



PERKINS

**PERKINS MARINE LAMP
and HARDWARE CORPORATION
BROOKLYN, N. Y.**



PERKINS MARINE LAMP AND HARDWARE CORP.

(ESTABLISHED 1907 — INCORPORATED 1917)

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

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

Telephone - Dickens 2-1920

Manufacturers of

SHIP AND BOAT EQUIPMENT
NAVIGATION LIGHTS
MARINE HARDWARE
FOR ALL SIZES AND TYPES OF VESSELS

50th Anniversary



Catalog No. 155

1957

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FOREWORD AND GENERAL INFORMATION

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

You will find illustrated herein a number of new items added to our fast growing line, indicating constant attention to changes in the marine field, our determination to keep abreast of the times and to retain the ability to supply the most desirable and modern equipment.

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

PRICES AND TERMS

Our costs are subject to change due to causes beyond our control. The prices listed herein are only intended for guidance of our jobbers and do not necessarily establish resale prices. Applicable governmental regulations, shipping costs and other complications must be considered in arriving at a fair price. I.E. In areas west of the Mississippi, prices are generally 10% to 15% higher because of the heavy shipping cost involved. **All prices are subject to change without notice** and are F.O.B. New York, unless quoted otherwise. Terms are 30 days net; 2% if payment is sent 10 days from date of invoice.

GUARANTEE

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

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

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

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

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The **PERKO** Plant

Manufacturers of
QUALITY
MARINE EQUIPMENT



Section of Shipping Dept., experienced in handling large volume of traffic efficiently.



Polishing and Grinding Dept. responsible for Perkins' high quality standards.

A view of Perkins' Machine Shop, with latest equipment operated by expert craftsmen.



Tinsmith Dept., which produces Perko ship lights, searchlights, etc.



Part of Plating Dept., which produces Perkins fine finishes.

Partial view of Sheet Metal Press Dept., equipped to handle any job.





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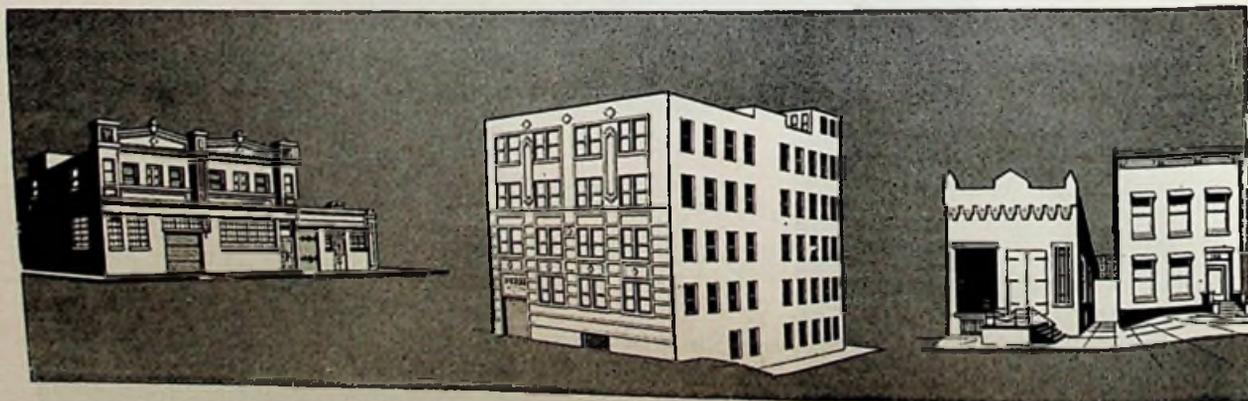


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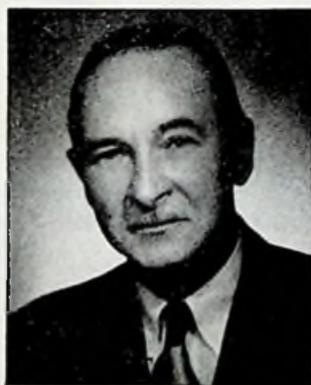
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Streamline Combination BOW LIGHTS

FOR OUTBOARD MOTOR BOATS AND SMALL RUNABOUTS

Heavy Gauge Wrought Brass

WITH REBULBING FEATURE AND FLAG POLE SOCKET

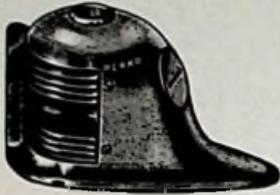


Fig. 1140

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



Rear view showing method of changing bulb

Height Inches	Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
3 1/4	3 3/4 x 6 1/4	2 3/8	3/4	1
Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each	
\$9.75	\$11.25	\$1.45	\$.55	

Spare D.C. Sockets, see Fig. 747, No. 1.
Spare Lenses, see Fig. 259, Class A Standard.
Spare Rebulbing Feature Complete, Polished \$2.20, Chrome \$2.65 Each.

WITHOUT REBULBING FEATURE OR FLAG POLE SOCKET



Fig. 1140-A

With red and green frenal lenses and double contact electric socket. All brass body. Dimensions and spares same as Fig. 1140 above. Chromium plated, Each \$10.00.

"Little Joe"

ZAMAK DIE CASTING — CHROMIUM PLATED

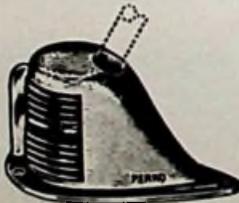


Fig. 1146

Has integral chromium plated color divider and angle flag pole socket. Complete with bulb.

Chromium Plated Each	Height Inches	Base Inches	Height Lens Inches	F. P. Socket Inches	Weight Ounces
\$5.00	2 1/4	4 1/2 x 2 3/8	1 7/8	1/2	7

Spare Miniature Bayonet Socket, Each \$.50.
Spare Lenses, see Fig. 259 Class A—L.J. Each \$.95.
Flag Pole, see Figs. 495 and 496 Size No. 1.

Zamak Die Casting

WITH REBULBING FEATURE AND FLAG POLE SOCKET

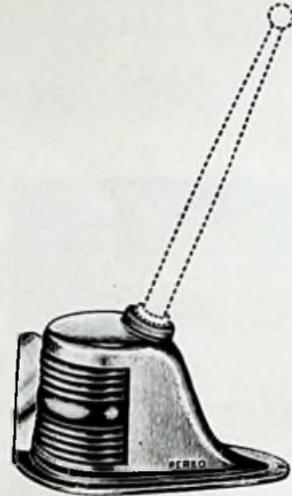


Fig. 1232

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

Chromium Plated Each	Height Inches	Size Base Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
\$8.00	3 1/2	6 1/4 x 3 7/8	2 3/8	3/4	1

Spare D.C. Sockets, see Fig. 747, No. 1.

SELF CONTAINED BATTERY TYPE WITH FLAG POLE SOCKET AND SWITCH FOR SINGLE CELL FLASHLIGHT BATTERY

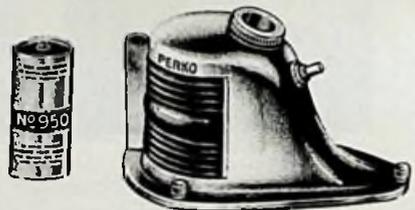


Fig. 1236

Battery and bulb easily replaced by removal of three thumb screws from base.

With red and green frenal lenses, miniature socket and bulb. Zamak die cast body. Battery not included.

Chromium Plated Each	Height Inches	Size Base Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
\$10.00	3 1/2	6 1/4 x 3 7/8	2 3/8	3/4	1 1/4

Spare Flag Pole Socket only for Figs. 1232 and 1236, \$.90 Each.

Spare Lenses, See Fig. 259, Class A Special.

Spare Miniature Bayonet Socket and Switch Assembly for Fig. 1236, \$1.10 each.



**Brass "2 in 1"
Combination
BOW LIGHT**

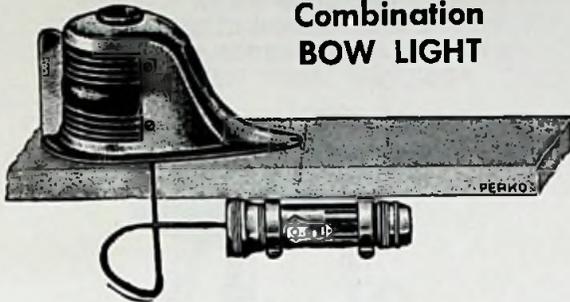


Fig 1147

**ALL BRASS LIGHT
WITH REBULBING FEATURE
FLAG POLE SOCKET — FLASHLIGHT CASE
WITH SWITCH — 2 SPRING CLAMPS — BULB
ALL WIRED READY FOR INSTALLATION**

In addition to a very practical and attractive navigation light, the user has a 2 cell flashlight available and handy at all times as the flashlight case is complete with reflector for light projection.

Supplied with 4 feet of wire to permit location of flashlight case at most convenient spot. Lamp socket is miniature screw type.

Batteries are not included.

Height Light Inches	Base Light Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
3 1/4	3 3/4 x 6 1/4	2 3/8	3/4	1 1/2
Chromium Plated Each	Spare Lenses Each	Spare Bulbs Each		
\$15.25	\$1.45	\$.25		

**Zamak "2 in 1"
Combination
BOW LIGHT**

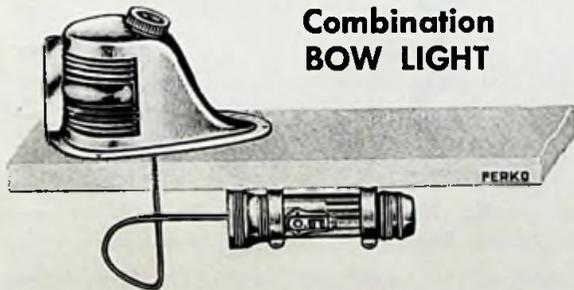


Fig. 1235

**ZAMAK DIE CASTING — CHROMIUM PLATED
WITH REBULBING FEATURE
FLAG POLE SOCKET — FLASHLIGHT CASE
WITH SWITCH — 2 SPRING CLAMPS — BULB
ALL WIRED READY FOR INSTALLATION**

Supplied with 4 feet of wire to permit location of flashlight case at most convenient spot. Lamp socket is miniature screw type.

Batteries are not included.

Chromium Plated Each	Height Light Inches	Base Light Inches	Height Lens Inches	Flag Pole Socket Inches	Weight Pounds
\$12.00	3 1/2	6 1/4 x 3 3/8	2 3/8	3/4	1 1/2

Spare Lenses for Fig. 1147 see Fig. 259 Class A Std.
Spare Lenses for Fig. 1235 see Fig. 259 Class A Spec.

**"Little Joe 2 in 1"
Combination
BOW LIGHT**

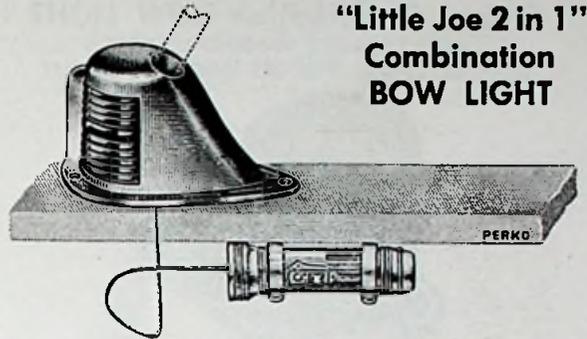


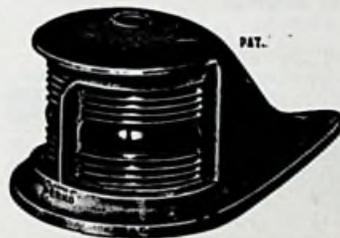
Fig. 1247

**ZAMAK DIE CASTING — CHROMIUM PLATED
WITH FLAG POLE SOCKET — FLASHLIGHT CASE
WITH SWITCH — 2 SPRING CLAMPS
BULB—WIRED READY FOR INSTALLATION**

See Figs. 1146 and 1147 for details, dimensions, spare parts, etc.

Chromium Plated Each	Height Light Inches	Base Light Inches	Height Lens Inches	F. P. Socket Inches	Weight Ounces
\$9.00	2 1/4	4 1/2 x 2 3/8	1 1/8	1/2	15

**Runabout Combination
BOW LIGHTS**



Rear view showing method of changing bulb.

Fig. 598

**CAST BRONZE
WITH REBULBING FEATURE AND F. P. SOCKET**

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

No.	Chromium Plated Each	Height Inches	Base Inches	Height Lens Inches	F. P. Socket Inches	Weight Pounds
1	\$15.00	3 1/4	3 3/4 x 6 1/4	2 3/8	3/4	2
2	18.00	3 1/2	4 1/4 x 7 3/4	2 3/8	1	3 1/2
3	20.00	4 3/8	5 1/2 x 8 3/4	3 3/8	1	4 1/2

**"2 in 1" BATTERY LIGHT ASSEMBLY
CHROMIUM PLATED**

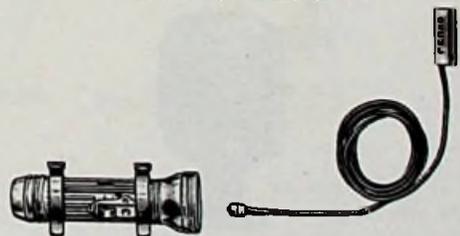


Fig. 1149

No.	Complete Per Set	*Cable only	Length Socket Inches	Length Cable Inches	For Type Light
1	\$4.00	\$1.10	5/8	48	Comb. Bow
2	4.00	1.20	1 1/8	48	Stern Pole

*Cable only, complete with Plug and Socket.



Cruiser Combination BOW LIGHT
HEAVY GAUGE WROUGHT BRASS
WITH REBULBING FEATURE AND F. P. SOCKET

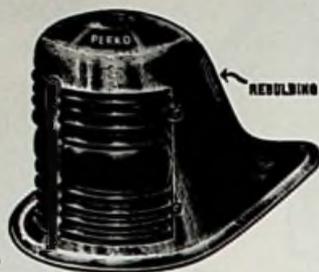


Fig. 1141

Polished Brass Each	Chromium Plated Each	Height Inches	Base Inches	Height Lens Inches	F. P. Socket Inches	Weight Pounds
\$15.25	\$18.75	5 1/8	5 1/8 x 9 1/2	4 1/4	1	2

Spare Lenses, Each \$3.00.
Spare D.C. Sockets, see Fig. 747 No. 5 Each, \$.55
Spare Rebulbing Feature Complete, Polished Each, \$2.20.
Chromium Plated, Each, \$2.65.

Boat TRAILER LIGHT
CHROMIUM PLATED
2 CELL FLASHLIGHT CASE
RED SHATTER-PROOF LENS
ADJUSTABLE SCREW TYPE CLAMP

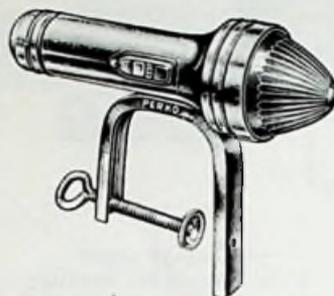


Fig. 143

Each	Length Overall Inches	Opening In Clamp Inches	Weight Ounces
\$3.75	8 3/4	2 3/8	13

Price includes bulb, no batteries.

