

BRONZE YACHT BLOCKS AND FITTINGS

Lightweight Main Sheet Blocks
BRONZE



Fig. 432

Lightweight combined with ample strength and low price.

No.	Plain Each	Polished Each	For Rope Diam. Inches	Size Sheave Inches	Weight Ounces
0	\$1.00	\$1.50	$\frac{1}{8}$	$1\frac{1}{8} \times \frac{1}{4}$	$3\frac{1}{2}$
1	1.15	1.65	$\frac{3}{8}$	$1\frac{3}{8} \times \frac{1}{2}$	4

With becket, add \$.25 each.

Bullet Blocks

FOR JIB SHEETS AND LEADERS
SINGLE ONLY



Fig. 869

No.	For Rope Diam. Inches	Size Sheave Inches	Polished Bronze Each
0	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{4}$	\$.65
1	$\frac{3}{8}$	$\frac{1}{2} \times \frac{1}{2}$	.80
2	$\frac{1}{2}$	$1\frac{1}{8} \times \frac{3}{8}$	1.00
3	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{3}{8}$	1.25

Deduct 10% for Plain Finish.

Cheek Block

POLISHED



Fig. 866

SINGLE		DOUBLE		Size Base Inches
No.	Plain Bushed Each	No.	Plain Bushed Each	
0	\$1.50	0	\$2.40	$2\frac{1}{2} \times 1\frac{1}{4}$
1	1.75	1	3.15	$2\frac{7}{8} \times 1\frac{1}{2}$
2	2.50	2	4.50	$3\frac{3}{8} \times 2$

Deduct 10% for Plain Finish.

Jib Halyard Blocks on Strap

CAST BRONZE



Fig. 899

No.	For Rope Diam. Inches	Size Sheave Inches	Length Strap Inches	Weight Ounces
0	$\frac{1}{8}$	$\frac{3}{4} \times \frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{2}$
1	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2}$	4

No.	Plain Bronze Each	Polished Bronze Each
0	\$.75	\$1.15
1	.90	1.30

Improved Centerboard Block

POLISHED



Fig. 867

SINGLE ONLY

No.	Plain Bushed Each	Size Base Inches
0	\$1.50	$1\frac{3}{4} \times 1\frac{1}{4}$
1	1.75	$2 \times 1\frac{1}{2}$
2	2.50	$2\frac{3}{8} \times 2$

Deduct 10% for Plain Finish.



Fig. 870

FOR JIB SHEETS

No.	For Rope Diam. Inches	Lgth. Snap Shackle Inches	Polished Bronze Per Set
0	$\frac{1}{8}$	$2\frac{3}{8}$	\$3.75
1	$\frac{3}{8}$	$3\frac{1}{4}$	4.50

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	$\frac{3}{8}$	$1\frac{1}{2} \times \frac{1}{2}$
2	1.50	2.50	3.00	$\frac{1}{2}$	$2 \times \frac{3}{8}$

Open Lead Blocks

FOR GENOA JIB SHEETS



Fig. 868

No.	For Rope Diam. Inches	Size Sheave Inches	Size Base Inches	Polished Bronze Each
1	$\frac{3}{8}$	$\frac{7}{8} \times \frac{1}{2}$	$2\frac{1}{2} \times 1$	\$2.00
2	$\frac{1}{2}$	$1\frac{1}{4} \times \frac{5}{8}$	$4 \times 1\frac{3}{8}$	3.00

Deduct 10% for Plain Finish.

All above items furnished CHROMIUM PLATED if desired — Price on Application

BRONZE YACHT FITTINGS

Swivel Eye Bullet Blocks

CAST BRONZE



Fig. 934

For jib sheets or halyards on small sail boats.

Plain Each	Polished Each	Length Shell Inches	Size Sheave Inches	For Diam. Rope Inches	Weight Ounces
\$.80	\$1.25	1 3/8	3/4 x 3/8	1/8	2 1/2

Swivel Eye Block on Plate

CAST BRONZE



Fig. 935

This is our swivel eye bullet block mounted on cast bronze plate for deck leads.

Plain Each	Polished Each	Length Plate Inches	Width Plate Inches	Weight Complete Ounces
\$1.15	\$1.90	2 1/4	3/4	3 1/2

Swivel Eye Block on Slide

CAST BRONZE

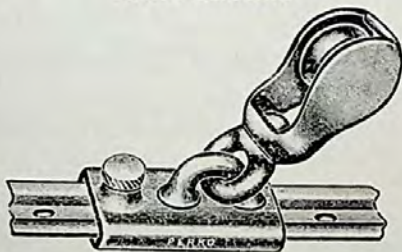


Fig. 936

Our swivel eye bullet block mounted on cast bronze slide for quick and easy adjustment of jib sheet lead. Slide has large head thumb screw for fastening in position with fingers.

Furnished complete with 24 inches of 5/8 inch nickel silver track.

Plain Each	Polished Each	Length Slide Inches	Width Slide Inches	Weight Complete Ounces
\$2.00	\$2.75	1 3/4	1	7 1/2

Fast Eye Snap Shackle

MANGANESE BRONZE—PLAIN

For Balloon Jib, Spinnaker, Halyards and Sheets.



Fig. 873

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$1.15	1/4	2 1/8	3/8
1	1.40	5/8-3/8	2 3/8	3/4
2	2.00	1 1/8-1/2	3 1/8	3/4

No.	Approx. Strength Pounds	Recommended Working Load Pounds
0	800	550
1	1500	1000
2	2500	1650

Swivel Eye Snap Shackle

MANGANESE BRONZE—PLAIN

For Balloon Jib, Spinnaker, Halyards and Sheets.



Fig. 874

No.	Price Each	For Rope Diam. Inches	Lgth. Over-all Inches	Width Opening Inches
0	\$1.75	1/4	2 3/8	3/8
1	2.15	5/8-3/8	3 3/4	3/4
2	2.75	1 1/8-1/2	4 1/2	3/8

No.	Approx. Strength Pounds	Recommended Working Load Pounds
0	800	550
1	1500	1000
2	2500	1650

Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.

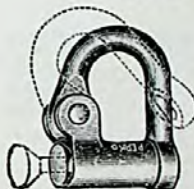


Fig. 875

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.25	2	3/4
2	1.55	2 1/2	7/8

Improved Headboard Snap Shackle

MANGANESE BRONZE—PLAIN

For attaching Main Halyards to Headboard.



Fig. 876

No.	Price Each	Length Overall Inches	Width Opening Inches
1	\$1.50	2 1/4	3/4
2	2.00	3	7/8

Self Locking Bridles

MANGANESE BRONZE—PLAIN

FOR PEAK HALYARD BLOCKS



Fig. 877

No.	Price Each	For Size Wire Inches	Size Opening For Block Inches
1	\$1.50	1/4	3/8
2	1.75	5/8	1/2
3	2.10	1 1/8	5/8

All above items furnished CHROMIUM PLATED if desired—Price on Application

Automatic Jam Cleats

CAST BRONZE—POLISHED

OPEN EYE

An exceptionally strong and positive grip, can be operated at some distance from cleat, a jerk on the rope releases it.

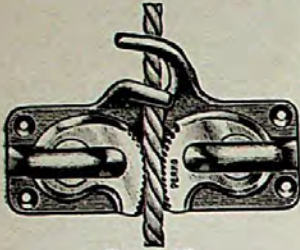


Fig. 895

No.	For Rope Inches	Size Base Inches	Polished Bronze Each
1	1/4 - 3/8	3 1/2 x 1 1/2	\$2.50
2	3/8 - 1/2	5 1/8 x 1 3/4	4.50

Single Flare Lip Leaders

CAST BRONZE



Fig. 764

No.	Plain Each	Polished Each	Small Opening Inches
1	\$.15	\$.30	1/2
2	.20	.50	3/8

Automatic Jam Cleats

CAST BRONZE—POLISHED

CLOSED EYE

Same cleat as Fig. 895 above except the eye which is closed for use with jib sheets, etc.



Fig. 1093

No.	For Rope Inches	Size Base Inches	Polished Bronze Each
4	1/4 - 1/2	5 1/8 x 1 3/4	\$4.50

Double Flare Lip Leaders

CAST BRONZE



Fig. 889

No.	Plain Each	Polished Each	Opening Inches
0	\$.20	\$.45	3/8
1	.25	.55	1/2
2	.30	.65	5/8

Racing Jam Cleats

CAST BRONZE



Fig. 762

Length Inches	For Size Rope Inches	Polished Bronze Each
3 1/2	1/4	\$2.15
4	3/8	2.50
6	1/2	3.25

Masthead Trucks

LIGNUMVITAE



Fig. 891

Diam. Inches	Two Holes Each	One Sheave Each	Two Sheaves Each
2	\$1.00	\$.70	\$1.00
2 1/2	1.10	.85	1.10
3	1.50	1.10	1.50
3 1/2	1.80	1.40	1.80
4	2.15	1.65	2.15
4 1/2	2.50	2.00	2.50
5	3.20	2.35	3.20
5 1/2	3.70	2.75	3.70
6	4.00	3.50	4.00

Double Jam Cleats

CAST BRONZE—POLISHED



Fig. 1030

No.	Price Each	Length Inches	Width Inches
1	\$.75	4	1/2
2	1.00	5	3/8

Roller Jam Cleats

CAST BRONZE



Fig. 894

Masthead Sheaves

FOR MANILA ROPE
CAST BRONZE—PLAIN BEARING



Fig. 892

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	Diam. Inches	Price Each	For Diam. Rope Inches	Thickness Inches	Bearing Inches
1	\$1.50	1/8 to 1/4	4	1 3/4	.50	1/4	3/8	1/8
2	1.75	1/4 to 3/8	5 1/4	2	.65	3/8	1/2	1/8

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	17½	½	1¾x1¾	¾
2	5.50	21½	¾	1¾x1¾	1
3	6.50	28	¾	1¾x1¾	1¼

Head and Jibstay Fittings

CAST BRONZE—PLAIN



Fig. 1032

For allowing various adjustments of head and jibstays, has an angular hole for lag screw in forward end for fastening to stem.

No.	Price Each	Length Inches	Width Inches	Number of Holes	Weight Each Ounces
1	\$2.00	5	1½	5	12
2	2.25	7¾	1¾	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	\$2.25	¾	3¾
2	4.50	¾	5½

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	¾	15
2	4.25	¾	13
3	6.50	¾	15

Spreader Fittings

CAST BRONZE—PLAIN



For Round Mast Fig. 27

For Flat Mast Fig. 28

Spreaders of any length desired can be made by installing necessary length of brass pipe between mast plate and jaw. Parts are threaded for ¼ inch pipe.

Set consists of 1 mast plate with hinged fitting and jaw.

Fig.	Per Set	Jaw Opening Inches	Length Plate Inches	Width Plate Inches	Weight Per Set Ounces
27	\$1.80	¼	1⅞	1⅞	8
28	1.80	¼	2	1¾	8

Stemhead Plate

CAST BRONZE—STREAMLINED



Fig. 343

A fitting designed for appearance as well as practicability.

Forward hole for painter, center hole for jib stay, rear hole for jib tack.

Angle is 70 degrees.

Length Straps Inches	Extreme Width Inches	Diam. Center Hole Inches	Diam. Forward Hole Inches	Weight Ounces
3⅝	1	1⅜	¾	8
Plain Bronze Each	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	
\$.90	\$1.40	\$1.75	\$2.10	

Clew Outhaul

CAST BRONZE—PLAIN

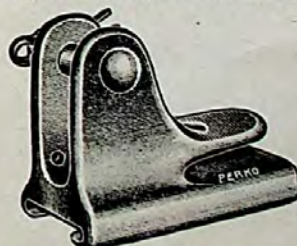


Fig. 1047

Designed for small sail boats. A good low priced light weight fitting.

Each	For Track Inches	Jaw Opening Inches	Length Inches	Height Inches	Weight Ounces
\$1.00	¾	¾	1¾	1½	3½

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 to 3½	1¾	\$6.00	\$7.00
2	4 to 4½	2¼	6.00	7.00

Bronze Goosenecks

WITH FLAT PLATE FOR SQUARE MASTS
MANGANESE BRONZE—PLAIN

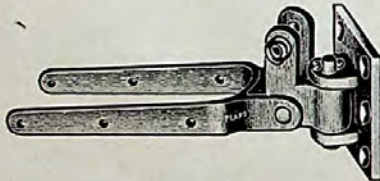


Fig. 1034

The trend in design for masts is changing from the old style round mast to the modern square, rectangular or T shaped mast, hence a gooseneck with a flat plate is necessary.

No.	Price Each	Width of Plate Inches	Length of Plate Inches	Diameter Boom end Inches
1	\$6.00	2	3	1¾
2	6.00	3	4	2¼

Gooseneck Bands

GALVANIZED DROP FORGED STEEL



Fig. 886

For Size Mast Inches	Each	Weight Each Pounds	For Size Mast Inches	Each	Weight Each Lbs.
2½	\$2.70	⅞	3½	\$2.90	1¾
3	2.70	⅞	4	3.50	1¾

Adjustable Gooseneck Bands
GALVANIZED DROP FORGED STEEL

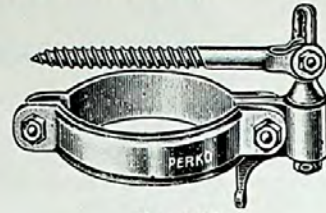


Fig. 885

Inside Diam. of Band Inches	Without Belaying Pin Holes Each	With Four Belaying Pin Holes Each	Diam. of Screw Inches
3	\$4.00	\$ 8.00	⅞
3½	4.00	8.75	⅞
4	5.00	9.80	½
4½	5.00	11.00	½

Larger sizes made to order.

Prices do not include belaying pins. Furnished without belaying pin holes unless otherwise specified.

Spinnaker Pole Fittings

CAST BRONZE—PLAIN



Fig. 587

The America's Cup Races proved the value of parachute spinnakers and resulted in an increasing demand for spinnaker pole fittings.

These are made of cast bronze and in two sizes for the largest variety of small boats.

No.	Complete Each	For Diam. Pole Inches	For Diam. Mast Inches	Length Hook Inches	Weight Pounds
1	\$3.00	1½	2½	5	
2	4.50	1½	4	6	1½

As the mast band is made of high grade bronze it can easily be bent for smaller or larger masts.

Jib Club Fittings

MANGANESE BRONZE—PLAIN



Fig. 887

Allows club to be easily removed from jib stay.

No.	For Diam. Club Inches	Price Each
1	1½	\$3.75
2	1¾	4.25
3	2	4.75

Sliding Gooseneck

NATIONAL ONE DESIGN CLASS
BRONZE

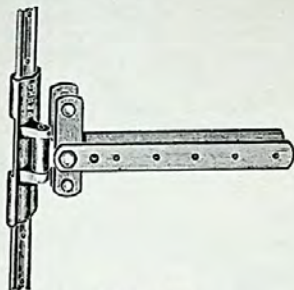


Fig. 452

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. This fitting is as light in weight as possible while retaining all necessary strength.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$2.50	3/4	6	5/8	3/4

Sliding Gooseneck
BRONZE

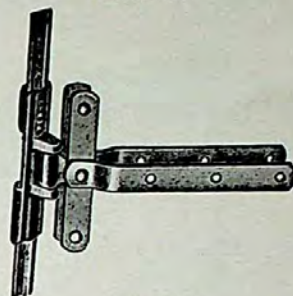


Fig. 592

Furnished without track.

Slide is cast bronze, boom straps are wrought brass. Straps can be adjusted for booms smaller than 2 inch diameter.

Plain Each	Width Between Straps Inches	Length Inside Straps Inches	For Mast Track Inches	Weight Each Pounds
\$3.25	1 3/4	6	3/8	1

Small Boat Gooseneck Bands

CAST BRONZE



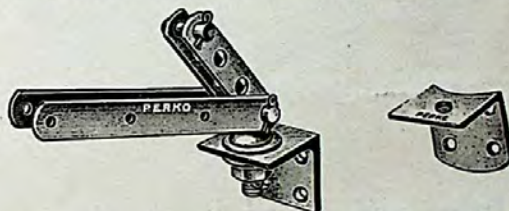
Fig. 658

A good strong fitting made of high grade bronze but low priced for the pocketbook of the small boat owner.

Plain Each	For Diam. Mast Inches	Length of Screw Inches	Diam. of Screw Inches	Weight Ounces
\$1.15	2 3/4	3 3/4	3/8	6

"Snipe" Boom Fittings

BRASS STRAPS—BRONZE MAST PLATE



With Plate for Square Mast Plate for Round Mast
Fig. 888

Plain Brass Each	Polished Brass Each	Width Plate Inches	For Boom Inches	Weight Each Pounds
\$2.75	\$3.50	2	1 to 1 1/2	1 1/2

When ordering, specify whether for square or round mast.

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 1/4
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

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 7/8 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

Wind Pennants

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

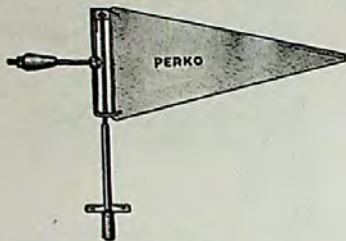


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from application of paint or attachments of any kind.

Perfect balance and needle point bearing makes this pennant instantly responsive to the lightest of winds.

FURNISHED IN PAINTED FINISH,
EITHER RED, BLUE OR WHITE

For Mast 1 Inch Diam. at Top, $\frac{1}{8}$ Hole

No.	Painted Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$2.00	6½ x 3	6½	2½
2	2.50	9½ x 4½	7¾	4
3	3.50	12 x 6	10	10
4	4.50	15 x 7½	11½	12

Improved Wind Pennants

ADJUSTABLE COUNTERBALANCE

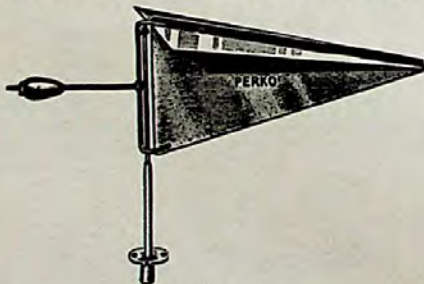


Fig. 837

This is the same as our popular Fig. 435 wind pennant improved by the addition of a horizontal vane attached to the regular vertical vane permitting a more distinct view when directly below the pennant. The horizontal vane is detachable if not required.

Furnished in plain or painted finish. Painted colors are red, blue or white.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$2.50	6½ x 3	6½	3
6	3.00	9½ x 4½	7¾	5
7	4.25	12 x 6	10	11½
8	5.25	15 x 7½	11½	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

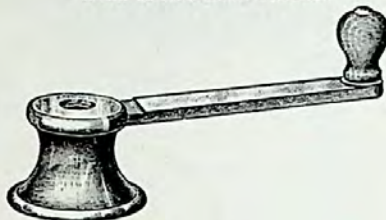


Fig. 800

Size No.	Each	Handles Only Each	For Diam. Rope Inches	Weight Each Pounds
1	\$11.50	\$2.50	¾	3
2	16.00	3.75	1½	6
3	22.00	5.00	¾	12

Size No.	Smallest Diam. Drum Inches	Height Inches	Diam. Base Inches	Radius Handle Inches
1	1¾	2¾	3½	7¾
2	2¼	3	4¼	10
3	3	4½	5¾	12½

BOTTOM ACTION TYPE
With Folding Handle—Not Removable

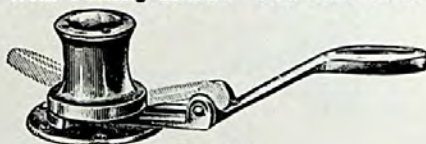


Fig. 802

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	1⅞	3¼	4	9½	¾
2	18.50	2¾	4	5	12	1 or 1½

Sheet Snubbing Winches

CAST BRONZE—POLISHED



No. 0



No. 1

Fig. 937

A one way action winch which greatly reduces the strain of hauling on sheets or halyards.

Action of head is clockwise only for hauling in. But same is carefully machined and highly polished to allow free running of sheet when let out.

No.	Polished Bronze Each	Chromium Plated Each	Height Inches	Diam. Drum Inches	Diam. Base Inches	Weight Pounds
0	\$4.00	\$5.50	2⅞	1	2⅞	1
1	5.00	7.00	2¾	1¼	3⅞	1¾

Sail Slides with Thimble

NICKEL SILVER SLIDE—BRASS THIMBLE

Our standard Fig. 98 Sail Slide with a brass sail thimble attached.



Fig. 1036

For width Of track Inches	Price Each Complete	Diam. of Thimble Inches	Score of Thimble Inches
3/8	\$.15	1/2	1/4
1/2	.20	3/8	1/4

Halyard Fairleaders

POLISHED BRONZE



Fig. 580

Designed for main halyards on small boats this fitting has many other uses. Will not chafe rope.

Polished Each	Length Inches	Width Inches	For Diam. Rope Inches	Weight Ounces
\$.40	2 1/4	3/4	3/8	2 1/2

New Backstay Fittings

CAST BRONZE—POLISHED

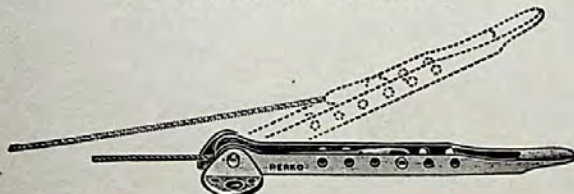


Fig. 1098

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.

Plain Per Set	Polished Per Set	Length Inches	Base Inches	For Rigging Inches	Weight Pounds
\$6.50	\$7.50	12 1/4	3 1/4 x 2	up to 1/4	1 1/2

Mast Track and Slides

NICKEL SILVER

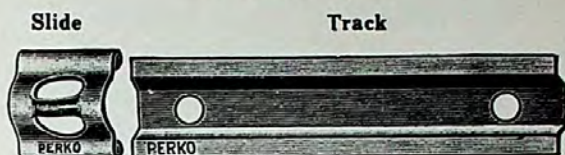


Fig. 98

Fig. 99

Width Track Inches	Nickel Silver Slides Each	Nickel Silver Track Per Foot
3/8	\$.07	\$.16
1/2	.10	.20

"Perko" slides will fit any make of track of corresponding design and size.

Nickel silver lengths of track are 8, 10 and 12 feet. All orders will be filled with lengths available to make up total number of feet ordered.

The Ohman Track Gate

CAST BRONZE WITH NICKEL SILVER TRACK

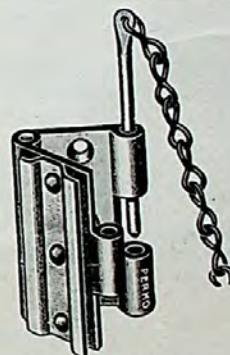


Fig. 1111

For setting a storm trysail or any other loose footed sail to track without removing main sail slides, will not foul mainsail.

Consists of a short length of nickel silver track riveted to a cast bronze hinge with fast pin in hinged side and removable pin in the other. Track is either 3/8 or 1/2 inch wide.

Very easily installed, simply cut away required length of track batten and fasten directly to mast so that track ends line up perfectly.

To set or remove trysail slides, lower main sail slides below hinge, remove pin, swing back hinge and track is open.

Each	Length Inches	Width Inches	Thickness Closed Inches	Weight Ounces
\$2.00	2 1/2	1 1/2	3/8	7

Give size of track when ordering.

Improved 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		Jaw Opening Inches	Suitable Airplane Wire Rope Inches
			Closed	Opened		
1/4	\$1.75	\$2.25	7 1/8	10 3/8	Both 1/4	1/8
1/8	2.00	3.00	7 7/8	11 3/8	Both 1/8	1/8
3/8	2.95	3.95	9	12 3/4	Both 3/8	1/8
1/2	3.50	4.50	10	14 1/4	Both 1/2	1/4
1/2	4.00	5.00	11 1/2	16 1/2	Both 1/2	3/8

With check nuts, see additions on Fig. 459.

Size Inches	Approx. Strength Pounds	Recommended Working Load Pounds
1/8	4200	1500
3/8	6200	2200
1/2	8000	2800
1/2	11000	3850

Bronze Rigging Turnbuckles

DROP FORGED—WELDLESS
S. A. E. THREADS



Fig. 459

These are drop forged from special high strength solid bronze bars giving unusual strength as shown in table below.

Size Inches	Plain Each	Polished Each	With Check Nuts Add Each	For Diam. Wire Rope Inches	Weight Each Pounds	Diam. Pins in Jaws Inches	Length from Center to Center of Pins in Jaws Inches		Width Jaw Opening Inches	
							Extended	Closed	Narrow Jaw	Wide Jaw
1/4	\$1.75	\$2.25	\$.15	1/8	3/8	1/8	8	5 3/4	1/4	1/4
3/8	2.00	3.00	.15	3/8	1/2	1/8	10 3/8	7 1/4	1/4	1/4
1/2	2.95	3.95	.20	1/2	3/4	1/8	12 1/4	8 1/2	5/8	3/8
3/4	3.50	4.50	.25	3/4	1	1/8	13 1/2	9 1/2	3/4	3/8
1/2	4.00	5.00	.30	1/2	1 1/2	1/8	14 1/2	10 1/4	1/2	1/8
3/8	5.85	7.25	.35	3/8	2 3/8	3/8	17	12	1/2	1/8

Large sizes can be furnished with wide and narrow jaws. Two wide jaws furnished unless otherwise specified.

Everdur Rigging Turnbuckle

ALL EVERDUR BRONZE

S. A. E. THREADS—HEXAGON MIDDLE
LIGHTWEIGHT—GREAT STRENGTH



Fig. 917

We believe this to be the strongest bronze turnbuckle of its size manufactured.

The use of Everdur bronze enabled us to produce a very strong lightweight turnbuckle for small boats. Weight 5 ounces. Tensile tests show a breaking strain of 5,000 pounds.

Size Thread Inches	Plain Each	Polished Each	Length Pin to Pin		Jaw Opening Inches
			Open Inches	Closed Inches	
1/8	\$1.30	\$1.60	9 1/2	6	1/4

With check nuts, add \$.15 for each turnbuckle.

Toggles for Turnbuckles

MANGANESE BRONZE—POLISHED



Fig. 1033

No.	Price Each	For turnbuckle Inches	Width Between jaws Inches	
			1/4	3/8
1	\$.55	1/4	1/8	1/4
2	.65	1/8	3/8	1/4
3	.75	3/8	3/8	1/4
4	.85	1/2	1/2	1/4
5	1.00	1/2	1/2	1/4

No.	Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
10	.60	1/8	1/4	1/4	1 3/4	1
11	.60	1/8	1/4	1/4	1 3/4	1
12	.75	1/8	1/4	1/4	2 1/4	2 1/2
13	1.05	1/4	3/8	3/8	2 3/4	3 1/2
14	1.35	1/4	1/2	1/2	3 1/4	5
15	1.75	3/8	3/8	3/8	3 1/2	9

All above items furnished CHROMIUM PLATED if desired—Price on Application

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
00	\$.40	1/8	3/8	1 3/4	1
0	.40	3/8	3/8	1 3/4	1
1	.40	1/2	3/8	1 3/4	1
2	.50	3/4	1/2	2 1/4	2
3	.70	1/2	3/8	2 3/4	3
4	.90	1/2	3/4	3	4 1/2
5	1.20	3/8	1	3 1/4	8

OPEN TYPE



Fig. 757

No.	Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
9	\$.60	1/8	1/4	1/4	1 3/4	1
10	.60	1/8	1/4	1/4	1 3/4	1
11	.60	1/8	1/4	1/4	1 3/4	1
12	.75	1/8	1/4	1/4	2 1/4	2 1/2
13	1.05	1/4	3/8	3/8	2 3/4	3 1/2
14	1.35	1/4	1/2	1/2	3 1/4	5
15	1.75	3/8	3/8	3/8	3 1/2	9

Screw Eye on Plate CAST BRONZE

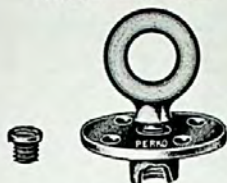


Fig. 1035

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 7/8
2	2.25	1	1/2	2 7/8

Gaff Topsail Hooks

GALVANIZED MALLEABLE IRON
COLEMAN PATTERN

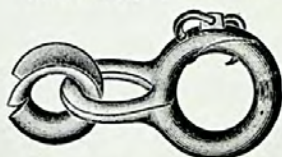


Fig. 931

Size Inches	Each	Weight Pounds	Size Inches	Each	Weight Pounds
1/4	\$.60	1/4	1/2	\$1.20	3/4
1/8	.65	1/8	5/8	2.75	1 1/4
3/8	.85	3/8	3/4	3.25	2 1/2
7/8	.95	5/8			

Bob Stay Straps

GALVANIZED DROP FORGED STEEL
AND POLISHED BRONZE



Fig. 803

Diam. of Metal in Eye Inches	Galvanized Each	Pol. Bronze Each	Overall Length Inches	Length of Strap Inches
3/8	\$.75	\$1.10	3	2
1/2	.85	1.40	4	3
5/8	.95	1.70	5	3 1/2
3/4	1.10	2.80	6	4
	3.40		8	5

"Snipe" Chain Plates BRASS



Fig. 143

Plain Each	Polished Each	Size Inches	Weight Ounces
\$.70	\$.90	10 1/2 x 1 1/8	6

Foot Rope Plates

GALVANIZED DROP FORGED STEEL
AND BRONZE

For Foot Ropes or Bowsprit Shrouds



Fig. 568

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size Iron Inches	Size Eye Inches
4	\$.50	\$1.10	\$1.55	7/8 x 1 1/8	3/8
5	.60	1.25	1.70	1 x 1 1/4	3/4
6	.75	1.50	1.95	1 1/8 x 1 1/4	3/8
8	1.00	1.70	2.30	1 1/4 x 1 1/4	1/2
10	1.50	2.10	2.90	1 1/4 x 1 1/8	1

Fitted for Shackle when desired. Larger sizes made to order.