Combination BOW LIGHT AND VENTILATOR
WITH REBULBING FEATURE AND F. P. SOCKET
CAST BRONZE

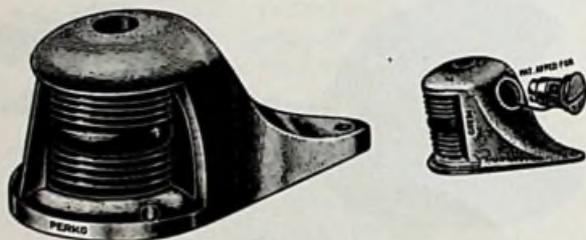


Fig. 640

Complete with red and green frenal lenses and double contact socket.

Chromium Plated Each	Height Inches	Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
\$18.00	3 1/2	4 1/2 x 7 3/4	2 3/8	1	3 1/4

Spare Lenses, see Fig. 259 Class A Standard, Each, \$1.45.
Spare D.C. Sockets, see Fig. 747 No. 1, Each \$.55.

Outboard Combination BOW LIGHT
WROUGHT BRASS



Fig. 485

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

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Diam. Body Inches	Height Lens Inches	Weight Pounds
\$4.75	\$6.00	4 1/2	2 1/2	2 3/8	3/4

"Sport Kit" LIGHTS
FLASHLIGHT BATTERY TYPE — 2 CELL
CHROMIUM PLATED



Fig. 1142

Comb. Bow Light



Fig. 1143

Stern Light

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

Height Overall Inches	Height Overall Inches	Diam. Stem Inches	Height Lens Inches	Size Globe Inches	Weight Each Pounds
Fig. 1142 13 3/4	Fig. 1143 20	3/8	Fig. 1142 2 3/8	Fig. 1143 1 3/8	1
Fig. 1142 Each \$11.25	Fig. 1143 Each \$10.00				Extra Bulbs Each \$.25

Clearance in clamp is 1 3/8 inches.
Price includes one bulb in each light, no batteries.

SPARE PARTS

Lenses for Fig. 1142	Each	\$1.45
Globe for Fig. 1143 with Ferrule	Each	1.80
Head with lenses for Fig. 1142	Each	4.25
Battery container only	Each	3.75
Clamp only	Each	4.25



2 1/2 OR 3 INCH GLOBE, FIG. 250 OR 251
 COMPLETE WITH FLAG POLE SOCKET AND
 ELECTRIC CONNECTIONS IN POLE AND SOCKET
 HOLLOW MAHOGANY POLE — VARNISHED



Improved
 POLE
 LIGHT
 ASSEMBLY

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 Pole Inches	Chromium Plated Each	Diam. Base of Pole Inches	Weight Pounds
24	\$17.50	1 1/4	2
30	18.50	1 1/4	2 1/8
36	19.50	1 1/4	2 1/4
48	20.50	1 1/4	3

Spare Clear Globes Each \$1.75
 Spare electric bulb sockets Fig. 747, No. 2 . . . Each .55
 Electric connectors only (male & female) . . . per set 1.30
 Complete except F. P. socket, deduct Each 1.50
 With Red, Green or Blue Globe, add Each .50
 Furnished with 2 1/2 inch globe unless otherwise specified.
Important Note: Above can be supplied with vertical ribbed acorn-shaped globe per Fig. 247, deduct . . . Each \$.25

HIGH INTENSITY
 COMPLETE WITH SOCKET AND ELECTRIC
 CONNECTIONS IN POLE AND SOCKET
 MAHOGANY POLE — CAST BRONZE SOCKET



Junior
 POLE
 LIGHT
 ASSEMBLY

Fig. 1145

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

Length Pole Inches	Chromium Plated Each	Weight Pounds
20	\$15.50	1
24	16.25	1 1/8
30	17.25	1 1/4

Complete except F. P. socket, deduct Each \$1.00
 Spare clear globes Fig. 604 Each 1.25
 Spare electric bulb sockets, Fig. 747, No. 2 . . . Each .55
 Electric connectors only (male & female) . . . per set 1.20

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



Junior
 POLE
 LIGHT
 ASSEMBLY

Fig. 846

Length Pole Inches	Chromium Plated Each	Diam. Pole Inches	Weight Pounds
20	\$13.75	3/4	1 1/8
24	14.00	3/4	1 1/4
30	14.50	3/4	1 1/2

Complete except F. P. socket, deduct Each \$.80
 Spare clear globes Fig. 604 Each 1.25
 Spare electric bulb sockets, Fig. 747, No. 2 . . . Each .55
 Electric connectors only (male & female) . . . per set 1.20



Adjustable POLE LIGHT

1 3/4 INCH FRESNEL GLOBE — BRASS POLE
ZAMAK DIE CAST STREAMLINE BASE



Fig. 1233

D.C. ELECTRIC SOCKET
DIAM. POLE 3/4 INCH
COMPLETE WITH CORK GASKET
AND
WIRED READY FOR INSTALLATION

No.	Dimensions Base Inches	Weight Pounds
1	3 3/8 x 2 1/4	1
2	3 3/8 x 2 1/4	1 1/8
3	3 3/8 x 2 1/4	1 1/4

No.	Maximum Length Inches	Chromium Plated Each
1	20	\$ 9.50
2	24	9.75
3	30	10.25

**Adjustable POLE LIGHT
HIGH INTENSITY**

1 1/2 INCH FRESNEL BALL GLOBE



Fig. 609

BRASS POLE
BRONZE BASE
D.C. SOCKET, WIRED
COMPLETE WITH CONNECTORS
DIAM. POLE 3/4 INCH

No.	Weight Pounds
1	1 1/4
2	1 1/2
3	1 1/2

No.	Maximum Length Inches	Chromium Plated Each
1	20	\$12.00
2	24	12.25
3	30	12.75

Adjustable to various lengths down to 4 3/4 inches.
Knurled nut holds pole firmly in place.

Adjustable to various lengths down to 5 inches. Knurled
nut holds pole firmly in place.

Cruiser POLE LIGHTS

BRASS — CHROMIUM PLATED
1 3/4 INCH FRESNEL GLOBE
DOUBLE CONTACT ELECTRIC SOCKET

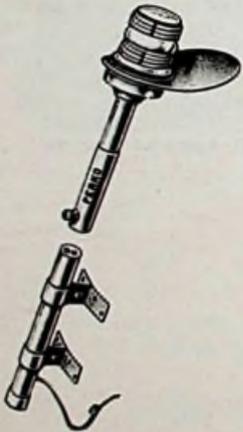


Fig. 658

COMPLETE WITH CORK GASKET
AND
WIRED READY FOR INSTALLATION
DIAM. POLE 3/4 INCH

No.	Dimensions of Bracket Inches	Weight Pounds
1	2 1/4 x 3/4	1 1/4
2	2 1/4 x 3/4	1 1/2
3	2 1/4 x 3/4	1 3/4

No.	Length Overall Inches	Each
1	24	\$13.50
2	30	14.00
3	36	14.50

Spare Glare Shields, \$1.75 Each

Designed for mounting on windshield of small cruisers.

Top portion of pole is removable as illustrated. Electric connections are inside of tubular pole at joint and a cap is supplied to make lower portion watertight when top is removed.

Mounting brackets are adjustable and flexible to fit any shape of windshield post.

Spare Globes for Figs. 603, 609, 625, see Fig. 604.

Spare Globes for Figs. 658 and 1233, see Fig. 248.

Spare Electric Sockets for all above, see Fig. 747 No. 2.

IMPORTANT NOTE: Figs. 658 and 1233 can be supplied with vertical ribbed acorn-shaped globe per Fig. 247, deduct \$.25 each.

**Junior POLE LIGHT
HIGH INTENSITY**

1 1/2 INCH FRESNEL BALL GLOBE



Fig. 603

HOLLOW BRASS POLE
CAST BRONZE BASE
D.C. ELECTRIC SOCKET
WIRED READY FOR INSTALLATION
DIAM. POLE 3/4 INCH

No.	Length Overall Inches	Weight Ounces
1	20	11
2	24	12
3	30	16

No.	Length Overall Inches	Polished Brass Each	Chromium Plated Each
1	20	\$9.50	\$11.50
2	24	9.75	11.75
3	30	10.25	12.25

**"Little Joe" POLE LIGHT
HIGH INTENSITY**

1 1/2 INCH FRESNEL BALL GLOBE
POLISHED ALUMINUM
DOUBLE CONTACT ELECTRIC
SOCKET

An attractive companion for our "Little Joe" combination light, Fig. 1146.

Pole is adjustable to various lengths down to 5 inches.

WIRED READY FOR INSTALLATION



Fig. 625

Length Overall Inches	Each	Diam. Pole Inches	Weight Ounces
20	\$7.25	9/16	10
24	7.50	9/16	11



"2 in 1"

Adjustable Flag POLE LIGHT

HIGH INTENSITY
WITH 1½ INCH FRESNEL
BALL GLOBE. ALL BRASS
WITH STREAMLINE BASE.
COMPLETE AS ILLUSTRATED
— WITH BULB.

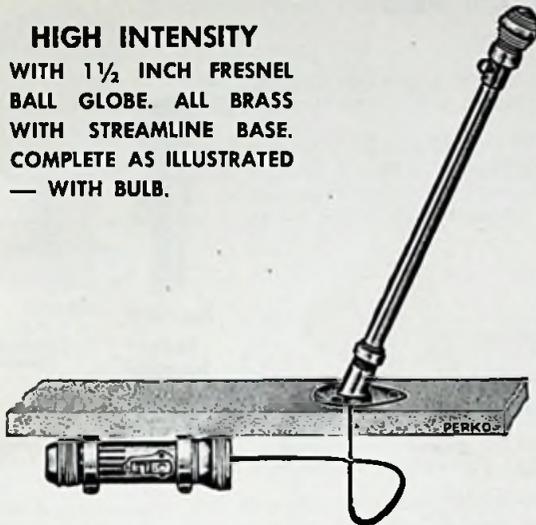


Fig. 1148

This is our popular Fig. 609 pole light supplied with a 2 cell flashlight case, mounting clamps and wire. Batteries are not included.

Maximum Length Inches	Chromium Plated Each	Diameter Pole Inches	Weight Pounds
20	\$15.50	¾	1¼
24	15.75	¾	1½

Spare Clear Globes Fig. 604 \$1.25 Each
Spare Bulbs25 Each

"2 in 1"

Adjustable Flag POLE LIGHT

WITH 1¼ INCH FRESNEL
GLOBE. BRASS POLE —
STREAMLINE ZAMAK BASE
COMPLETE AS ILLUSTRATED
— WITH BULB.

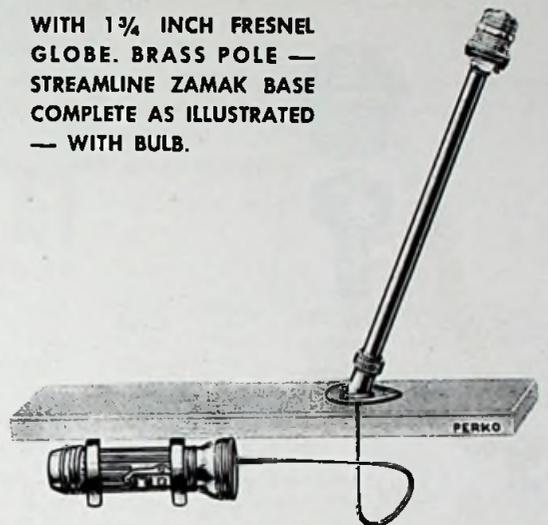


Fig. 1239

Our Fig. 1233 Pole Light with a 2 cell flashlight case, mounting clamps and wire. Batteries not included.

Maximum Length Inches	Chromium Plated Each	Diameter Pole Inches	Weight Pounds
20	\$13.00	¾	1½
24	13.25	¾	1¾

With vertical ribbed globe Fig. 247, deduct \$.25 each

Battery POLE LIGHT
CHROMIUM PLATED



Fig. 710

Mahogany Pole



Fig. 711

Brass Pole

Two standard flashlight cells in battery case will supply weeks of service in ordinary intermittent use. Complete with bulb and switch, no batteries.

Fig.	Each	Length Overall Inches	Diam. Base Inches	Weight Ounces
710	\$8.00	20	1	8
711	8.25	20	¾	17

FLAG POLES
MAHOAGANY

Turned from solid seasoned mahogany. Varnished, hand rubbed polished finish.

No.	Each	Length Overall Inches	Diam. Base Inches	Weight Ounces
1	\$1.45	14	½	1
2	1.75	18	¾	2½
3	2.20	18	1	4
4	3.00	24	1	5
5	4.25	30	1¼	8½
6	5.00	36	1½	13
7	6.50	48	1¾	26

With brass ferrule, add \$.75 Each.



Fig. 496

BRASS — CHROMIUM PLATED

Tubular Brass Pole with eyes for flag. Size No. 1 fits combination Bow Light Fig. 1146. Size No. 2 Figs. 1140, 1147, 1232, 1235 and 1236.

No.	Each	Length Overall Inches	Diam. Base Inches	Weight Ounces
1	\$2.90	14	½	2
2	3.25	18	¾	6



Fig. 495



POLE LIGHTS

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



Fig. 484
Heavy
Duty
Type



Fig. 491
Standard
Type



Fig. 600
High
Intensity
Type

Fig.	No.	Chromium Plated Each	Spare Globes Each	Diameter Globe Inches	Height Overall Inches	I.D. Neck Inches	Maximum Bulb C.P.	Weight Ounces
484	1	\$8.75	\$1.75	2½	5	¾	50	16
	2	8.75	1.75	3	5¾	¾	50	18
491	1	7.25	1.75	2½	5	¾	50	12
	2	7.25	1.75	3	5¾	¾	50	14
600		5.75	1.25	1½	4¼	⅝	6	7

STERN LIGHTS

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



Fig. 404
High
Intensity
Type



Fig. 422
Standard
Type



Fig. 506
Heavy
Duty
Type



Fig. 438
Standard
Streamline
Type



Fig. 439
High Intensity
Streamline
Type

Fig.	No.	Polished Brass Each	Chromium Plated Each	Spare Globes Each	Diameter Globe Inches	Height Overall Inches	Size Base Inches	Maximum Bulb C.P.	Weight Ounces
404			\$7.25	\$1.25	1½	3½	2⅜	6	7
422	1	\$7.00	8.00	1.75	2½	6	2⅜	50	12
	2	7.00	8.00	1.75	3	6½	2⅜	50	14
	3	8.25	9.25	1.75	3	12	2⅜	50	20
506	1		10.50	1.75	2½	5½	2⅜	50	18
	2		10.50	1.75	3	6	2⅜	50	20
	3		11.50	1.75	3	12	2⅜	50	26
438	1		9.25	1.75	2½	6	3⅜x2¼	50	13
	2		9.25	1.75	3	6½	3⅜x2¼	50	13
	3		10.50	1.75	2½	12	3⅜x2¼	50	20
	4		10.50	1.75	3	12½	3⅜x2¼	50	20
439	1		8.75	1.25	1½	6	3⅜x2¼	6	11
	2		9.75	1.25	1½	12	3⅜x2¼	6	18

NOTE: Spare Globes, see Figs. 250, 251 and 604. With Red, Green or Blue Globes add \$.50 each. Spare sockets see Fig. 747 #2.

Figs. 422, 438, 484, 491 and 506 can be supplied with vertical ribbed acorn-shaped globe Fig. 247 in clear only, deduct \$.25 each.



STERN LIGHTS
CAST BRONZE



Equipped with 360 degree fresnel lens and double contact electric socket.

Any height desired can be secured by placing required length of 1 inch brass pipe at joint marked "A". These parts have standard 1 inch pipe thread.

Height Overall Inches	Diam. Base Inches	Diam. Body Inches	Height Lens Inches	Weight Pounds
7	3 1/2	3 1/2	3 3/8	2 1/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each
\$14.25	\$15.50	\$17.75	\$2.20	\$.55

With red, green, blue or amber lens, add \$1.50 each.
With medium screw socket fig. 346 for 15 watt bulb, add \$1.80 each.

MAST LIGHTS
CAST BRONZE



Fig. 521

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

Height Overall Inches	Diam. Body Inches	Height Lens Inches	Inside Length Neck Inches	Inside Diam. Neck Inches	Weight Pounds
6 3/4	3 1/2	3 3/8	2 1/2	1 1/4	2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Lens Fig. 261 Each	Spare Socket Fig. 747 Each	
\$13.00	\$14.00	\$15.75	\$2.20	\$.55	

With red, green, blue or amber lens, add \$1.50 each.
With medium screw socket fig. 346 for 15 watt bulb, add \$1.80 each.

STERN LIGHTS
CAST BRONZE

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



Fig. 112

Equipped with clear fresnel globe and fig. 222 No. 1 medium screw electric socket.

Height Overall Inches	Diam. Base Inches	Size of Globe Inches	Weight Pounds
8 3/4	3 3/8	5x3 1/2	3 3/4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	
\$12.00	\$14.00	\$16.25	

Spare globes, \$3.25 each.
Spare sockets, \$.85 each.

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, No. 3 add \$.90 each.

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



Fig. 113

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

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
9	1 3/4	2 1/2	5x3 1/2	4
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$12.75	\$15.00	\$17.50		

Spare globes, \$3.25 each.
Spare sockets, \$.85 each.

With red, green, blue or amber globe, add \$1.75 each.
With double contact socket fig. 276, No. 3, add \$.90 each.

STERN LIGHTS
WROUGHT BRASS

With 360 degree fresnel lens and double contact electric socket.

Can be furnished in any height desired. 18" and longer, has a 5 1/4" diameter base.



Fig. 1119

Height Overall Inches	Diam. Base Inches	Diam. Neck Inches	Height Lens Inches	Weight Pounds
10	3 1/2	1 1/8	3 3/8	1 1/4
Polished Brass Each	Chromium Plated Each			
\$11.50	\$13.25			

Height other than standard, add \$1.80 for each 6 inches or fraction thereof.

With red, green, blue or amber lens add \$1.50 each.
Spare clear lens fig. 261, \$2.20 each.
Spare socket fig. 276, No. 3 \$.90 each.

MAST LIGHT

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



Fig. 83

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

Height Overall Inches	Diam. Bottom Opening Inches	Inside Length Neck Inches	Size of Globe Inches	Weight Pounds
10	1 3/4	2 1/2	5x3 1/2	5 1/2
Plain Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$20.00	\$23.50	\$27.00		

Spare clear globes, \$3.25 each.
Spare guards, \$4.85 each.
Spare sockets, \$.85 each.

With red, green, blue or amber globe add \$1.75 each.
With double contact socket fig. 276, No. 3, add \$.90 each.



POLE OR MAST LIGHT

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

Fig. 362

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

No.	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$6.00	\$6.85	\$7.75	2 1/2	3 1/2	2 3/8	1
2	6.00	6.85	7.75	3	4	2 3/8	1 1/2



Fig. 103

MAST AND YARDARM LIGHTS



Fig. 104

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

Fig. 103 threaded for 1/2 inch pipe.

Fig. 104 for mounting on Truck or Yardarm.

Will accommodate 15 watt A-17 bulb.

Fig.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Diam. Globe Inches	Wt. Lbs.
103	\$8.75	\$10.75	\$12.75	6	3	2
104	9.75	12.25	14.25	5 1/2	3	2

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

Spare clear globes fig. 249, \$2.40 each.

Spare sockets fig. 222, No. 1, \$.85 each.

With double contact socket fig. 276, add \$.90 each.



Fig. 488

MAST LIGHTS

**BRASS BASE
CLEAR FRESNEL GLOBE
MEDIUM SCREW SOCKET**



Fig. 489

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

Fig. 489 drilled for mounting on mast truck.

Plain Bronze Each	Polished Bronze Each	Height Overall Inches	Diam. Base Inches	Size Globe Inches	Opening in Globe Inches	Wt. Lbs.
\$7.00	\$7.85	6	2 3/4	5 1/2 x 2 3/4	1 3/4	1

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

Spare clear globes fig. 77, \$2.20 each.

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

Special porcelain electric sockets only fig. 222, No. 2. \$1.20 each.

Bulbs for above, 120 volt 10 watt, clear \$.50 each.



Fig. 136

POLE OR MAST LIGHT

**CAST BRONZE
THREADED FRESNEL GLOBE
BAYONET DOUBLE CONTACT
SOCKET FOR 1 1/2 INCH DIAMETER
MAST**

No.	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Diam. Globe Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$5.35	\$6.35	\$6.75	2 1/2	4	1 1/2	1

Spare globes, see fig. 250.



Fig. 145 with Guard

MAST LIGHTS



Fig. 309 without Guard

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

Fig.	Height Overall Inches	Size Globe Inches	Opening In Globe Inches	Tapped for Pipe Size Inches	Wt. Lbs.
145	7 3/8	5 x 3 1/2	2 3/4	1/2	3 1/4
309	6 1/2	5 x 3 1/2	2 3/4	1/2	2 1/2

Fig.	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Spare Clear Globes Each
145	\$14.50	\$16.50	\$19.50	\$3.25
309	9.75	11.50	13.50	3.25

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

Spare medium screw sockets fig. 222 No. 1, \$.85 each.

With double contact socket fig. 276 No. 3, add \$.90 each.

Spare threaded brass guards, \$4.80 each.

MEAL AND ABSENT LIGHT

CAST BRONZE — WATERTIGHT



Fig. 329 with Double Contact Socket

Fig. 330 with Medium Screw Socket

For mounting on yardarm. Supplied with two Fresnel globes, one blue, the other clear, Fig. 251.

Fig.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Size Base Inches	Diam. Globe Inches	Wt. Lbs.
329	\$17.75	\$21.00	9	3 3/8 x 1 3/4	3	2
330	19.75	23.00	10	3 3/4 x 1 3/4	3	2 1/2

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

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



Streamline SIDE LIGHTS
CAST BRONZE
CLASSES 2 AND 3 — ELECTRIC

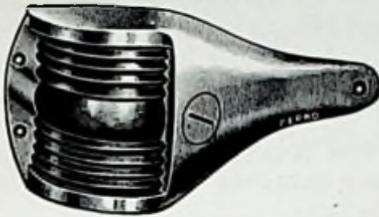


Fig. 563

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

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

Class	Height Inches	Length Inches	Height Lens Inches	Weight Per Pair Pounds
2	4 $\frac{3}{4}$	10 $\frac{1}{2}$	4 $\frac{1}{4}$	5 $\frac{1}{2}$
3	6	10 $\frac{1}{2}$	5 $\frac{3}{8}$	7 $\frac{1}{2}$

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$26.50	\$32.00	\$3.00	\$.55
3	39.00	45.00	3.75	.55

Spare Lenses, see Fig. 259

Spare D.C. Sockets, see Fig. 747, No. 1.

Streamline BOW LIGHTS
CAST BRONZE
CLASSES 2 AND 3 — ELECTRIC

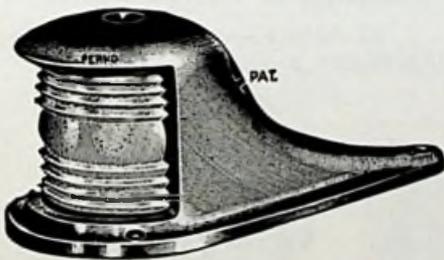


Fig. 561

Furnished with clear fresnel lens and double contact electric socket.

Class	Height Inches	Size Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
2	5 $\frac{1}{4}$	5 $\frac{3}{4}$ x11 $\frac{1}{2}$	4 $\frac{1}{4}$	1	7
3	6 $\frac{3}{8}$	6 $\frac{3}{8}$ x13	5 $\frac{3}{8}$	1	8 $\frac{3}{4}$

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$23.50	\$29.00	\$3.00	\$.55
3	33.50	39.50	3.75	.55

Spare Lenses, see Fig. 260.

Spare D.C. Sockets, see Fig. 747, No. 5.

SPARE REBULBING FEATURES FOR ALL ABOVE LIGHTS, POLISHED \$2.20, CHROMIUM PLATED \$2.65 EACH. LIGHTS ON THIS PAGE CANNOT BE SUPPLIED WITH MEDIUM SCREW SOCKET.

Streamline SIDE LIGHTS
WROUGHT BRASS
CLASS 2 — ELECTRIC



Fig. 1138

Design is gracefully streamlined and quality is up to our usual high standard.

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

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

Extreme Height Inches	Extreme Length Inches	Height Lens Inches	Weight Per Pair Pounds
6 $\frac{3}{8}$	9 $\frac{3}{8}$	4 $\frac{1}{4}$	3 $\frac{1}{4}$

Bright Finish Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
\$21.75	\$23.75	\$29.00	\$3.00	\$.55

Spare Lenses, see Fig. 259.

Spare D.C. Sockets, see Fig. 747, No. 1.

Streamline BOW LIGHTS
WROUGHT BRASS
CLASS 2 — ELECTRIC

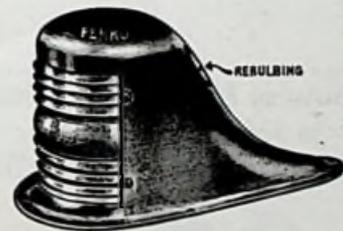


Fig. 1139

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	Size Base Inches	Height Lens Inches	Flagpole Socket Inches	Weight Pounds
5 $\frac{3}{8}$	5 $\frac{3}{8}$ x9 $\frac{1}{2}$	4 $\frac{1}{4}$	1	2

Bright Finish Each	Polished Brass Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
\$15.50	\$16.75	\$19.00	\$3.00	\$.55

Spare Lenses, see Fig. 260.

Spare D.C. Sockets, see Fig. 747, No. 5.

With Flag Pole Socket add \$1.10 each.

Furnished without Flag Pole Socket unless otherwise specified.



Perko "International" NAVIGATION LIGHTS

CAST BRONZE—WATERTIGHT

Shielded to U.S.C.G. Visibility Requirements, Revised Rules of Motorboat Act.
Effective June 4, 1956 — Public Law 552

Legal For All Types of Boats — Under 65 Feet in Length and Under 40 Gross Tons.
For Use on Inland and International Waters.

ELECTRIC—DOUBLE CONTACT BAYONET TYPE SOCKETS
WATERTIGHT PACKING GLANDS FOR CABLE ENTRANCE
NECK THREADED 7/8 INCH 18 THREAD

Side Lights

10 POINTS — 112½ DEGREES
VISIBILITY — 2 MILES
COLORED LENSES — 1 RED AND 1 GREEN

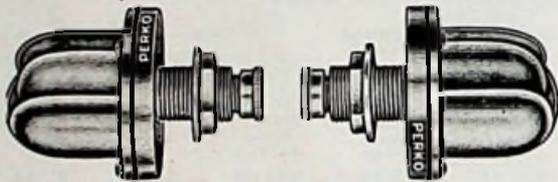


Fig. 910

Plain
Bronze
Per Pair
\$15.00

Chromium
Plated
Per Pair
\$22.00

Height
Lens
Inches
2½

Length
Overall
Inches
4¼

Diam.
Flange
Inches
2¾

Weight
Per Pair
Pounds
2½

Stern Lights

12 POINTS — 135 DEGREES
VISIBILITY 3 MILES — CLEAR LENS

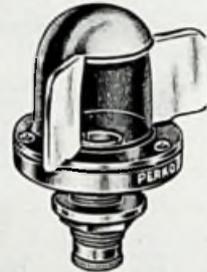


Fig. 912

Plain
Bronze
Each
\$7.50

Chromium
Plated
Each
\$11.00

Height
Lens
Inches
2¾

Length
Overall
Inches
4¼

Diam.
Flange
Inches
2¾

Weight
Each
Pounds
1¼

Bow or Masthead Lights

20 POINTS — 225 DEGREES
VISIBILITY 3 MILES — CLEAR LENS

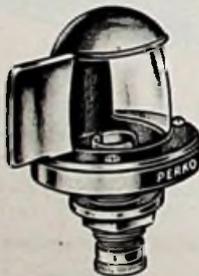


Fig. 911

Plain
Bronze
Each
\$7.50

Chromium
Plated
Each
\$11.00

Height
Lens
Inches
2¾

Length
Overall
Inches
4¼

Diam.
Flange
Inches
2¾

Weight
Each
Pounds
1¼

Anchor or Range Lights

32 POINTS — 360 DEGREES
VISIBILITY 3 MILES — CLEAR LENS



Fig. 913

Plain
Bronze
Each
\$7.00

Chromium
Plated
Each
\$10.00

Height
Lens
Inches
2¾

Length
Overall
Inches
4¼

Diam.
Flange
Inches
2¾

Weight
Each
Pounds
¾

Spare Lenses for all above lights:

- Clear \$1.00 each
- Colored, Red or Green 1.20 each
- Spare D.C. Sockets, Fig. 276 No. 090 each

Special Coupling

7/8 Inch 18 Thread To 1/2 Inch I.P.S. Thread
For mounting above lights on 1/2 inch pipe this special
reducing coupling is offered.

Fig. 57 — \$1.40 each



Perko "International" NAVIGATION LIGHTS

SHIELDED TO U.S.C.G. VISIBILITY REQUIREMENTS, REVISED RULES OF MOTOR BOAT ACT
EFFECTIVE JUNE 4, 1956—PUBLIC LAW 552

LEGAL FOR ALL TYPES OF BOATS—UNDER 65 FEET IN LENGTH AND UNDER 40 GROSS TON.
FOR USE ON INLAND AND INTERNATIONAL WATERS.