Chain Plates

GALVANIZED DROP FORGED STEEL
AND BRONZE



Fig. 569

Length Under Eye Inches	Galv. Each	Plain Bronze Each	Polished Bronze Each	Size of Plate Inches
4	\$.30	\$.95	\$1.30	3/4 x 1 1/8
5	.35	1.10	1.45	7/8 x 1 1/8
6	.40	1.20	1.55	1 x 1 1/8
8	.50	1.45	1.90	1 1/8 x 1 1/4
10	.75	1.80	2.40	1 1/8 x 1 1/8
12	1.00	2.20	2.90	1 1/8 x 1 1/8
14	1.50	3.20	4.30	1 1/8 x 1 1/8
16	1.75	4.30	6.00	1 1/8 x 1 1/8
18	2.00	6.00	8.00	1 1/8 x 1 1/8
20	2.50			1 1/8 x 1 1/8

Any size made to order.

Small Boat Chain Plate

CAST BRONZE



Fig. 629

A good looking dressy chain plate for sail boats up to about 20 feet long.

Plain Each	Polished Each	Chromium Plated Each	Length Inches	Thick-ness Inches	Weight Ounces
\$.50	\$.70	\$1.00	6	1/4	7

Boom Travelers

CAST BRONZE
FOR MAIN SHEET BLOCKS ON BOOMS

FOR RECTANGULAR BOOMS



Fig. 1112

Fastened by one rivet and two screws.

Plain Each	Polished Each	For Thickness Boom Inches	Weight Ounces
\$.50	\$.75	1/2 to 1 3/4	2 1/2

FOR T BOOMS



Fig. 1113

Fastened with two rivets.

Plain Each	Polished Each	For Thickness Boom Inches	Weight Ounces
\$.45	\$.70	3/4 to 1	1 1/2

FOR ROUND BOOMS



Fig. 878

Diam. Boom	Plain Each	Polished Each	Width of Plate Inches	Weight Ounces
2	\$.85	\$ 1.15	1 1/4	
2 1/2	.95	1.25	1 1/2	
3	1.15	1.50	1 3/8	

Adjustable Jib Sheet Leaders

CAST BRONZE



Fig. 1114

One solid casting with large head thumb screw for fastening with fingers. Furnished complete with 24 inches of 5/8 inch nickel silver track.

Plain Each	Polished Each	Length Inches	Size Eye Inches	Complete Weight Ounces
\$ 1.00	\$ 1.50	1 1/8	3/4 x 3/8	6

Bronze Block Shackles

MANGANESE BRONZE



Fig. 893

No.	Size Inches	Plain Each	Polished Each
0	1/8	\$.35	\$.50
1	1/4	.40	.55
2	5/8	.50	.65
3	3/8	.60	1.00

Rigging Cleats

MANGANESE BRONZE



Fig. 879

No.	Plain Each	For Diam. Mast Inches	Size Overall Inches
1	\$.40	2 1/2	2 1/2 x 1 1/4
2	.50	3	3 3/8 x 1 5/8
3	.70	4	4 x 1 7/8

Eye Plates

MANGANESE BRONZE



Fig. 880

No.	Length Plate Inches	Opening of Eye Inches	Stock in Eye Inches	Plain Each	Polished Each
1	3 1/8	1 1/8 x 3/4	1 1/8	\$.65	\$ 1.15
2	3 1/2	1 1/2 x 3/8	1 1/8	.90	1.50
3	4 1/8	3/8 x 1 1/8	1 1/8	1.10	1.80
4	4 1/4	1 1/8	1 1/8	1.25	

Eye Straps

MANGANESE BRONZE



Fig. 881

No.	Length Inches	Size Eye Inches	Stock in Eye Inches	Plain Each	Polished Each
0	2	1 1/8	1 1/8	\$.22	\$.35
1	2 1/4	3/8	1 1/4	.28	.45
2	2 3/4	1/2	1 1/8	.35	.55
3	3 1/8	3/8	1 1/8	.45	.65

Deck Straps

MANGANESE BRONZE



Fig. 882

No.	Plain Each	Polished Each	Length Inches	Size Eye Inches	Stock in Eye Inches
1	\$.40	\$.50	3 1/2	1/2	1 1/8
2	.50	.60	4 1/4	3/8	1 1/8
3	.60	.75	4 3/4	5/8	1 1/8

Snipe Travelers
GALVANIZED IRON OR BRASS



Fig. 271

Galv. Each	Plain Brass Each	Polished Brass Each	Size Inches	Height Above Deck Inches	Weight Pounds
\$1.00	\$1.50	\$2.25	3/8 x 18	6	1 1/2

Snipe Centerboards
GALVANIZED IRON



Fig. 134

Galvanized Each	Size Inches	Weight Pounds
\$7.50	36 x 21 x 1 1/4	32

Bronze Deck Travelers
TO BOLT THROUGH DECK

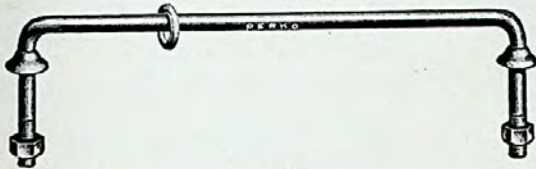


Fig. 933

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
5/8	36	2	10.25

Centerboard Hoisting Strap

FOR "SNIPE" PIVOT TYPE CENTERBOARDS
GALVANIZED



Fig. 212

Required only when Pivot Type Centerboards are used on "Snipe" class sail boats.

Price Each	Length Inches	Width Opening Inches	Size Holes Inches
\$.30	2 1/2	3/8	3/4

Bronze Deck Travelers
WITH PLATES TO SCREW TO DECK

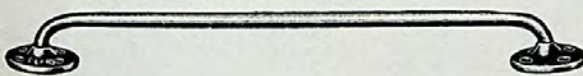


Fig. 896

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

Mast Shroud Tangs
CAST BRONZE—PLAIN



Fig. 387

For the mast shroud of small sail boats. Drilled for fastening by rivet and screws.

Each	For Wire 1/8-3/16	Length Inches	Width Inches	Weight Ounces
\$.45	1/8-3/16	4	3/8	2 1/2

"Snipe" Stay Tangs

ALL BRASS



SINGLE
Fig. 47



DOUBLE
Fig. 57

Commonly used for attaching standing rigging to mast on snipe and similar classes of sail boats.

Fig. No.	Plain Brass Each	Pol. Brass Each	For Diam. Rope Inches	Dim. Straps Inches	Diam. Bolt Inches	For Wood Thickness Inches	Wt. Each Lbs.
47	\$.60	\$.75	1/8	3/4 x 4	1/4	2	1/8
57	1.00	1.25	1/8	3/4 x 4	1/4	2 1/8	1/4

Jib Snaps

GALVANIZED MALLEABLE IRON AND BRASS



Fig. 765

Size No.	Galv. Each	Plain Brass Each	Polished Brass Each	Extreme Length Inches	For Dia. Stay Inches	Weight Per 100 in Lbs.
0	\$.25	\$.35	\$.55	1 3/8	1/4	4 3/8
1	.30	.40	.60	2	3/8	10
2	.35	.50	.75	2 3/8	3/8	12 1/2
3	.40			2 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	3/8	2 3/4	10
2	.35	.50	.75	3/4	3 1/4	13 1/8
3	.40	.65	1.00	3/4	3 3/8	26 1/4
4	.45			1	4 1/8	27 1/2
5	.50			1 1/8	4 7/8	43 3/4
6	.60			1 1/4	5 1/4	56 1/4

Swivel Eye Boat Snaps

GALVANIZED MALLEABLE IRON AND BRONZE



Fig. 613

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Diam. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
1	\$.50	\$.60	\$.75	3/8	3 1/4	11
2	.60	.70	.85	3/4	3 1/4	16 1/4
3	.75	.90	1.25	3/8	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

Improved Jib Snap Hooks

CAST BRONZE



Fig. 1037

A very strong, quick acting Snap. Has two holes for fastening to luff rope of jib. Brings the sail close to the stay.

No.	Plain Each	For Size Stay Inches	For Size Luff Rope Inches
0	\$.35	1/8	1/4
1	.40	3/16 or 1/4	1 1/4
2	.50	1/4	3/8

Release Hooks

MANGANESE BRONZE



Fig. 890

No.	Plain Each	Polished Each	Length Closed Inches	Size Opening Inches	Size Eye Inches
1	\$1.40	\$1.60	4	1/2	1/2 x 3/8
2	1.80	2.00	5 1/2	3/8	3/8 x 3/8

Swivel Eye Snap

MALLEABLE IRON AND BRONZE



Fig. 659

Cadmium Plated Each	Plain Bronze Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
\$.40	\$.65	3 1/2	3/4	3/8	2

Baby Snaps

WITH SWIVEL EYE
ELECTRO GALVANIZED AND POLISHED BRASS



Fig. 1042

Diam. of eye Inches	Galvanized Each	Polished brass Each	Length Inches
3/8	\$.10	\$.18	2

Baby Snaps

WITH OBLONG EYE—ELECTRO GALVANIZED



Fig. 1041

Size of eye Inches	Galvanized Each	Length Inches
1 1/4 x 1/4	\$.05	1 3/4

Eye Bands

GALVANIZED DROP FORGED STEEL
AND MANGANESE BRONZE



Fig. 426

Inside Diam. Inches	1 or 2 Eyes		3 or 4 Eyes	
	Galv. Each	Bronze Each	Galv. Each	Bronze Each
1 1/4	\$.70	\$.90	\$1.00	\$1.50
1 1/2	.75	.95	1.05	1.55
1 3/4	.80	1.00	1.10	1.65
2	.90	1.10	1.20	1.80
2 1/4	1.00	1.25	1.35	2.00
2 1/2	1.10	1.40	1.50	2.20
3	1.20	1.55	1.60	2.40
3 1/2	1.35	1.70	1.75	2.60
4	1.50	1.85	1.90	2.80
4 1/2	1.70	2.10	2.00	3.00

Please specify number of eyes when ordering.

Solid Brass Rings

POLISHED



Fig. 417

Thickness Inches	Inside Diam. Inches	Per Dozen	Thickness Inches	Inside Diam. Inches	Per Dozen
1/2	1/2	\$.60	1/4	1 1/4	\$3.00
3/4	3/4	.60	1/4	2	3.25
1	1	.70	1/4	2 1/4	3.75
1 1/4	1 1/4	.85	1/4	2 1/2	4.00
1 1/2	1 1/2	1.00	3/8	1 3/4	4.50
1 3/4	1 3/4	1.20	3/8	2	4.80
2	2	1.35	3/8	2 1/4	5.20
2 1/4	2 1/4	1.50	3/8	2 1/2	5.70
2 1/2	2 1/2	2.00	1/2	2 3/4	6.00
3	3	2.50	1/2	3	6.50

Mast Hoops

GALVANIZED WROUGHT IRON



Fig. 849

Size Inches	Price Per 100	Weight Per 100 in Lbs.	Size Inches	Price Per 100	Weight Per 100 in Lbs.
2 x 1/4	\$ 6.00	10 1/2	5 x 1/4	\$14.00	24 1/2
2 1/2 x 1/4	8.00	12 1/2	6 x 1/4	15.00	30
3 x 1/4	8.50	15	7 x 1/4	16.00	34 1/2
3 1/2 x 1/4	10.00	17	8 x 1/4	18.00	39
4 x 1/4	13.00	20	9 x 1/4	21.00	44
4 1/2 x 1/4	13.50	22 1/2	10 x 1/4	25.00	49

Measure in clear, special size made to order.

Lacing Eyes

GALVANIZED MALLEABLE IRON AND BRASS
REGULAR



Fig. 766

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Eye Inches	Weight Per 100 in Lbs.
1	\$.04	\$.05	1/4	1	1 1/8
2	.05	.08	1/4	1 1/8	3 3/4
3	.07	.10	1/4	1 1/2	8 1/8
4	.12	.14	1/4	2	11 1/4

Jib Rings

GALVANIZED WROUGHT IRON



Fig. 897

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1 1/2	\$.21	3/8 x 3	\$.28	1 1/2 x 6	\$.55
1 1/4	.22	3/8 x 3 1/2	.30	3/8 x 3	.60
1 1/2	.23	1/2 x 3	.40	5/8 x 3 1/2	.65
3/8 x 2	.24	1/2 x 3 1/2	.43	5/8 x 4	.70
3/8 x 2 1/4	.25	1/2 x 4	.48	5/8 x 5	.80
3/8 x 2 1/2	.25	1/2 x 5	.50		

WITH SHOULDER



Fig. 767

Size No.	Galv. Each	Plain Brass Each	Inside Diam. of Eye Inches	Length Under Shoulder Inches	Weight Per 100 in Lbs.
5	\$.04	\$.05	1/4	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	5/8	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	1/2	3/4
3	1.00	5/8	1
4	1.50	3/4	2
5	2.00	7/8	2 1/2

Junior Grommet Dies

CAST IRON

For inserting Brass Washer and Teeth Grommets



Fig. 901

Size No.	Each	Weight Each Lbs.
0	\$1.15	3/4
1	1.30	3/4
2	1.80	1
3	2.00	1 1/8

This die is not guaranteed and not for commercial use, a useful, inexpensive tool for those who have only a few grommets to insert.

Teeth Grommets

SHEET BRASS



Fig. 900

Size No.	Price Per Gross	Size Hole Inserted Inches	Est. Wt. Per Gross Pounds
0	\$.70	1/4	3/8
1	.75	3/8	1/2
2	1.10	1/2	3/4
3	1.30	5/8	1 1/8
4	1.90	3/4	1 3/4
5	2.70	7/8	2 1/2

Senior Grommet Dies

FORGED STEEL

Style B for inserting Spur Grommets
Style C for inserting Washer and Teeth Grommets



Fig. 902

Size No.	Style B Each	Style C Each	Weight Each Lbs.
0	\$3.00	\$2.70	1 1/4
1	3.20	2.90	1 3/8
2	3.30	3.00	1 3/8
3	3.50	3.20	1 7/8
4	3.70	3.40	2 3/8
5	4.00	3.70	2 3/8
6	4.20	4.10	3 1/2
7	4.50		3 3/4
8	4.80		5

Use a wooden mallet with above dies.

Grommet Hooks

CAST BRONZE



Fig. 1000

Plain Bronze Per Dozen	Polished Bronze Per Dozen	Diam. Flange Inches	Length Inches
\$.80	\$1.25	5/8	1/2

Grommet Hole Cutters

FORGED STEEL



Fig. 903

No.	Price Each	No.	Price Each
0	\$.80	5	\$1.50
1	.80	6	2.75
2	.80	7	3.00
3	1.00	8	3.25
4	1.25		

Curtain Fasteners

WROUGHT BRASS



Fastener
Fig. 995



Eyelet
Fig. 996



Washer
Fig. 997

Made of stamped brass, for single and double curtains, fastener base size is 1 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

Enos Windlass

GALVANIZED—BRONZE

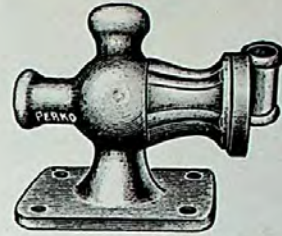


Fig. 964

Size No.	Galvanized Each	Polished Bronze Each	Height Inches	Width Overall Inches	Est. Wt. Each Bronze in Lbs.
0	\$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

Size No.	Diam. Drum Inches	Size Base Inches	Size Bolts Inches	Size Chain Inches	Size Rope Inches	Est. Wt. Each Galv. in Lbs.
0	2 1/2	4 1/2 x 6	5/8	1	3/8	11
1	3 1/4	6 1/4 x 8 1/2	3/8	1 1/4	3/4	25
2	3 1/2	7 3/8 x 9 1/2	5/8	1/4	7/8	31
3	4 1/2	7 1/2 x 10	3/4	1 1/4	1 1/8	53

Grommet Rings

MALLEABLE IRON—GALVANIZED
INSIDE MEASUREMENT

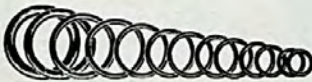


Fig. 1002

Light			Heavy		
Inside Diam. Inches	Thickness Inches	Price Per Gross	Inside Diam. Inches	Thickness Inches	Price Per Gross
1/4		\$.75	1/2	1/8	\$ 1.15
5/16		.75	3/8	1/8	1.50
3/8	3/32	.75	3/4	3/32	2.00
1/2	3/32	1.05	7/8	1/16	2.50
5/8	1/8	1.40	1	3/16	3.50
3/4	1/8	1.90	1 1/8	1/16	5.00
7/8	3/32	2.15	1 1/4	3/32	5.25
1	3/32	2.60	1 1/2	1/4	6.75
1 1/8		4.40	1 3/4	3/32	7.50
1 1/4	3/16	4.60	2	1/8	11.75
1 1/2	3/32	6.25	2 1/4	3/16	17.50
1 3/4		8.25	2 1/2	3/8	18.50
2	1/4	9.00	3	3/8	21.00

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.

Patent Gypsy Windlass

PAINTED FINISH

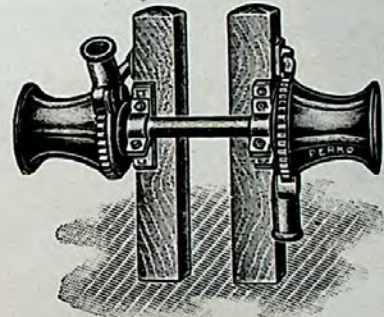


Fig. 966

Full Windlass has Two Heads

Half Windlass has One Head

Size	Half Windlass Each	Full Windlass Each	Bits Inches	Length of Head Inches	Diameter of Head on End Inches
E	\$10.50	\$15.50	6	5 1/4	4 1/2
D	11.50	17.00	8	6	5
C	13.50	19.00	10	6 1/2	7 1/2
B	17.00	24.00	12	7	7 1/2
0	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

Galvanized Windlasses—Price on Application

Pick-Up Buoy
FLAT TOP

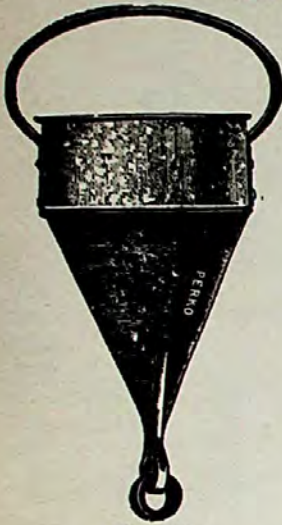


Fig. 234

Heavy galvanized iron, double seamed and soldered.

Wrought iron handle riveted to body, large eye on bottom and rope thimble. Every buoy fully tested before it leaves our factory.

Measurements do not include handle or eye.

No.	Each	Size Inches	Weight Pounds
1	\$4.25	9x14	4
2	5.00	12x18	5
3	6.00	13x22	7

Cone Mooring Buoy
GALVANIZED

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 5/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper, which is of heavy 1 1/2 inch outside diameter rubber hose.



Fig. 370

Can also be furnished with welded eye bolts top and bottom non swivel—same prices.

Size Inches	With Bumper Each	Without Bumper Each
16 x 24	\$16.00	\$12.00
20 x 30	19.00	15.00
24 x 36	25.00	21.00
30 x 36	27.50	23.50

Size does not include swivel or eye.

Can also be furnished with 3/8 inch diameter buoy rod and swivel—add to above prices \$3.50 each.

Pick-Up Buoy
CONE TOP



Fig. 235

Heavy galvanized iron, double seamed and soldered. Wrought iron handle riveted to body, large eye on bottom for rope.

Fully Tested

Measurements do not include handle or eye.

No.	Each	Size Inches	Weight Pounds
4	\$3.25	13x22	5
5	4.25	16x24	6 1/2

Heavy Duty Mooring Buoy
RIVETED BODY—GALVANIZED



Fig. 551

Extra heavy construction, all riveted. 3/8 inch wrought iron buoy rod through center, eye on top, swivel on bottom, grooved to take heavy rubber bumper. Bumper is 1 1/2 inch outside diameter heavy hose. outlet in bottom for draining.

Size Inches	With Bumper Each	Without Bumper Each
24 x 36	\$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 5/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$10.50	13	22
2	14.00	17	27

Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
33 1/2	3	15
38 1/2	3	24

New Junior Mooring Buoy
FOR RUNABOUTS AND ALL SMALL BOATS
GALVANIZED

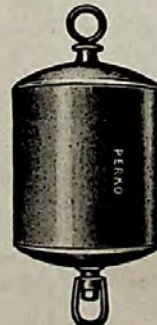


Fig. 318

Made of sheet steel with 1/2 inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the rod.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$5.50	12	15

Northhill Folding Anchors

STAINLESS STEEL OR GALVANIZED
TREMENDOUS HOLDING POWER
LIGHT WEIGHT

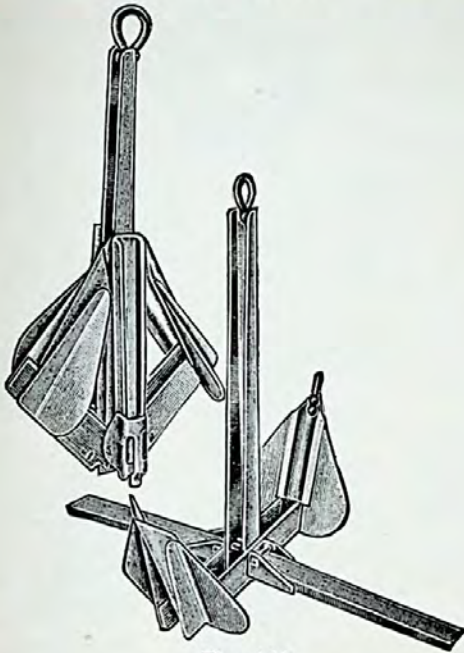


Fig. 441

Northhill Anchors are scientifically designed to hold—
Irrespective of weight.

Northhill Anchors have an average holding power of 60 times their own weight—as compared to averages ranging from 2½ to 1 or 8 to 1 in other styles.

Northhill Anchors save weight, space, time and physical effort.

Widely used by the U. S. Navy and foreign governments.

In the Northhill Anchor a new design of fluke has been developed that buries itself in the bottom because of its shape and proportion alone.

When not in use it folds compactly and is easily stowed away.

The comparative table below has been compiled from data of the Bureau of Construction and Repair, U. S. Navy; from exhaustive tests of Pan-American Airways and other authorities.

Northhill Anchor Type No.	Holding Power Pounds	Stainless Steel Each	Galvanized Steel Each	Weight of Kedge Anchor Ratio 7 to 1 Pounds	Weight of Navy Anchor Ratio 2½ to 1 Pounds
6	240	\$ 22.50	\$19.50	35	96
12	720	38.50	24.50	100	300
20	1200	58.50	38.50	175	650
30	1800	97.50		260	720
50	3000	187.50		425	1200
80	4800	247.50		700	1900

Type No. indicates approximate weight.

NOTE—A 12 pound Northhill Anchor outholds a 300 pound navy type stockless anchor.

Formula to determine required anchor holding power for various type craft:

- Power Cruiser Types—7% of gross weight.
- Motor Boat Types—6% of gross weight.
- Sail Boats (centerboard types)—5% of gross weight.
- Sail Boats (keel types)—10% of gross weight.

Northhill Utility Anchors

HEAT TREATED DUCTILON—GALVANIZED
NORTHILL HOLDING POWER AT LOW PRICE

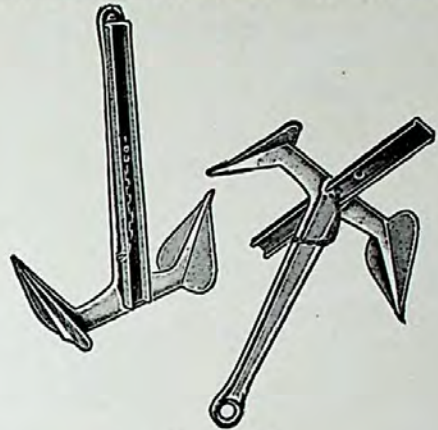


Fig. 1067

Has removable stock for compact stowage. These anchors have tremendous structural strength and the same proven scientific advantages as the original Northhill folding anchors.

Type No.	Galv. Each	Weight Pounds	Com- parative Weight Kedge Type Pounds	Com- parative Weight Navy Type Pounds
6-R	\$10.50	13	65	180
12-R	18.50	25	130	360
20-R	28.50	47	200	725

Mushroom Anchor

STEEL SHANK RIVETED THROUGH HEAD



Fig. 142

All sizes have eye in shank for shackle. Price does not include ring illustrated.

Small sizes are furnished with mud holes.

Weight Pounds	Galv. Each	Self Colored Each	Weight Pounds	Self Colored Each
5	\$1.65	\$1.45	100	\$ 7.00
8	2.25	1.95	125	8.75
10	2.50	2.15	150	10.50
15	3.15	2.65	200	14.00
20	4.00	3.00	250	17.50
25	4.35	3.25	300	21.00
35		3.40	350	24.50
50		3.50	400	28.00
75		5.25	450	31.50
			500	35.00

Trawl and Sand Anchors

DROP FORGED STEEL

FAST STOCK

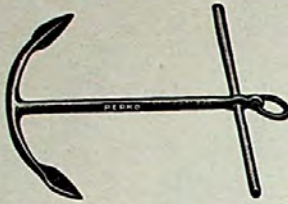


Fig. 364

Weight Pounds	Galvanized Each	Self Colored Each
5	\$ 2.10	\$ 1.90
10	2.90	2.50
15	3.70	3.10
20	4.50	3.70
25	5.55	4.55
30	6.60	5.40
35	7.65	6.25
40	8.70	7.10
50	10.85	8.85
60	13.00	10.60
75	16.20	13.20
100	22.50	18.50

LOOSE STOCK



Fig. 365

Weight Pounds	Galvanized Each	Self Colored Each
5	\$ 3.05	\$ 2.90
10	3.85	3.55
15	4.65	4.20
20	5.45	4.85
25	6.25	5.50
30	7.05	6.15
35	7.95	6.90
40	9.10	7.90
50	11.35	9.85
60	13.65	11.85
75	17.00	14.75
100	23.00	20.00

New Fishing Anchor

FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Japanned Each	Galvanized Each	Diam. Inches	Height Inches
7	\$.90	\$ 1.00	\$ 1.10	6	8
11	1.30	1.40	1.65	7	9
15	1.80	1.90	2.25	8	10

Anglers Anchor

FOR SMALL BOATS



Fig. 216

Weight Pounds	Galvanized Each	Japanned Each	Diameter Inches	Height Inches
7	\$ 1.35	\$ 1.25	6	8
11	1.85	1.60	7	9
15	2.50	2.10	8	10

Folding Anchors
GALVANIZED MALLEABLE IRON



Fig. 226

Weight Pounds	Each	Length	Weight Pounds	Each	Length
6	\$ 2.85	19	30	\$ 12.80	34
8	3.85	22	35	15.00	36
10	4.80	23	45	19.00	38
12	5.60	25	55	23.00	41
15	6.80	28	76	31.00	44
20	8.80	30			
25	10.80	33			

Galvanized Buoy Rods
COMPLETE AS ILLUSTRATED



Fig. 278

Diam. Inches	Length Under Eye Inches	Price Each
1/2	18	\$1.90
1/2	20	2.00
3/8	24	2.50
3/8	30	2.75
3/8	33 1/2	4.00
3/8	37 1/2	4.25
3/8	43 1/2	4.50
3/8	37 1/2	7.00
3/8	43 1/2	7.50
3/8	52	8.00

Note: All anchors are subject to government tolerance of plus or minus 5% in weight.

MARINE LAMPS FOR THE HOME

A beautiful assortment of table lamps and fixtures for the homes of yachtsmen and others who desire the savor of the sea in their home decorations.

What would be more appropriate in yacht clubs, marine decorated dens or basements, as trophies for boat or yacht races, and especially in any room or office where pleasure or business has some connection with the sea and vessels that sail upon it.

All shades are hand painted in beautiful colors on parchment, leather laced.

All bases are brass and bronze, highly polished and lacquered.

All lamps wired with 6 feet rubber covered cable and plug attached.



Fig. 1126

"SEA FOAM"

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.50	\$10.00

Shades Only
Each
\$2.25

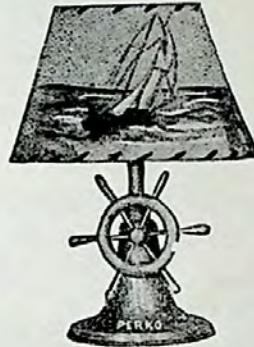


Fig. 1129

"MARINER"

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$10.00	\$12.00

Shades Only
Each
\$2.25



Fig. 1127

"BELL BUOY"

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.50	\$10.00

Shades Only
Each
\$2.25



Fig. 1130

"HATTERAS"

With green farnel lens, additional socket inside lens, with switch.