BOW, MASTHEAD AND RANGE LIGHTS

225 DEGREE CLEAR FRESNEL LENSES—20 POINT
VISIBILITY 3 MILES
DOUBLE CONTACT ELECTRIC SOCKET



Fig. 98



Fig. 174



Fig. 175



Fig. 176

- FIG. 98 ELECTRIC ONLY
- FIG. 174 ELECTRIC ONLY
- FIG. 175 ELECTRIC ONLY
- FIG. 176 OIL OR ELEC.
- FIG. 176 OIL AND ELEC.

	Polished Brass Each	Chromium Plated Each	Height Lens Inches	Height Overall Inches	I.D. Neck Inches	Diam. Base Inches	Weight Pounds
FIG. 98	\$11.00	\$13.75	4 1/4	5 1/2			1 1/2
FIG. 174	10.00	11.50	2 3/8	5 1/4	3/4		1
FIG. 175	10.75	12.25	2 3/8	6		2 3/8	1 1/8
FIG. 176	12.00	14.75	4 1/4	10 1/2			3 1/2
FIG. 176	13.75	16.50	4 1/4	10 1/2			3 1/2

STERN LIGHTS

135 DEGREE CLEAR FRESNEL LENSES—12 POINT
VISIBILITY 3 MILES
DOUBLE CONTACT ELECTRIC SOCKET

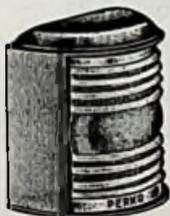


Fig. 99



Fig. 197



Fig. 198



Fig. 97

- FIG. 99 ELECTRIC ONLY
- FIG. 197 ELECTRIC ONLY
- FIG. 198 ELECTRIC ONLY
- FIG. 97 OIL OR ELEC.
- FIG. 97 OIL AND ELEC.

	Polished Brass Each	Chromium Plated Each	Height Lens Inches	Height Overall Inches	I.D. Neck Inches	Diam. Base Inches	Weight Pounds
FIG. 99	\$9.50	\$12.00	4 1/4	5 1/4			1 1/2
FIG. 197	10.00	11.50	2 3/8	5 1/4	3/4		3/4
FIG. 198	10.75	12.25	2 3/8	6		2 3/8	1
FIG. 97	10.50	13.25	4 1/4	10 1/2			3
FIG. 97	12.25	15.00	4 1/4	10 1/2			3

SPARE LENSES

For Figs. 98-176, \$3.50 each. For Figs. 97-99, \$3.00 each. Figs. 174-175-197-198, \$1.75 each.
Medium Screw Socket Adapters for Figs. 97-98-99-176 only, add \$1.75 each.

Royal COMBINATION BOW LIGHTS

ELECTRIC ONLY—DOUBLE CONTACT
WITH RED AND GREEN LENSES



Fig. 89

Galv. Each	Polished Brass Each	Chromium Plated Each	Height Inches	Width Inches	Height Lens Inches	Weight Pounds
\$8.00	\$9.75	\$11.75	3 $\frac{3}{4}$	4 $\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{1}{4}$

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

Royal SIDE LIGHTS

ELECTRIC ONLY—DOUBLE CONTACT
WITH RED AND GREEN LENSES



Fig. 91

Class	Galv. Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Height Inches	Height Lens Inches	Weight Per Pair Pounds
1	\$12.00	\$15.50	\$19.50	4 $\frac{1}{4}$	3 $\frac{3}{8}$	1 $\frac{3}{4}$
2	12.50	16.00	20.00	5	4 $\frac{1}{4}$	2
3	14.50	18.00	22.00	6	5 $\frac{3}{8}$	3

Spare Lenses, see Fig. 259.

Royal BOW LIGHTS

ELECTRIC ONLY—DOUBLE CONTACT
WITH CLEAR LENS



Fig. 92

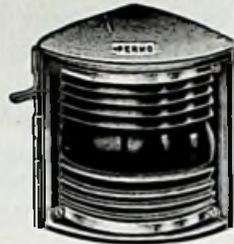
Class	Galv. Each	Polished Brass Each	Chromium Plated Each	Height Inches	Height Lens Inches	Weight Pounds
1	\$6.00	\$7.75	\$9.75	4 $\frac{1}{4}$	3 $\frac{3}{8}$	1
2	6.25	8.00	10.00	5	4 $\frac{1}{4}$	1 $\frac{1}{2}$
3	7.25	9.00	11.00	6	5 $\frac{3}{8}$	2

Spare Lenses, see Fig. 260.

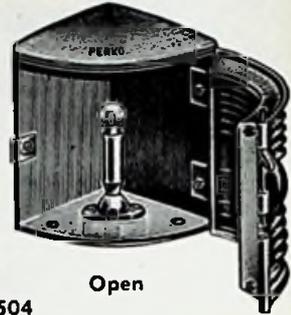
All above lights with medium screw adapter, Fig. 153, add \$.75 Each.

De-Lite SIDE LIGHTS

CAST BRONZE—WITH FRONT DOORS
RED AND GREEN LENSES
ELECTRIC ONLY—DOUBLE CONTACT



Closed



Open

Fig. 504

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

Class	Height Inches	Angle Inches	Height Lens Inches	Weight Per Pair Pounds
2	5 $\frac{1}{2}$	3 $\frac{3}{4}$ x3 $\frac{3}{4}$	4 $\frac{1}{4}$	6 $\frac{1}{2}$
3	6	4 x4	5 $\frac{3}{8}$	8

Class	Polished Bronze Per Pair	Chromium Plated Per Pair	Spare Lenses Each	Spare Sockets Each
2	\$27.50	\$32.50	\$3.00	\$.90
3	32.50	38.50	3.75	.90

With medium screw sockets, add \$3.50 per pair.

Spare D.C. Sockets, see Fig. 276, No. 0.

Spare Lenses, see Fig. 259.

With clear lens, Class 2 or 3, add \$2.00 per pair.

De-Lite BOW LIGHTS

CAST BRONZE—WITH FRONT DOORS
CLEAR LENS
ELECTRIC ONLY—DOUBLE CONTACT



Fig. 505

Same construction as Fig. 504 above.

Class	Height Inches	Width Inches	Height Lens Inches	Weight Pounds
2	5 $\frac{1}{2}$	5 $\frac{1}{2}$	4 $\frac{1}{4}$	3 $\frac{3}{4}$
3	6 $\frac{1}{2}$	6	5 $\frac{3}{8}$	4 $\frac{1}{4}$

Class	Polished Bronze Each	Chromium Plated Each	Spare Lenses Each	Spare Sockets Each
2	\$13.75	\$16.25	\$3.00	\$.90
3	16.25	19.25	3.75	.90

With Medium screw sockets, add \$1.75 Each.

Spare D.C. Sockets, see Fig. 276, No. 0.

Spare Lenses, see Fig. 260.

With Colored Lens, Class 2, add \$1.75 Each.

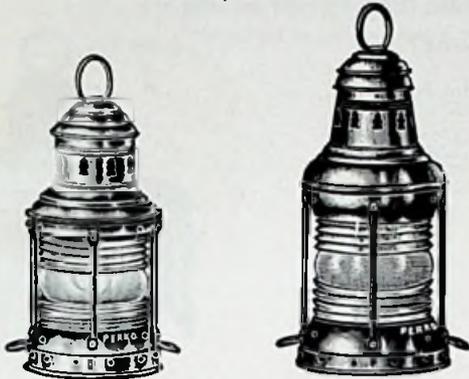
With Colored Lens, Class 3, add \$2.50 Each.

Colored Lenses are Red, Green or Blue.

Amber available in Class 2 only.



“Perko” De-Lite ANCHOR LIGHTS
TURRET TOP—REMOVABLE GUARDS
FOR CLASSES 1, 2 AND 3 BOATS



Junior
Fig. 0-2

Height
 Less Ring
 Inches
 8³/₈
 11¹/₄

Diam.
 Base
 Inches
 4¹/₂
 5⁵/₈

Senior
Fig. 0-6

Height
 Lens
 Inches
 3³/₁₆
 4¹/₄

Weight
 Pounds
 2
 3

OIL OR ELECTRIC ONLY

Fig.
 0-2
 0-6

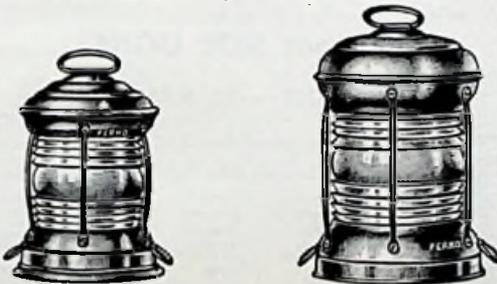
Fig.
 0-2
 0-6

	Galv. Each	Polished Brass Each	Chromium Plated Each
Fig. 0-2	\$9.00	\$11.25	\$14.50
Fig. 0-6	10.75	13.00	16.50

Comb. Oil and Electric, add \$1.75 each.

Fig. 0-6 with Hinged Bottom, add \$2.50 each.

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



Junior
Fig. 11

Height
 Less Ring
 Inches
 6
 9

Diam.
 Base
 Inches
 4¹/₂
 5⁵/₈

Senior
Fig. 12

Height
 Lens
 Inches
 3³/₁₆
 4¹/₄

Weight
 Pounds
 1¹/₂
 2¹/₂

ELECTRIC ONLY—DOUBLE CONTACT SOCKETS

Fig.
 11
 12

Fig.
 11
 12

	Galv. Each	Polished Brass Each	Chromium Plated Each
Fig. 11	\$9.00	\$11.25	\$14.50
Fig. 12	10.75	13.00	16.50

With Red, Green, Blue or Amber Lens.

Figs. 0-2 and 11, add \$2.00 each.

Figs. 0-6 and 12, add \$2.40 each.

All above lights with Medium Screw Electric Sockets, add \$.75 each.

SPARE PARTS

	Each
Lenses, fig. 261, Clear, for figs. 0-2 and 11	\$2.20
Lenses, fig. 261, Clear, for figs. 0-6 and 12	2.90
Oil Founts, fig. 287, Brass, for fig. 0-2	2.00
Oil Founts, fig. 286, Brass, for fig. 0-6	2.00
Oil and Electric Founts, fig. 735, for fig. 0-2	4.25
Oil and Electric Founts, fig. 736, for fig. 0-6	4.25
Oil Burners, fig. 246, No. 0, Brass, for fig. 0-2	.35
Oil Burners, fig. 246, No. 1, Brass, for fig. 0-6	.40
Other parts, see page 20.	

10 Day Oil ANCHOR LIGHT
360 DEGREE CLEAR FRESNEL LENS
LATCHED SWIVEL FOUNT

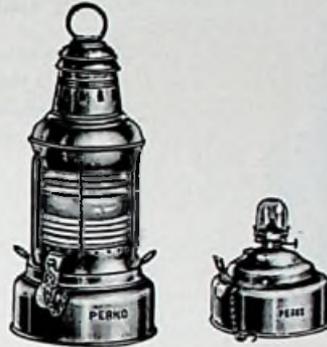


Fig. 596

Fig. 596A

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

Polished Brass Each	Height Lens Inches	Height Overall Inches	Diam. Fount Inches	Capacity Fount Pints	Weight Pounds
\$26.00	4 ¹ / ₄	14	7	3 ¹ / ₂	4 ¹ / ₂

With red, green, blue or amber lens, add \$2.40 each.

Fig. 596-A Fount complete, \$13.00 each.

Light only, less Fount, \$15.50 each.

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

Spare lenses, see fig. 261.

21 Day Battery ANCHOR LIGHT
BRASS CASE
WITH TOGGLE SWITCH AND BULB



Fig. 48

500 hours of continuous light on one battery.

Uses ordinary 1¹/₂ volt dry cell such as Eveready No. 6 or equal. Bulb is Mazda No. 1800.

Polished Brass Each	Chromium Plated Each	Height Inches	Diam. Base Inches
\$15.75	\$18.50	10 ¹ / ₂	3

With battery, add \$1.50 each.

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

Spare globes, see Fig. 250.

Spare batteries, \$1.50 each.

Spare bulbs, \$.28 each.



"Perko" De-Lite Combination BOW LIGHTS

TURRET TOP—FRONT DOOR

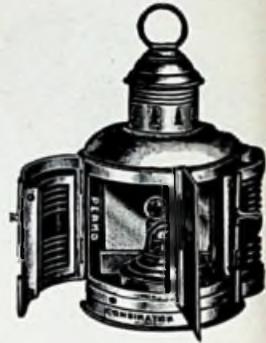
FOR CLASS ONE BOATS—16 FEET AND OVER AND LESS THAN 26 FEET IN LENGTH

OIL AND ELECTRIC, DOUBLE CONTACT

Green Lens for Starboard, Red Lens for Port
 Height, less ring, 9 3/8 inches
 Measurements of base, 5 inches x 5 1/2 inches
 Height of lens, 3 3/8 inches
 Weight, 3 3/8 pounds



(Closed)



(Opened)

Fig. 0-1

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$13.00	\$15.25	\$19.00

De-Lite Combination BOW LIGHTS

FLAT TOP—FRONT DOOR

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

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



(Closed)



(Opened)

Fig. 0-10

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$13.00	\$15.25	\$19.00

Combination BOW LIGHTS

TURRET TOP OR FLAT TOP

BOTTOM OPENING

WITH RED AND GREEN LENSES

TURRET TOP

Height less Ring, 9 inches.
 Meas. of Base, 4 3/4 x 4 1/2 inches.
 Height of Lenses, 3 3/8 inches.
 Weight, 2 5/8 pounds.



Fig. 1

	Galvanized Each	Polished Brass Each
Oil or Elec. Only	\$10.00	\$12.50
Oil and Electric	11.00	13.50

FLAT TOP

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



Fig. 3

	Galvanized Each	Polished Brass Each
Electric Only	\$10.00	\$12.50

Chromium plated finish, add \$3.50 each to Polished Brass price.

Electric Socket is Double Contact.

Sail Boat SIDE LIGHTS

SMALL SIZE — OIL BURNING

Designed for Sail Boats where small oil burning side lights are desirable.



Fig. 69

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

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$16.00	\$20.00	\$27.00

Oil and Electric, with Fig. 735, Fount, add \$3.50 per pair.

Electric socket is bayonet double contact.

Spare Lenses, see Fig. 259, Class 1.

Spare Founts, see Figs. 287 or 735.