Ht. Overall, 13 in.
Diam. Shade, 10 in.
Diam. Base, 6 in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$10.00	\$12.00

Shades Only
Each
\$2.25

Anchor Book Ends CAST BRONZE



Fig. 1128

"SEA WAY"

Ht. Overall, 12½ in.
Diam. Shade, 9 in.
Diam. Base, 5¼ in.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$8.50	\$10.00

Shades Only
Each
\$2.25

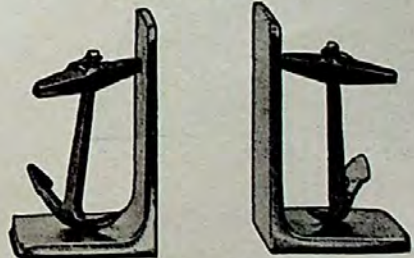


Fig. 1132

Height
Inches
5

Polished Bronze
Per Pair
\$10.00

Base
Inches
3½x3

Chromium Plated
Per Pair
\$12.50

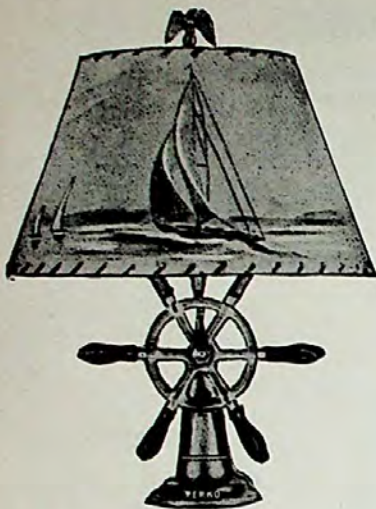


Fig. 1120

NAUTILUS

Height, 22"
Diam. Base, 5 1/4"
Diam. Shade, 16"
Diam. Wheel, 12"

Bronze Steering Wheel.
Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$18.00

Chromium Plated Each \$22.00

Shades Only Each \$5.00

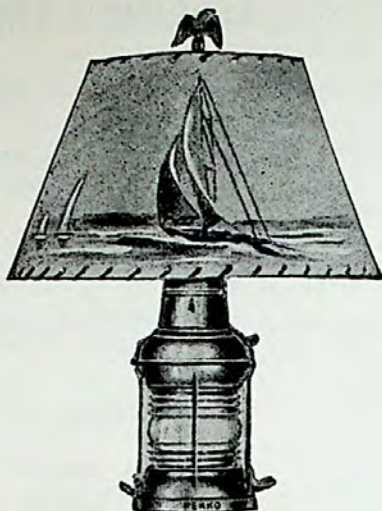


Fig. 1123

NOMAD

Height, 20"
Diam. Base, 5 1/4"
Diam. Shade, 16"
Size Glass, 4x4 1/4"

Glass clear. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$16.00

Chromium Plated Each \$18.50

Shades Only Each \$5.00

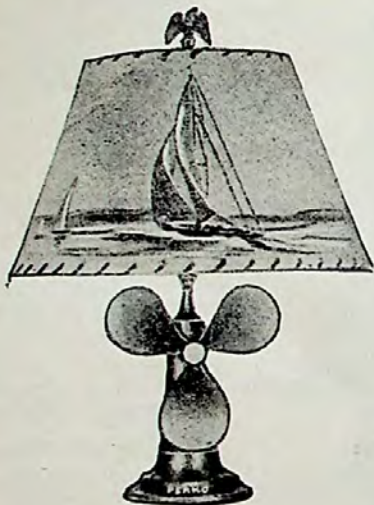


Fig. 1121

NORSEMAN

Height, 20"
Diam. Base, 5 1/4"
Diam. Shade, 16"
Diam. Prop., 9"

Aluminum propeller. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$17.00

Chromium Plated Each \$20.00

Shades Only Each \$5.00

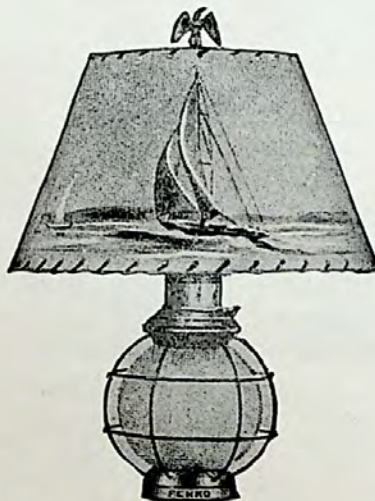


Fig. 1124

SEA GULL

Height, 19 1/2"
Diam. Base, 4 1/4"
Diam. Shade, 16"
Size Globe, 6x0"

Globe frosted. Light inside. Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$18.50

Chromium Plated Each \$22.00

Shades Only Each \$5.00

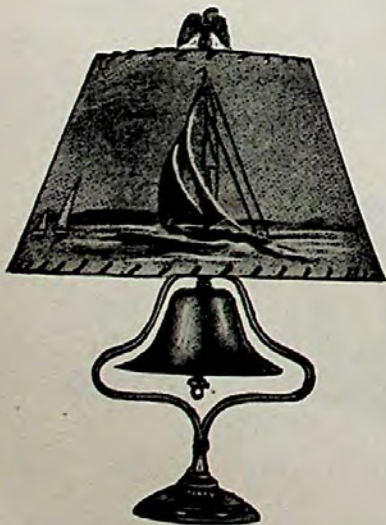


Fig. 1122

NORTHERN LIGHT

Height, 22"
Diam. Base, 6"
Diam. Shade, 16"
Diam. Bell, 8"

Hand painted sail cloth shade.

Complete with Shade

Polished Brass Each \$16.00

Chromium Plated Each \$19.00

Shades Only Each \$5.00

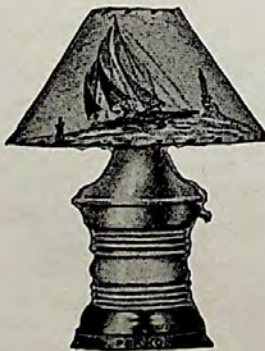


Fig. 1125

"CAPE COD"

Height, 13"
Diam. Base, 4 1/4"
Diam. Shade, 10"
Size Glass, 3 3/8 x 3 1/2"

Clear glass. Light inside. Pen and ink parchment shade.

Complete with Shade

Polished Brass Each	Chromium Plated Each
\$10.00	\$12.00

Shades Only Each \$2.25

"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



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. 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. 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

With Clear Lens

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.

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



Fig. 443

Furnished with clear, red or green lenses. Specify color desired.

Anchor Candle Sticks



Fig. 1133

Polished Bronze Per Pair	Chromium Plated Per Pair	Height Inches	Length Inches
\$6.00	\$7.50	4 1/2	6 3/4

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 3½
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



Knight Pattern WITH DAVIT BRACKET

No.	1	2
Height	10½	13
Projection	8¾	10
Size globe	3¾ x 3½	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

Nautical Ashtrays CAST BRONZE

These are very popular for marine rooms in homes, clubs or anywhere the marine motive is carried out.

Yacht



Fig. 1135

Dory



Fig. 1136

Whale Boat



Fig. 1137

Type	Polished Bronze Each	Nickel Plated Each	Chromium Plated Each	Length Overall Inches	Height Overall Inches
Yacht	\$2.00	\$2.50	\$3.00	5¾	2
Dory	.70	.95	1.20	6	1½
Whale Boat	.60	.85	1.10	6	1

Whale boat is brushed finish, not polished



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



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

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

Royal pattern fixtures can be furnished with red, green, blue, or frosted globes. Add \$3.00 to above prices.

Knight pattern fixtures with red, green, blue or amber lenses, add \$2.00 each.

Colonial Pattern

With cast bronze ring in top for hanging from chain or wall bracket. Hinged dome bottom.



Fig. 518

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

Bishop Pattern WITH IMPERIAL BRACKET

Same lamp as Fig. 518 with spun wall plate 4 1/2 inches in diameter.

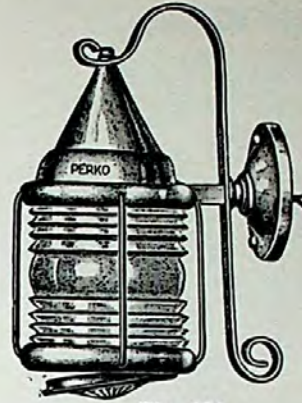


Fig. 464

No.	Height Overall Inches	Width Overall Inches
1	9 1/4	7 1/2
2	10 1/4	8 1/2

No.	Pol. Brass Each	Pol. Copper Each	Chrom. Plated Add Each
1	\$11.00	\$13.00	\$2.50
2	12.00	14.00	2.50

Colonial Pattern

WITH WALL BRACKET

Diameter Bracket, 4 1/2 inches



Fig. 799

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

Ceiling Canopies



Fig. 465



Fig. 558

Furnished with one link of chain.

Fig.	Polished Brass Each	Polished Copper Each	Chromium Plated Add Each	Diam. Inches	Depth Inches
558	\$2.00	\$2.25	\$.75	4 1/2	1
465	2.50	3.00	.75	5	6

Brass or Copper Chain, per foot \$1.00

Colonial Pattern

WITH CEILING CANOPY

Diameter Canopy, 4 1/2 inches



Fig. 360

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

The "Lighthouse" ELECTRIC

A very attractive novelty, especially useful as a night light, and will harmonize very well in any place nautically decorated.

Made entirely of cast aluminum alloy, in steel gray finish. Equipped with 110 volt bulb, and toggle switch in base, furnished for steady light or flashing, on and off lighting.



Fig. 1134

Extreme Height Inches	Diam. Base Inches	Weight Pounds
11 3/4	6 3/4	3 1/2

Price—Steady light, no flasher \$17.00
 Price—Intermittent light, with flasher 18.50

Wood Tackle Blocks

REGULAR INSIDE IRON STRAPPED—WITH LOOSE SIDE HOOKS—FOR MANILA ROPE

Finished hardwood shells, galvanized trimmings

SINGLE SHEAVES



Fig. 101

Length Shell Inches	For Diam. Rope Inches	Iron Bushed Each	Imp. Roller Bushed Each
3	3/8	\$.85	\$1.30
3 1/2	3/8	.95	1.40
4	1/2	1.00	1.45
5	5/8	1.10	1.50
6	3/4	1.30	1.80
7	7/8	1.55	2.05
8	1	2.15	2.90
9	1	2.45	3.30
10	1 1/8	3.65	4.60
11	1 1/8	5.90	6.95
12	1 1/4	5.90	6.95

DOUBLE SHEAVES



Fig. 102

Length Shell Inches	For Diam. Rope Inches	Iron Bushed Each	Imp. Roller Bushed Each
3	3/8	\$1.55	\$2.40
3 1/2	3/8	1.75	2.60
4	1/2	1.90	2.70
5	5/8	2.10	2.80
6	3/4	2.40	3.40
7	7/8	2.90	4.00
8	1	3.70	5.40
9	1	4.45	6.10
10	1 1/8	5.85	7.80
11	1 1/8	9.75	11.95
12	1 1/4	9.75	11.95

TRIPLE SHEAVES



Fig. 103

Length Shell Inches	For Diam. Rope Inches	Iron Bushed Each	Imp. Roller Bushed Each
3	3/8	\$ 2.10	\$ 3.50
3 1/2	3/8	2.40	3.80
4	1/2	2.60	3.90
5	5/8	2.70	4.20
6	3/4	3.50	5.30
7	7/8	4.20	6.00
8	1	5.50	7.80
9	1	6.20	9.40
10	1 1/8	8.10	11.00
11	1 1/8	13.85	17.15
12	1 1/4	13.85	17.15

When ordering please specify size of shell, common or roller bushing, figure number, japanned or galvanized trimmings.

Regular wood blocks are supplied with galvanized sheaves and all metal parts galvanized.

DIMENSIONS OF WOOD TACKLE BLOCKS

Length Shell Inches	Size Sheave Inches	For Rope Inches	Weight Each, Lbs.		
			Single	Double	Triple
3	1 3/4 x 1 1/2 x 3/8	3/8	3/4	1 1/2	2
3 1/2	2 x 1 1/2 x 3/8	3/8	1	1 3/4	2 3/8
4	2 1/4 x 1 3/8 x 3/8	1/2	1 1/2	2 1/4	3 1/2
5	2 x 1 3/4 x 3/8	5/8	2 1/2	4 1/4	6
6	3 1/2 x 1 x 1/2	3/4	4 1/4	7	10 1/2
7	4 1/4 x 1 x 1/2	7/8	6	8 1/2	13 1/2
8	4 3/4 x 1 1/8 x 5/8	1	9	13	19
9	5 1/2 x 1 1/8 x 5/8	1	12	17	25
10	6 1/4 x 1 1/4 x 5/8	1 1/8	15 1/2	23 1/2	33
11	7 1/4 x 1 1/4 x 3/4	1 1/8	19	26	40
12	8 x 1 3/8 x 3/4	1 1/4	24	36	48

Extra Sheaves Furnished If Desired

Snatch Blocks

HARDWOOD SHELL—FOR MANILA ROPE WITH DROP-FORGED, FLATTENED SWIVEL HOOK



Fig. 117

Drop link pattern; varnished hardwood shell with wrought iron head, straps and hooks. Cast iron japanned sheaves.

Length Shell Inches	For Diam. Rope Inches	Iron Bushed Each	Roller Bushed Each
6	7/8	\$3.10	\$ 3.65
7	7/8	3.70	4.30
8	1	4.50	5.15
9	1 1/8	5.30	6.10
10	1 1/4	6.65	7.85
12	1 1/2	8.70	10.00

STEEL SHELL—FOR MANILA ROPE

Drop link pattern; japanned shell with rounded edges; japanned cast iron sheave; wrought iron head, straps and flattened swivel hook; steel pin.

Length Shell Inches	For Diam. Rope Inches	Iron Bushed Each	Roller Bushed Each
6	7/8	\$ 4.00	\$ 4.65
7	7/8	4.75	5.50
8	1	5.75	6.60
9	1 1/8	6.75	7.75
10	1 1/4	8.50	10.00
12	1 1/2	10.00	11.50



Fig. 118

DIMENSIONS OF MANILA ROPE SNATCH BLOCKS

Length Shell Inches	Size Sheave Inches	For Rope Inches
6	3 x 1 1/8 x 1/2	7/8
7	3 1/2 x 1 1/4 x 1/2	7/8
8	4 1/2 x 1 3/8 x 5/8	1
9	5 x 1 3/8 x 5/8	1 1/8
10	5 3/4 x 1 7/8 x 3/4	1 1/4
12	6 3/4 x 2 1/8 x 3/4	1 1/2

Differential Hoist

LIST PRICES AND INFORMATION

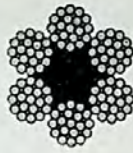
Capacity Tons	List Price Complete	Regular Lift Feet	Extra Lift Per Ft.	Minimum Distance Between Hooks Inches	Total Length Chain Endless Feet
1/4	\$36.00	6	\$4.80	17	22
1/2	42.00	7	4.80	21	26
1	56.00	8	5.00	26	30
1 1/2	72.00	8 1/2	5.40	32	33
2	90.00	9	5.60	39	36

Capacity Tons	Chain Pull Lbs.	Pull Feet
1/4	72	18
1/2	112	24
1	189	30
1 1/2	224	36
2	301	42



Fig. 1485

"Blue Center" Steel Hoisting Rope



Reg. U. S. Pat. Off.
Composed of 6 Strands and a Hemp Center,
19 Wires to the Strand

List Price per Foot	Diam. Inches	Approx. Circum. Inches	Approx. Weight per Foot	Breaking Strength in Tons of 2000 Lbs.	Proper Working Load in Tons of 2000 Lbs.
\$3.45	2 3/4	8 5/8	12.10	294.0	
2.80	2 1/2	7 7/8	10.00	246.0	
2.50	2 1/4	7 3/8	8.10	202.0	
1.85	2	6 3/4	6.40	161.0	
1.75	1 7/8	5 7/8	5.63	142.0	
1.60	1 3/4	5 1/2	4.90	124.0	
1.30	1 5/8	5 1/8	4.23	108.0	
1.10	1 1/2	4 3/4	3.60	92.5	
.90	1 3/8	4 3/8	3.03	78.5	
.75	1 1/4	3 7/8	2.50	65.0	
.62	1 1/4	3 1/2	2.03	53.0	
.50	1	3 1/8	1.60	42.0	
.39	7/8	2 3/4	1.23	32.2	
.31	3/4	2 3/8	.90	23.7	
.22 1/2	5/8	2	.63	16.6	
.19	1/2	1 3/4	.51	13.5	
.17	1/2	1 5/8	.40	10.8	
.15 1/2	7/8	1 7/8	.31	8.4	
.14 1/2	3/4	1 1/4	.23	6.3	
.13 1/2	3/4	1	.16	4.5	
.13	1/2	3/4	.10	2.9	

Approximately one-fifth of the breaking strength

Galvanized Iron and Steel Running Rope

Composed of 6 Strands and a Hemp Center, each Strand consisting of 12 Wires and a Hemp Core

List Price in Cents per Foot			Diam. In.	App. Cir. In.	App. Wgt. per Foot	Breaking Strength in Tons of 2000 Lbs.		
Plow Steel	Cast Steel	Iron				Plow Steel	Cast Steel	Iron
\$.40	\$.30	\$.22	1 1/8	3 3/8	1.19	22.6	18.3	9.0
.36	.27	.20	1	3 1/8	1.05	20.0	16.3	8.1
.31	.23	.17	7/8	2 3/4	.80	15.4	12.5	6.3
.27	.20	.14 1/2	3/4	2 1/2	.69	13.3	10.8	5.46
.22	.16 1/2	.12	3/4	2 1/2	.59	11.3	9.26	4.70
.19	.14	.10	5/8	2	.41	7.90	6.46	3.35
.15	.11	.08	3/4	1 3/4	.33	6.43	5.26	2.75
.12	.09	.07	1/2	1 1/2	.26	5.10	4.23	2.18
.11 1/4	.08 1/2	.06 1/2	7/8	1 3/8	.20	4.01	3.29	1.69
.10 1/4	.07 3/4	.06	3/4	1 1/8	.15	3.01	2.47	1.26
.09 1/2	.07	.05 1/2	3/4	1	.10	2.13	1.76	.88

Tiller Rope

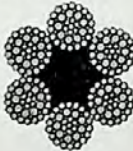


Composed of 6 Ropes and a Hemp Center, each Rope consisting of 6 Strands of 7 Wires each and a Hemp Core

List Price in Cents per Foot			Diam. Inches	Approx. Circum. Inches	Approx. Wgt. per Ft.	Breaking Strength in Tons of 2000 Lbs.		
Plow Steel	Cast Steel	Iron				Plow Steel	Cast Steel	Iron
\$.65	\$.43	\$.33	1	3 3/8	1.10	20.1	16.7	8.6
.55	.36	.27	3/4	2 3/4	.84	15.6	13.0	6.6
.45	.30	.22	3/4	2 1/2	.62	11.7	9.7	5.1
.36	.24	.17	5/8	2	.43	8.28	6.9	3.5
.29	.20	.14	1/2	1 3/4	.35	6.73	5.6	3.02
.26	.17	.11 1/2	3/4	1 3/8	.28	5.33	4.46	2.39
.23	.15	.10	3/4	1 1/2	.21	4.13	3.44	1.91
.21	.14	.09	3/4	1 1/8	.16	3.05	2.54	1.40
.18	.12 1/2	.08	3/4	1	.11	2.13	1.77	.977
.16	.11	.07 1/2	1/2	3/4	.07	1.36	1.14	.625
.....	.10	.07	3/4	5/8	.039	.....	.65	.35

NOTE—When ropes named above are galvanized add 25% to above lists and apply bright rope discount.

Extra Pliable Hoisting Rope



Composed of 6 Strands and a Hemp Center,
37 Wires to the Strand
"BLUE CENTER" STEEL
Reg. U. S. Pat. Off.

List Price per Foot	Diam. Inches	Approx. Circum. Inches	Approx. Weight per Foot	Breaking Strength in Tons of 2000 Lbs.	Proper Working Load in Tons of 2000 Lbs.
\$6.10	3 1/2	11	19.	451.	
5.25	3 1/4	10 1/4	16.37	392.	
4.50	3	9 3/8	13.95	337.	
3.75	2 3/4	8 5/8	11.72	285.	
3.15	2 1/2	7 7/8	9.69	237.	
2.75	2 1/4	7 1/4	7.85	194.	
2.40	2 1/8	6 5/8	7.	174.	
2.10	2	6 1/4	6.20	155.	
1.90	1 7/8	5 5/8	5.45	137.	
1.75	1 3/4	5 1/2	4.75	119.5	
1.45	1 5/8	5 1/8	4.09	103.3	
1.25	1 1/2	4 3/4	3.49	88.2	
1.05	1 3/8	4 3/8	2.93	74.3	
.86	1 1/4	3 7/8	2.42	61.5	
.75	1 1/4	3 1/2	1.96	49.9	
.59	1	3 1/8	1.55	39.5	
.46	7/8	2 3/4	1.19	30.5	
.36	3/4	2 1/8	.87	22.8	
.27	5/8	2	.61	16.1	
.23	1/2	1 3/4	.49	13.2	
.20	1/2	1 1/4	.39	10.6	
.18 1/2	1/2	1 1/8	.30	8.3	
.17 1/2	3/8	1 1/4	.22	6.1	

Approximately one-fifth of the breaking strength

Copper, Iron, Tinned and Galvanized Sash Cords



Composed of 6 Strands and a Cotton Center,
7 Wires to the Strand

Copper	Tinned or galv. iron	Iron	Diameter in inches	Weight per foot in lbs.		Breaking Strength in pounds			
				Copper	Iron	Copper	Iron	Ann. Iron	
10 1/2	4	3	1/2	0.108	0.094	1,225	760	2,040	1,225
8	3 1/2	2 3/4	3/4	0.083	0.072	940	580	1,570	940
6 1/2	3	2 1/4	5/8	0.061	0.053	688	425	1,150	688
5 1/2	2 3/4	2	3/4	0.044	0.038	478	295	840	478
4 1/4	2 1/4	1 3/4	1/2	0.026	0.023	306	190	560	306
3	2	1 1/4	3/8	0.015	0.013	172	105	315	172
2 3/4	1 3/4	1 1/4	3/8	0.007	0.006	77	48	140	77

Annealed cords same price as Hard Drawn Cords.
Tinned or Galvanized Iron Sash Cord has same breaking strength as Annealed Iron.

When ropes named above are galvanized add 25% to above list prices and apply bright rope discount.

Mooring or Anchor Chain

GALVANIZED



Fig. 560

PROOF

Size Inches	Outside Length Inches	Outside Width Inches	Weight Per 100 Ft. Lbs.	Proof Test Lbs.	Price Per Foot
$\frac{3}{16}$	$1\frac{25}{16}$	$\frac{3}{16}$	40	1,045	\$.08
$\frac{1}{4}$	$1\frac{11}{16}$	$\frac{1}{16}$	70	1,800	.13
$\frac{5}{16}$	$1\frac{11}{16}$	$\frac{1}{16}$	105	2,720	.18
$\frac{3}{8}$	$2\frac{3}{16}$	$\frac{1}{16}$	158	3,720	.24
$\frac{7}{16}$	$2\frac{5}{16}$	$\frac{1}{16}$	210	5,000	.33
$\frac{1}{2}$	$2\frac{5}{16}$	$1\frac{1}{8}$	265	6,600	.37
$\frac{9}{16}$	$2\frac{11}{16}$	$2\frac{1}{16}$	335	8,200	
$\frac{5}{8}$	$3\frac{3}{16}$	$2\frac{3}{16}$	410	10,000	.57
$\frac{3}{4}$	$3\frac{1}{16}$	$2\frac{1}{16}$	580	14,150	.79

$\frac{3}{4}$ in. and Larger, Proof and all BBB Prices on Application

BBB

Size Inches	Outside Length Inches	Outside Width Inches	Weight Per 100 Ft. Lbs.	Proof Test Lbs.	Approx. Breaking Strain Lbs.
$\frac{3}{16}$	$1\frac{7}{16}$	$\frac{1}{16}$	43	1,300	2,600
$\frac{1}{4}$	$1\frac{11}{16}$	1	78	2,250	4,500
$\frac{5}{16}$	$1\frac{11}{16}$	$\frac{3}{16}$	115	3,400	6,800
$\frac{3}{8}$	$1\frac{23}{16}$	$\frac{1}{16}$	166	4,650	9,300
$\frac{7}{16}$	$2\frac{3}{8}$	$1\frac{3}{8}$	220	6,250	12,500
$\frac{1}{2}$	$2\frac{13}{16}$	$1\frac{13}{16}$	295	8,250	16,500
$\frac{9}{16}$	$2\frac{3}{4}$	$1\frac{13}{16}$	350	10,250	20,500
$\frac{5}{8}$	3	$2\frac{3}{16}$	430	12,500	25,000
$\frac{3}{4}$	$3\frac{1}{16}$	$2\frac{1}{16}$	615	17,700	35,400

Bronze Backing Chain

For rudder duty; made of solid bronze, will not corrode in fresh or salt water.



Fig. 560B

Size Inches	Per Foot	Size Inches	Per Foot
$\frac{1}{8}$	\$1.10	$\frac{1}{8}$	\$2.35
$\frac{1}{16}$	1.40	$\frac{3}{8}$	4.10
$\frac{1}{4}$	1.95		

Sash Chain

BRONZE METAL AND GALVANIZED IRON



Fig. 565

No.	Size	Bronze Per Foot	Galv. Per Foot	Size Link Inches
No. 40		\$.12	\$.06	$\frac{1}{16} \times \frac{1}{16}$
No. 50		.18	.10	$\frac{3}{8} \times \frac{1}{16}$
No. 60		.27	.16	$\frac{1}{4} \times \frac{1}{16}$

Single Jack Chain



Fig. 563

No.	List Per 100 Ft.		Brass
	Plain Steel	Hot Galvanized	
18	\$1.50		\$ 2.50
16	1.65		3.50
14	1.90		5.50
12	2.25	\$4.25	8.00
10	2.75	4.75	12.00
8	3.25	5.25	18.00
6	4.50	6.50	27.75
5	5.50	7.50	35.00

Packed
Cartons 50 ft. each — Reels 250 ft. each.

Elwel Machine Chain

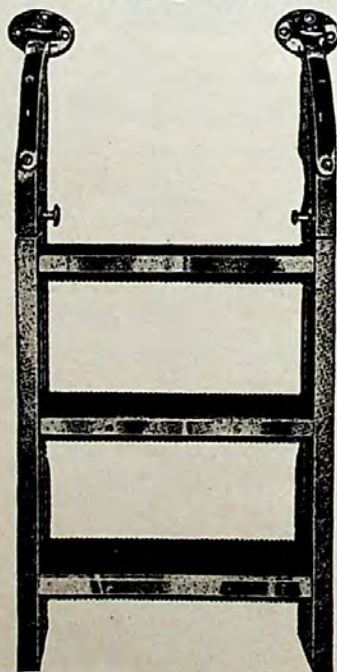


Fig. 567

TWIST LINK
HOT GALVANIZED OR BRIGHT FINISH

No.	Diam. Inches	Links per Ft.	Wgt. per 100 Ft. Pounds	Tensile Strength	Price per 100 Ft.
5	$\frac{7}{16}$	25	10	620	\$ 7.25
4	$\frac{1}{8}$	23 $\frac{1}{2}$	13	750	7.25
3	$\frac{9}{16}$	21 $\frac{1}{2}$	16	875	7.25
2	$\frac{5}{16}$	21	20	1000	7.25
1	$\frac{3}{16}$ +	20	25	1140	7.25
1-0	$\frac{1}{4}$	17 $\frac{1}{2}$	29	1310	7.25
2-0	$\frac{1}{16}$	16 $\frac{1}{2}$	34	1510	8.00
3-0	$\frac{13}{16}$	15	40	1760	8.25
4-0	$\frac{1}{4}$	14	43	1990	9.25
5-0	$\frac{1}{4}$	12	57	2660	13.75

Boarding Ladders



6 step with Bronze Fittings \$30.00
6 step with Chrome Fittings 35.00

Shut-Off Cocks

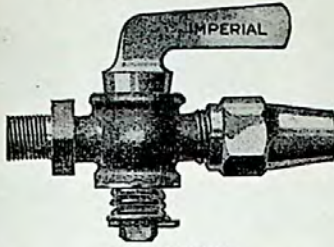
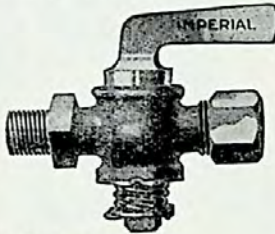


Fig. 1537M

Size Inches	Price Each
1/4 O.D. x 1/8 P.T.	\$1.30
3/8 O.D. x 1/8 P.T.	1.30
1/2 O.D. x 1/4 P.T.	1.45
3/4 O.D. x 1/8 P.T.	1.45



Size Inches	Price Each
1/4 O.D. x 1/8 P.T.	\$1.30
3/8 O.D. x 1/8 P.T.	1.30
1/2 O.D. x 1/4 P.T.	1.45

Air Cocks and Drain Cocks

STRAIGHT NOSE
MALE ENDS

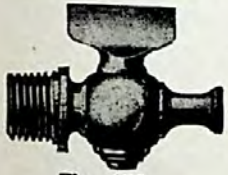


Fig. 461

Size Inch	Tee Handle Each
1/8	\$.45
1/4	.65

MALE—BOTH ENDS

Size Inch	Tee Handle Each
1/8	\$.98
1/4	1.25



Fig. 1537A

BIBB NOSE



Fig. 1537E

Size Inch	Lever Handle Each
1/8	\$.65
1/4	.70
3/8	.80

FEMALE—BOTH ENDS

Size Inch	Tee Handle Each
1/8	\$.50
1/4	.53
3/8	.65



Fig. 1537D

Priming Cups

CAST BRASS WITH BRASS HANDLES

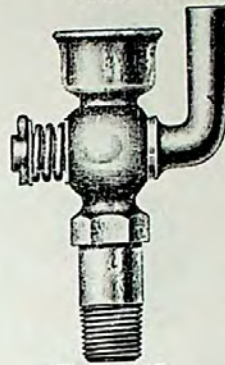


Fig. 1538S

Size	Diam. Bowl	Straight Each	Angle Each
1/8	5/8	\$.32	\$.44
1/4	5/8	.35	.46

CAST BRASS WITH FIBRE HANDLES

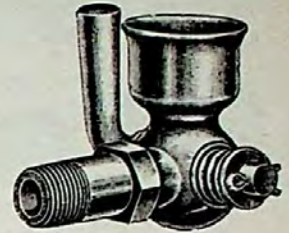


Fig. 1538T

Fig. 2209



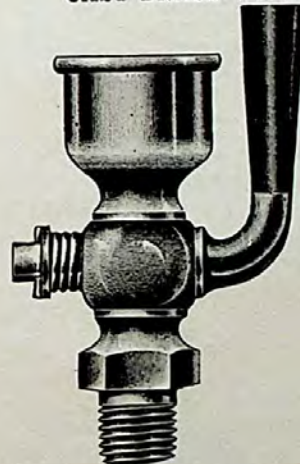
Fig. 2208

Size	Diam. Bowl	Straight Each	Angle Each
1/8	5/8	\$0.50	\$0.62
1/4	5/8	.55	.68

CAST BRASS WITH LARGE BOWL AND FIBRE HANDLES

Cast brass priming cup with an extra large bowl and a fibre handle. Holds a real prime and will not burn the fingers like a brass handle.