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

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.70 EACH

SPARE PARTS

	EACH	EACH
Lenses, Fig. 259, Class 1 Combination	\$2.20	\$3.35
Oil Founts, Fig. 582, Brass, for Fig. 01	2.00	.06
Oil Founts, Fig. 733, Brass, for Fig. 1	2.00	.90
Oil and Electric Founts, Fig. 733, Brass, for Fig. 1	4.25	.65
Oil Burners, Fig. 246, No. 0, Brass		
Oil Wicks, Fig. 302, No. 0		
Electric Sockets, Double Contact, Fig. 276, No. 2		
Electric Sockets, Medium Screw, Fig. 346, No. 1		



"Perko" De-Lite SIDE LIGHTS

TURRET TOP

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

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

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



(Closed)

Fig. 0-4

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$22.50	\$27.50	\$35.00



(Opened)

"Perko" De-Lite BOW LIGHTS

TURRET TOP

CLASS 2—OIL AND ELECTRIC, DOUBLE CONTACT

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

Fig. 0-5

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With Clear Lens	\$11.25	\$13.75	\$17.50
With Red, Green, Amber or Blue Lens	13.50	16.00	19.75



(Closed)



(Opened)

"Perko" De-Lite SIDE LIGHTS

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7¼ inches
Measurements of base, 5⅞ inches x 5⅞ inches
Height of lens, 4¼ inches
Weight, per pair, 5½ pounds

Fig. 0-40

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$22.50	\$27.50	\$35.00



(Closed)



(Opened)

"Perko" De-Lite BOW LIGHTS

FLAT TOP—CLASS 2

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height, less ring, 7⅞ inches
Measurements of base, 5 inches x 5½ inches
Height of lens, 4¼ inches
Weight, each, 2¾ pounds

Fig. 0-50

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With Clear Lens	\$11.25	\$13.75	\$17.50
With Red, Green, Amber or Blue Lens	13.50	16.00	19.75



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.70 EACH

SPARE PARTS

	Each
Lenses, fig. 259, Class 2, for figs. 0-4 and 0-40	\$3.00
Lenses, fig. 260, Class 2, for figs. 0-5 and 0-50	3.00
Oil Founts, fig. 582, Brass, for figs. 0-4 and 0-5	2.00
Oil Burners, fig. 246, No. 1, Brass for figs. 0-4 and 0-5	.40
Oil Wicks, fig. 302, No. 1	.07
Electric Sockets, Double Contact, fig. 276, No. 2	.90
Electric Sockets, Medium Screw, fig. 346, No. 1	.65



"Perko" De-Lite SIDE LIGHTS

TURRET TOP

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

OIL AND ELECTRIC, DOUBLE CONTACT

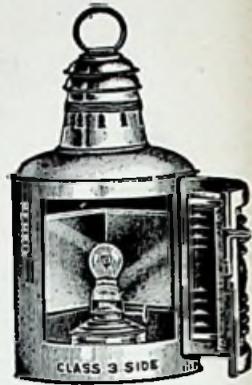
Height of lens, 5 $\frac{3}{8}$ inches
 Height, less ring, 12 $\frac{1}{4}$ inches
 Measurements of base, 5 $\frac{3}{8}$ inches x 5 $\frac{3}{8}$ inches
 Weight, per pair, 8 pounds

Fig. 0-8

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$26.00	\$31.50	\$40.00



(Closed)



(Opened)

"Perko" De-Lite BOW LIGHTS

TURRET TOP

CLASS 3—OIL AND ELECTRIC, DOUBLE CONTACT

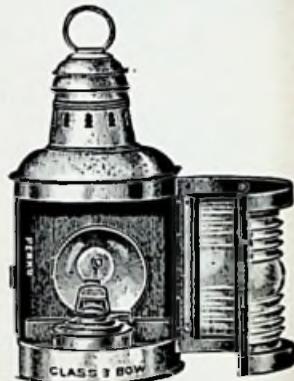
Height of lens, 5 $\frac{3}{8}$ inches
 Height, less ring, 12 $\frac{1}{4}$ inches
 Measurements of base, 5 $\frac{1}{2}$ inches x 6 $\frac{1}{8}$ inches
 Weight, each, 4 pounds

Fig. 0-9

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$13.00	\$15.75	\$20.00
With Red, Green or Blue Lens	15.50	18.25	22.50



(Closed)



(Opened)

"Perko" De-Lite SIDE LIGHTS

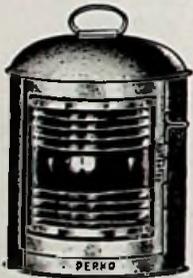
FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height of lens, 5 $\frac{3}{8}$ inches
 Height, less ring, 8 $\frac{1}{2}$ inches
 Measurements of base, 5 $\frac{3}{8}$ inches x 5 $\frac{3}{8}$ inches
 Weight, per pair, 7 pounds

Fig. 0-80

Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
\$26.00	\$31.50	\$40.00



(Closed)



(Opened)

"Perko" De-Lite BOW LIGHTS

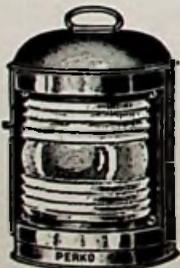
FLAT TOP—CLASS 3

ELECTRIC ONLY—DOUBLE CONTACT SOCKET

Height of lens, 5 $\frac{3}{8}$ inches
 Height, less ring, 8 $\frac{1}{2}$ inches
 Measurements of base, 5 $\frac{1}{2}$ inches x 6 $\frac{1}{8}$ inches
 Weight, each, 4 pounds

Fig. 0-90

	Galvanized Each	Polished Brass Each	Chromium Plated Each
With clear lens	\$13.00	\$15.75	\$20.00
With Red, Green or Blue Lens	15.50	18.25	22.50



(Closed)



(Opened)

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$1.70 EACH

SPARE PARTS

	Each
Lenses, fig. 259, Class 3, for figs. 0-8 and 0-80	\$3.75
Lenses, fig. 260, Class 3, for figs. 0-9 and 0-90	3.75
Oil Founts, fig. 582, Brass, for figs. 0-8 and 0-9	2.00
Oil Burners, fig. 246, No. 1, Brass, for figs. 0-8 and 0-9	.40
Oil Wicks, fig. 302, No. 1	.07
Electric Sockets, Double Contact, fig. 276, No. 3	.90
Electric Sockets, Medium Screw, fig. 346, No. 1	.65



Class 2 SIDE LIGHTS

RED AND GREEN LENSES
BOTTOM OPENING—SPRING FOUNT

Height of Lenses, 4¼ inches.
Extreme Height, 10½ inches.
Size of Base, 4¾x5½ inches.
Weight, per pair, 5½ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. only	\$17.50	\$21.00
Oil and Electric	21.00	24.50

Chromium plated finish, add \$6.50 per pair to Polished Brass price.



Fig. 17

Class 2 BOW LIGHTS

CLEAR LENS
BOTTOM OPENING—SPRING FOUNT

Height of Lens, 4¼ inches.
Extreme Height, 10½ inches.
Size of Base, 4¾x5 inches.
Weight, each, 3 lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec. only	\$8.75	\$10.50
Oil and Electric	10.50	12.25

Chromium plated finish, add \$3.25 each to Polished Brass price.

With Red, Green, Amber or Blue Lens add \$2.25 each.



Fig. 18

Class 3 SIDE LIGHTS

RED AND GREEN LENSES
BOTTOM OPENING—SPRING FOUNT

Height of Lenses, 5¾ inches.
Extreme Height, 12½ inches.
Size of Base 5x6¼ inches.
Weight, per pair, 7½ lbs.

	Galvanized Per Pair	Polished Brass Per Pair
Oil or Elec. only	\$21.00	\$26.50
Oil and Electric	24.50	30.00

Chromium plated finish, add \$7.00 per pair to Polished Brass price.



Fig. 19

Class 3 BOW LIGHTS

CLEAR LENS
BOTTOM OPENING—SPRING FOUNT

Height of Lens, 5¾ inches.
Extreme Height, 12½ inches.
Size of Base, 5½x6¼ inches.
Weight, each, 3½ lbs.

	Galvanized Each	Polished Brass Each
Oil or Elec. only	\$10.50	\$13.25
Oil and Electric	12.25	15.00

Chromium plated finish, add \$3.50 each to polished Brass price.

With Red, Green or Blue Lens add \$2.50 each.



Fig. 20

Flat Top SIDE LIGHTS

CLASSES 2 AND 3—RED AND GREEN LENSES
BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET



Fig. 4

CLASS 2

Height of Lenses, 4¼ inches.
Extreme Height, 7¼ inches.
Size of Base 4¾x5½ inches.
Weight, per pair, 5 lbs.

CLASS 3

Height of Lenses, 5¾ inches.
Extreme Height, 8½ inches.
Size of Base, 5x6¼ inches.
Weight, per pair, 7 lbs.

Class	Galvanized Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
2	\$17.50	\$21.00	\$27.50
3	21.00	26.50	33.50

Flat Top BOW LIGHTS

CLASSES 2 AND 3—CLEAR LENS
BOTTOM OPENING—SPRING FOUNT
ELECTRIC ONLY—DOUBLE CONTACT SOCKET



Fig. 5

CLASS 2

Height of Lens, 4¼ inches.
Extreme Height, 7¼ inches.
Size of Base, 4¾x5 inches.
Weight, each, 2½ lbs.

CLASS 3

Height of Lens, 5¾ inches.
Extreme Height, 8½ inches.
Size of Base, 5½x6¼ inches.
Weight, each, 3¼ lbs.

Class	Galvanized Each	Polished Brass Each	Chromium Plated Each
2	\$8.75	\$10.50	\$13.75
3	10.50	13.25	16.75

Class 2 with Red, Green, or Blue Lens add \$2.25 each.
Class 3 with Red, Green, or Blue Lens add \$2.50 each.

ALL LIGHTS ON THIS PAGE WITH MEDIUM SCREW ELECTRIC SOCKETS ADD \$.75 EACH.

SPARE PARTS

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

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



TOWING or SIGNAL LIGHTS

ALL CAST BRONZE — WITH WATERTIGHT BOX
 MEDIUM SCREW SOCKET — CLEAR FRESNEL GLOBES — CAST BRONZE GUARD
 MAXIMUM LAMP 60 WATTS — VISIBILITY 5 MILES PER U.S.C.G. REGULATIONS

SINGLE LIGHT

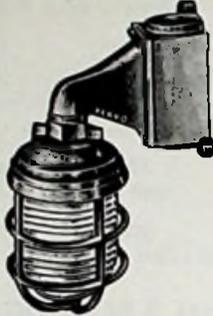


Fig. 540

Box Not Tapped, See Below

Each	Height Overall Inches	Width Overall Inches	Weight Pounds
\$29.00	10 $\frac{1}{4}$	6 $\frac{3}{4}$	6 $\frac{3}{4}$

TRIPLE LIGHT

With $\frac{1}{2}$ " Brass Pipe — Lights 3 Feet Apart

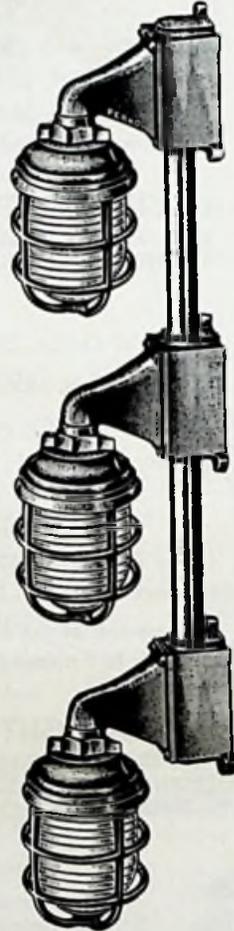


Fig. 542

DOUBLE LIGHT

With $\frac{1}{2}$ " Brass Pipe — Lights 3 Feet Apart

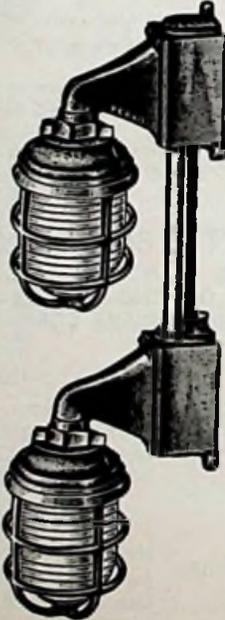


Fig. 541

Each	Height Overall Inches	Width Overall Inches	Weight Pounds	Each	Height Overall Inches	Width Overall Inches	Weight Pounds
\$68.00	46 $\frac{1}{2}$	6 $\frac{3}{4}$	16	\$108.00	82 $\frac{1}{2}$	6 $\frac{3}{4}$	25 $\frac{1}{2}$

SPARE GLOBES clear Fig. 106, \$3.25 each.

COLORED GLOBES can be supplied. Colors are red, green, blue or amber. Add \$1.25 for each globe.

SPARE GUARDS Cast Bronze. \$4.80 each.

SPARE SOCKETS Porcelain Fig. 222 No. 1, \$.85 each.

TAPPING Fig. 540 with one $\frac{1}{2}$ inch pipe tap, add \$.50, with two $\frac{1}{2}$ inch pipe taps, add \$1.00. Box will accommodate $\frac{3}{4}$ inch pipe tap, if such tapping required, price on application.

Figs. 541 and 542 with $\frac{3}{4}$ inch pipe or tapping for same, price on application.

Figs. 541 and 542 are tapped for the connecting pipe only. If additional taps required, see above.



BLINKER AND LOADING LIGHT



Fig. 1163

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

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

Extreme Height Inches	Height Red Lens Inches	Height Clear Lens Inches	Weight Pounds
17½	5	5½	18
Each	Tubular Bulbs Each	Spare Sockets Each	
\$75.00	\$.90	\$.65	

Spare clear lenses fig. 261, \$8.75 each.
Spare red lens fig. 106, \$4.50 each.



Fig. 44

**Globe—
Distress
or
SIGNAL
LIGHT**

**CLEAR GLOBE
OIL BURNING**

No.	Diam. Globe Inches	Galv. Steel Each	Polished Brass Each	Height Overall Inches	Weight Pounds
1	6	\$16.00	\$24.00	11	4
2	8	18.75	28.00	14½	6
3	10	33.50	45.00	22	12

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

Electric only, same prices as above.

Comb. oil and electric 6 and 8 inch, add \$1.75 each.

Comb. oil and electric 10 inch, add \$3.75 each.

Hinged bottom furnished with 8 inch size only.

SPARE PARTS

Size	Globes	Burners	Founts	
			Oil	Elec.
6	Fig. 264	Fig. 246 No. 0	Fig. 287	Fig. 274
8	Fig. 264	Fig. 246 No. 1	Fig. 286	Fig. 292
10	Fig. 264	Fig. 242 No. 2	Fig. 282	Fig. 288

Note—6 inch size with Green Globe, not available.



Fig. 403

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

Size No.	Height Lens Inches	Height Overall Inches	I. P. S. Thread Inches	Weight Pounds	For Vessel Feet
1	3¾	6¾	½	4	up to 65
2	4¼	8¾	¾	6	65 to 150
3	5½	9¾	1	10	over 150

Size No.	Clear Each	Colored Each	Electrical Equipment
1	\$25.00	\$26.50	1 medium screw socket
2	29.00	31.00	1 medium screw socket
2-B	36.00	38.00	6 light candelabra unit
2-C	33.00	35.00	1 mogul 3 wire socket
3	41.50	48.00	1 medium screw socket
3-A	47.00	53.50	4 medium screw sockets
3-C	48.50	55.00	6 light candelabra unit
3-D	45.00	51.50	1 mogul 3 wire socket

All above sockets are Phenolic (Bakelite).

For spare lenses, see fig. 261.

Colored lenses are red, green, blue or amber.