Straight or Angle



Pipe Size Inches	Diam. of Cup Inches	Straight Each	Angle Each
1/8	1	\$.80	\$.76
1/4	1	.84	.78

Fig. 2219

Horizontal Check Valves

These checks are made of the best bronze compositions and are guaranteed for a working pressure of 100 pounds.

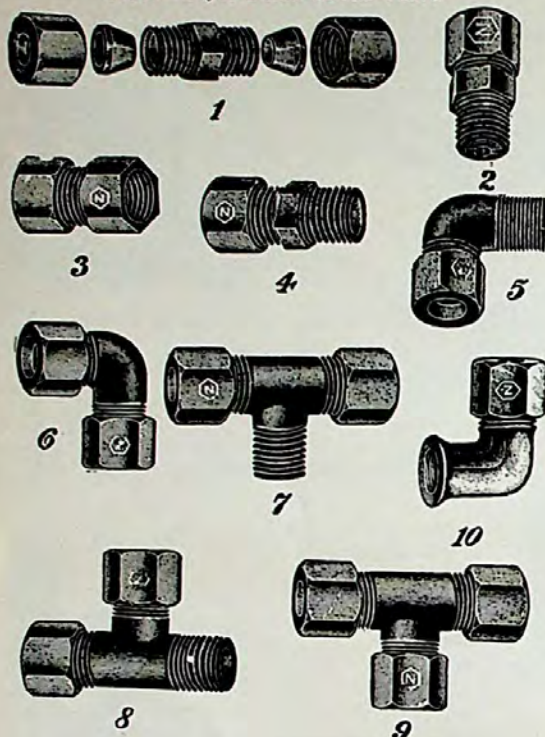


Fig. 1538F

Size Inches	Price	Size Inches	Price
1/4	\$1.60	1/2	\$2.16
3/8	1.75	3/4	2.75
		1	3.20

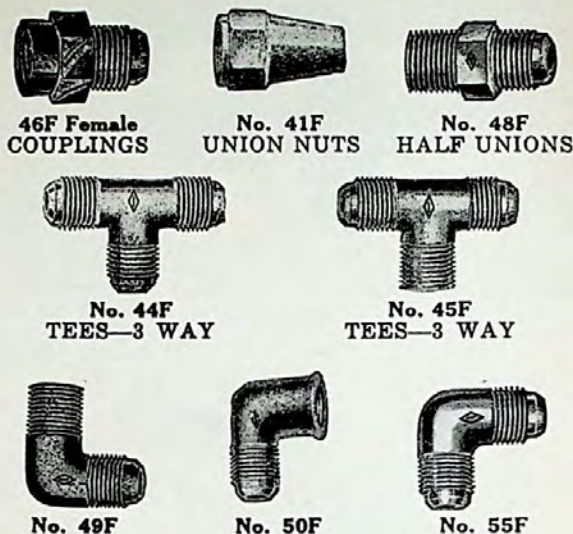
Brass Compression Couplings

Note—Style 2 has Check Valve



Style No.	PRICE EACH			
	Tubing Size, Inches			
	¼	⅜	½	¾
1	\$.19	\$.21	\$.29	\$.57
2	.27	.30	.38	.75
3	.14	.17	.24	.44
4	.12	.14	.19	.38
5	.16	.17	.23	.45
6	.22	.24	.30	.63
7	.26	.29	.38	.75
8	.26	.29	.38	.75
9	.33	.36	.45	.90
10	.16	.18	.27	.56
Nut	.04	.05	.06	.11
Sleeve	.02	.02	.02	.04

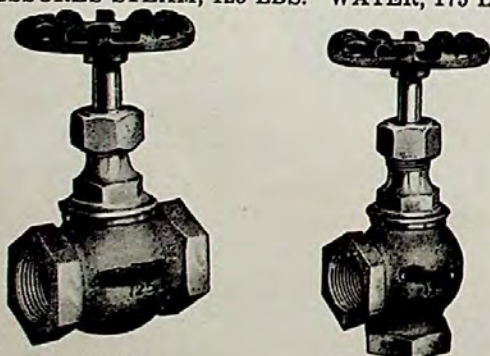
Flared Tube Fittings



Style No.	PRICE EACH			
	Tubing Size, Inches			
	¼	⅜	½	¾
41-F	\$.07	\$.09	\$.15	\$.24
44-F	.29	.30	.40	.50
45-F	.28	.29	.38	.45
46-F	.10	.12	.18	.27
48-F	.06½	.08	.12½	.20
49-F	.11	.12	.19	.31
50-F	.22½	.25½	.55½	1.05
55-F	.20	.22	.30	.41

Nuts are not included in above prices.

Globe and Angle Valves
FOR STEAM, WATER, GAS OR OIL
PRESSURES STEAM, 125 LBS. WATER, 175 LBS.



Size Inch	Each	Size Inches	Each
¼	\$1.80	¼	\$1.80
⅜	1.90	⅜	1.90
½	2.40	½	2.40
¾	3.00	¾	3.00
1	3.60	1	3.60

Snap Lever Sight-Feed Oiler

No.	Capacity Oz.	Shank Pipe Thread Inches	Brass Finish Each	Nickel Plated Each
0	5/8	1/8	\$ 3.00	\$ 3.50
1	1	1/4	3.25	3.75
1½	1½	1/4	3.50	4.00
2	2½	3/8	3.75	4.25
3	4	3/8	4.25	4.75
4	5	3/8	5.25	5.75
5	10	1/2	7.25	8.00
6	Pint	1/2	9.25	10.25
7	Quart	3/4	13.00	14.00



Fig. 1540A

Seamless Copper Tubing

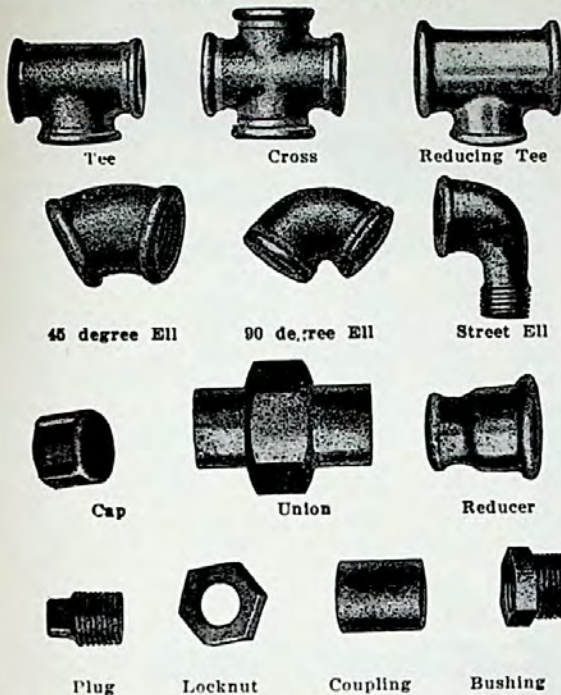
ANNEALED



Pure high grade copper; thoroughly annealed; can be bent without breaking. Suitable for air, gasoline or oil lines in conjunction with solderless fittings.

Outside Diameter Inches	Approx. No. of Feet in a Pound	Per Foot
1/4	15	\$.06
1/4	12	.08
5/16	10	.10
3/8	8	.12
1/2	6	.15

Brass Pipe Fittings



Size Inches	1/4	3/8	1/2	3/4	1
Close	\$.11	\$.13	\$.15	\$.23	\$.28
1 1/2 long	.13	.16	.19	.25	.30
2 long	.15	.19	.23	.30	.35
2 1/2 long	.17	.22	.27	.35	.42
3 long	.19	.25	.31	.40	.49

Size	Plugs	Cross	Caps	Locknuts
1/8	\$.08	\$.25	\$.10	\$.10
1/4	.10	.30	.13	.10
3/8	.12	.40	.16	.12
1/2	.15	.55	.20	.15
3/4	.20	.80	.30	.20
1	.30	1.25	.42	.28

Size	Tees	Street Elbows	45 degrees Elbows	90 degrees Elbows
1/8	\$.17	\$.25	\$.16	\$.12
1/4	.21	.27	.20	.15
3/8	.28	.33	.25	.20
1/2	.40	.48	.31	.28
3/4	.55	.63	.40	.40
1	.85	.85	.63	.63

Size	Union	Coupling	Reducer	Bushing
1/8	\$.45	\$.10	\$.00	\$.00
1/4	.55	.13	.15	.10
3/8	.75	.17	.20	.12
1/2	.95	.25	.28	.15
3/4	1.30	.37	.40	.22
1	1.75	.55	.60	.35



Grease Cups
HEAVY CAST BRASS
Screw Feed

No.	Capacity (Grease) Oz.	Pipe Thread Inches	Inside Diam. Inches	Brass Finish Price Each	Nickel Plated Price Each
00	1/3	1/8	1	\$1.00	\$1.20
0	1	1/4	1 1/4	1.20	1.45
1	1 1/2	3/8	1 1/2	1.60	1.90
2	3	1/2	2	2.00	2.40
3	6	3/4	2 1/2	2.80	3.40
4	10	1	3	4.00	4.75

Round Hot Galvanized Iron Rod



Fig. 2571

Diam. Inches	Approximate Weight per Foot	Price Per Foot
1/4	.175	\$.04
3/16	.274	.05
1/8	.394	.07
1/4	.537	.10
3/8	.701	.12
1/2	1.095	.15
5/8	1.577	.22
3/4	2.182	.33
7/8	2.803	.40

Pound Price on Application

Hot Galvanized Iron and Brass Half Oval

Size Inches	Weight per Ft. Lbs.	Galv. Iron Price per Foot	Brass per Foot
3/8 x 3/8	.104	\$.05	\$.10
1/2 x 1/8	.167	.07	.15
5/8 x 1/8	.312	.08	.24
3/4 x 1/4	.508	.12	.32
7/8 x 1/4	.584	.18	.42
1 x 1/4	.650	.20	.50
1 1/4 x 3/8	1.250	.25	.70
1 1/2 x 3/8	1.500	.30	
1 3/4 x 1/2	2.150	.35	
2 x 1/2	2.620	.40	

Pound Price on Application

Hot Galvanized Iron and Brass Half Round

Size Inches	Weight per Ft. Lbs.	Galv. Iron Price per Foot	Brass per Foot
3/8	.187	\$.06	\$.15
1/2	.334	.09	.25
5/8	.522	.11	.35
3/4	.750	.13	.50
7/8	1.022	.20	.70
1	1.355	.25	.90
1 1/4	2.087	.30	
1 1/2	3.000	.35	

Pound Price on Application

Square Brass For Key Stock

Size Inches	Price per Foot
1/8	\$.35
1/4	.35
3/8	.35

Prices on 12-ft. lengths on application.

Tobin Bronze Shafting

All diameters and lengths. Taperings, threading and keyseating. Stock lengths 6, 8, 10 and 12 feet.

Price on Application
APPROXIMATE WEIGHT PER FOOT

Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.
5/8	1.19	1 1/4	4.47	1 7/8	10.06
3/4	1.61	1 3/8	5.41	2	11.45
7/8	2.19	1 1/2	6.44	2 1/4	14.50
1	2.86	1 5/8	7.56	2 3/8	16.14
1 1/8	3.62	1 3/4	8.76	2 1/2	17.88

Monel Metal Shafting

Price on Application

Drills



Fig. 1219

JOBBER'S DRILLS

Diam. Inch	Price per Dozen		Diam. Inch	Price per Dozen	
	Carbon Steel	High Speed		Carbon Steel	High Speed
1/16	\$1.60	\$3.00	19/64	\$ 4.00	\$ 9.00
5/64	1.65	3.10	5/16	4.35	9.75
3/32	1.70	3.20	21/64	4.70	10.75
7/64	1.75	3.40	11/32	5.05	11.75
1/8	1.80	3.60	23/64	5.50	12.75
9/64	1.85	3.90	3/8	6.00	13.75
5/32	1.90	4.20	25/64	6.50	15.00
11/64	2.00	4.50	13/32	7.00	16.25
3/16	2.25	4.85	27/64	7.75	17.50
13/64	2.50	5.25	7/16	8.50	18.75
7/32	2.75	5.75	29/64	9.25	20.00
15/64	3.00	6.25	15/32	10.00	21.25
1/4	3.25	6.75	31/64	11.00	22.75
17/64	3.50	7.50	1/2	12.00	24.25
9/32	3.80	8.25			

Hand Taps
CARBON STEEL



Fig. 1134

Bolt Size	Threads Per Inch	Price Per Set	Bolt Size	Threads Per Inch	Price Per Set
1/4	20	\$1.35	1	8	\$ 6.00
5/16	18	1.50	1 1/8	7	6.75
3/8	16	1.65	1 1/4	7	7.80
7/16	14	1.80	1 3/8	6	9.00
1/2	13	2.10	1 1/2	6	10.50
5/8	12	2.40	1 5/8	5 1/2	12.60
3/4	11	2.70	1 3/4	5	15.00
7/8	11	3.15	1 7/8	5	17.40
1	10	3.60	2	4 1/2	20.10
1 1/8	10	4.20			
1 1/4	9	4.80			
1 1/2	9	5.40			

SHIP AUGERS

WITH AND WITHOUT WORM



Fig. 1212

Length of Twist of regular Ship Augers, measure: 4 and 4 1/2—8ths, about 11 in.; 5—8ths, about 11 1/2 in.; 5 1/2, 6, 6 1/2, 7—8ths, about 12 in.; 7 1/2—8ths, about 12 1/2 in.; 8, 8 1/2, 9—8ths, about 13 in.; 9 1/2—8ths, about 13 1/2 in.; 10 to 12—8ths, about 14 in. Shanks measure from 4 to 6 inches in length.

Size, inches, 8ths	LIST PRICE PER DOZEN							
	2 to 5	5 1/2 & 6	6 1/2 & 7	7 1/2 & 8	8 1/2 & 9	9 1/2 & 10	10 1/2 & 11	11 1/2 & 12
With Screw per Dozen	\$11.00	\$12.00	\$13.00	\$14.50	\$16.00	\$18.00	\$20.00	\$23.00
Without Screw per Dozen	13.20	14.40	15.60	17.40	19.20	21.60	24.00	27.60

Files



Fig. 1275

LIST PRICES PER DOZEN

Inch	Mill			Mill 1 R. E.		Mill 2 R. E.		Mill Blunt		Inch	Tapers		Slim Tapers	Extra Slim Tapers	Inch	Double Ender
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Bast.	2d Cut	Bast.	2d Cut		Single Cut	Double Cut				
4	\$ 3.00	\$ 3.50								4	\$2.20	\$2.90	\$2.20	\$2.20	4	
6	3.50	4.00	\$ 4.50	\$ 3.90	\$4.50	\$4.40	\$ 5.00	\$3.90	\$4.60	5	2.60	3.50	2.50	2.50	6	\$3.50
8	4.30	4.90	5.40	4.80	5.50	5.40	6.10	4.90	5.80	6	3.40	4.70	3.10	3.10	8	3.90
10	5.60	6.40	7.00	6.30	7.20	7.00	8.00	6.70	7.80	7	4.30	5.60	3.80	3.80	10	4.90
12	7.50	8.60	9.40	8.40	9.70	9.40	10.80			8	5.40	6.70	4.50	4.50	12	6.00
14	10.70	12.20	13.10	12.00						10	8.10		6.40			
16	14.70	16.80	17.90							12	12.50		9.50			
18	20.20															

Inch	Flat			Hand			Square			Inch	Half Round			Round			Inch
	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth		Bast.	2d Cut	Smooth	Bast.	2d Cut	Smooth	
4	\$ 3.70	\$ 4.30	\$ 4.70	\$ 3.70	\$ 4.30	\$ 4.80	\$ 3.80	\$ 4.60	\$ 4.90	4	\$ 4.80	\$ 5.60	\$ 6.10	\$ 3.00	\$ 3.50	\$ 3.90	4
6	4.30	4.80	5.30	4.30	5.10	5.60	4.60	5.10	5.50	6	6.10	6.70	7.10	3.50	4.00	4.50	6
8	5.30	6.10	6.60	5.40	6.30	6.70	5.50	6.30	7.00	8	7.50	8.30	8.90	4.30	4.90	5.40	8
10	7.00	8.10	8.70	7.50	8.70	9.40	7.40	8.50	9.10	10	9.10	10.10	10.70	5.60	6.40	7.00	10
12	9.70	11.00	12.10	10.70	12.30	13.50	10.20	11.50	12.80	12	11.80	13.00	13.90	7.50	8.60	9.40	12
14	13.30	15.30	16.70	15.00	17.00	18.20	13.90	16.10	17.50	14	15.50	17.00	18.30	10.70	12.20	13.10	14
16	17.80	20.10	22.30	20.10	22.80	24.20	18.70	21.20	23.30	16	20.60	22.50	24.20	14.70	16.80	17.90	16
18	23.90	26.80	29.20	26.80	29.90	31.50	25.10	28.20	30.40	18	27.50	29.90	32.00	20.20	22.70	24.30	18
20	31.50	.....	.....	35.10	.....	.....	32.80	.....	.....	20	.....	.....	.....	27.40	.....	.....	20

Engineers' Wrenches



Fig. 1127
15° Angle—Single Head



Nos.	For U. S. Std. Bolt Inches	For Hex. Head Cap Screw Diam. Inches	Opening Milled Inches	Extreme Length Inches	Thick-ness Head Inches	Price Finished
00	1/8	1/8	3/8	3	3/8	\$.28
0	1/8	...	3/8	3 1/2	3/8	.30
1	1/4	...	1/2	4	1/4	.36
2	1/8	...	3/8	4 3/4	3/8	.44
3	3/8	...	1 1/8	5 3/8	3/8	.52
4	1/8	...	3/8	6 1/2	3/8	.64
5	1/2	5/8	3/4	7 1/2	3/8	.76
6	1/8	...	3/8	8 3/8	1/8	.92
7	5/8	...	1 1/8	9 1/4	1/2	1.14
8	3/4	1	1 1/4	11 1/8	3/8	1.50
9	7/8	...	1 3/8	13	3/8	2.30
10	1	1 3/8	1 5/8	14 3/4	3/4	3.20
11	1 1/8	...	1 7/8	16 1/2	3/4	4.20
12	1 1/4	...	2	18 1/2	3/4	5.70
13	1 3/8	...	2 1/8	20	1	7.30
14	1 1/2	...	2 3/8	22	1 1/8	9.20
15	1 5/8	...	2 5/8	24	1 1/8	11.20
16	1 3/4	...	2 3/4	25 1/2	1 3/8	13.40
16A	1 7/8	...	2 7/8	27	1 3/8	13.40
17	2	...	3 1/8	29 1/2	1 3/8	20.50

15° ANGLE—DOUBLE HEAD

Nos.	For U. S. Std. Nuts Inches	For Hex. Head Cap Screws Diam. Inches	Openings Milled Inches	Extreme Length Approx. Inches	Price Finished
21	1/8 & 1/8	1/8 & 1/8	3/8 & 3/8	4	\$.34
22	1/8 & 1/4	1/8 & 1/8	3/8 & 1/2	4 1/4	.42
23	1/8 & 1/4	1/8	3/8 & 1/2	4 3/8	.42
24	1/8 & 1/8	...	3/8 & 3/8	5	.50
25	1/4 & 1/8	1/8	1/2 & 3/8	5 1/2	.50
26	1/4 & 3/8	1/8	1/2 & 1/2	6	.62
27	1/8 & 3/8	...	3/8 & 1/2	6 1/2	.62
28	1/8 & 1/8	...	3/8 & 3/8	7	.74
29	3/8 & 1/8	...	1/2 & 3/8	7 1/2	.74
30	3/8 & 1/2	5/8	1/2 & 3/8	8	.90
31	1/8 & 1/2	5/8	3/8 & 3/8	8 3/4	.90
32	1/8 & 1/8	...	3/8 & 3/8	9 1/2	1.10
33	1/2 & 1/8	5/8	3/8 & 3/8	9 3/4	1.10
34	1/2 & 5/8	5/8	3/8 & 1 1/8	10 3/4	1.36
35	1/8 & 5/8	...	3/8 & 1 1/8	10 3/4	1.36
36	1/8 & 3/4	1	3/8 & 1 1/4	12	1.92
37	5/8 & 3/4	1	1 1/8 & 1 1/4	12	1.92
38	5/8 & 7/8	...	1 1/8 & 1 1/8	13 1/2	2.80
39	3/4 & 7/8	1	1 1/4 & 1 1/8	13 1/2	2.80
40	3/4 & 1	1 & 1 1/8	1 1/4 & 1 1/8	15 1/2	3.80
41	3/8 & 1	1 1/8	1 1/8 & 1 1/8	15 1/2	3.80
42	3/8 & 1 1/8	...	1 1/8 & 1 1/8	17	5.30
43	1 & 1 1/8	1 1/8	1 1/8 & 1 1/8	17	5.30
44	1 & 1 1/4	1 1/8	1 1/8 & 2	19	7.20
45	1 1/8 & 1 1/4	...	1 1/8 & 2	19	7.20
46	1 1/8 & 1 3/8	...	1 1/8 & 2 1/8	21	10.50
47	1 1/4 & 1 3/8	...	2 & 2 1/8	21	10.50
48	1 1/4 & 1 1/2	...	2 & 2 3/8	23	14.00
49	1 3/8 & 1 1/2	...	2 1/8 & 2 3/8	23	14.00
50	1 3/8 & 1 1/8	...	2 1/8 & 2 1/8	25	18.00

Rigid Pipe Wrenches

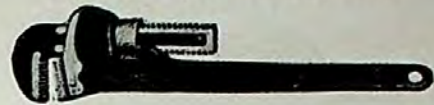


Fig. 1131

Outstanding in their superior strength, extra capacity and simplified construction.

Handle and Housing—Of one piece, electrically heat treated to a remarkably high tensile strength and guaranteed not to break.

Hook and Heel Jaws—Special analysis steel. Entire hook jaw heat treated.

A coil spring furnishes a perfect double action for the jaw which insures instant gripping and release. This type of spring guarantees the maximum in life and efficiency.

Size Inches	Each	Pipe Capacity Inches	Hook Jaw	Heel Jaw	Nut	Coll Spring
6	\$ 1.90	3/4	\$.65	\$.35	\$.15	\$.03
8	2.20	1	.70	.40	.15	.03
10	2.85	1 1/2	1.10	.50	.20	.03
14	3.85	2	1.50	.60	.30	.03
18	5.50	2 1/2	2.15	.70	.35	.04
24	9.50	3	3.50	.80	.55	.04
36	20.00	4 1/2	5.70	1.10	1.10	.04
48	30.00	6	9.00	2.00	2.00	.04

Pipe Wrenches

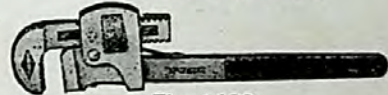


Fig. 1132

Length Inches	Takes Pipe Inches	Price Each	Length Inches	Takes Pipe Inches	Price Each
6	1/2 to 3/4	\$1.90	18"	1/4 to 2	\$ 5.50
8	3/4 to 1	2.20	24	1/2 to 2 1/2	9.50
10	1 to 1 1/4	2.85	36	3/4 to 3 1/2	20.00
14	1 1/4 to 1 1/2	3.85	48	1 to 5	30.00

Extra Parts for Stillson Wrenches

Lgth. In.	Jaws	Frames	Adj. Nuts	Wood Handles	End Nuts	Each Pins	Spring Springs	Bars With Rivets
6	\$.65	\$.45	\$.15	\$.23	\$.15	\$.03	\$.10	\$.01 \$1.00
8	.70	.55	.15	.25	.15	.03	.10	.01 1.15
10	1.10	.70	.20	.30	.20	.04	.30	.02 1.60
14	1.50	.80	.30	.36	.20	.04	.30	.02 2.20
18	2.15	.95	.35	...	...	.04	.30	.02 3.25
24	3.50	1.75	.55	...	...	.04	.33	.02 5.15
36	5.70	2.75	1.10	...	...	.05	.13	.02 10.50
48	9.00	3.50	2.00	...	...	.05	.13	.02 17.00

Machinists' Wrenches



Fig. 1139

Length Inches	Jaws Open Inches	Weight Lbs.	Per Doz.	Length Inches	Jaws Open Inches	Weight Lbs.	Per Doz.
6	1 1/8	9	\$15.00	15	2 1/8	64	\$38.00
8	1 3/8	16 1/2	18.00	18	3 3/8	88	48.00
10	1 7/8	30	22.00	21	4	121	58.00
12	2 1/8	40	28.00	...	...	...	...

Screw Drivers



Fig. 1133

Size Inches	Price Per Dozen	Size Inches	Price Per Dozen
2 1/2	\$3.00	7	\$ 7.00
3	3.50	8	8.00
4	4.25	9	9.00
5	5.00	10	10.00
6	6.00	12	12.00

Machinists' Vises
STATIONARY BASE

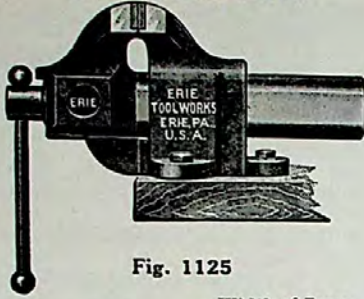


Fig. 1125

Vise No.	Each	Width of Jaws Inches	Opens Inches
102 1/2	\$ 9.00	2 1/2	3
103	10.00	3	3 1/2
103 1/2	11.25	3 1/2	4
104	12.75	4	5
104 1/2	15.50	4 1/2	6
105	20.00	5	7
105 1/2	30.00	5 1/2	8
106	39.00	6	9

Machinists' Vises
SWIVEL BASE

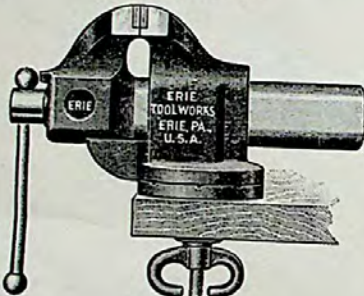


Fig. 1125A

Vise No.	Each	Width of Jaws Inches	Opens Inches
202 1/2	\$12.00	2 1/2	3
203	13.00	3	3 1/2
203 1/2	15.00	3 1/2	4
204	17.00	4	5
204 1/2	20.00	4 1/2	6
205	30.00	5	7
205 1/2	38.00	5 1/2	8
206	52.00	6	9

Standard Pipe Vises



Fig. 1125B

Vise No.	Each	Capacity Pipe Inches
00 H	\$ 2.50	1/8 to 1 1/4
0 H	4.25	1/8 to 2
1 H	5.00	1/8 to 2 1/2
2 H	7.50	1/8 to 3 1/2
3 H	11.00	1/8 to 4 1/2
4 H	23.50	1/8 to 6
5 H	47.50	1 to 8
6 H	70.00	1 1/2 to 12

Pistol Grip Hack Saw Frames



No. 153

Each \$1.75

Hack Saw Blades



Fig. 1114

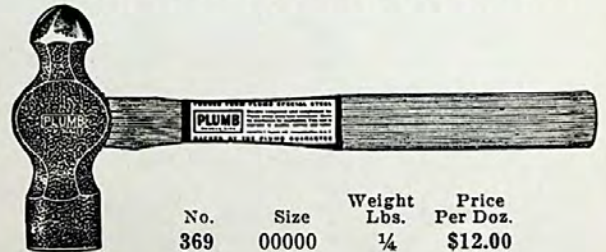
FLEXIBLE HAND BLADE
Hardened on teeth only.

STANDARD LIST—FLEXIBLE HAND BLADES				
Length Inches	Width Inches	Gauge Thickness	Teeth per Inch	List per Gross
8	1 1/8	23	18 24	\$ 8.00
10	1 1/2	23	18 24	10.00
12	1 1/2	23	18 24 32	12.00

HIGH SPEED HAND BLADES				
Length Inches	Width Inches	Gauge Thickness	Teeth per Inch	List per Gross
10	1 1/8	23	18 24	\$40.32
12	1 1/8	23	18 24	48.96

STANDARD LIST—HEAVY POWER BLADES				
Length Inches	Width Inches	Gauge Thickness	Teeth per Inch	List per Gross
12	3/4	18	14	\$24.48
14	1	18	10	38.08

Machinists' Ball Pein Hammers



No.	Size	Weight Lbs.	Price Per Doz.
369	00000	1/4	\$12.00
370	0000	3/8	12.00
371	000	1/2	12.00
372	00	3/4	12.00
373	0	1	15.00
374	1	1 1/4	15.00
375	2	1 1/2	15.00
376	3	1 3/4	18.00
377	4	2	18.00
379	6	2 1/2	21.00

Ship or Top Mauls



Fig. 1775

Size Lbs.	Each
4	\$1.44
5	1.52
6	1.80

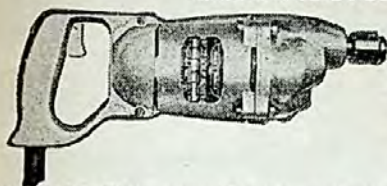
Chipping Hammers



Fig. 1778

Each \$1.00

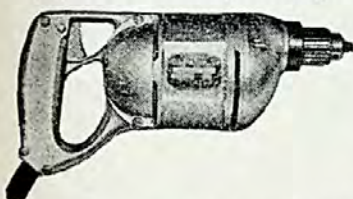
No. 12 and 22 Positive Clutch Screwdrivers



The No. 12 machine will drive a No. 12 wood screw, 2 in. long, in hardwood. The No. 22 machine will drive wood screws up to No. 16 by 3 1/4 in. long, lag screws up to 1/2 in. by 4 in., and nuts or bolts up to 3/8 in. in diameter. These capacities are predicated on the use of proper size lead holes. Both tools equipped with positive clutches.

	No. 12	No. 22
No load speed	500 R. P. M.	500 R. P. M.
Net weight	6 3/4 lbs.	9 lbs.
Reversing Switch	\$10.00 extra	\$10.00 extra
Price, all voltages	\$58.00	\$72.00

1/4 in. Heavy Duty Electric Drill



This tool is recommended for continuous production service up to its maximum capacity in wood or steel. Ideal for driving small wire wheel brushes and rag buffs.