BULBS FOR ABOVE

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

120 volt 25 watt T-10 clear for No. 3-A, \$.90 each.

120 volt 50/50 watt P-25 clear for No. 2-C, 3-D, \$6.00 each.

120 volt, 15 watt, T-7 clear with candelabra base for Nos. 2-B and 3-C. \$1.05 each.

Watertight BLINKER KEY

CAST BRONZE—PLAIN FINISH TUNGSTEN POINTS—CONDENSER U.S.C.G. APPROVED



Fig. 9

Condenser is metal encased, 400 volts D.C. .25 M. F. D. Ground test 2000 volts.

Cover sealed by 6 screws and rubber gasket. Box has three mounting lugs.

Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$33.50	4¾	2¾	2¾	4

Interior complete with Condenser, each \$13.00.



ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

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



Fig. 1150

Side Lights, Fig. 1150

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

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
1	\$96.00	\$120.00	6¾	11	7¼ x 7¼	18	65 to 150
2	124.00	152.00	7½	13½	9½ x 9½	30	over 150
3	212.00	250.00	8½	15¼	10¾ x 10¾	36	over 150

Masthead, Range and Towing Lights, Fig. 1151

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
1	\$48.00	\$60.00	6¾	11	7⅞ x 7¾	8⅝	10
2	62.00	76.00	7½	13½	9 x 10	10%	15
3	106.00	125.00	8½	15¼	10¼ x 11¼	12¾	21

With red or green lens (special purpose) add \$10.00 each.
 With amber lens in Sizes No. 1 and 2 only, add \$10.00 each.



Fig. 1151

Stern Lights, Fig. 1152

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



Fig. 1152

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
1	\$48.00	\$60.00	6¾	11	7 x 7½	8⅝	9
2	62.00	76.00	7½	13½	9 x 10	10%	12
3	106.00	125.00	8½	15¼	10¼ x 10¾	12¼	15

With red or green lens (special purpose) add \$10.00 each.
 With 45 degree red lens (for suction dredges) add \$13.50 each.
 With amber lens in Sizes No. 1 and 2 only, add \$10.00 each.

Anchor Lights, Fig. 1153

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$47.00	\$59.00	6¾	10⅝	7¾	11
2	61.00	75.00	7½	12¾	9¼	16
3	105.00	124.00	8½	14¾	10½	22

Breakdown Lights, Fig. 1154

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
1	\$53.00	\$65.00	6¾	10⅝	7¾	11
2	67.00	81.00	7½	12¾	9¼	16
3	114.00	133.00	8½	14¾	10½	22



Fig. 1153
 Fig. 1154

NOTES

Above prices do not include bulbs.
 For double filament bulbs see fig. 532.
 With 2 medium screw phenolic sockets, sizes No. 2 and 3 only, add \$6.50 each.
 With medium screw phenolic sockets fig. 346, deduct \$1.00 each.
 Spare cast bronze watertight caps with gasket, diameter overall 5¾", diameter across thread 5", \$6.50 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION.



OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

American Improved Hinged Top—Bottom Opening

SWIVEL FOUNT FIG. 282—HINGED BURNER FIG. 242
LIP CHIMNEY FIG. 267—FLAT WICK FIG. 302

Side Lights, Fig. 1155

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



No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
0	\$92.00	\$117.00	5½	13¾	6¾ x 6¾	14	65 to 90
1	96.00	120.00	6¾	14¾	7¼ x 7¼	18	90 to 150
2	124.00	152.00	7½	18	9½ x 9½	29	over 150
3	212.00	250.00	8½	19¾	10½ x 10½	38	over 150

Fig. 1155

Masthead, Range and Towing Lights, Fig. 1156

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$46.00	\$58.50	5½	13¾	7 x 7¼	8½	7
1	48.00	60.00	6¾	14¾	7½ x 7¾	8¾	9
2	62.00	76.00	7½	18	9 x 10	10½	15
3	106.00	125.00	8½	19¾	10½ x 11¼	12¾	21

With red or green lens (special purpose), add \$10.00 each.
With amber lens Sizes No. 0, 1 and 2 only, add \$10.00 each.

Fig. 1156



Stern Lights, Fig. 1157

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



No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$46.00	\$58.50	5½	13¾	7 x 7¼	8½	6
1	48.00	60.00	6¾	14¾	7 x 7½	8¾	8
2	62.00	76.00	7½	18	9 x 10	10½	13
3	106.00	125.00	8½	19¾	10½ x 10½	12¾	16

With red or green lens (special purpose), add \$10.00 each.
With 45 degree red lens (for suction dredges), add \$13.50 each.
With amber lens Sizes 0, 1 and 2 only, add \$10.00 each.

Fig. 1157

Anchor Lights, Fig. 1158

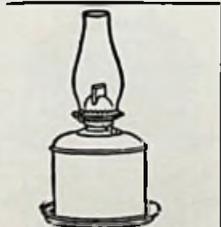
360 DEGREE CLEAR LENS—32 POINT
WITH FOUR LASHING EYES AND WIRE GUARD

No.	Galv. Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Wt. Each Lbs.
0	\$45.00	\$57.50	5½	13	7½	10
1	47.00	59.00	6¾	14	7¾	11
2	61.00	75.00	7½	17½	9¾	17
3	105.00	124.00	8½	18¾	10½	23

Breakdown Lights, Fig. 1159

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

No.	Galv. Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Wt. Each Lbs.
0	\$50.00	\$62.50	5½	13	7½	10
1	53.00	65.00	6¾	14	7¾	11
2	67.00	81.00	7½	17½	9¾	17
3	114.00	133.00	8½	18¾	10½	23



Oil Lamp used in Lights on this page
No. Each
0 or 1 Comp. \$6.50
2 or 3 Comp. 7.80



Fig. 1158
Fig. 1159

ELECTRIC ONLY

With Fig. 288 Medium Screw Adapter, use above prices.
With Fig. 289 Medium Screw Adapter, installed only in Sizes No. 2 and 3, add \$2.75 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$3.00 each.

COMBINATION OIL AND ELECTRIC

With Fig. 288 Medium Screw Adapter, add \$4.50 each.
With Fig. 289 Medium Screw Adapter, installed only in Sizes, No. 2 and 3, add \$7.25 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$7.50 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Flat Top Style — Bottom Opening

MEDIUM SCREW 2 WIRE PHENOLIC ADAPTER FIG. 288 FOR SINGLE FILAMENT BULBS

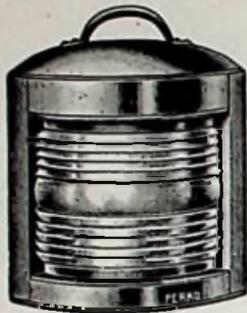


Fig. 30

Side Lights, Fig. 30

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

No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Handle Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
0	\$70.00	\$95.00	5½	10½	6½x6½	12	65 to 90
1	74.00	102.00	6¾	11	7½x7½	14	90 to 150
2	98.00	130.00	7½	13½	9½x9½	24	over 150

Masthead, Range and Towing Lights, Fig. 983

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$35.00	\$47.50	5½	10½	7 x 7	8½	6
1	37.00	51.00	6¾	11	7 x 7	8¾	8
2	49.00	65.00	7½	13½	9 x 9½	10¾	12½

With red or green lens (special purpose) add \$10.00 each.
With amber lens, add \$10.00 each.



Fig. 983

Stern Lights, Fig. 986

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Handle Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$35.00	\$47.50	5½	10½	7 x 7	8½	5½
1	37.00	51.00	6¾	11	7 x 7	8¾	7
2	49.00	65.00	7½	13½	9 x 9½	10¾	9½

With red or green lens (special purpose) add \$10.00 each.
With 45 degree red lens (for suction dredges) add \$13.50 each.
With amber lens, add \$10.00 each.



Fig. 986

Anchor Lights, Fig. 32

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$34.00	\$46.50	5½	9¾	7½	8
1	36.00	50.00	6¾	10¾	7½	9
2	48.00	64.00	7½	12¾	9¾	13

Breakdown Lights, Fig. 84

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Handle Inches	Diam. Base Inches	Weight Each Pounds
0	\$39.00	\$51.50	5½	9¾	7½	8
1	42.00	56.00	6¾	10¾	7½	9
2	54.00	70.00	7½	12¾	9¾	13



Fig. 32
Fig. 84

NOTES

Above prices do not include bulbs.
With double 2 wire medium screw adapter fig. 289 (Size 2 only) add \$2.75 each.
With 3 wire mogul adapter fig. 1082 for double filament bulb, add \$3.00 each.
COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Turret Top — Bottom Opening

SWIVEL FOUNT FIG. 282 — HINGED BURNER FIG. 242
LIP CHIMMNEY FIG. 267 — FLAT WICK FIG. 302

Side Lights, Fig. 21

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



No.	Galvanized Steel Per Pair	Polished Brass Per Pair	Lens Fig. 259 Height Inches	Height Less Ring Inches	Size Base Inches	Weight Per Pair Pounds	For Size Vessel Feet
9	\$70.00	\$95.00	5½	14	6½x6½	13	65 to 90
10	74.00	102.00	6¾	15	7½x7½	15	90 to 150
11	98.00	130.00	7½	18¾	9½x9½	26	over 150

Fig. 21

Masthead, Range and Towing Lights, Fig. 982

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 256 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$35.00	\$47.50	5½	14	7 x 7	8½	7½
1	37.00	51.00	6¾	15	7 x 7	8¾	9½
2	49.00	65.00	7½	18¾	9 x 9½	10¾	14

With red or green lens (special purpose) add \$10.00 each.
With amber lens, add \$10.00 each



Fig. 982

Stern Lights, Fig. 985

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



No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 269 Height Inches	Height Less Ring Inches	Size Base Inches	C to C of Lugs Inches	Weight Each Pounds
0	\$35.00	\$47.50	5½	14	7 x 7	8½	6
1	37.00	51.00	6¾	15	7 x 7	8¾	7½
2	49.00	65.00	7½	18¾	9 x 9½	10¾	10½

With red or green lens (special purpose) add \$10.00 each.
With 45 degree red lens (for suction dredges) add \$13.50 each.
With amber lens, add \$10.00 each.

Fig. 985

Anchor Lights, Fig. 23

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$34.00	\$46.50	5½	13¾	7½	8½
22½	36.00	50.00	6¾	14½	7½	10
23	48.00	64.00	7½	17¾	9¾	14

Breakdown Lights, Fig. 129

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

No.	Galvanized Steel Each	Polished Brass Each	Lens Fig. 261 Height Inches	Height Less Ring Inches	Diam. Base Inches	Weight Each Pounds
22	\$39.00	\$51.50	5½	13¾	7½	8½
22½	42.00	56.00	6¾	14½	7½	10
23	54.00	70.00	7½	17¾	9¾	14



Fig. 23 or 129

ELECTRIC ONLY

With Fig. 288 Medium Screw Adapter, use above prices.
With Fig. 289 Medium Screw Adapter, installed only in
Sizes No. 2, 11 and 23, add \$2.75 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$3.00 each.

COMBINATION OIL AND ELECTRIC

With Fig. 288 Medium Screw Adapter, add \$4.50 each.
With Fig. 289 Medium Screw Adapter, installed only in
Sizes No. 2, 11 and 23 add \$7.25 each.
With Fig. 1082 3 Wire Mogul Adapter, add \$7.50 each.

COPPER LIGHTS MADE TO ORDER—PRICE ON APPLICATION



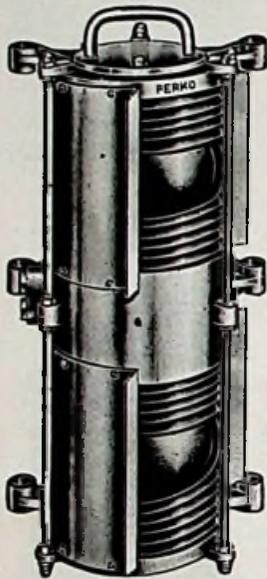
TWO LENS NAVIGATION LIGHTS FOR SHIPS

PER A.I.E.E. SPECIFICATION NO. 45 SECTION 34 PARAGRAPH 34.01

WATERTIGHT—ELECTRIC ONLY—CAST BRONZE

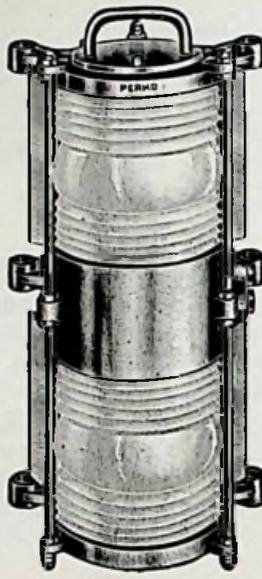
U.S. COAST GUARD APPROVED

SIDE LIGHTS



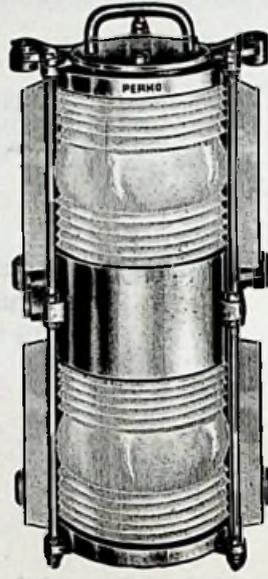
10 Point-112½°
Fig. 1164

**MASTHEAD—RANGE
& TOWING LIGHTS**



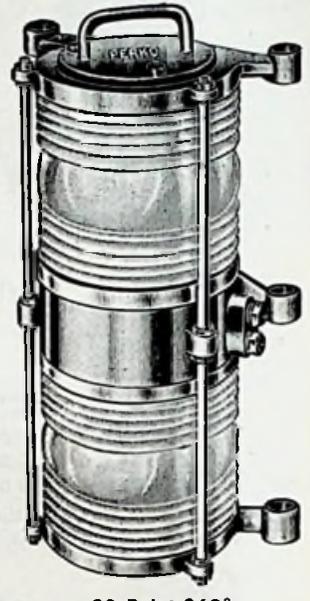
20 Point-225°
Fig. 1165

STERN LIGHTS



12 Point-135°
Fig. 1166

**ANCHOR OR
BREAKDOWN LIGHTS**



32 Point-360°
Fig. 1167-Clear
Fig. 1168-Red

Two individual lights in one body. Each section contains a Fresnel Lens, a medium screw phenolic socket for single filament lamp and a watertight cap for relamping or cleaning. A watertight terminal tube for cable entrance to each section and shields for light angle are included.