The armature shaft and spindle are mounted on ball bearings to carry the radial load and end thrust

imposed by the different applications for which this tool is designed. No load speed, 2000 R. P. M. 1/4 in. capacity in steel. Net weight, 6 3/4 lbs. Price complete for all voltages with geared chuck and key \$45.00 With portomatic keyless chuck and gear locking pin.... \$48.00

1/4 in. Junior Drill



A new quality drill for intermittent shop and maintenance use. Compo bearings. Jacobs chuck, thumb switch. No load speed, 1800 R. P. M. Net weight, 3 3/4 lbs. Length, 10 3/4 in. Price complete all voltages

\$19.95

Portable Electric Sanders



For all types of metal surfacing where file or emery have been used. Portable Electric Sanders greatly reduce operating time and produce smooth

er surfaces. The flexible disc adapts the unit to flat or curved surfaces and insures most efficient operation.

7 in. Junior Sander, for intermittent service in paint shops, metal working shops and foundries. Not recommended for continuous production use. No Load Speed, 3200 R. P. M. Net Weight, 7 3/4 lbs. Price Complete for all voltages \$39.50

7 in. Special Sander. Amply powered and constructed for constant production service on all types of metal and wood surfacing. No Load Speed, 4200 R. P. M. Net Weight, 12 1/2 lbs. Price Complete for all voltages \$53.00

7 in. Heavy Duty Sander. Powered for the most severe production demands in metal finishing. Steel gear case, and dust sealed commutator and switch compartments. No Load Speed, 4200 R. P. M. Net Weight, 14 1/4 lbs. Length, 18 in. Price Complete for all voltages \$75.00

9 in. Standard Sander, similar to the 7 in. Heavy Duty Sander in performance and design, is intended for large area, slow speed, intermittent work. No Load Speed, 3300 R. P. M. Net Weight, 14 3/4 lbs. Length, 18 3/4 in. Price Complete for all voltages \$78.00

All Sanders are equipped with flexible pad, detachable side handle and assorted sanding discs.

Universal Motor operates on either A. C. or D. C.

Counterbore

WOOD



Fig. 1215

Especially useful for boat builders and cabinet makers or any work which requires the use of a bung or plug

over the fastening. Made with 1/4 inch round shank for use in electric or breast drills. The plug cutter is of the extension lip type; the adjustable depth plug stop has a chip way allowing chips a free exit; fastening or center drill is regulation straight shank drill that is removable and adjustable as to depth. Tool steel construction.

Size Plug Inches		Each
3/8	No. 36 Drill—1/4 in. Shank	\$3.00
1/2	No. 32 Drill—1/4 in. Shank	\$3.50
5/8	No. 30 Drill—1/4 in. Shank	4.00
3/4	No. 25 Drill—3/8 in. Shank	5.00
1	No. 18 Drill—1/2 in. Shank	6.00

Countersink

The countersink, illustrated above has been designed especially for use in Electric Drills, where it is desired to use wood screws in any manner.



Fig. 1216

The tool drills the hole for the screw and also countersinks for the under side of the screw head at the same time.

The outside sleeve is an adjustable gauge for depth of drilling and countersinking. The length of drill is adjustable, and held in place by a set screw.

Inches		Each
1/2	No. 30 Drill—1/4 in. Shank	\$4.00
3/8	No. 18 Drill—1/8 in. Shank	5.00

Wood Plug Cutter



Fig. 1217

This tool is adapted for use in making wood plugs or dowels.

The plugs or dowels can be made in any length up to 2 inches.

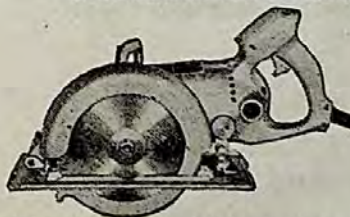
It has a 1/4 inch round shank for use in electric drill, hand drill, or ordinary drill press.

An especially handy tool for boat shops and the home work shop.

Made in following sizes:

3/8 in.	.....	\$2.50
1/2 in.	.....	3.00

Portable Electric Saws



Black & Decker Saws give smooth operation; high cutting speed; ample safety; long life, and will not overheat. Alloy steel gears and shafts throughout. Full ball bearing equipped. Shoe

adjustable from 0° to 45°. Saw blade entirely enclosed with a telescopic guard.

Made in three sizes:	5 in.	7 in.	9 in.
Depth of cut	1 3/4 in.	2 3/4 in.	3 3/4 in.
No Load Saw Speed	4200	3200	2500
Net Weight	11 1/4 lbs.	17 3/4 lbs.	26 lbs.
Price all Voltages	\$75.00	\$105.00	\$140.00

Universal Motors operate on either A. C. or D. C.

Wood Screws

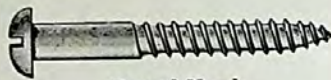
BRASS, BRONZE AND EVERDUR



Oval Head



Flat Head



Round Head

PRICE PER GROSS

1/4 Inch		3/8 Inch		1/2 Inch		3/4 Inch		1 Inch	
No.	Price	No.	Price	No.	Price	No.	Price	No.	Price
0	\$.64	0	\$.66	1	\$.78	2	\$.90	2	\$ 1.00
1	.66	1	.70	2	.84	3	1.00	3	1.10
2	.70	2	.76	3	.90	4	1.10	4	1.20
3	.76	3	.82	4	.98	5	1.25	5	1.35
4	.86	4	.90	5	1.10	6	1.40	6	1.50
		5	.98	6	1.25	7	1.60	7	1.75
		6	1.10	7	1.45	8	1.80	8	2.00
				8	1.65	9	2.05	9	2.25
						10	2.30	10	2.50
								11	2.75
								12	3.10

1/4 Inch		1 Inch		1 1/4 Inch		1 1/2 Inch		1 3/4 Inch	
No.	Price	No.	Price	No.	Price	No.	Price	No.	Price
4	\$ 1.40	4	\$ 1.50	6	\$ 2.20	6	\$ 2.45	8	\$ 3.65
5	1.55	5	1.65	7	2.50	7	2.80	9	4.10
6	1.75	6	1.85	8	2.80	8	3.20	10	4.60
7	2.00	7	2.15	9	3.20	9	3.60	11	5.20
8	2.25	8	2.40	10	3.60	10	4.00	12	5.85
9	2.50	9	2.70	11	4.00	11	4.55	14	7.40
10	2.75	10	3.00	12	4.45	12	5.10		
11	3.10	11	3.35	14	5.75	14	6.50		
12	3.45	12	3.80						
		14	4.90						

2 Inch		2 1/2 Inch		3 Inch		3 1/2 Inch			
No.	Price	No.	Price	No.	Price	No.	Price		
8	\$ 4.00	10	\$ 5.60	10	\$ 6.20	12	\$ 9.15	12	\$ 11.20
9	4.50	11	6.35	11	7.00	14	11.20	14	13.25
10	5.10	12	7.15	12	7.80	16	14.40	16	16.65
11	5.75	14	9.00	14	9.85	18	17.65	18	20.20
12	6.55	16	11.35	16	12.50				
14	8.15	18	13.60	18	15.10				
16	10.30								
18	12.45								

Hook Scraper No. 15



Fig. 1026

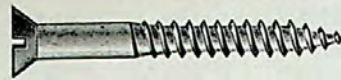
Price each \$.25
Extra Cutters10

Cabinet Scrapers

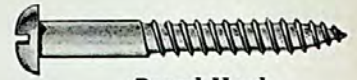
Nos.	Size Inches	Weight Per Dozen Lbs.	Per Dozen
OA	2 1/2 x 5	2	\$ 7.60
OB	3 x 4	2	7.50
OD	3 x 5	2 1/2	8.10
OE	3 x 6	3	9.40
OH	3 1/2 x 6	4	10.20

Wood Screws

HOT GALVANIZED AND PLAIN



Flat Head



Round Head

PRICE PER GROSS

1/4 Inch		3/8 Inch		1/2 Inch		3/4 Inch		1 Inch	
No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.
0 \$.30	0 \$.32	1 \$.34	2 \$.36	2 \$.38	3 \$.44	3 \$.46	4 \$.48	4 \$.48	5 \$.50
1 .30	1 .32	2 .34	3 .38	3 .40	4 .46	4 .46	5 .48	5 .48	6 .54
2 .30	2 .32	3 .36	4 .38	4 .40	5 .46	5 .46	6 .48	6 .48	7 .58
3 .32	3 .34	4 .36	5 .40	5 .42	6 .48	6 .48	7 .50	7 .50	8 .62
4 .32	4 .34	5 .36	6 .44	6 .46	7 .52	7 .52	8 .54	8 .54	9 .66
	5 .34	6 .40	7 .48	7 .50	8 .56	8 .56	9 .58	9 .58	10 .70
	6 .38	7 .44	8 .52	8 .54	9 .60	9 .60	10 .62	10 .62	11 .72
	7 .42	8 .48	9 .56	9 .58	10 .64	10 .64	11 .66	11 .66	12 .78
	8 .46	9 .52	10 .60	10 .62	11 .68	11 .68	12 .70	12 .70	14 1.10
		10 .56	11 .64	11 .66	12 .70	12 .70	14 1.05	14 1.10	16 1.40

1 1/4 Inch		1 1/2 Inch		1 3/4 Inch		2 Inch		2 1/2 Inch		2 3/4 Inch	
No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.	No. Prc.
4 \$.52	4 \$.60	6 \$.72	6 \$.78	6 \$.82	6 \$.90	8 \$ 1.10	8 \$ 1.10	8 \$ 1.10	8 \$ 1.10	8 \$ 1.10	8 \$ 1.10
5 .54	5 .62	7 .78	7 .84	7 .88	7 .96	9 1.05	9 1.05	9 1.05	9 1.05	9 1.05	9 1.05
6 .58	6 .66	8 .84	8 .90	8 .95	8 1.05	10 1.15	10 1.15	10 1.15	10 1.15	10 1.15	10 1.15
7 .62	7 .70	9 .90	9 1.00	9 1.05	9 1.15	11 1.25	11 1.25	11 1.25	11 1.25	11 1.25	11 1.25
8 .66	8 .75	10 .96	10 1.10	10 1.15	10 1.25	12 1.35	12 1.35	12 1.35	12 1.35	12 1.35	12 1.35
9 .70	9 .80	11 1.05	11 1.20	11 1.25	11 1.35	14 1.45	14 1.45	14 1.45	14 1.45	14 1.45	14 1.45
10 .76	10 .86	12 1.15	12 1.30	12 1.35	12 1.50	16 2.00	16 2.00	16 2.00	16 2.00	16 2.00	16 2.00
11 .84	11 .95	14 1.50	14 1.60	14 1.75	14 1.85	18 2.40	18 2.40	18 2.40	18 2.40	18 2.40	18 2.40
12 .92	12 1.05	16 1.90	16 2.00	16 2.20	16 2.40	20 3.00	20 3.00	20 3.00	20 3.00	20 3.00	20 3.00
14 1.25	14 1.35	18 2.30	18 2.40	18 2.60	18 2.80	24 3.60	24 3.60	24 3.60	24 3.60	24 3.60	24 3.60
16 1.65	16 1.70	20 2.70	20 2.80	20 3.10	20 3.30						
18 1.85	18 2.05	20 2.40	20 2.60	20 3.10	20 3.30						
	20 2.40										

3 Inch		3 1/2 Inch		4 Inch		4 1/2 Inch		5 Inch	
No. Price	No. Price	No. Price	No. Price	No. Price	No. Price	No. Price	No. Price	No. Price	No. Price
8 \$ 1.20	10 \$ 1.90	12 \$ 2.50	14 \$ 3.30	14 \$ 3.30	14 \$ 3.30	14 \$ 3.30	14 \$ 3.30	14 \$ 3.30	14 \$ 3.30
9 1.30	11 2.10	14 3.00	16 3.85	16 3.85	16 3.85	16 3.85	16 3.85	16 3.85	16 3.85
10 1.42	12 2.30	16 3.55	18 4.50	18 4.50	18 4.50	18 4.50	18 4.50	18 4.50	18 4.50
11 1.55	14 2.80	18 4.20	20 5.25	20 5.25	20 5.25	20 5.25	20 5.25	20 5.25	20 5.25
12 1.75	16 3.35	20 4.95	24 7.10	24 7.10	24 7.10	24 7.10	24 7.10	24 7.10	24 7.10
14 2.25	18 3.95	24 6.60							
16 2.80	20 4.55								
18 3.40	24 6.70								
20 4.00									
24 4.95									

Hook Scraper No. 25



NEW CUTTER MAGAZINE AND EXTRA CUTTER.

Fig. 1026-A

Strongly constructed and fast cutting. Furnished with pre-formed sharpened, removable cutters, manufactured from imported Swedish spring steel, formed while steel is soft, then hardened, tempered and ground to a razor edge.

Price each \$ 50
Extra Cutters15

Hook Scraper No. 3425

DOUBLE END

With removable, quick cutting cutters that can be re-sharpened easily or replaced with new cutters and pistol grip. One end has curved cutter 2 1/2 inches wide for rough or fast scraping. Other end has curved cutter for fine scraping. 3 1/4 inches wide. One in a carton.



Fig. 1026-B

Price each \$ 1.50
Extra Cutters, 2 1/2 in., each15
Extra Cutters, 3 1/4 in., each18

Galvanized Boat Nails

ROUND HEAD—BLUNT POINT



Fig. 1290

Size Inches	Price per Lb.	Size Inches	Price per Lb.	Size Inches	Price per Lb.
3/4	\$.20	2 1/4	\$.20	4	\$.20
1	.20	2 1/2	.20	4 1/2	.20
1 1/4	.20	2 3/4	.20	5	.20
1 1/2	.20	3	.20	5 1/2	.20
2	.20	3 1/2	.20	6	.20

Price in Keg Lots—On Application

Galvanized Wire Nails



Fig. 1292

Size	Length Inches	Price per Lb. All Sizes
2d	1	\$.12
3d	1 1/4	
4d	1 1/2	
5d	1 3/4	
6d	2	
7d	2 1/4	
8d	2 1/2	
9d	2 3/4	
10d	3	
12d	3 1/4	
16d	3 1/2	
20d	4	

Price on Larger Sizes, Price on Keg Lots—On Application

Galvanized Wire Brads



Fig. 1296

IN ONE POUND PACKAGES

Lgth. Inches	Wire Gauge Nos.	Per Lb.	Lgth. Inches	Wire Gauge Nos.	Per Lb.
3/4	18	\$.50	1 1/2	14	\$.30
1	16	.36	1 1/2	16	.30
1	18	.36	1 3/4	14	.29
1 1/4	14	.32	2	14	.29
1 1/4	16	.32			

Copper Wire Nails

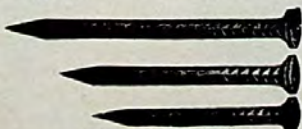


Fig. 1292C

Length Inches	Gauge Nos.	Price Per Lb.
1	15	\$.50
1 1/4	14	.45
1 1/2	13	.45
1 3/4	12	.40
2	12	.40

Copper Cut Nails



Fig. 1290G

Length, inches Per lb.	1	1 1/2	2	2 1/2	3
	\$.60	\$.60	\$.60	\$.60	\$.60

Galvanized Tacks



Fig. 1290B

Size Inch	Size Ounces	Price in 1-lb. Packages
3/8	3	\$.34
1/2	8	.32
5/8	10	.30
3/4	14	.30

Copper Tacks

Fig. 1290C

Size Inch	Size Ounces	Price in 1-lb. Packages
3/8	3	\$.65
1/2	8	.65
5/8	10	.65
3/4	14	.65

Copper Burrs



Fig. 1287-D

Put up in one pound boxes.

No.	Per Pound	No.	Per Pound	No.	Per Pound
4 to 7	\$.90	10	\$.90	13	\$.90
8	.90	11	.90	14	.90
9	.90	12	.90	15	.90

Escutcheon Pins

BRASS

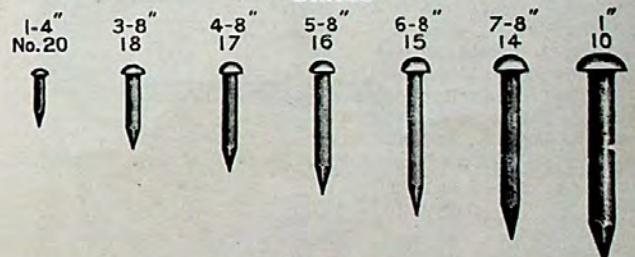


Fig. 1310

Per Pound—In 1 Pound Packages or in Bulk

Wire Gauge Nos.	Lengths Inches					
	1/2	3/4	1	1 1/4	1 1/2	1 3/4
10			\$.74	\$.72	\$.71	
12			.83	.79	.77	
14			\$.92	.85	.81	.80
15			.95	.90	.86	.84
16	\$1.10	\$1.03	.99	.94	.90	.88
17	1.25	1.17	1.10	1.00	.96	.94
18	1.35	1.27				

Coal and Wood Ranges



Fig. 940-Z

The new Shipmates have the solid panel type top with opening only over the firebox, and with grease trough extending completely around the top. Any Shipmate can be equipped to burn kerosene, and all models except the smallest, to burn fuel oil.

Shipmates can be supplied finished in vitreous enamel. Stock color is gray, but other standard colors can be furnished. Price of enameled ranges is slightly higher.

No.	Price	Size of Top	Height	Size of Oven
1011	\$21.20	21 3/4 x 15	20 1/2	9 x 9 x 7
1012	38.50	25 3/4 x 18 1/4	23	11 1/4 x 11 1/2 x 8 1/2
1014	48.40	25 3/4 x 24 1/4	25	11 1/4 x 14 x 8 1/2
1015	53.90	25 3/4 x 26 1/2	25	11 1/4 x 16 x 8 1/2
1016	62.34	30 1/2 x 28	26 1/2	14 x 16 x 10
124	72.60	30 x 24	27	16 1/2 x 16 1/2 x 10
125	86.90	32 3/4 x 25 1/2	28	19 1/2 x 18 x 11
1034	72.60	33 1/2 x 27	29 1/2	16 1/2 x 16 1/2 x 10
1035	86.90	37 x 29	30 1/2	19 1/2 x 18 x 11

Gasoline Tanks

GALVANIZED

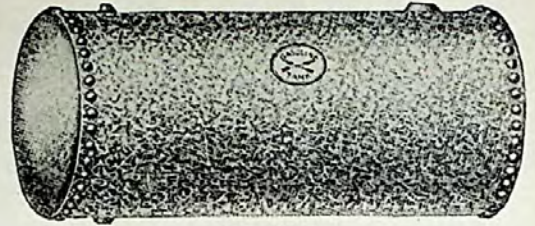


Fig. 1011A

Made especially for the storage of gasoline, naphtha and kerosene on boats.

"Koven" Tanks are galvanized with bottom out so that all tanks are thoroughly coated inside and free from dross or loose particles.

"Koven" Tanks are substantially constructed as a guarantee of safety and long life and to withstand the severe usage which marine tanks are subjected to.

Size Inches	Approx. Capacity Gallons	Tapped Filler	Vent and Outlet Inches	Weight Each Lbs.	Each
9x20	4 1/2	1	1/4	18	\$6.25
10x20	5 1/2	1	1/4	20	7.00
12x20	8	1 1/4	1/4	25	7.50
12x30	14	1 1/4	1/4	34	8.00
14x30	20	1 1/4	1/4	40	10.00
16x30	25	1 1/4	1/4	56	11.50
16x36	30	1 1/4	1/4	65	12.50
18x42	42	1 1/2	3/8	93	17.50
18x48	50	1 1/2	3/8	100	19.50
20x48	64	1 1/2	3/8	120	21.00
20x60	80	1 1/2	3/8	132	23.50
22x60	96	1 1/2	3/8	170	26.00
24x60	110	1 1/2	3/8	195	30.00

Note—Special size tanks made to order.

Copper Tanks Made to Order

Malleable Screw Clamps

Made of malleable iron, reinforced and so shaped as to give greatest strength for the metal used.

Large diameter steel screw with acme thread and with proper pitch to give greatest power; long bearing.



Fig. 1083

Opening Inches	Depth from Center of Screw Inches	Each
2 1/2	1 3/4	\$.50
3	1 7/8	.55
4	2 1/8	.60
5	2 1/2	.80
6	2 3/4	1.00
7	3	1.30
8	3 1/4	1.65
10	3 3/8	2.00
12	3 3/8	2.60

Eagle Flexo-Spout Can



No.	Gals.	Price	No.	Gals.	Price
71 1/2	1 1/4	\$2.50	M1	1	\$.90
72 1/2	2 1/2	3.50	M2	2	1.00
75	5	4.00	M3	3	1.20
			M5	5	1.40

No funnel needed. Cannot spill unless spout is in pouring position.



TYPE BM TIMERS WITH LEVER AND SECTOR

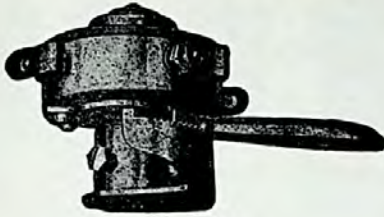


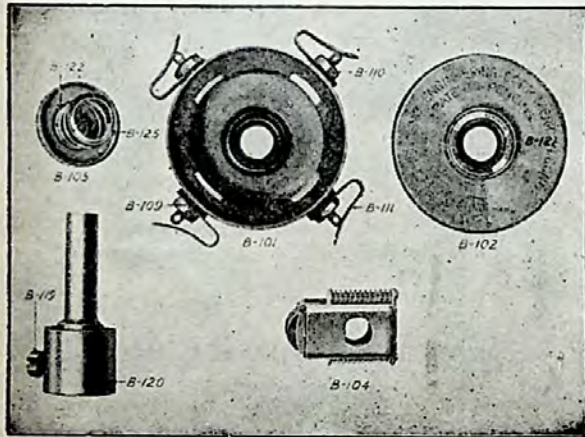
Fig. 961

PRICES

TYPE BM. Equipped with timing lever and sector bracket.

	Order by this No.		Order by this No.
1 Cyl.	\$4.40 1406	3 Cyl.	\$4.80 1409
2 Cyl. 180°	4.60 1407	4 Cyl.	5.00 1410
2 Cyl. 90°	4.60 1408		

When ordering state Catalogue Number. Furnished only for 1/2 in. shaft.



PRICES OF TIMER PARTS

First eight items below are Cases complete with Fibre Ring, Contacts, Ball Bearing and Terminals, as shown.

B1	1 Cyl. case (cut B-101)	\$2.00
B2	2 Cyl. case (cut B-101) contacts 90° or 180°	2.20
B3	3 Cyl. case (cut B-101)	2.40
B4	4 Cyl. case (cut B-101)	2.60
B1M	1 Cyl. case with lever	2.30
B2M	2 Cyl. case with lever, 90° or 180°	2.70
B3M	3 Cyl. case with lever	2.90
B4M	4 Cyl. case with lever	3.10
B102	Cover with ball bearing	.50
B103	Cap with screw	.20
B104	Roller arm complete	.50
B106	Contact post, with washers, spring B111	.20
B116	Fibre ring with spaces for contacts (state size)	.50
B119	Shaft set screw	.05
B120	Shaft (1/4-inch or 5/8-inch hole, state size)	.50
B122	Cap spring with cone B-125	.08
B126	Timing lever with rivets	.35
B127	Timing sector bracket or quadrant	.35

Bemus Marine Timer

No. 1400

1 Cylinder	\$5.00	3 Cylinder	\$6.00
2 Cylinder	5.50	4 Cylinder	6.50

Schebler Carburetors
MODEL D

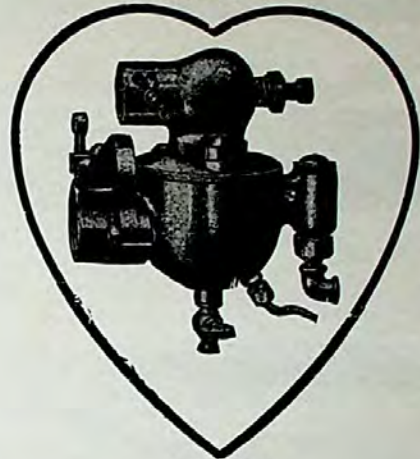


Fig. 512

The Model "D" is the original Schebler Carburetor, simple of adjustment, and is especially adapted for marine motors, single or double opposed motors, stationary engines, and all motors where extreme low throttling conditions are not required.

3/4-inch	\$15.00	1 1/4-inch	\$20.00
1 -inch	17.50	1 1/2-inch	25.00
		2 -inch	40.00

When this carburetor is used on a 2 cycle 2 port motor, a check valve must be used.

Price List of Repair Parts Model "D" Carburetor

When you order parts—give Symbol number and Size and Model of the carburetor. Regular Parts will be furnished unless you specify the make and model of the engine for which they are needed.

Symbol No.	Name of Part	3/4"	1"	1 1/4"	1 1/2"	2"
5	Carburetor Bowl	\$9.50	\$9.75	\$10.50	\$14.25	\$28.00
9	Bowl Cap and Gasket	.50	.60	.60	.60	.60
11	Air Valve Casting	5.85	5.85	5.85	7.15	9.00
16	Air Valve Spring	.40	.40	.40	.40	.40
26A	Drain Cock	.80	.80	.80	.80	.80
51	Needle Valve Complete	.50	.50	.50	.55	.80
53	Nozzle	.40	.40	.40	.50	.55
60	Float Assembly	1.00	1.00	1.00	1.35	3.00
61	Float Lever Bearing Pin	.05	.15	.15	.15	.15
62	Float Lever Bearing	.05	.05	.05	.05	.05
63	Float Valve	.80	.80	.80	.80	.80
65	Float Valve Retainer Nut	.20	.20	.20	.20	.30
92	Throttle Stop Adjusting Screw	.05	.05	.05	.05	.15
93	Clamp Screw for Throttle Adjusting Screw	.05	.05	.05	.05	.05
120	Leather Air Valve Disc	.60	.75	.75	1.00	1.20
121	Air Intake Shaft Complete	1.00	1.00	1.00	1.00	1.00
122	Gasoline Union	.25	1.00	1.00	1.00	1.20
123	Float Lever	.65	.75	.75	.75	.95
124	Lid	3.40	3.90	4.45	5.55	7.80
125	Air Valve Adjusting Screw	.50	.50	.50	.60	1.35
126	Cork Gasket for Lid	.15	.15	.15	.15	.15
127	Throttle Back	2.60	2.85	3.25	4.30	6.20
128	Throttle Front with Pipe Thread	3.95	4.25	4.90	7.15	9.75
129	Flusher Complete	In Bowl				
		Cover Ass. 1.00	1.00	1.00	1.35	
130	Lock Nut for Adjusting Screw	.35	.35	.35	.35	.35
131	Needle Valve Connection	.50	.50	.50	.50	.50
132	Lock Spring for Adjusting Screw	.25	.25	.25	.25	.25
133	Air Valve Cap Screw	.20	.20	.20	.25	.35
134	Float Washer and Screw	.40	.40	.40	.40	.40
135	Throttle Cap Screw	.15	.15	.15	.15	.35
136	Throttle Shaft Collar and Screw	Not used	.40	.40	.40	.40
137	Air Intake Disc	.25	.25	.25	.35	.35

Cable

**LACQUERED
LOW TENSION
IGNITION CABLE**
100 ft. Spool

No.	Gauge	Conductor	Price per Foot
346-5MM-2	braids	14 (19x27) tinned	\$.06

STARTING CABLE
(Bare Copper Core—
Concentric Stranding)
Weatherproof
Finish—25 ft.
Wrapped Coils

No.	Gauge	Conductor	Price per Foot
265-A	2	(127x23 O. D. .480)	\$.30
266-A	1	(127x22 O. D. .493)	.32
267-A	0	(127x21 O. D. .538)	.40
268-A	00	(127x20 O. D. .583)	.49

**SUPER DUTY
CABLE**

Black Weather-
proof Selse Twine
Braid

100 ft. Spool

No.	Gauge	Conductor	Price per Foot
66	16	1 (19x29 O. D. .165)	\$.04
67	16	2 (19x29 O. D. .200 x .285)	.07
68	14	1 (19x27 O. D. .190)	.05
69	14	2 (19x27 O. D. .225 x .350)	.09½
80	12	1 (19x25 O. D. .215)	.06
81	12	2 (19x25 O. D. .243 x .415)	.15
82	10	1 (19x23 O. D. .240)	.08

**DuPACK LOW
TENSION CABLE**

No.	Gauge	Conductor	Price per Foot
452	14	1 (41x30 O. D. .130) tinned	\$.04½

Cords

**RUBBER
TWIN-CORD**

100 ft. Spool

No.	Gauge	Conductor	Price per Foot
119	18	2 (42x34 O. D. .135 x .235)	\$.03½

**LIGHTING AND
GENERATOR
CABLE**

Braided and
Lacquered

100 ft. Spool

No.	Gauge	Conductor	Price per Foot
50	16	1 (19x29 O. D. .131)	\$.03
51	16	2 (19x29 O. D. .159 x .286)	.07
52	14	1 (19x29 O. D. .159)	.03½
52-B	14	1 (19x27 O. D. .150) black	.03½
52-C	14	1 (19x27 O. D. .150) chrome	.03½
52-G	14	1 (19x27 O. D. .150) green	.03½
52-R	14	1 (19x27 O. D. .150) red	.03½
52-Y	14	1 (19x27 O. D. .150) yellow	.03½
53	14	2 (19x27 O. D. .187 x .342)	.09
54	12	1 (19x25 O. D. .184)	.04½
56	10	1 (19x23 O. D. .200)	.06½
60-D	8	1 (49x25 O. D. .244) (50 ft.)	.11
61-D	6	1 (37x21 O. D. .312) (coil) (50 ft.)	.19

Braided Lac-Kard
100 ft. Spool

No.	Price per Foot
440 -7MM-"Four-Forty"	\$.10
324 -7MM-Chrome	.09½
330 -7MM-Dark blue	.09½
341-D -9MM-Brown, 2 braids (50 ft. spool)	.15½
-7MM-Brown	.09½
7MM-Black, 2 braids and tape	.11½

Wire Terminals

**RAJAH
Solderless-Bakelite**

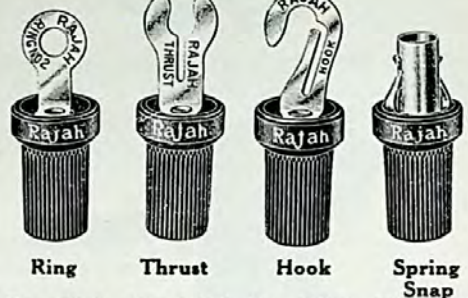


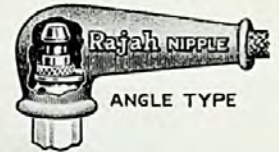
Fig. 1615 Fig. 1616 Fig. 1617 Fig. 1618

Terminal Type	Price Each
R-SOS No. 11—Ring	\$.16
T-SOS No. 11—Thrust	.18
H-SOS No. 11—Hook	.19
S-SOS No. 11—Spring Snap	.22

Spark Plug Hoods and Nipples



Bakelite Hoods
\$.12 Each



ANGLE TYPE



FOR 14 7/8
SPARK PLUG

Rubber Nipples
\$.12 Each

Champion Spark Plugs



Champion Spark Plug Type	Price Each
Champion X—for Model T Ford	\$.65
Champion 3X—for Model A Ford	.65
Champion C Type	.65
Champion Plugs—0 to 38	.65
Champion Racing R Type	.90
Champion Radio Plugs	.90
Special Plugs for Racing Outboard Motors	.90

Jump Spark Coil



A substantial, high grade coil, with spar varnished oak box, large windings, and a durable, thoroughly tested vibrator. The product of 30 years experience in coil manufacture.