Fig.	Description	Price
1164	SIDE LIGHTS, with red lenses for port side, green lenses for starboard side	Per Pair \$250.00
1165	MASTHEAD, RANGE OR TOWING LIGHTS, with clear lenses	Each 120.00
1166	STERN LIGHTS, with clear lenses	Each 120.00
1167	ANCHOR LIGHTS, with clear lenses	Each 118.00
1168	BREAKDOWN LIGHTS, with red lenses	Each 125.00

FIGS. 1165 OR 1166 WITH COLORED LENSES, RED OR GREEN, ADD \$7.00 EACH

Clear Each	Spare Lenses Fig. 261 No. 1½ Colored Each	Spare Sockets Fig. 346 No. 2 Each	Spare Rubber Lens Gaskets Each	Height Less Handle Inches	Centers of Mounting Lugs Inches	Height Lens Inches	Weight Each Pounds
\$14.00	\$21.00	\$.65	\$3.00	18½	8¾	6¾	30

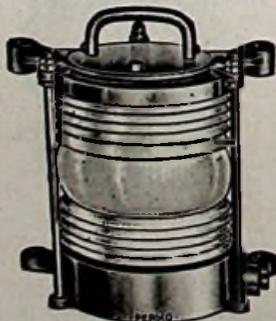


Fig. 1169-Clear
Fig. 1170-Red

Single Lens Anchor or Breakdown Lights

PER A.I.E.E. SPECIFICATIONS NO. 45 .

U.S. COAST GUARD APPROVED

WATERTIGHT—ELECTRIC ONLY—CAST BRONZE

32 POINT—360 DEGREE CLEAR OR RED LENS

Medium Screw Phenolic Socket For Single Filament Lamp

Fig. 1169 Each	Fig. 1170 Each	Height Less Handle Inches	Centers of Mounting Lugs Inches	Height Lens Inches	Weight Pounds
\$75.00	\$78.50	9	8¾	6¾	15½

With shield for reduced light angles, (give degrees of light required) add \$10.00 each.



Navy or Life Boat LANTERN

OIL BURNING—APPROVED
HINGED TOP—CLEAR GLOBE



Fig. 49

Galvanized Each	Polished Brass Each	Height Inches	Diam. of Base Inches	Size of Globe Inches	Weight Pounds
\$10.50	\$13.00	11	5 ⁵ / ₈	4x6 ¹ / ₂	3

With Red or Green globe, add \$1.50 each.

With electric adapter fig. 292, add \$.75 each.

SPARE PARTS

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

Bulkhead LANTERN

WITH REMOVABLE GLASSES
OIL BURNING



Fig. 46

Galvanized Each	Glasses Only Each	Size Body		Height Overall Inches
		Front Inches	Side Inches	
\$29.50	\$1.30	9x13	7 ³ / ₄ x13	16

Supplied for electric only with medium screw socket to order, add \$3.60 each.

Spare brass founts only, \$5.50 each.

Spare burners, Fig. 242 No. 2, \$1.80 each.

Spare chimneys, Fig. 267 No. 2, \$1.20 each.

Spare reflectors, \$5.00 each.

Watertight HAND PORTABLE

CAST BRONZE—WOOD HANDLE
THREADED GLOBE



Fig. 1180

With Medium Screw Socket

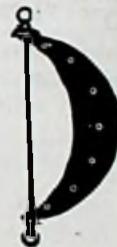
No.	Complete Each	Spare Globes Each	Wattage	Length Overall Inches	Length Globe Inches
1	\$11.75	\$1.45	25	13 ¹ / ₂	4

DAY SIGNALS

FOLDING TYPE—24 INCH DIAMETER
HEAVY DUCK—DOUBLE STITCHED
BRASS GROMMETS—GALVANIZED ROD
AND RIBS



Fig. 169



Ball Folded

Fig.	No.		Height Inches	Weight Pounds	Each
169	5	Black ball	24	2 ¹ / ₂	\$14.50
170R	3	Red ball	24	2 ¹ / ₂	19.00

DITTY BAGS

COMPLETE



Fig. 85

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

Complete, Each\$7.00

SELF CONTAINED BATTERY NAVIGATION LIGHTS

For Oil Carriers, Barges, Scows, Etc.

Watertight Type

3 MILE VISIBILITY—FOR 3 NO. 6 DRY CELLS IN SERIES—WITH SWITCH

Side Lights
112½ Degrees



Fig. 1001

Masthead or
Range Light
225 Degrees



Fig. 1002

Stern
Light
135 Degrees



Fig. 1003

Standard No. 6 Dry
Cells used with
These Lights

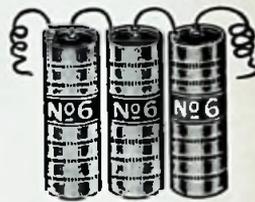


	Fig. 1001 Red and Green Per Pair		Fig. 1002 Clear Each Amber Each		Fig. 1003 Clear Each Amber Each		Fig.	Lens Height Inches	DIMENSIONS Height Body Inches	Size Base Inches	Weight Less Batteries Pounds
	Galvanized	Pol. Brass	Galvanized	Pol. Brass	Galvanized	Pol. Brass					
Galvanized	\$102.00	\$66.00	\$76.00	\$66.00	\$76.00	1001	6¾	11	7¼ x 7¼	18	
Pol. Brass	129.00	80.00	90.00	80.00	90.00	1002	7½	13½	9 x 10	15	
Spare Lenses	25.00	15.00	28.00	12.00	19.00	1003	7½	13½	9 x 10	12	

Above prices include bulbs, no batteries. With batteries add \$4.50 per set of 3.
Spare bulbs, G. E. No. 518, 4 volts, .55 amps, miniature screw base \$.45 each.

Waterproof Type

2 MILE VISIBILITY—FOR 2 NO. 6 DRY CELLS IN SERIES—WITH SWITCH
200 HOURS CONTINUOUS OPERATION ON ONE SET OF BATTERIES

Side Lights
112½ Degrees



Fig. 1008

Masthead or
Range Light
225 Degrees



Fig. 1013

Stern
Light
135 Degrees



Fig. 1014

	Fig. 1008 Red and Green Per Pair		Fig. 1013 Clear Each Amber Each		Fig. 1014 Clear Each Amber Each		Fig.	Height Lens Inches	DIMENSIONS Height Body Inches	Size Base Inches	Weight Less Batteries Pounds
	Galvanized	Pol. Brass	Galvanized	Pol. Brass	Galvanized	Pol. Brass					
Galvanized	\$83.00	\$58.00	\$68.00	\$58.00	\$68.00	1008	6¾	11	7½ x 7½	15	
Pol. Brass	105.00	75.00	85.00	75.00	85.00	1013	7½	13½	9 x 9½	13	
Spare Lenses	25.00	15.00	28.00	12.00	19.00	1014	7½	13½	9 x 9½	10	

Above prices include bulbs, no batteries.

With batteries, add \$3.00 per set of 2.

Bulb is double contact 2.5 volts .15 amp. S-8 \$1.55 each.

Battery containers as illustrated, complete with reflector, socket, bulb and switch. Without batteries, \$31.50 per pair.



30 Day Battery ANCHOR LIGHT

360 DEGREE CLEAR FRESNEL LENS
WATERTIGHT—WITH SWITCH



Fig. 470

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

720 continuous hours of light on one set of batteries.

No.	Galv. Steel Each	Polished Copper Each	Lens Inches	Height Overall Inches	Diam. Base Inches	Wt. Lbs.
1	\$36.00	\$43.50	4¼	15	6¾	5½
2	51.00	59.00	5½	16½	6¾	8½

No. 1 red, green, blue or amber lens, add \$2.40 each.

No. 2 red, green, blue or amber lens, add \$5.50 each.

Light shielded to 112½, 135 or 225 degrees, add \$9.00 each.

Prices include bulb. With batteries add \$6.00 per set.

Spare bulbs, 6 volt .04 amp. miniature base. \$.45 each.

Spare lenses, see fig. 261. Spare switches, see fig. 745.

Spare sockets, \$.60 each.

Spare battery containers, galv., \$11.50 each. Copper, \$14.50 each.

8 Day Western TRAP LIGHT

360 DEGREE CLEAR FRESNEL LENS
OIL BURNING—LATCHED FOUNT



Fig. 14

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

Eight days of continuous light on one filling.

NOTE—This light is made to order and only in quantities of 12 or more.

Galv. Steel Each	Height Lens Inches	Height Overall Inches	Diam. Bottom Inches	Capacity Fount Pints	Wt. Lbs.
\$94.50	7½	22	10	6	20

With red, green or blue lens, add \$7.25 each.

Fount complete with burner and gears, \$36.00 each.

Light only, without Fount, \$63.00 each.

Zenith burner only, \$2.50 each.

Zenith burner with gears, \$6.50 each.

Spare lenses, see fig. 261.

Tri-Color TRAWLER LIGHTS

FOR VESSELS UP TO 75 FEET

ELECTRIC ONLY—MEDIUM SCREW SOCKET

45 DEGREE CLEAR FRESNEL LENS—4 POINT

90 DEGREE RED AND GREEN FRESNEL

LENSES—8 POINT

WITH FIG. 131 BACK BRACKET

BOTTOM OPENING—SPRING FOUNT



Fig. 408 — No. 0

Galv. Steel Each	Spare Lenses Each	Height Less Ring Inches	Height Lenses Inches	Wt. Lbs.
\$35.00	\$4.25	8½	5¾	3½

With bayonet double contact socket to order, same price as above.

With ventilated top for oil burning add \$6.00 each. For oil and electric, add \$7.75 each.

Tri-Color TRAWLER LIGHTS

FOR STEAM TRAWLERS AND FISHING VESSELS LONGER THAN 75 FEET

45 DEGREE CLEAR FRESNEL LENS—4 POINT

90 DEGREE RED AND GREEN FRESNEL

LENSES—8 POINT

WITH FOUR LUGS FOR MOUNTING

BOTTOM OPENING—SWIVEL FOUNT



Fig. 407 — No. 1
Oil or
Electric



Fig. 408 — No. 1
Electric only

Galv. Steel Each	Spare Lenses Each	Height Less Handle		Centers of Lugs Inches	Height Lenses Inches	Wt. Fig. 407 Lbs.
		Fig. 407 Inches	Fig. 408 Inches			
\$71.00	\$6.50	14¾	11½	8½	6¾	9

Above prices apply to Fig. 407 oil or electric and Fig. 408 electric only, with medium screw socket.

Fig. 407 oil and electric, add \$4.50 each.



"PERKO" Bridge and Pier LIGHTS

In strict accordance with specifications and regulations of the Treasury Department, U. S. Coast Guard, on marking and lighting of bridges. See "Aids To Navigation" C.G.-208 Subpart 68.15, January 1st, 1953 with amendments.

Regulation PIER LIGHTS

For Piers, Axis, Abutments, Channel Sides, or Channel Margins. 180 Degree Re-Fresnel Lens. Body of Sheet Steel or Sheet Brass. Electric Socket Is Phenolic Medium Screw, U.S.C.G. Approved.



Fig. 29

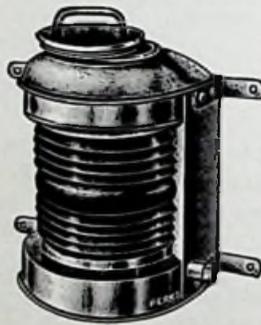


Fig. 31

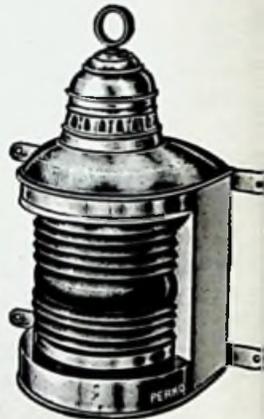


Fig. 59

FIG. 29—For electric only. With bottom opening and brass swivel electric adapter.

FIG. 31—Water-tight, for electric only, with cast bronze threaded cap and brass packing gland for cable.

FIG. 59—For Oil only, Electric only, or Oil and Electric. Has bottom opening and brass swivel fount with burner, and chimney for oil, or brass electric adapter for electricity. Both supplied for "Oil and Electric."

All above supplied with four brackets for mounting.

FIG.		Galv. Steel Each	Polished Brass Each	Height Lens Inches	*Height Overall Light Inches	Width Overall Inches	Size Base Inches	Weight Pounds
29	Electric only	\$67.00	\$82.00	7 $\frac{1}{2}$	13 $\frac{1}{4}$	14 $\frac{1}{2}$	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$	9
31	Electric only	74.00	89.50	7 $\frac{1}{2}$	13 $\frac{1}{4}$	14 $\frac{1}{2}$	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$	11
59	Oil or Electric	67.00	82.00	7 $\frac{1}{2}$	18	14 $\frac{1}{2}$	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$	13
59	Oil and Electric	71.00	87.00	7 $\frac{1}{2}$	18	14 $\frac{1}{2}$	9 $\frac{1}{8}$ x 9 $\frac{1}{8}$	13

With Clear Lens for main channel markers on fixed bridges or with green or amber lens for special purpose, above prices.

* Height of light does not include handle or ring.

Spare Parts

	Each		Each
Fresnel Lenses	\$21.00	Oil Fount	\$4
Mounting Brackets	1.30	Oil Burner	1
Electric Socket	.65	Oil Wicks	
Electric Adapter	4.50	Chimneys	1

Regulation PIER LIGHTS

Cast Bronze or Cast Aluminum — Emery Finish — Watertight
For Piers, Axis, Abutments, Channel Sides or Channel Margins.

180 Degree Red Fresnel Lens.

Electric Only — With Phenolic Medium Screw Approved Socket.



Fig. 125



Fig. 1005

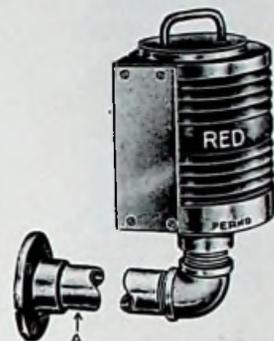


Fig. 1010

FIG. 1005—Has four integral mounting lugs drilled for $\frac{3}{8}$ inch diameter bolt and brass packing gland for cable.

FIG. 125—This is fig. 1005 mounted on 1 inch brass pipe and good sturdy cast bronze flange. Brass packing gland for cable with 2 inch pipe and flange, add \$12.00 each.

FIG. 1010—This is fig. 1005 mounted on 2 inch brass pipe and fittings. Standard length of pipe "A" is $3\frac{1}{2}$ inches. Special length, please specify, price on application.

FIG.	Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Light Inches	Width Light Inches	Inches Base Size	Weight Pounds	
							Bronze	Aluminum
1005	\$103.00	\$103.00	7 $\frac{3}{8}$	9 $\frac{1}{4}$	**9 $\frac{1}{4}$	8 $\frac{3}{8}$ x7 $\frac{3}{8}$	18	12
125	115.00	115.00	7 $\frac{3}{8}$	19	8 $\frac{1}{4}$	5	24	18
1010	163.00	163.00	7 $\frac{3}{8}$	17 $\frac{1}{2}$	8 $\frac{1}{4}$	6	28	22

With clear lens for main channel markers on fixed bridges or with green or amber lens for special purpose, use above prices.

*Height of light does not include handle.

**Width is to centers of mounting holes.

Special Purpose LIGHTS ON PEDESTAL

With 360 Degree Red, Green, or Clear Lens.

For Sheer Booms, Isolated Piers, Obstructions, etc.

Cast Bronze or Cast Aluminum — Emery Finish.

Watertight — Electric Only.