Type L-1—Weight 2½ lbs. Price \$4.00

Taylor and Tycos Aneroid Barometers

The names Taylor and Tycos stand for the finest workmanship and materials in their line of scientific instruments.

Brass Case Aneroid Barometers for Seamen, Yachtsmen, Factories, Power Houses, and those engaged in Aviation



Fig. 1981
Closed Face
Style 2200

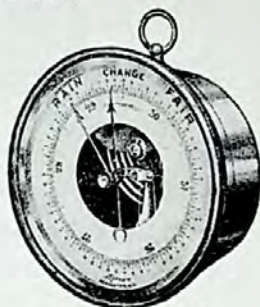


Fig. 1982
Open Center
Style 2250

- No. 2200—5-inch, each\$12.00
Lacquered 5-inch diameter case, white enameled dial.
- No. 2202—5-inch, each\$13.50
Same as 2200—5-inch, except with open center and lacquered movement.
- No. 2250—5-inch, each\$20.00
Best quality movement, compensated for temperature. Open face silver-metal dial.
- No. 2250—6-inch, each\$25.00
Same as 2250—5-inch, except 6-inch diameter.
- No. 2250-T—5-inch, each\$21.50
Same as 2250—5-inch, except with curved thermometer with F and C temperature scale fitted to lower part of dial.

YACHT BAROMETER

- No. 2230-L—5-inch, each\$20.00
Open-center silvered dial. Has 6 3/8-inch diameter flange at rear for screwing to wall or bulkhead.

YACHT BAROMETER

- No. 2230-APL—6-inch, each\$30.00
Same as 2230-L—5-inch, except 6-inch dial, 8-inch diameter flange and compensated for temperature.
- No. 2218—4 1/2-inch, each\$49.50
Cylindrical case. Precision grade movement with extra fine divided, hand-engraved metal dial, reading to .01 inch. In red morocco, velvet-lined case.

Taylor Yacht Pattern Stormguides



Fig. 1983

- No. 2232-B—Taylor Yacht Stormguide, each\$16.50
This handsome and inexpensive Taylor Barometer with the easy-reading Stormguide dial is designed for those who go down to the sea in ships, big or little. The brass case of steering wheel design has a 4 inch dial. Because it used a set-hand, this Taylor Stormguide is unaffected by ship's vibration or rough weather.
- No. 2232-C—Taylor Yacht Stormguide, each\$18.50
The instrument above, but in chromium.

Taylor Baroguide

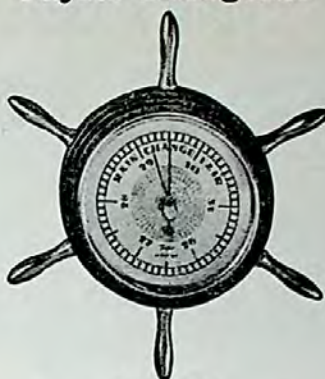


Fig. 1984

Yacht Baroguide

- No. 2283—Voyager Model. Here's an instrument to delight the sailor or anyone who loves nautical things. And who doesn't? Frame is solid walnut with brass pommels. Overall size is 6 in. The 2 1/4 in. dial is silver metal with bronze center in cloisonne effect.
Each\$7.00
- No. 2233—Walnut case Yacht Stormguide. Brass spokes and bezel, 3 3/4 in. silvered dial with weather instructions and graduations in black. Each in a box.
Each\$10.00



Fig. 1985

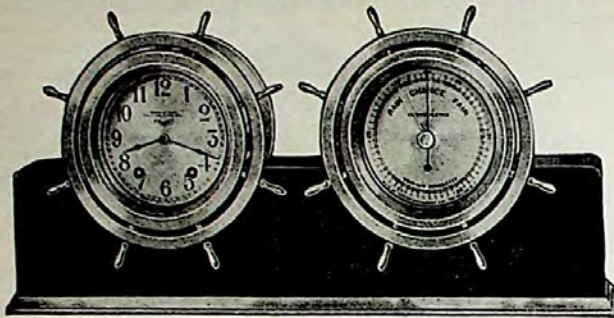
- No. 2257—Fairfax Stormguide. Moulded black bakelite case 5 in. square, two-toned chromium bezel. Two-toned silver dial. Good grade movement with automatic signal device. Black hand, figures and graduations. Each in a box.
Each\$10.00
- No. 2267—Taylor Stormguide, Stratford Model, each\$7.50
In dark-mahogany-finished frame; 4 inch grained-brass-finished dial; altitude adjustment to 3500 feet.
- No. 2268—Taylor Stormguide, Warwick Model, each\$10.00
In mahogany-finished frame; 4 inch grained-brass-finished dial; with bezel; good-grade movement; 4 1/2 inch range; fitted with signal device, and altitude adjustment to 3500 feet.



Fig. 1986

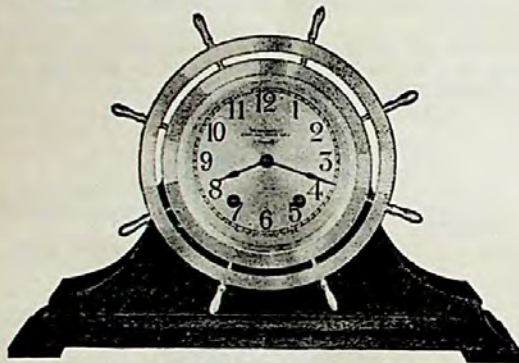
- No. 2231—Taylor Yacht Stormguide, each\$40.00
Grained-finish brass case; steering-wheel design, with 5 inch silvered-metal dial; 6 3/8 inch diameter drilled back flange. Best-grade movement, compensated for temperature. Each in card box.
- No. 2231-C—Each\$44.00
Same as above except chrome finish.

SETH THOMAS
FINE MARINE CLOCKS AND BAROMETERS



No. 2 REGATTA—\$135.00

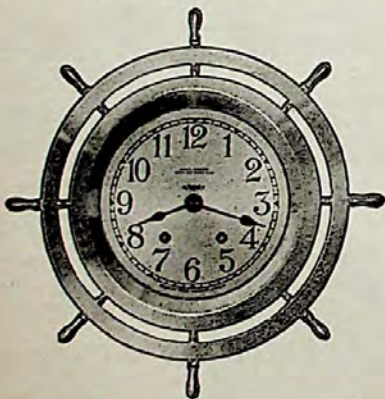
Ship's bell clock—barometer combination on base of solid mahogany. Barometer same as No. 3 Herald except has hinged bezel. Clock same as No. 44 Wheel Ship's Bell except has hinged bezel. Width 19 inches. Height 9 1/2 inches.



No. 2 MAYFLOWER—\$75.00

8-Day Ship's Bell Strike

Polished cast brass head with solid mahogany base. 7-jeweled fine lever movement. Etched dial. Height 8 3/4 inches. Width 13 inches.



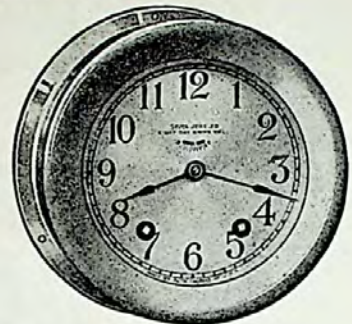
WHEEL BEZEL

Fully polished cast brass case with moistureproof screw bezel. Etched silverplated dial. 7-jeweled lever movement with Breguet hairspring and compensated balance.

8-Day Ship's Bell Strike

No.	Dial Size Inches	Diameter Inches	Retail
No. 44 Wheel	4	8 1/4	\$60.00
Wheel	5 1/2	10 3/8	70.00

Fig. C91



FINE MARINE CLOCKS
PLAIN BEZEL

Full polished cast brass case with moistureproof screw bezel. Etched silverplated dial. 7-jeweled lever movement with Breguet hairspring and compensated balance.

8-Day Ship's Bell Strike

No.	Dial Size Inches	Diameter Inches	Retail
**No. 44	4	5 3/4	\$50.00
No. 66	5 1/2	7 3/4	60.00

**Matches in appearance No. 4 Herald Barometer.

MERRIMAC — \$20.00

1-Day Ship's Bell Strike



Polished brass or nickelplated case. Silvered dial. Diameter 7 inches.

ENGINE LEVER

Retail \$16.50

Same case with 8-day movement—time only.



HELMSMAN—\$47.50

8-Day Ship's Bell Strike

In appearance, striking arrangement and in name, the Helmsman is very definitely a marine clock. Ship's wheel circles and cabinet are mahogany with front of diagonally matched mahogany veneer. Spokes of wheel, hinged sash and metal feet are in polished goldplate. Has 4 1/8-inch silverplated dial. 7-jeweled 8-day lever movement with Breguet hairspring and compensated balance. Height 8 3/4 inches. Width 13 3/4 inches.

DeLuxe Mexican Mahogany Fishing Chair



Fig. C31



Fig. C32

This chair has construction advantages over most other fishing chairs. It is built entirely of the finest Mexican mahogany. The seat which is made of 2 inch stock has brass bolts running through its entire width, both front and rear, which prevent checking or warping. Both the back and arms are removable and are bronze sheathed where they enter bronze sockets in seat, allowing easy removal. The back sockets are bolted through the seat instead of just screwed as in ordinary chairs. These features lead us to believe that we have the most solidly constructed chair on the market.

Extreme width of seat 24 in., depth 21 in. Complete with Polished Bronze gimbal, pedestal and 8 in. heavy cast deck plate furnished with plug and key as shown above. Chair is shown on right with arms removed permitting easy stowing.

Price complete, Polished Bronze \$62.50

Chrome finish \$72.50

Chair Hardware

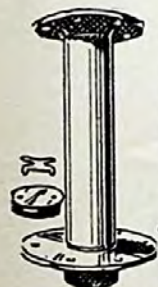


Fig. C33-A

Fishing Chair Pedestals Stanchion 2 3/8 in. diameter fitted with cast bronze plate for chair bottom and flush 8 in. deck plate cap and key. An outfit for one who wishes to build his own chair.

PRICE COMPLETE

Fig. C33-A—Polished Bronze \$15.00

Chrome 18.00

Fig. C33—Gimbal, Polished Bronze \$5.50

Chrome 6.75



Fig. C33

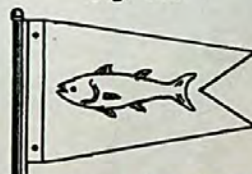
Fig. C35

Cushions for fishing chairs in Art Leather any color, made to fit chair.

Seat Price \$4.95 Back \$3.50

Tuna Flag

Fig. C36



Made of best grade wool bunting with white field and blue tuna.

Inches
12x18
16x24

Price Each
\$2.85
3.65

Flexible Back Boat Seats

Model No. 1



Fig. C1484

Has channel bar back with flexible cross pieces. Reinforced seat braces which hook on instantly. All steel construction. Green enamel finish. Folds flat.

Weight, 4 lbs. Packed in single cartons, 5 1/4 lbs.

List Price \$1.75

Ball Bearing Swivel

Model No. 3 — List Price \$4.00

IDEAL FOR CASTING AND STILL FISHING

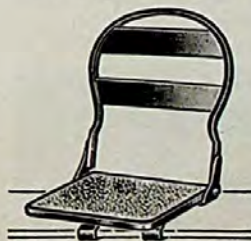


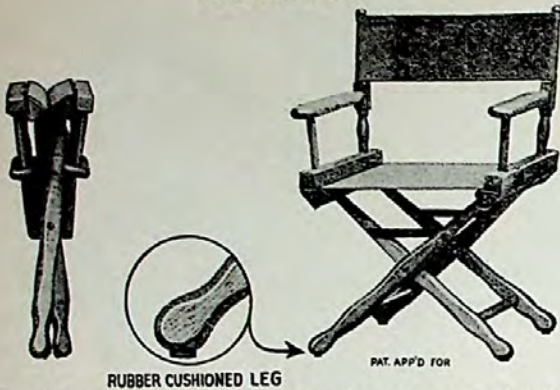
Fig. C1485

Has same flexible steel back and cork covered seat, has ball bearing swivel base, which fastens to boat seat at four points with adjustable clamps and hooks. This permits seat to turn completely around, you can straddle the seat of boat while fishing, sit at any angle, swing with your cast and have perfect comfort all the while. Green enamel finish. Folds flat.

Weight, 11 1/2 lbs. Packed in single cartons.

Folding Chairs

GOLD MEDAL



No. 35Y—A yacht chair in more than a name. Finished in mahogany—khaki cover. Solid brass hardware throughout. Rubber leg tips to prevent marring the deck.

Each \$6.95
 No. 35Y—Also made with blue canvas seat and back.
 Price—With plain brass fittings \$8.00
 With chrome (over brass) fittings 9.75
 No. 35—Same as 35-Y with a natural wood, varnish finish and steel hardware, without rubber cushions.
 Each \$4.25

Helmsman Chair



This Helmsman Chair is ideal for use at the wheel. The seat is 31 inches high and can be readily shortened by owner if desired. Mahoganitone finished woodwork, cadmium plated hardware, rubber cushioned feet. Folds flat for stowage with one operation.
 Each \$9.50

Folding Cots



No.	Size	Price
402	Inches	Each
	76x27x17	\$3.60
	78x27x16 3/4	5.25
	78x36x18	8.50

Wicker Yacht Chairs



Fig. C1153

Cushions, artificial leather, any color, to fit chair \$3.75

WEATHER PROOF
 Hardwood frames, closely woven seats and arms, open weave sides and back, made of select willow reed, height from floor to seat 14 1/2 inches, height from seat to top of back 16 1/2 inches, extreme width of chair overall 21 inches, finished in natural spar.

Each \$8.75
 Price \$8.75

Chair Tips

Made of a good grade of durable rubber, for use on legs of chairs and tables to prevent scratching of decks and floors.



Fig. 638A

Nos.	Diameter Inside Inches	Per Dozen
17	3/8	\$.95
18	1/2	1.10
19	5/8	1.20
20	1	1.40
21	1 1/8	1.60

Rubber Bumpers

WITH SCREW



Fig. 638

Made of moulded rubber with screw and washer enclosed; slotted for screw driver.

Nos.	Diameter Head Inch	Per Dozen
1	3/4	\$.35
2	7/8	.40
3	1	.50

Corrugated Rubber Matting

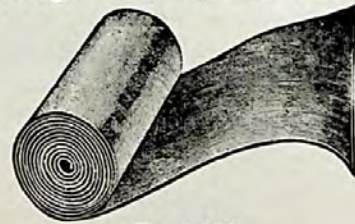


Fig. 1696

	Thickness Inches	Width Inches	Price Per Sq. Yd.
White	1/8	36	\$3.75
Black	1/8	36	1.75
Maroon	1/8	36	2.25
Black	3/16	36	3.00
Maroon	3/16	36	3.50

Non-Slip Safety Mats

Size Inches	Black Each	Mahogany Each	White Each
18x30	\$ 3.50	\$ 4.50	\$ 6.00
20x33	4.00	5.00	7.50
24x36	5.00	6.00	9.00
30x40	7.50	9.00	12.00
36x45	10.00	12.00	15.00
45x45	12.00	15.00	18.00

Price includes yacht name or burgee in colors of red, white, blue, green, or black. The thickness of mat is approximately 1/4 inch. This mat is semi-perforated.

OILED CLOTHING

502—This Plain or Walking Slicker is made double throughout. Is used by all classes requiring a long waterproof coat.

Has 27 inch back slit, inner sleeves (wind cuff) and patented non-corrosive buttons.

Made in Black, Yellow and Olive Khaki.



Long Coats No. 502

Size No.	To Fit Breast Measure		Length Inches	Each
	Inches	Inches		
0	44	56		\$4.00
1	42	54		4.00
2	40	52		4.00
3	38	52		4.00

Three-Quarter Coats No. 507

Size No.	To Fit Breast Measure		Length Inches	Each
	Inches	Inches		
0	44	44		\$3.65
1	42	44		3.65
2	40	44		3.65
3	38	44		3.65

JACKETS

No. Y509 Yellow; No. B509 Black

Size No.	To Fit Breast Measure		Sleeve From Center of Back Inches	Length Inches	Each
	Inches	Inches			
0	44	32 1/2	31		\$2.15
1	42	31 1/2	30 1/2		2.15
2	40	30 1/2	30		2.15
3	38	30	30		2.15

APRON PANTS

No. Y510 Yellow; No. B510 Black

Size No.	Waist Inches	Leg Inches	Each	Size No.	Waist Inches	Leg Inches	Each
1	46	30	2.15	3	42	29	2.15

Fishermen's Suits

MADE IN YELLOW

JACKETS

No. 600 Yellow

Size No.	To Fit Breast Measure		Sleeve From Center of Back Inches	Length Inches	Each
	Inches	Inches			
0	44	32 1/2	31		\$2.35
1	42	31 1/2	30 1/2		2.35
2	40	30 1/2	30		2.35
3	38	30	30		2.35

PANTS

No. 601 Yellow

Like overalls, side openings fasten with brass buttons.

Size No.	Waist Inches	Leg Inches	Each	Size No.	Waist Inches	Leg Inches	Each
1	46	30	2.35	3	42	29	2.35

Cape Ann Hats



No. 53—This Cape Ann Hat is particularly favored by fishermen and for every requirement, a very comfortable covering in cold driving storms.

The crown is soft and pliable and brim comparatively stiff. Made in black.

Each \$.95

Yachting Caps

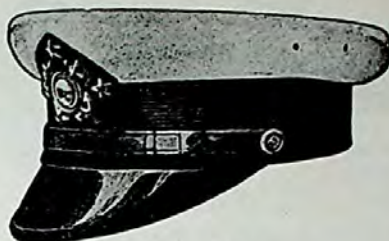


Fig. 1695

These yachting caps are furnished with detachable blue crown as well as detachable white crown. For emblem and disc see below.

Price, any size, without Emblem and Disc, each, \$3.95

Gold Emblems for Yacht Caps

The embroidery on these emblems is of real gold bullion. Club devices of enamel, correct in coloring and design, and conforming to yacht club regulations.



An emblem for yacht owners without club disc.

No. 1-A, Each \$2.25

Fig. 1695A
Owner's Cap
Ornament

This emblem is for yacht owners and has space for club disc. We can supply a disc for any club registered in Lloyd's.

No. 2-A, Emblem \$2.25
Disc 1.10



Fig. 1695B
Owner's Cap
Ornament



This emblem should be worn by a captain or mate of a yacht.

No. 3-A, Each \$1.75

Fig. 1695C
Cap Ornament
(Deck Department)

Engineer's cap emblem.

No. 4-A, Each \$1.75



Fig. 1695D
Cap Ornament
(Engineer's Dept.)



Fig. 1695E

Commodore Stars consisting of 3 sewed on one piece of blue broadcloth \$1.05
Vice Commodore Stars consisting of 2 sewed on one piece of blue broadcloth \$.70
Rear Commodore Stars consisting of 1 sewed on one piece of blue broadcloth \$.35

Special emblems and club discs on request. Prices on application. Send us your specifications.

Megaphones



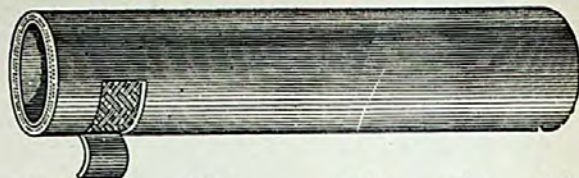
Fig. 945

Made of selected sheets of fibre and fitted with nickel plated mouthpiece, rim and handle; larger sizes have a ring for hanging.

	Size Inches					
Price Each	12	15	18	22	30	36
	\$1.50	\$2.00	\$2.50	\$2.75	\$3.50	\$4.00

Water Hose

4 Ply



I.D. Size Inches	Fits Pipe Inches	Price Per Foot	I.D. Size Inches	Fits Pipe Inches	Price Per Foot
3/8	1/8	\$.25	1	3/4	\$.46
1/2	1/4	.28	1 1/4	1	.58
5/8	3/8	.30	1 1/2	1 1/4	.70
3/4	1/2	.35	1 3/8	1 1/2	.85

Waterproof Flashlight



Fig. 983

Flashlight—No batteries, three cell, Price Each\$3.45

Focusing Flashlight



Fig. 982

Flashlight—No Batteries, Price Each\$1.10

Flashlight Bulbs

Two extra bulbs—required for each flashlight.

Price Each\$.10

Flash Light Batteries

No. 950 1 1/2x2 27/64 \$.10 each

Eveready Columbia Dry Batteries

SPRING AND SCREW CONNECTIONS



984

No. 6 Eveready 1 1/2 Volts 2 1/2x6 in. \$.40 each

No. 16 Eveready 1 1/2 Volts 2 1/2x6 in. \$.25 each

Steam Hose

4 Foot Lengths

Carried in stock in the following special sizes for use in connection with the exhaust pipes.

Size Inside Diam. Inches	Ply	To Fit Pipe I.P.S. Inches	Price Per Foot
1 1/8	4	1 1/2	\$1.30
2 3/8	4	2	1.60
2 7/8	5	2 1/2	2.60
3 1/2	5	3	3.30
4	5	3 1/2	4.00

Hose Clamps

EXTRA HEAVY MALLEABLE IRON CADMIUM PLATED

For use on Steam Hose in connection with exhausts.



Fig. 1503-A

Especially made for water hose. Very strong.

Inside Diam. Inches	Fits Hose Inches	Galv. Per Doz.	Brass Each
5/8	3/8	\$.40	\$.06
7/8	1/2	.40	.06
1 1/8	5/8	.45	.07
1 3/8	3/4	.45	.07
1 7/8	1	.80	.20
1 11/8	1 1/4	1.50	.25
2 1/8	1 1/2	1.75	.30
2 3/8	1 3/4	2.20	.35
2 7/8	2	2.50	.40



Fig. 1503-B

Hot Shot Batteries



Number	Voltage	Length	Width	Price Each
1461	6	10 1/8	2 3/4	\$1.85
1562	7 1/2	7 7/8	5	2.35
1662	9	7 1/8	5 1/4	2.75

Fish and Oyster Baskets

Nos.	Approx. Cap., Pecks	Top Diam., Inches	Bottom Diam., Inches	Height, Inches	Weight per Dozen, Lbs.	Per Dozen
2-XB	2	15	10	10	55	\$21.50
2-XH	2	15	10	10	55	21.50
3-X Std.	3	17	11	11	60	25.00
3-X Bal.	3	18	10½	11	60	25.00
4-X	4	18	12	12	75	30.00
5-X	5	18½	13½	12	80	35.00
6-X	6	20½	14	12	90	40.00

Oyster Tongs

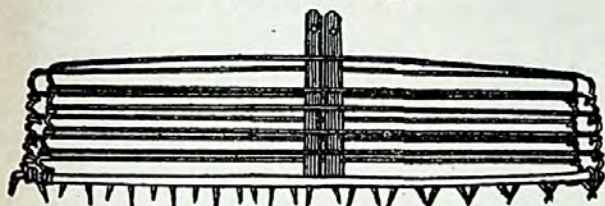


Fig. 641

WROUGHT STEEL

Number of teeth	12	14	16	18	20
Price per Set	\$6.00	\$6.25	\$6.50	\$6.75	\$7.00
Handles, Feet	10	12	14	16	18
Price per Pair	\$3.35	\$3.85	\$4.40	\$4.90	\$5.10
			\$5.10	\$5.75	

Oyster Tong Rivet Sets

PLAIN BRASS

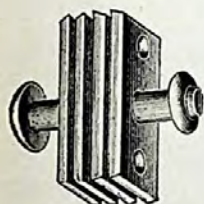


Fig. 669

Set consists of four plates, one rivet and one washer.

Size of Plates Inches	Size of Rivet Inches	Per set
2½ x 1	2¼ x ¾	\$.60

Trawl Rollers

LIGNUMVITAE WITH GALVANIZED STEEL FRAMES AND BOLTS—DOUBLE DORY



Fig. 651

No. 21 Common With Pipe Bushing	Each \$3.00
No. 22 Patent Bushing—Brass	4.50
Price Sheaves Only—Common	1.50
Price Sheaves Only—Roller	3.00

Crab Nets

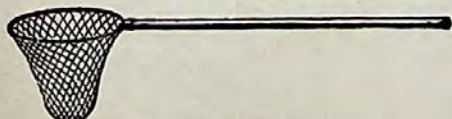


Fig. 653

Net of 12 thread seine twine. First Grade Ash Handle. Galvanized Welded Hoop and Ferrule.

	Diameter Hoop, Inches	Length Handle Feet	Each
Regular	12	5½ to 6	\$.40
Heavy	13	5½ to 6	1.00

Clam Rakes

EAGLE CLAW

Made of high grade wrought steel, with spring prongs.



Fig. 640

No. of Prongs	Width, Inches	Length Overall, Inches	Each
9	6¾	15	\$2.50
11	8¼	15	3.00
13	10	15	3.30
15	10¾	15½	3.85

Eel Spears

WINTER

Made of high grade wrought steel, with spring prongs.



Fig. 644

No. of Prongs	Length Overall, Inches	Each
6	17	\$2.70
8	17½	3.00
10	17½	3.45
12	17½	4.00

OLD STYLE SUMMER

Made of high grade wrought steel, with spring prongs.

No. of Prongs	Length O. A., Ins.	Each
5	15	\$3.00
7	15½	3.35



Fig. 645

Deck Plugs



Used to cover the holes made by nails, screws and bolts after these have been countersunk, so as to preserve them from rusting; furnished to match the grain and color of the trim.

Fig. 602

Price per 100

The following are standard sizes and woods. Any others furnished to order.

Size In.	Mahogany	White Pine	Oak	Teak	Yellow Pine
1/8	\$.45	\$.25	\$.35		
3/8	.50	.30	.40	\$.60	\$.40
1/2	.55	.35	.45	.70	.45
5/8	.60	.40	.50	.80	.50
3/4	.72	.45	.60	1.70	.55
7/8	.82	.47	.65		.57
1	.95	.50	.92		.60

Grease and Oil Guns

For oiling bearings, filling oil cups, etc.

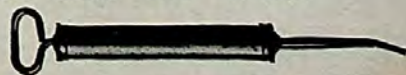


Fig. 1005A

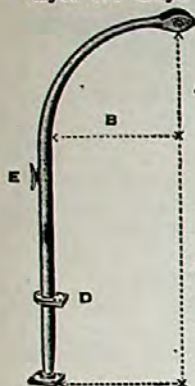
Barrel 1¼ x 8 inches, 5 inch spout.

Price each \$.80

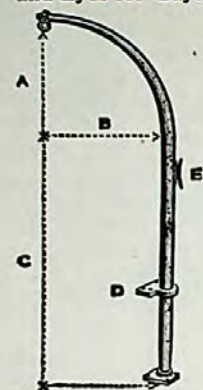
Boat Davits

GALVANIZED STEEL

Double Sheaves and Eyes for Guys



Eye Bolt for Block and Eyes for Guys



Made Only to Order Price on Application

Our Davits are made of solid steel, or steel pipe. Solid Davits are stronger. Made in two styles with eye for block, or with sheaves. Sheaves are finished brass. The Cleats are securely Riveted onto the Davits.

Requirements for each pair of Davits differ. When ordering, kindly specify the following details:

- (1) Height from deck to center of Eye or Sheave, as indicated by the letters "A plus C" above.
- (2) Distance from deck to point of Bend, as indicated by the letter "C".
- (3) Overhang as indicated by the letter "B".
- (4) Dimensions of Rail Plate if desired. Length and Thickness, "D".
- (5) Height of Cleat from Deck, if Cleat is desired, "E".
- (6) Total weight to be lifted.
- (7) Specify whether solid steel, or steel pipe is required.

New Style Anchor Davits



A popular, dependable style of Anchor Davit—staunch construction—Galvanized Extra Heavy Pipe with Navy Bronze Fittings. The Base Plate with Trip Lug locking the collar securely in the desired position, yet a touch of the toe and the Davit may be swung freely in any direction. The Bracing Bracket, bolted to the under side of the deck, gives not only a bearing, but adequate bracing. The Eye in the Davit is for Tackle Block Sister Hook.

All Bronze Fittings are Galvanized to make the various parts of the unit match.

Dimensions—

From Deck to Bend	Inches 15
Overhang	36
Height from Deck to Center of Eye	33
Depth of Bracing Bracket	5
Spread of Bracing Bracket	10 1/4
Will accommodate Deck Thickness up to	6

Prices on Application

Marblehead Anti-Fouling Bottom Composition

BEST FOR CRUISING AND RACING



Covers twice the surface — Lasts a long time—Saves expensive scraping and repainting work—and it is the most powerful preventive of marine growth, barnacles and borers—Unequaled as a protection against teredos in tropical and semi-tropical waters—it has a peculiar slippery finish which increases speed and helps win races.

Made in Emerald Green, Light Green, Cream White.

Gallon	1/2 Gallon	Quart
\$13.90	\$7.00	\$3.70

Shellac

Made of best grade shellac gum; cut in pure denatured alcohol; used as a first coat for all kinds of wood finishing; also used for shellacking and finishing high grade hardwood floors; used to waterproof ignition wires on all types of boats and for shellacking gasoline connections.

	White Each	Orange Each
1 Gallon Cans	\$2.80	\$2.50
1/2 Gallon Cans	1.45	1.35
1 Quart Jars	.95	.90
1 Pint Jars	.55	.50
1/2 Pint Jars	.35	.30

Varnish

	1 Gal.	1/2 Gal.	1/4 Gal.	1/8 Gal.
Marine Spar	\$7.90	\$4.15	\$2.18	\$1.20
The varnish that stands all kinds of weather, holds its gloss and will not turn white. Dries over night.				
	1 Gal.	1/2 Gal.	1/4 Gal.	1/8 Gal.
Four Hour Spar	\$6.90	\$3.65	\$1.93	\$1.07
For interior and exterior use.				



Oxford Metal Polish

Polishes anything of metal, requiring very little rubbing to give a lustre of permanence and brilliancy.

Size	Cans in Case	Price Each
1/2 Pint	72	\$.30
Pint	36 or 72	.50
Quart	24	.90
1/2 Gallon	12	1.50
1 Gallon	6	2.50

Oxford Klen-ite

Pack 36 or 72, 11 oz. pkgs. to case\$.15 each

Oxford Bilge Solvent

Approx. 8 bil. pail, pack 6 to the case\$2.00 per pail

Oxford Penetrating Oil

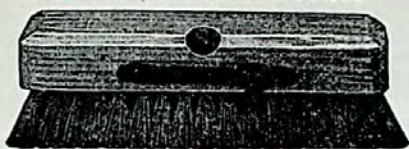
Pints, pack 36 or 72 to the case\$.50 per pint

Scotch Decorator's Tape for Masking

You can easily paint a straight waterline with this tape. For brush or spray painting.

Inches	Yards	Roll
1/4	x 10	\$.25
1/2	x 10	.25
	x 10	.25

Deck Scrub Brush



Price each, without handles \$.40
 Price each, with long handle50

Galvanized Water Buckets or Pails



Quarts	Light Weight Price Each	Medium Heavy Weight Price Each	Extra Heavy Weight Price Each
8	\$.35		
10	.40	\$.65	\$.75
12	.45	.70	.80
14	.50	.75	.85
16	.55	.80	

Fibre Pails

Capacity Quarts	Height Inches	Price Each
12	10 1/2	\$2.50

Canvas Buckets

Type of Bottom	Capacity Quarts	Each
Canvas	10	\$1.25
Wooden	10	2.25

Chamois

Genuine French

No.	Approx. Size Inches	Dozen
FM760	18x28	\$35.90
FM762	19x30	39.20
FM766	20x31	43.10



Domestic

No.	Approx. Size Inches	Dozen
AD462	26x27	\$22.00

Naval Sponges

A GOOD GRADE SPONGE

For bailing and cleaning a boat.

Rock Island Sheepswool

	Each
Medium	\$.75
Large	1.50



Fig. 1953

Yacht Cannons



Black Finish \$19.80
 Chromium Finish 38.45
 10 Gauge Blanks per 100 4.74

Oars

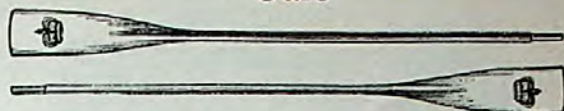


Fig. 595—ASH OARS—PLAIN

First quality; made of selected white ash and free from all defects; with plain straight blades.

Sizes 5 to 9 feet Per Ft. \$.25

Fig. 595A—SPRUCE OARS—PLAIN

First quality; made of selected white spruce and free from all defects.

Sizes 6 to 9 feet Per Ft. \$.27

Fig. 595D—SPRUCE OARS—COPPER TIPPED

Sizes 6 to 9 feet Per Ft. \$.29

Fig. 595F—SPRUCE OARS—COPPER TIPPED LEATHERED AND VARNISHED

Sizes 6 to 9 feet Per Ft. \$.40

Fig. 595G—SPOON OARS—COPPER TIPPED LEATHERED AND VARNISHED

Sizes 6 to 9 feet Per Ft. \$.50

Canoe Paddles



SINGLE

Hand made of selected spruce or maple in the plain round end type and hand varnished; size of blade, 6 1/2 inches.

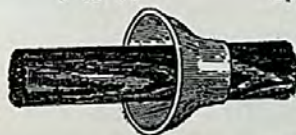
Single—Length, 4 to 6 feet Each \$2.00



Double

Hand made double bladed canoe paddles in either spruce or maple; straight or spoon blades, nickel plated mountings.

Length Feet	Type Blade	Each
9 to 10	Straight	\$5.25
9 to 10	Spoon	6.75



Drip Cups

For Double Paddles
 Per Pair \$.50

Genuine Plastic Wood

PLASTIC WOOD handles like putty—hardens into wood!



Plastic Wood is wood, compounded with a chemical binder in the form of paste, which hardens on exposure to the air. After hardening it has all the characteristics of wood except grain. It's waterproof, weather-



proof—will not chip, crumble, crack or disintegrate.

Available in these colors—Natural, Cedar, Gumwood, Oak, Walnut, Ebony, Light Mahogany, Dark Mahogany and White.

Size	List Price	No. Packed to Carton	Weight Per Carton Pounds
10c tube	\$.10	36	3 1/2
Handy tube	.25	36	6
1/4-lb.	.35	36	15
1-lb.	.85	12	15
5-lbs.	3.50	2	13
25-lbs.	12.50	1	30

10c tubes are available in natural color only.

American Steel Wool Products
ONE POUND ROLL



Fine numbers, 3/0 and 2/0 used for high grade finishing; numbers 0 and 1 for cleaning and polishing aluminum, and all kitchen utensils, polishing brass, etc.; numbers 2 and 3 for rougher work, taking off old paint with remover, cleaning and rubbing down decks, etc.

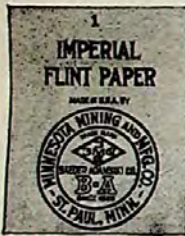
Grade: 3/0 2/0 0 and 1 2 and 3
Price per lb.

Flex-Fold Utility Pads



Sixteen individual, large sized pads in a package. Convenient and economical to use. Cost no more.

Grade: 3/0 2/0 0 and 1 2 and 3
Price per pkg.



Flint Sandpaper
FOR GENERAL USE

An extra quality sandpaper; the abrasive material is flint quartz and the paper backing a special rope stock paper, especially adapted to the peculiar requirements of flint paper.

Sheets 8 3/4 x 10 1/2. Half Ream Packages (240 Sheets)		Grit Nos. Per Doz.	
3/0, 2/0, 1/0	\$.07	2	\$.11
1/2	.08	2 1/2	.12
1	.08	3	.13
1 1/2	.09		

Packed 24 Sheets to Bundle or Quire.
Packed 20 Bundles to Case or Ream.

Wetordry Garnet Paper



SHEETS 9x11 inches

Impervious to hot or cold water. "A" is lightweight backing. "C" is medium weight backing. For wet sanding of undercoats use 240C or 280C. Use 280C for finish sand. For sanding between lacquer coats use 320A. For lacquer finish sand use 400A. For rough work use 100D.

Grade No.	Price per Doz.
8/0, 7/0, 6/0	\$.36
5/0	.37
4/0	.42
3/0	.47
2/0	.51
1/0	.57

Emery Cloth

	Price per Doz.
2/0	\$.45
1	.50
2	.55

Production Paper

SHEETS 9x11 inches
Recommended for cleaning rust, etc. from metal.
No. 100C—Per Doz. \$.39

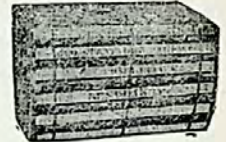


Cotton Waste

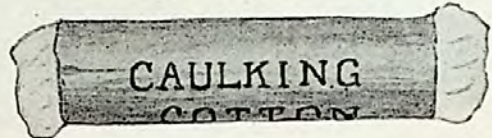
Size 1 pound pkgs. Price \$.30
50 pound bales, on application.

Marine and Plumbers' Oakum

Price on Application



Caulking Cotton



Size Lbs.	Package	Fine	Excell
1	Bale	\$.35	\$.40
50	Bale		on application
100	Bale		on application

Cotton Wicking for Caulking

Specially adapted for particular work and narrow seams.



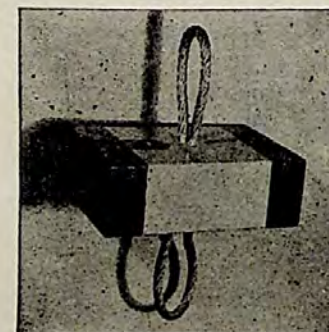
2 oz. Balls	Each \$.10
1/2 lb. Balls	.30

Solid Cork Mooring Buoy



Size Inches	Price Each
6x 6x12	\$ 4.50
8x 8x16	6.50
12x12x24	9.60
16x16x30	18.00
20x20x40	30.00

Balsa Wood Pick-up Buoys



Pick-up Buoy. Solid Balsa Wood. Hydro-cyl covered. Will not mar finish of deck. Even if damaged will float indefinitely. Rigid loops for anchor and mooring lines.

Inches	Each
7x5	\$4.00

Fig. 6116

JEFFERY'S WATERPROOF MARINE GLUES

NO. 1 YACHT MARINE GLUE

High grade glue that has been used in deck seams of fine yachts for over 95 years. Expands and contracts in all weather conditions, keeping seams watertight. 1 lb. pays about 30 ft. of seam. Black, White, Yellow, Mahogany.

1 Lb. \$.80

2 Lb. \$1.55

5 Lb. \$3.70

Bulk price on application.

NO. 2 SHIP MARINE GLUE

Now used by most steamship companies as well as U. S. Navy. Very elastic and waterproof. Seams properly caulked and payed will last many years and save frequent recaulkings. Prices on application.

NO. 3 SPECIAL MARINE GLUE

Used in deck seams of Tugs, Barges, etc. Also as a bilge filling for yachts. Prices on application.

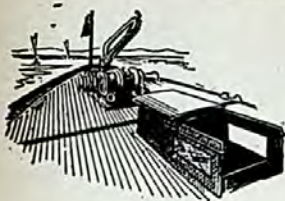
Write for Special Information on Application and Use

JEFFERY NO. 7—SOFT QUALITY

For attaching canvas and muslin to hulls of small boats. Also for strip or patch repairs over annoying leaks. Great elastic and adhesive qualities. Write for further details in folder. 1 lb. to about 4 sq. ft. with muslin.

1 lb., \$.80
2 lbs., 1.55
5 lbs., 3.70

Bulk price on application



1



2



3



4



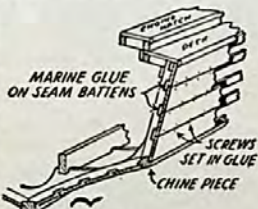
JEFFERY'S SPECIAL CANOE GLUE

For quick and permanent repairs on canoes and small boats. Easy to apply never gets hard. A friend of the canoeist for over 75 years. Emergency can will

cover about 1 sq. ft. Black, White, Yellow. Emergency can \$.50. Special price on quantity.

FERDICO AVIATION LIQUID MARINE GLUE

Manufactured for U. S. Navy Aircraft wooden hull construction. Best material for batten seam and double plank construction. Remains elastic. Prevents wood rot and decay, makes perfect water stop when used in chine, step, transom and other such joints. 1 gallon covers about 100 sq. ft.



1/2 Pt.	Pt.	Qt.	1/2 Gal.	Gal.	5 Gal.
\$.50	\$.80	\$1.50	\$2.60	\$4.50	\$4.20 per gal.

JEFFERY'S "C" QUALITY LIQUID WATERPROOF MARINE GLUE

For stopping leaks in clinker built hulls. For use with wicking in caulking bad seams before filling. Used by every boat repair yard and known throughout the world. 1 gallon to about 100 sq. ft.



1/2 Pt.	Pt.	Qt.	1/2 Gal.	Gal.	5 Gal.
\$.55	\$1.00	\$1.80	\$3.50	\$6.60	\$5.80 per gal.

FERDICO SEAMSEAL

Plastic Marine Glue ready for use for filling deck and hull seams. Expands and contracts with wood. Easy to apply. Does not dry up. 1 lb. fills about 40 ft. of seam. Black, White, Gray, Mahogany, Natural.

1/2 Lb.	1 Lb.	2 Lb.	5 Lb.
\$.30	\$.40	\$.75	\$1.75
10 Lb.	25 Lb.	50 Lb.	
\$3.00	\$7.50	\$14.50	



FERDICO CANVAS CEMENT AND FILLER

Waterproof adhesive cement for attaching and filling canvas or muslin on decks or cabin, auto, bus, and trailer tops. Railway car and porch roofs. Canoe and small boat hulls. 1 gallon covers about 100 sq. ft.

1/2 Pt.	Pt.	Qt.	1/2 Gal.	Gal.	5 Gal.
\$.35	\$.55	\$.90	\$1.75	\$3.20	\$3.10 per gal.



STANZALL CASEIN WATERPROOF JOINT GLUE



* CROSS SECTION OF HOLLOW SPAR *



* ALL JOINTS *



* LAMINATED WOOD *

Great strength and waterproof quality. Passes U. S. Government specifications. Used in aircraft construction, model boat building, etc. Many household uses.

1/4 Lb.	1/2 Lb.	1 Lb.	2 Lb.	5 Lb.	35 Lb.
\$.20	\$.35	\$.60	\$1.10	\$2.75	\$18.40

Kuhls' Elastic Seam Compositions Glues — Cements — Preservatives

SINCE 1889



ELASTIC SEAM COMPOSITION No. 1 FOR DECK SEAMS

White, Gray, Black,
Mahogany, Yellow, Teak

Sizes	Each
1 lb. can	\$.35
2 lb. can .....	.65
5 lb. can	1.50
12½ lb. pail	3.25
25 lb. pail	6.25
50 lb. drum	12.00



ELASTIC SEAM COMPOSITION No. 2 FOR HULL SEAMS

White, Gray, Black,
Mahogany, Yellow, Teak

Sizes	Each
1 lb. can	\$.35
2 lb. can .....	.65
5 lb. can	1.50
12½ lb. pail	3.25
25 lb. pail	6.25
50 lb. drum	12.00



CANVAS CEMENT FOR

Laying and Waterproofing
Canvas on Decks, Roofs,
Canoes, Boats, Patching
Canvas Canoes, etc.

Sizes	Each
½ pt.	\$.35
1 pt. ....	.55
1 qt. ....	.90
½ gal.	1.60
1 gal.	3.00
5 gal. pails	gal. 2.90



"AVIO" MARINE GLUE FOR

Batten Seam and Double
Plank Boat Construction

All wood joints should be
coated with "Avio". It pre-
vents leakage and decay.

Sizes	Each
½ pt.	\$.40
1 pt. ....	.75
1 qt.	1.25
½ gal.	2.40
1 gal.	4.50
5 gal. pails	gal. 4.00



ELASTIC BEDDING COMPOSITION FOR

Bedding Mouldings, Deck Hard-
ware, Deck Lights, Bilge
Filling, etc.

Sizes	Each
½ pt.	\$.35
1 pt. ....	.60
1 qt.	1.10
½ gal.	2.10
1 gal.	4.00
5 gal. pails	18.75



ELASTIC SEAM PAINT FOR

Priming Deck and Hull
Seams

Sizes	Each
¼ pt.	\$.20
½ pt. ....	.30
1 pt. ....	.50
1 qt. ....	.85
½ gal.	1.60
1 gal.	3.00



CANVAS PRESERVATIVE

Colors

Clear, Buff, Brown, Gray, Green

It preserves, waterproofs and
mildew-proofs canvas covers, pau-
lins, awnings, tents, etc. Its pen-
etrating power renders every thread
waterproof and mildew-proof. It
makes canvas soft and pliable. It
doubles the life of new canvas and
adds extra years of service to old
canvas.

1 gal. covers approximately 100
sq. ft.

1 Qt. Can	½ Gal. Can	1 Gal. Can	5 Gal. Can
\$.90	\$1.35	\$2.00	\$9.50

TROWELAST AND BRUSHLAST



Applied with Trowel



Applied with Brush

For filling, surfacing of dents, cracks, rivet heads,
keels, etc. on steel, iron, wood and canvas, above and
below the water line.

½ pt.	1 pt.	1 qt.	½ gal.	1 gal.	5 gal.
\$.40	\$.75	\$1.25	\$2.40	\$4.50	\$21.25

Stay-Tite Caulking Compound



Stay-Tite caulking compound permanently seals all joints, seams, cracks, and checks of watercraft, etc. Ready to use, no heating or mixing. Applied with putty knife or caulking gun.

Colors—Black and Gray. Use gray where the surface is to be painted with a light color. Remains pliable at all times.

Size Pounds	Black Price	Gray Price	Mahogany Price
1/2	\$.25	\$.30	\$.30
1	.40	.55	.55
3	1.00	1.40	1.40
6	1.90	2.60	2.60
10	3.00	4.10	4.10
25	7.00	9.25	9.25
50	13.50	16.00	16.00
100	25.00	30.00	30.00

Stay-Tite Wood Crack Filler

NATURAL COLOR

A powder compound which sets quickly and will not shrink upon drying.

Used for repairing; adheres to wood, stone, cement, plaster, etc., makes a permanent hard surface. Fills nail holes, dents, etc.

The Ideal Filler for All Purposes.



Size	List Each
Emergency (1/4 lb.)	\$.15
1 Lb.	.35
5 Lb.	1.65
10 Lb.	3.00
25 Lb.	7.00
50 Lb.	13.00
100 Lb.	25.00

Stay-Tite XXX Cement



Stay-Tite XXX Cement is a slow-drying, waterproof product which will permanently adhere to all materials.

For use on boats, cars, etc. Comes ready to use and is easily applied.

For laying canvas, linoleum, rubber, felt, etc.

	Price
Tube, Large	\$.40
Pint	.75
Quart	1.25
Gallon	4.50

Stay-Tite Glue

Stay-Tite Glue developed originally for marine use, it has hundreds of uses around the home. Joins wood, canvas, felt, leather, celluloid, etc. Waterproof, quick setting and transparent.

	Price
Tube, Small	\$.25
Tube, Large	.40
Pint	.90
Quart	1.70
Half Gallon	3.25
Gallon	6.00



Stay-Tite Sealer

Stay-Tite Sealer for deck seams is a semi-liquid product which remains elastic and pliable. It may be flowed into deck seams with Stay-Tite Sealer Guns. We can supply guns in 3 sizes. Prices on request.

Stay-Tite Sealer may be obtained in 3 colors.



White		Mahogany or Black	
Pint	\$.90	Large Tube	\$.40
Quart	1.70	Pint	.60
Gallon	6.00	Quart	1.00
		Gallon	3.25
Pressure Sealer Gun (5 oz. capacity)	\$2.00		
Pressure Sealer Gun (9 oz. capacity)	2.50		

Stop-A-Leak

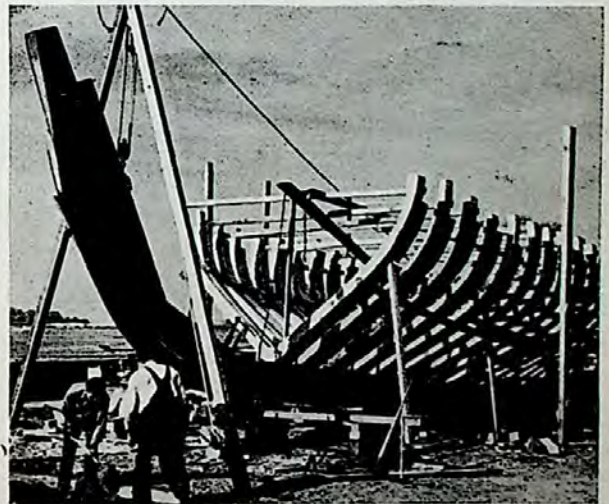
FERDICO HANDY STICK



75c each.
One dozen in box, \$8.00

Cuprinol

Prevents Mildew and Rot



CUPRINOL FOR WOOD—made in Clear and in Green—for exterior and interior woodwork in every type of construction from boats to buildings. Stops rots, mildew and other fungi and insects.

CUPRINOL FOR FABRICS—made in Clear and Green. Stops mildew in all fabrics. Reduces mildew already present. Treated awnings, tents, tarpaulins, sails, ropes, etc., may be stowed wet with no fear of rotting or heating. Clear does not change the color. Green is for ropes only.

CUPRINOL FOR FISH NETS AND LINES in Clear, Brown and Green. Stops rot, marine growth and reduces slime and fouling. For use on ropes, nets and lines subject to continual immersion in water. Coverage from 10 to 25 pounds of net depending on kind of lines used and type of Cuprinol.

	For Wood	For Fabric	For Nets
Quarts	\$ 1.00	\$.80	\$ 1.15
Gallons	3.60	2.80	4.20
5 Gallons	17.50	13.50	20.50

Smooth-On Iron Cements

SMOOTH-ON No. 1

A quick-hardening iron cement for making loose parts tight, repairing cracks in metal, making tight joints and seams, and stopping leaks in boilers, pipe lines, pressure containers, etc. For use on iron, steel, brass, copper, lead, aluminum, wood etc., either alone or as a filling under a plate. Withstands water, steam, oil, gasoline, fire and many chemicals, and holds under pressure or vacuum. Apply to the crack or defect with putty knife, hammer, caulking tool or gun until opening is completely filled. May be used on warm or cold metal and requires no heat. Becomes hard as iron.



Sold as a powder. To use, mix with water. Amount required to fill 1 cu. in., 0.11 lb.

1 3/4 oz. size	.....	\$ .10 per tin net
7 oz. size	.....	.30 per tin net
1 lb. size	.....	.50 per tin net
5 lb., 25 lb., and 100 lb. sizes	.....	.50 per lb.

SMOOTH-ON No. 2

A slow-hardening hydraulic iron cement, used for the same purposes as Smooth-On No. 1, but permitting more time for making the application. Will harden in wet places or under water.

Sold as a powder. To use, mix with water. Amount required to fill 1 cu. in., 0.11 lb.

1 lb. size	.....	\$ .50 per tin net
5 lb., 25 lb., and 100 lb. sizes	.....	.50 per lb.

Preservo



WATERPROOFING FOR CANVAS

A positive and popular weatherproofing; it waterproofs and preserves canvas, also prevents mildew; if directions are properly followed it has a covering capacity of about 90 square feet to a gallon; makes the material it is applied to very soft and pliable; will not freeze so as to get hard and crack in cold weather; furnished in black, brown, white, and buff.

Color	1 Quart Can Each	1/2 Gallon Can Each	1 Gallon Can Each	5 Gallon Can Each
Brown	\$.80	\$1.15	\$1.80	\$7.75
Buff	.80	1.15	1.80	7.75
White or Gray duck	.85	1.20	1.85	8.00
Clear for awnings	.85	1.20	1.85	8.00

Liquid Cement

AMBROID

A glue, cement and solder combined in one; waterproof, flexible and heat resisting and is not affected by oil, grease or gasoline; for repairing articles of wood, leather, canvas or fabric, stone and earthenware and all porous materials; in tin cans, always ready for use. Excellent for canoes.



Size	Cans in Carton	Per Can
1 1/2 oz. tubes	12	\$.25
2 oz. cans	12	.25
4 oz. cans	12	.50
1/2 pt. cans	6	.85
Pint cans		1.50
Quart cans		2.75



An ideal cleaner for marine use. Effective in any water, hard, soft, salt, hot or cold. Hurts nothing but dirt and germs. Use ANNITE for cleaning topsides, decks and hulls. Indispensable in engine room. Wonderful for bilges as it cuts grease, scum and dirt and forms an emulsion that can be pumped overboard eliminating fire hazard.

Make your galley work a pleasure with ANNITE.

8 oz. Package	.....	Price Each \$.15—2 for \$.25
5 lb. Canister	.....	Price Each \$1.00

Bilge Solvent

Puro Bilge Solvent used in connection with bilge water will positively remove the stagnant musty water odor, keeping the boat sweet and clean smelling; it will neutralize all odors from the oil and gasoline.



Price, 2 Lb. Can	.....	\$1.00
Price, 5 Lb. Can	.....	2.50

Rust Solvent

TASGON



Nuts, bolts, pipe fittings, etc., that are rusted, corroded or otherwise stuck, can be easily removed after applying a few drops of Tasgon; for use to prevent carbon, rust on springs and on brake connections, hinges and door locks; lubricates as well as prevents rust; Tasgon will clean all rusty surfaces.

Size Cans	Each	Size Cans	Each
1/4 Pint	\$.40	Quart	\$1.50
Pint	1.00	Gallon	5.00

Lubri Tasgon

A lubricating penetrating oil with absolutely no acid reaction. Can be used with regular lubricating oil to assure quick starting, more speed and adequate upper cylinder lubrication, in marine motors. Can also be used with same results as Tasgon.



3 Oz. Can	\$.30	Gallon	\$ 5.00
Pint	1.00	5 Gallons	22.25
Quart	1.50		

Dixon's Outboard Motor Graphited Gear Lubricants



"NON-LEAK"
 Non-fluid for General Utility Service
 Retains its normal consistency at freezing temperature, and, at all temperatures keeps lower unit gears free from viscosity drag. Makes starting easy. Increases motor speed. Saves gasoline.

"RACING SPECIAL"
 Steps up the R.P.M.'s by keeping lower unit gears free from viscosity drag at all temperatures.

Giant Tube
 8½ inch x 2 inch

No. 10 Tube	\$.50
1 lb. can per lb. ....	.50
5 lb. pail per lb. ....	.45

Square Flax Packing



Size Inches	Approx. Feet per Lb.	Price per Lb.
⅛	120	\$1.00
3/16	42	1.00
¼	31	1.00
5/16	19	1.00
¾	15	1.00

Dixon's Graph-Air Gun and Microfyne Graphite

Dixon's Graph-Air Gun and Microfyne Graphite inaugurates oilless, greaseless, combustion-proof, waterproof powder lubrication for everything. Excellent for boat and auto motors and on boat bottoms.



"Gun" filled	\$.75
Refill can .....	.50
8 inch nozzle .....	.15

Dixon's "Junior" Graph-Air Gun — made of Flexophane (throw - away - when - empty - model) filled with Dixon's Microfyne Flake Lubricating Graphite. For locks and everything that squeaks, rattles or sticks. Indispensable to boat owners, householders, locksmiths, all servicers and mechanics.



"Junior" Graph-Air Gun (filled with Microfyne Graphite) each	\$.30
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Albany Grease

A pure lubricant, does not drip, splash or waste away. It is made in one quality only but seven different consistencies for cold and hot temperatures.

0	Very Soft
1	Soft
2	Medium Soft
3	Medium
X	Hard
XX	Very Hard
XXX	Extra Hard



1 lb. Can	5 lb. Can	10 lb. Can
\$.45	\$1.60	\$3.00

Kasson Waterproof Grease

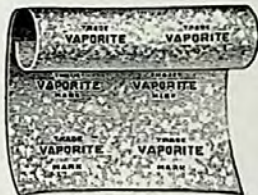
Especially recommended for motor boat water pumps, bilge pumps, stuffing boxes, stern bearings, transmissions, etc.

	Price Each
¼-lb. cans	\$.25
1-lb. cans .....	.50
25-lb. pails, per lb. ....	.45



"Vaporite"

AN INDURATED AND COMPRESSED ASBESTOS PACKING



Containing a proper amount of rubber to give it elasticity and render it waterproof. Made expressly for joints of Gas Engines and for general use where High Pressure or superheated steam is used. It is not injured by temperatures of 1,500 degrees, and can be

subjected to a compression of 28,000 lbs. without losing its efficiency.

It is treated with a special compound, enabling it also to resist the action of ACIDS, ALKALIES, etc.

Made in sheets 50x50 inches. In thickness, 1/32 and 1/16 inch.

Best Grade	\$1.00
Second Grade .....	.80

Stuffing Box Packing, Round Spiral Graphite Packing

On One Pound Spools

Size Inches	Per Lbs.
⅛	\$2.25
1/16	2.25
¼	2.25
5/16	2.25
¾	2.25



3M Oil Mix Valve Grinding Compound

2 oz. Can	\$.25	4 oz. Can	\$.40
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Asbestos Wick Packing



The innumerable uses for asbestos wick packing suggest that at least one ball be kept always on hand. It is made of strands of asbestos fiber, twisted in the form of round lamp wick. Strands may be separated. Size, ¼ inch; ½ lb. balls.

Price per ball	\$.50
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Flat Paint Brushes



Width Inches	Thickness Inches	Length Clear Inches	Price Each
3	$\frac{13}{16}$	$2\frac{1}{2}$	\$.70
$3\frac{1}{2}$	$\frac{13}{16}$	$2\frac{3}{4}$	.90
4	$\frac{7}{8}$	3	1.35

Flat Varnish Brushes



No.	Width Inches	Price
2	$1\frac{5}{8}$	\$.35
3	$2\frac{1}{8}$	.50
4	$2\frac{11}{16}$	.80
5	$3\frac{1}{8}$	1.00

Width Inches	Price
1	\$.45
$1\frac{1}{2}$	.50
2	.70
$2\frac{1}{2}$	1.05
3	1.60

Width Inches	Price
1	\$.15
$1\frac{1}{2}$	.25
2	.35
$2\frac{1}{2}$	.50
3	.70

Width Inches	Price
2	\$.55
$2\frac{1}{2}$	.95
3	1.25

Oval Sash Brushes



Size No.	Length Inches	Diameter Inches	Price Each
1	$1\frac{1}{16}$	$\frac{1}{2}$	\$.20
2	$1\frac{1}{2}$	$\frac{5}{8}$	.25
3	$1\frac{3}{8}$	$\frac{13}{16}$	.30
4	$1\frac{11}{16}$	$\frac{13}{16}$	.30
5	$1\frac{3}{4}$	$\frac{13}{16}$	.35
6	$1\frac{7}{8}$	$\frac{13}{16}$	.35

Camel Hair Marking Brush



Size No.	Price Each
1	\$.12
2	.15
3	.17
4	.18
5	.20
6	.25

Oval Varnish and Paint Brushes



Size No.	Length Inches	Diameter Inches	Price Each
6/0	4	2	\$4.35
7/0	$4\frac{1}{4}$	$2\frac{1}{8}$	6.00
8/0	$4\frac{1}{2}$	$2\frac{1}{4}$	7.50
9/0	$4\frac{3}{4}$	$2\frac{5}{16}$	8.75

Size No.	Length Inches	Diameter Inches	Price Each
4/0	$2\frac{7}{8}$	$1\frac{3}{4}$	\$1.40
5/0	$3\frac{1}{8}$	$1\frac{7}{8}$	2.00
6/0	$3\frac{3}{8}$	2	2.50
7/0	$3\frac{7}{8}$	$2\frac{1}{4}$	3.10
8/0	$3\frac{7}{8}$	$2\frac{5}{16}$	4.65

Size No.	Length Inches	Diameter Inches	Price Each
6	$2\frac{7}{8}$	$2\frac{3}{16}$	\$1.50
8	$3\frac{1}{8}$	$2\frac{3}{16}$	1.85
10	$3\frac{5}{8}$	$2\frac{5}{16}$	3.00
12	$3\frac{7}{8}$	$2\frac{7}{8}$	3.40
14	$4\frac{1}{8}$	$2\frac{9}{16}$	4.25

Size No.	Length Inches	Diameter Inches	Price Each
6	$2\frac{7}{8}$	$1\frac{7}{8}$	\$1.35
8	$3\frac{1}{4}$	$2\frac{1}{8}$	2.40
10	$3\frac{1}{2}$	$2\frac{1}{4}$	3.30
12	$3\frac{3}{4}$	$2\frac{3}{8}$	3.65
14	$4\frac{1}{4}$	$2\frac{9}{16}$	6.25

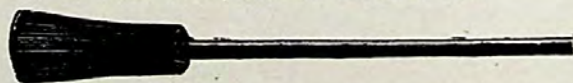
Cotton Yacht Mops



Size	Head in Oz.	Price Each
Small	12	\$.75
Medium	14	.85
Large	16	1.00
Navy	20	1.25

Round Yacht Brooms

ROUND COIR, BRASS WIREBOUND



Length of Coir Inches	Price Each	Price per Dozen
12	\$1.00	\$10.00
14	1.15	11.40

Seam Brushes



Length	Price each
4 In.	\$.35
5 In.	.40
6 In.	.45

Cotton Duck

Width Inches	Number					
	2	4	6	8	10	12
26	\$.79	\$.73	\$.67	\$.59	\$.50	.....
2872	.63	.....	.....
3084	.77	.68	.57	\$.46
3289	.81	.72	.60	.....
36	1.07	.98	.89	.79	.66	.54
3894	.83	.70	.....
4099	.87	.74	.60
42	1.25	1.14	1.04	.92	.78	.63
44	1.10	.97	.82	.66
48	1.32	1.21	1.06	.90	.73
50	1.26	1.11	.94	.76
54	1.37	1.21	1.02	.82
60	1.68	1.54	1.36	1.14	.92
66	1.72	1.52	1.28	1.03
72	2.05	1.90	1.67	1.40	1.13
76
84	2.46	2.26	2.00	1.68	1.35
90	1.46
96	2.66	2.34	1.96	1.58
100	3.03	.....	.....	.....	.....
108	3.07	2.70	.....	.....
120	3.84	3.52	3.09	.....	.....

Sail Duck

Width Inches	2/0	1/0	1	2	3	4	5	6	7	8	9	10	11	12
22	.80	.76	.72	.69	.66	.63	.60	.58	.54	.51	.47	.43	.39	.35
24	.86	.82	.78	.74	.71	.68	.65	.62	.58	.55	.50	.46	.42	.37

U. S. Army Duck

Inches	Ounces	Price Per Yard
28½	8	\$.35
28½	10	.43
28½	12	.51
28½	15	.64

Narrow Duck

Width Inches	2/0	1/0	1	2	3	4	5	6	7	8	9	10	11	12
6	.37	.35	.34	.33	.32	.31	.29	.28	.27	.26	.24	.22	.20	.18
7	.41	.39	.38	.36	.35	.34	.32	.31	.30	.28	.26	.24	.22	.20
8	.45	.43	.41	.39	.38	.36	.35	.33	.32	.30	.28	.26	.24	.21
9	.49	.46	.43	.41	.40	.39	.37	.35	.34	.32	.30	.28	.25	.22
10	.52	.49	.46	.44	.42	.41	.39	.37	.35	.33	.31	.29	.26	.23
11	.54	.51	.48	.46	.44	.42	.41	.39	.37	.34	.32	.30	.27	.24
12	.57	.54	.51	.49	.46	.44	.43	.41	.39	.36	.34	.31	.28	.25
14	.61	.58	.55	.53	.50	.48	.46	.44	.42	.39	.36	.33	.30	.27
16	.67	.63	.60	.58	.55	.52	.50	.48	.45	.42	.39	.35	.32	.29
18	.72	.68	.64	.62	.59	.56	.54	.51	.48	.45	.41	.37	.34	.31
20	.76	.72	.68	.65	.62	.59	.57	.54	.51	.48	.44	.40	.36	.33

Waterproof Hatch Covers

Waterproof Tarpaulins

Prices on application.

"Challenge" Steel Measuring Tapes



With 3/8-inch tape. Nickel plated trimmings, flush handle, hard leather cases. Marked one side only, in feet, inches and eighths.

Nos.	Length Feet	Diam. of Case Inches	Price Each
260	25	3	\$ 5.40
263	50	3 3/4	6.60
265	75	4 1/4	8.60
266	100	4 1/2	11.30

"Red End" Spring Joint Rules



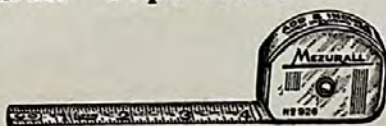
Flexible hardwood. 3/8 inch wide. 6 inch folds. Patented lock joints. Solid brass strike plates and mountings. Bright

Red Ends, Cream enameled. Marked consecutive inches to 16ths, both edges, both sides.

No.	054	055	056	058
Length Feet	4	5	6	8
Per Dozen	\$5.20	\$6.40	\$7.20	\$10.00

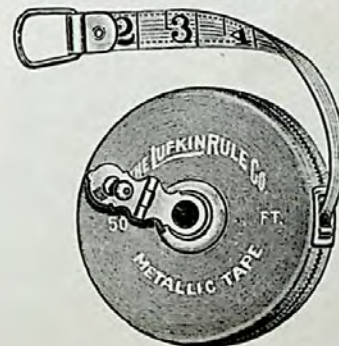
"Mezurall" Tape-Rules

For all measurements, inside and outside. Concave line of stainless steel, 1/2 in. wide, flexible and rigid. Case is 2 inches wide, nickel plated and but 3/8 inch thick. Blade marked one side, both edges, inches to 16ths, first six inches upper edge to 32nds. Has adjustable end hook.



No. S926—72 inch. Price each\$1.75

"Metallic" Linen Measuring Tapes



With 3/8-inch pure linen tape with metallic warp. Nickel plated trimmings, flush handle, hard leather cases. Marked one side only in feet and inches.

Nos.	Length Feet	Diam. of Case Inches	Price Each
500	25	3 3/4	\$3.90
503	50	4 3/8	5.50
505	75	5 1/8	7.00
506	100	5 3/4	8.70

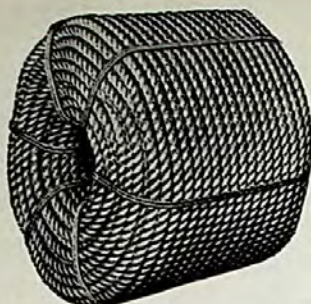
Oil Gaging Steel Tapes

WITH PLUMB BOB



3/8 inch wide steel line. Line has swivel snap and plumb bob, both included in measurement. Bob detachable. Solid brass bob, cone-shaped, weighs 6 oz. 1 1/4 x 2 3/8 inches long. Marked Feet, inches and 8ths, one side only. No. 1283 with 588 Bob, 50 ft. Price each\$11.00

**First Quality
Pure
Manila Rope**



Diam. Size in Inches	Circumference Size	Approx. Wgt. of Full Coils Lbs.	No. of Feet Per Coil	Approx. Weight Per Foot Lb.	Price Per 100 Ft.
1/8	Fine 6 thd.	50	3850	.013	
1/4	6 thd.	50	3020	.018	
3/8	9 thd.	50	1950	.026	
1/2	12 thd.	50	1450	.037	
5/8	15 thd.	63	1200	.053	
3/4	1 1/2 in.	90	1200	.075	
7/8	1 3/4 in.	125	1200	.104	
1	2 in.	160	1200	.133	
1 1/8	2 1/4 in.	200	1200	.167	
1 1/4	2 1/2 in.	234	1200	.195	
1 1/2	2 3/4 in.	270	1200	.225	
1 3/4	3 in.	324	1200	.270	
1 7/8	3 1/2 in.	432	1200	.360	
2	3 3/4 in.	502	1200	.418	
2 1/8	4 1/2 in.	720	1200	.600	

Prices on Application

Inquire for prices on Full and Half Coil lots.

Braided Cotton Rope

Stock No.	Diam. Inches	Price per Ft.	Weight Per 100 Ft. in Lbs.
8	1/4	\$.01	2 1/4
10	3/8	.02	3 1/2
12	1/2	.04	5 1/4

Twisted Cotton Rope

Very pleasant to handle. Can be used in many places on small boats as guard rails on dingies for fine yachts and cruisers and to make bumpers for all types of boats. Made of best selected cotton hemp, soft laid, three-ply.



Diam. Inches	Length Full Coil, Feet	Approx. Feet in 1 Lb.	Price per Ft.
1/8	2500	85	\$.01
1/4	1600	55	.01 1/2
3/8	1200	35	.02
1/2	1000	25	.03
5/8	600	15	.05
3/4	600	10	.06
7/8	600	7	.15
1	600	4 1/2	.25
1 1/4	600	3 1/4	.35

Cotton Sail Twine

A very satisfactory sail twine from standpoint of uniformity, length and strength. Furnished in 1/2 pound balls.

Each \$.30



Braided Cotton Lines

Stock No.	Length Hank Feet	No. of Hanks Connected	Per Hank
3 1/2	48	12	\$.30
4	48	12	.35
4 1/2	48	12	.45
5	48	12	.55

Marline

	per Ball
TARRED YACHT MARLINE	
1-lb. balls	\$.75
WHITE YACHT MARLINE	
1-lb. balls	\$.60
REGULAR COARSE MARLINE	
1-lb. balls	.30



Portable Searchlight

GOOD VALUE

Designed for use with

EVEREADY, HOT SHOT, Battery No. 1562

and

BURGESS, UNIFLEX, Battery No. 4F5H

FOR USE WITH:	Diam. Lens Inches	Polished Brass Each	Chromium Each	
Eveready Fig. 1241	Burgess Fig. 1251	4 1/2	\$5.25	\$6.00
1227	1237	5 3/4	6.25	7.00
1228	1238	6 1/2	7.25	8.00

Also supplied in a baked enamel aluminum finish at the same prices as polished brass.

A strong SEARCHLIGHT equipped with CP bulbs as specified below but higher CP bulbs are supplied if ordered.

FOR USE WITH:	Diam. Lens Inches	CP Bulb	Polished Brass Each	Chromium Each	
Eveready Fig. 1243	Burgess Fig. 1253	4 1/2	15	\$5.25	\$6.00
1221	1231	5 3/4	21	6.25	7.00
1222	1232	6 1/2	32	7.25	8.00
Bulbs	15 CP	21 CP	32 CP	50 CP	
	\$.20	\$.25	\$.20	\$.50	
Lenses	4 1/2 Inch	5 3/4 Inch	6 1/2 Inch		
	\$.50	\$.60	\$.70		

We can supply all lights with a strong canvas shoulder strap of 40 inch length which fastens with two brass snap-hooks to eyes on the bracket at an extra charge of \$1.75 each.

Decalomania Transfer Letters and Numerals

3 6 E 7 5

The Government requires that Registration numbers and letters shall be not less in size than 3 inches and displayed in such a manner and color as to be distinctly visible and legible.

Size	3 Inches	2 Inches	1 Inch	1/2 Inch
Price Each	\$.12	\$.08	\$.02	\$.01

The 2 inch size is used also for "NAME OF BOAT" and 1 inch and 1/2 inch size is used for lettering interior of boats, such as, INFORMATION—OFFICE—JOHN DOE—CAPTAIN—WASH ROOM—MEN—WOMEN—PLEASE TURN OUT LIGHTS—Etc., Etc.

Braided Rope Fenders



Length Each	12 In.	16 In.	18 In.	20 In.
	\$.85	\$1.10	\$1.40	\$1.75

Canvas Yacht Fenders



Made of Sail Duck, filled with cork and well made. Spur grommet will insure proper fastenings for lanyard.

Size Each	3x12 in.	3½x15 in.
	\$.50	\$.75

Made of Heavy Sail Duck filled with cork. Rope through center.

Stock sizes. Special sizes to order.

Size In.	Each	Size In.	Each	Size In.	Each
3x12	\$.90	8x24	\$ 3.75	8x36	\$ 5.75
4x16	1.25	10x24	4.50	10x36	6.75
5x18	1.60	12x24	5.25	12x36	8.00
6x22	1.90	8x30	4.75	8x48	7.50
8x22	2.25	10x30	5.75	10x48	9.00
		12x30	6.75	12x48	10.50

Rubatex Fenders or Bumpers



Rubatex is more buoyant than cork or balsa wood. No water or moisture can penetrate a Rubatex fender. The soft white cotton rope extending through the bumper makes it double ended.

Length Inches	Width Inches	Price	Length Inches	Width Inches	Price
12	3	\$2.00	18	5	\$4.00
16	4	2.75	22	6	6.00

Netted Rope Fenders



Interior cork filled canvas bag with rope through center.

Size	STOCK SIZES				
	3x12 in.	4x16 in.	5x18 in.	6x22 in.	8x22 in.
Manila	\$2.25	\$3.40	\$4.25	\$5.25	\$6.50
Cotton	3.00	4.00	5.25	7.25	8.00

Tripod Bow Fenders



Canvas—Cork filled.
Rawhide—Hair filled.
Loop in each end.

Size No.	Canvas	Rawhide
1	\$1.25	\$2.75
2	1.75	3.60



Wearpruf Marine Fenders



RUBBER FILLED

Nos.	Size Inches	List Price
31-R—Grommet one end	3x15	\$2.25
34-R—Grommet one end	4x18	3.50
41-R—Grommet one end	5x24	5.75
234-R—Grommet in both ends	4x18	4.00
241-R—Grommet in both ends	5x24	6.00
334-R—Rope ends	4x18	5.25
341-R—Rope ends	5x24	7.50

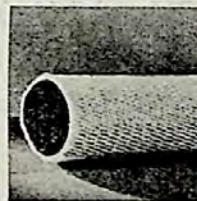
CORK AND RUBBER FILLED

Nos.	Size Inches	List Price
31-CR—Grommet in one end	3x15	\$ 1.50
334-CR—Rope ends	4x18	2.75
341-CR—Rope ends	5x24	4.00
380-CR—Rope ends	8x24	9.50
381-CR—Rope ends	8x28	10.00
382-CR—Rope ends	8x30	10.50
383-CR—Rope ends	8x36	11.00

KAPOK FILLED

Nos.	Size Inches	List Price
31-K—Grommet in one end	3x15	\$1.50
34-K—Grommet in one end	4x18	2.00
41-K—Grommet in one end	5x24	3.00
81-K—Grommet in one end	8x28	6.50
234-K—Grommet in both ends	4x18	2.50
241-K—Grommet in both ends	5x24	3.50
281-K—Grommet in both ends	8x28	7.00

Shipmate Gunwale Guard



1 inch Full Round	.....	\$ .30 per ft. in 50 ft. Coils
1¼ inch Full Round	.....	.40 per ft. in 50 ft. Coils
1¼ inch Half Round	.....	.40 per ft. in 30 ft. Coils
1¼ inch Three-Quarter Round	.....	.50 per ft. in 30 ft. Coils

Shorter lengths at no additional charge.

Canvas Step Fenders



Made of heavy sail duck with filling of granulated cork. Has rope through center with eye spliced in the upper end and a knot on the bottom.

Length Inches	Diameter Inches	Price
16	8	\$2.75
18	10	3.75
20	12	4.50

Solid-Block Cork Ring Buoys



O.D. 30 in.	I.D. 17½ in.	O. D. In.	I. D. In.	Each
CONSOLIDATED CORK				
These buoys are made of Natural Cork compressed in moulds with non-soluble glue. Can be used wherever the 30 inch Government Inspected is not required.				
		15	7	\$2.70
		17	8½	3.00
		19	9½	3.40
		21	10¾	3.75
		24	12½	4.20
		27	15	4.80

Balsa Ring Buoys

Solid Balsa Wood construction, Hydrocyl covered. Light in weight with unusual strength. Smooth Hydrocyl covering in solid white. No paint required. White color is retained indefinitely. Attractive in appearance and practical in use.

Outside Diameter	Price Each
15 inch	\$4.50
17 inch	5.00
19 inch	5.50
24 inch	7.00
17 inch Outside Diameter—Canvas Covered	3.50
19 inch Outside Diameter—Canvas Covered	3.90

Balsa-Wood Life Rafts

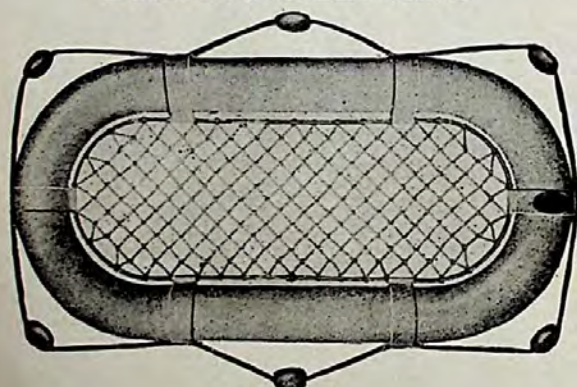


Fig. 607C

Adopted by the U. S. Navy, Army Transport, and Coast Guard Service.

A waterproofed solid elliptical Balsa ring, canvas covered, which will still be serviceable even if crushed. Light in weight and easily handled.

Person Capacity	Length Ft. In.	Breadth Ft. In.	Diam. In.	Approx. Wgt.	Price
5	5-0	2-6	6	40	\$ 50.00
10	7-0	3-6	8	120	125.00
15	8-6	4-0	10	180	155.00
25	10-0	5-6	12	275	210.00

Mattresses and Cushions

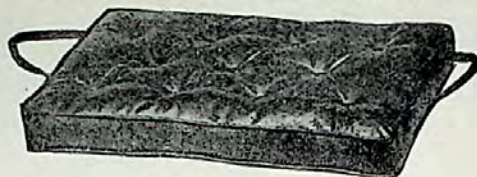


Fig. 1624

PRICE LIST PER SQUARE FOOT

	Kapok Filled
Khaki or Brown Duck, both sides	\$1.25
Art. Leather, duck bottom	1.40
Art. Leather, all sides	1.50
Velours and Tapestry, duck bottom	1.75

Kapok Life Preserver Cushions

Rated by the U. S. Government as a life preserver on pleasure boats. Covered with artificial leather. Red, blue, green, brown and black.

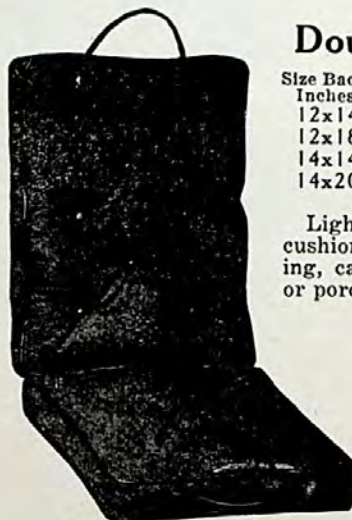
Pillow Type, Corded Edges—Size 17x17

Grade	Each
Grade B	\$1.25
Grade A	1.75

Double Cushions

Size Back, Inches	Size Seat, Inches	Artif. Leather
12x14	12x14	\$3.75
12x18	12x14	4.25
14x14	14x14	4.75
14x20	14x14	5.75

Light, durable, comfortable cushions, convenient for boating, camping, baseball, lawn or porch.



An emergency life preserver that will support the heaviest person.

Size Inches	Artificial Leather
12x18	\$2.25
15x15	2.25
14x20	3.15

Single Cushions

No.	Seat Inches	Artificial Leather or Brown Duck
1	12x18	\$2.50
2	15x15	2.50
3	14x20	3.50

Marine Deck or Beach Mats

Deck or Beach mats for lolling in the sun, healthful, restful, and invigorating, a real comfort.

Rolled up it is fitted with snap fasteners and handle for convenient carrying and occupies a small space in the locker. Opened up it's the most luxurious sun mat imaginable with its soft filling and pillow attached to rest your head. The underside of the Mat is waterproofed to protect against dampness.

Price on Application

Kapok Life Preserver



SPEED BOAT TYPE

	Size	No.
Child's	4 to 7 yrs.	00
"	8 to 12 yrs.	0
Chest	24 to 30	1
"	32 to 36	2
"	38 to 42	3
"	44 to 48	4
"	50 to 54	5

Fig. 606

No.	With Collars		No.	Without Collars	
	Khaki	Colors		Khaki	Colors
00	\$3.60	\$4.50	00	\$2.70	\$3.15
0	3.60	4.50	0	2.70	3.15
1	3.60	4.50	1	2.70	3.15
2	3.60	4.50	2	2.70	3.15
3	3.60	4.50	3	2.70	3.15
4	4.00	5.00	4	3.15	3.60
5	4.50	5.40	5	3.60	4.10

Keep-A-Float Type



Fig. 606B

Every child at play around the water should have one of these comfortable life preservers on at all times.

Made in Orange or Red colors so they can be easily seen.

Unless Red is specified Orange will be sent.

No.	Size	Price Each
00	Child's 4- 7 yrs.	\$1.50
0	Child's 8-12 yrs.	1.50

Cork Life Preserver



Fig. 608

JACKET TYPE
U. S. Gov't Inspected

These Preservers are strictly in accordance with the rules and regulations of the United States Board of Supervising Inspectors. Each preserver is inspected, approved and stamped by a United States Inspector before leaving our factory, and will pass on all vessels coming under U. S. Steamboat regulations.

Size	Each
Adult's	\$2.50
Child's	2.25

Tapatco Life-Save Vests

KAPOK FILLED

Sturdy construction covered with strong olive drab cloth, sewed with Government approved thread. Strong web strap fasteners.



No.	Size	Each
No. 1	Small, 30 to 34 inch chest	\$3.70
No. 2	Medium, 36 to 40 inch chest	3.70
No. 3	Large, 42 to 46 inch chest	3.70
No. 4	Extra Large, 48 to 54 inch chest	3.90

VESTS WITH COLLAR

Style No. 9

No.	Size	Each
No. 2	Medium	\$6.50
No. 3	Large	6.50

Olive drab, white or orange in color with buckles and straps under arm for adjustment of size. Button fasteners.

WOMEN'S LIFE-SAVE VESTS

Style No. 1

In Gay Plaids—Size 36 to 40 bust	Each
.....	\$6.00

Ta-Pat-Co Stay-A-Float

STYLE NO. 18

Patented

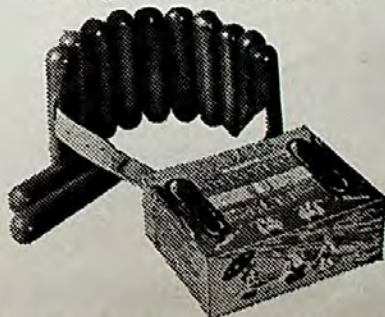
Nothing to Inflate, so nothing to puncture

A neat, compact, cloth covered, Kapok filled Swimming Belt for children, which permits the child to play in and about the water with safety. Children naturally love to play in the water. The TA-PAT-CO Stay-A-Float Swimming Belt keeps them safe. Even strong swimmers need it as a precaution against accidents when they are in a canoe or on the diving dock, in a speeding motor boat, or riding a surfboard. Physical instructors recommend it for teaching children to swim and it is being adopted by public schools, Y. M. and Y. W. C. A.'s and public swimming pools. Colors, red or orange.

Sizes 0, 1 and 2	\$1.99
Size 3	2.40



Buoyant Balsa Belt



To teach swimming start the child with all 10 spindles. Shortly the child will be paddling fearlessly in deep water. Then remove

the spindles one at a time. When the majority are removed the child is actually swimming without realizing it. Price \$1.75

Fire Extinguishers

PYRENE 1 AND 1 1/2 QUART Vaporizing Liquid Pump Type



Smothers all classes of incipient fire, particularly fires in flammable liquids and electrical equipment. Light, compact and easily operated. The double-acting pump with rotating pick-up discharges a steady 25 to 30-foot stream from any position in any direction. For motorcycles, airplanes and heavy vehicles, "shock absorber" construction and clamp type brackets for wall or steering post guard against wear from excessive vibration. Labeled by Underwriters' Laboratories. Sold with charge and bracket.

C21	1	Qt. Brass, Wall Bracket	\$14.00
C22	1	Qt. Nickel, Wall Bracket	15.50
C24	1	Qt. Chrom. Wall Bracket	16.00
C25	1	Qt. Enamel Finish, Wall Br.	14.00
C31	1 1/2	Qt. Brass, Wall Bracket	17.00
C32	1 1/2	Qt. Nickel, Wall Bracket	18.50
C34	1 1/2	Qt. Chromium, Wall Bracket	19.00
C35	1 1/2	Qt. Enamel Finish, Wall Bracket	17.00

ESSANAY 2 1/2 Gallon Soda-Acid (Wet Chemical) Type

This sturdy riveted shell extinguisher, operated the same as the Guardene, is offered at lower cost without sacrifice of quality or efficiency. Ejects a 40-foot stream to extinguish fire in ordinary combustible materials. Shell, dome and bottom are cold-rolled copper with seams thoroughly sweated and backed with solder. Side seam is riveted and soldered. Tested to 350 pounds pressure. Labeled by Underwriters' Laboratories.



With marine valves.

SX13	Polished Copper	\$16.50
SX12	Copper, Nickel Plated	18.50
SX14	Copper, Chromium Plated	19.50
SXR1	2 1/2 Gal. "Essanay" Recharge	.40

FASTFOME 2 1/2 Gallon Foam Type

This extinguisher, similar in operation to the Phomene, is available at lower cost without sacrifice of quality. Produces about 22 gallons of foam for smothering fires in flammable liquids and ordinary combustibles. It is tested to 350 pounds hydrostatic pressure. Labeled by Underwriters' Laboratories. When equipped with a pressure relief valve it meets the requirements of the Bureau of Marine Inspection and Navigation.



PX13	Polished Copper	\$19.50
PX12	Copper, Nickel Plated	21.50
PX14	Copper, Chromium Plated	22.50
PXS13	Polished Copper*	21.50
PXS12	Copper, Nickel Plated*	23.50
PXS14	Copper, Chromium Plated*	24.50
PV1	Extra Pressure Relief Valve	1.50
PXR1	Extra "Fastfome" Recharge	1.15

*Equipped with pressure relief valve.

Fire Extinguishing Liquid

Size Can	Weight Each, Lbs.	Each
Pint	2	\$.75
Quart	3 1/2	1.50
Gallon	13	5.40



Autopulse Electric Fuel Pump

THE MODERN METHOD OF FUEL SUPPLY

AUTOPULSE is positive and automatic. It operates from battery current, using a negligible amount, and gets into action the instant the ignition switch is turned on. Provides a full supply of gasoline to the carburetor even before the motor is cranked.

When the carburetor bowl is filled to the right level, back-pressure develops and automatically stops the action of the pump; and as gasoline is used from the carburetor, the back-pressure is released and the pumping action starts.

Made in two models—the Standard and the Marine DeLuxe. Both have the same operating features, but the Marine DeLuxe is built especially for resistance against salt air or water. Has treated castings, stainless steel and brass mechanism and a brass cover.



Fig. 1389-D

Capacities in gallons per hour.

	Single	Duplex	Triplex	Quad.
Open	22	40	55	65
Restricted	14	25	35	45

	Standard Model	Marine DeLuxe
Single Unit	\$11.50	\$15.00
Duplex	25.00	33.00
Triplex	37.00	49.00
Quad duplex	49.00	65.00

Designed for 6, 12 and 32-volt systems, which must be specified when ordering.

Oberdorfer Backfire Traps



Fig. 952A

Should be installed on every gasoline motor. Eliminates danger of fire starting from backfiring, and effectively traps and kills all backfire. Built to marine specifications from non-corrosive metals and has passed requirements of the Associated Factory Mutual Laboratories. Motor crankcase vent pipe can be lead to outside of trap. Withstands the most terrific backfire and will not affect performance of any motor. Where more than one carburetor is used traps are installed on each carburetor. Various types of connections to fit traps to carburetors can be supplied extra.

No.	For Carburetors Inches	Diam. Inches	Length Inches	Air Horn Conn. Diam. In.	List Price Each
1	Under 1 1/4	3 1/2	2 1/4	1 7/8	\$4.40
3	1 1/4 and 1 1/2	4 1/2	2 1/2	2 3/8	5.50
6	1 3/4 to 2 1/2	5 1/2	2 3/4	3	6.60

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