Mounted on 1 inch brass pipe and good sturdy cast bronze flange. Has phenolic medium screw socket and brass packing gland for cable. Cast threaded cap.

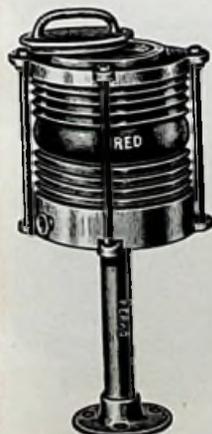


Fig. 126

Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Light Inches	Width Light Inches	Diam. Base Inches	Weight Pounds	
						Br.	Alum.
\$115.00	\$115.00	7 $\frac{3}{8}$	19	11 $\frac{1}{2}$	5	24	18

This light can be supplied shielded to various degrees as required. Price on application.

*Height of light does not include handle.

NOTE—Figs. 125, 126 and 1010 in special height other than standard, price on application.



Regulation Swing, Draw or Folding BRIDGE LIGHTS

For Span of Through, Deck and Half Through Swing Bridges or Single Opening Draw
Bridges with Alternate Red and Green 60 Degree Fresnel Lenses.
Socket Is Phenolic Medium Screw, U.S.C.G. Approved.



Fig. 35

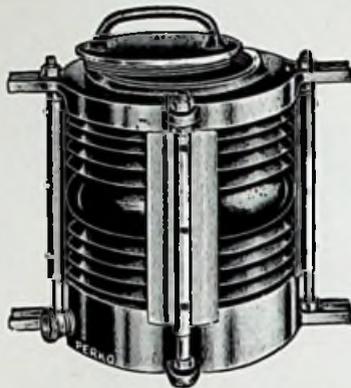


Fig. 39



Fig. 50

FIG. 35—Watertight, for electric only. Made of sheet metal, either galvanized steel or brass with cast bronze threaded cap and brass packing gland for cable.

FIG. 39—Watertight, for electric only. Made of cast bronze or cast aluminum in emery finish. With cast threaded cap and packing gland for cable.

FIG. 50—For Oil, Electric or Oil and Electric. Made of sheet metal, either galvanized steel or brass. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, or adapter for electricity. Both supplied for "Oil and Electric".

FIG.		Galv. Each	Polished Brass Each	Cast Bronze Each	Cast Aluminum Each	Spare Lenses Each	Height Lens Inches	*Height Overall Light Inches	**Width Overall Inches	Weight Pounds	
										Br.	Alum.
35	Elec. only	\$91.00	\$107.00			\$11.00	7 $\frac{3}{8}$	13 $\frac{3}{4}$	12 $\frac{1}{2}$	13 $\frac{1}{2}$	
39	Elec. only			\$120.00	\$120.00	11.00	7 $\frac{3}{8}$	9 $\frac{3}{4}$	11 $\frac{1}{4}$	22	15
50	Oil or Elec.	76.00	92.50			11.00	7 $\frac{3}{8}$	18	12 $\frac{1}{2}$	14	
50	Oil and Elec.	81.00	97.50			11.00	7 $\frac{3}{8}$	18	12 $\frac{1}{2}$	14 $\frac{1}{2}$	

*Height of light does not include handle or ring.

**Width includes mounting brackets.

Box Type Regulation Draw SPAN LIGHTS

With 360 Degree Clear Fresnel Lens Enclosed by Alternate Red and Green Flat Glass Panels Showing 60 Degrees of Light.

FIG. 63—For Oil, Electric or Oil and Electric, made of Sheet Steel and Galvanized. Bottom opening with brass fount or adapter.

FIG. 1007—Watertight, for electric only. Made of cast bronze with threaded cap and packing gland.

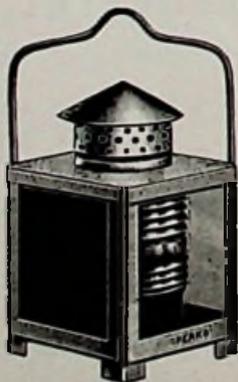


Fig. 63

FIG.		Galv. Each	Bronze Each	Spare Lens Each	Spare Panels Each
63	Oil or Elec.	\$100.00		\$15.00	\$4.00
63	Oil and Elec.	106.00		15.00	4.00
1007	Elec. only		197.00	15.00	4.00

Spare oil founts complete for Fig. 63, each \$11.50.

Spare electric adapter for Fig. 63, each \$10.00.

FIG.	Height Lens Inches	Height Less Handle Inches	Width Overall Inches	Dimensions of Panels Inches	Weight Pounds
63	7 $\frac{3}{8}$	18	11 $\frac{1}{4}$	9 $\frac{1}{2}$ x 10 $\frac{3}{4}$	18
1007	7 $\frac{3}{8}$	12	12 $\frac{1}{2}$	9 x 9	48

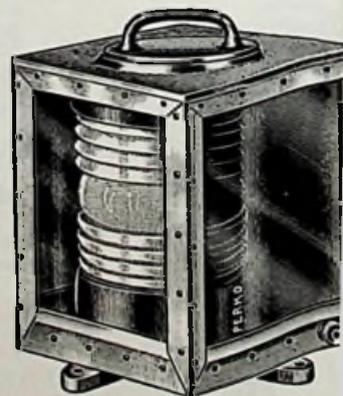


Fig. 1007

All lights on this page supplied with one lens or panel shielded for 3-way light (one red, two green) use above price please specify.



Regulation Mid-Channel SPAN LIGHTS

For Fixed Bridges

360 Degree Green Fresnel Lens

Electric Socket Is Phenolic Medium Screw, U.S.C.G. Approved



Fig. 68



Fig. 1006



Fig. 80

FIG. 68—For electric only, with bottom opening and brass swivel electric adapter. Made of sheet metal, either galvanized steel or brass.

FIG. 1006—Watertight, for electric only. Made of cast bronze or cast aluminum in emery finish. With cast threaded cap and brass packing gland.

FIG. 80—For oil only, electric only, or oil and electric. Made of sheet metal, either galvanized steel or brass. Has bottom opening and brass swivel fount with burner, wick and chimney for oil, brass electric adapter for electricity.

FIG.		Galvanized Steel Each	Polished Brass Each	Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Light Inches	Width Overall Inches	Weight Pounds	
									Br.	Alum.
68	Electric only	\$54.00	\$70.00			7 $\frac{3}{8}$	14 $\frac{1}{2}$	9 $\frac{1}{2}$	13	
1006	Electric only			\$102.00	\$102.00	7 $\frac{3}{8}$	9 $\frac{1}{2}$	11 $\frac{1}{2}$	21	14
80	Oil or Elec.	67.00	81.00			7 $\frac{3}{8}$	18	9 $\frac{3}{4}$	17	
80	Oil and Elec.	71.50	85.50			7 $\frac{3}{8}$	18	9 $\frac{3}{4}$	17	

With clear, or red lens for special purpose, use above prices.

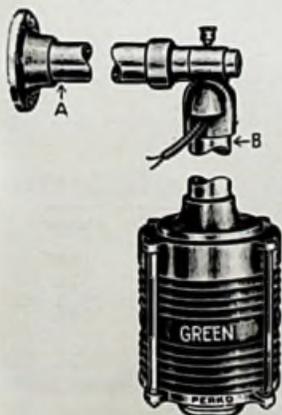


Fig. 1011

Regulation Mid-Channel SPAN LIGHT with Pivot Mounting

Cast Bronze or Cast Aluminum — Emery Finish
Watertight — Electric Only — Medium Screw Socket
360 Degree Green Fresnel Lens

This is Fig. 1006 with pivot mounting allowing light to be seen beneath the bridge yet can be swung to the upper level for rebulbing or cleaning. Entrance is through cast threaded cap in bottom of light body. Pipe is brass, 2 inch size. Standard length at "A" and "B" is 2 inches. Flanges and other fittings are cast bronze.

Cast Bronze Each	Cast Aluminum Each	Height Lens Inches	*Height Overall Inches	Width Overall Inches	Weight Pounds	
					Bronze	Aluminum
\$190.00	\$190.00	7 $\frac{3}{8}$	20 $\frac{1}{4}$	11 $\frac{1}{2}$	36	29

NOTE—With special length of pipe at "A" or "B", price on application.

*Height does not include handle.

Lift SPAN LIGHTS For Bascule Bridges

For Single and Double Lift Bridges. 180 Degree Red and Green Fresnel Lenses. Cast Bronze or Cast Aluminum — Emery Finish — Watertight — Electric Only — Medium Screw Socket



Fig. 22



Fig. 127



Fig. 1012

FIG. 22—Swinging type with fixed extension. Pipe is brass, 2 inch size, 6 inches long. Bracket is cast bronze. Light contains two bakelite medium screw sockets, one for each lens. Entrance for rebulbing or cleaning is through two 4½ inch openings, one in back of upper section, the other in bottom of lower section, both closed by threaded cast caps. Complete with brass grease cup.

FIG. 127—Fixed type, has eight integral mounting lugs, drilled for ¾ inch diameter bolt. Two brass packing glands for cable and two threaded caps for entrance to each section.

FIG. 1012—Swinging type with pipe extension, pipe "A" and "B" is brass, 2 inch size, 2 inches long at "A" and 6 inches long at "B". Other fittings are cast bronze. Light is the same as Fig. 22 above.

FIG.	Cast Bronze Each	Cast Aluminum Each	*Height Overall Inches	Height Lens Inches	Width Light Inches	Size of Bracket Inches	Weight Pounds	
							Bronze	Aluminum
22	\$310.00	\$310.00	30½	7¾	8½	6¼ x 6¼	54	42
127	215.00	215.00	18½	7¾	**9¼		36	24
1012	325.00	325.00	32	7¾	8½	6	56	44

NOTE—Supplied in special color combinations if required, such as two red or two green lenses also clear or amber lens at above prices.

Special length of pipe at "A" or "B", price on application.

*Height does not include handle.

**Width is to centers of mounting holes.



**LIGHT COLORS AND HORIZONTAL ARCS OF VISIBILITY
IN ACCORDANCE WITH "AIDS TO NAVIGATION"
REGULATIONS ON LIGHTING FOR BRIDGES**



180 DEGREE RED—For piers, axis, abutments, channel sides or channel margins.



180 DEGREE CLEAR—For main channel markers on fixed bridges.



360 DEGREE RED, GREEN OR CLEAR—For sheer booms, isolated piers and obstructions not part of the bridge or bridge approach structure. May be shielded to various degrees as required.



60 DEGREE ALTERNATE RED AND GREEN—For draw span of draw bridges or swing span of through swing bridges. When required for swing span of deck or half-through swing bridges, one red lens is shielded.



360 DEGREE GREEN—For mid-channel or channel center, for span of fixed bridge over a navigable channel.



180 DEGREE GREEN AND RED—For span of single and double-lift bascule bridges. Green when lift span is fully open for navigation, red for all other positions of lift span.

SPARE PARTS FOR BRIDGES AND PIER LIGHTS

- 180 DEGREE LENSES**—For figs. 22-29-31-59-125-127-1005-1010-1012
Clear \$15.00 each, Colored \$21.00 each
- 360 DEGREE LENSES**—For figs. 68-80-126-1006-1011
Clear \$15.00 each, Colored \$23.00 each
- CAST BRONZE WATERTIGHT CAPS** complete with rubber gasket—For figs. 22-31-35-39-125-126-127-1005-1006-1007-1010-1011-1012\$6.50 each
- RUBBER GASKETS**—For caps\$.30 each
- RUBBER GASKETS**—For 360 degree lenses\$3.00 each
- ELECTRIC SOCKETS**—Medium screw—For all lights.....\$.65 each
- SOCKET SUPPORTS**—Brass—For all watertight electric lights\$1.20 each
- ELECTRIC ADAPTERS**—For figs. 29-50-59-68-80\$4.50 each
- OIL FOUNTS**—Brass—For figs. 50-59-80\$4.50 each
- OIL BURNERS**—Brass—For above founts\$1.80 each
- OIL WICKS**—For above burners\$.09 each
- CHIMNEYS**—For above burners\$1.20 each



MARINE HOUSE FIXTURES

All Brass — With Genuine Marine Clear Fresnel Lens

These are genuine marine lamps with authentic fresnel lenses and solid brass metal parts. They are adaptations of the lamps that we manufacture for use on all classes of vessels that sail the seas. They meet all marine requirements for visibility, light projection, durability, resistance to corrosion and the ability to withstand the worst in weather conditions.

These fixtures have been developed for and are exceptionally desirable for homes along the waterways, yacht clubs, establishments with marine motif or nautical atmosphere, marine rooms or dens, etc.

All wired, ready for installation. Each fixture meets Underwriters Laboratories requirements for residential lighting fixtures.



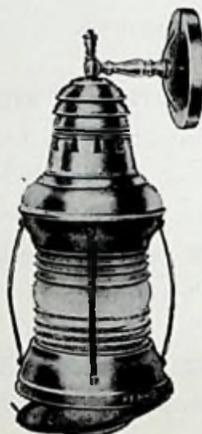
FLUSH CANOPY
Fig. 1023

No.	Polished Brass Each	Chromium Plated Each
1	\$18.00	\$22.50
2	20.50	25.00



CANOPY AND CHAIN
Fig. 1024

No.	Polished Brass Each	Chromium Plated Each
1	\$18.50	\$23.00
2	21.00	25.50



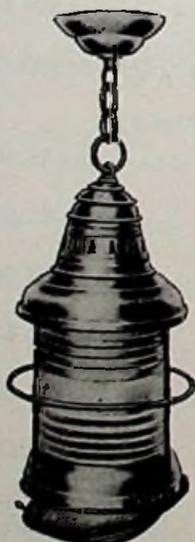
WALL BRACKET
Fig. 1025

No.	Polished Brass Each	Chromium Plated Each
1	\$20.00	\$24.50
2	22.50	27.00



POST MOUNTING
Fig. 1026

No.	Polished Brass Each	Chromium Plated Each
1	\$25.00	\$29.50



CANOPY AND CHAIN
Fig. 1027

No.	Polished Brass Each	Chromium Plated Each
3	\$53.50	\$60.00

DIMENSIONS AND WEIGHT				
No.	Height Lamp Only Inches	Diam. Lamp Inches	Height Lens Inches	Approx. Weight Pounds
1	8 $\frac{3}{8}$	4 $\frac{1}{2}$	3 $\frac{3}{8}$	3
2	11 $\frac{3}{4}$	5 $\frac{3}{8}$	4 $\frac{1}{4}$	4
3	13 $\frac{3}{8}$	7 $\frac{1}{2}$	5 $\frac{1}{2}$	9 $\frac{1}{2}$

Length Chain with Figs. 1024, 1027, 24 inches
I.D. Neck Figs. 1026, 1036, 3 inches

COLORED LENSES	
Red - Green - Amber	
No.	Add Each
1	\$2.00
2	2.40
3	5.00



POST MOUNTING
Fig. 1036

No.	Polished Brass Each	Chromium Plated Each
3	\$54.00	\$61.00



MARINE HOUSE FIXTURES

All Brass — With Genuine Marine Globes or Fresnel Lens

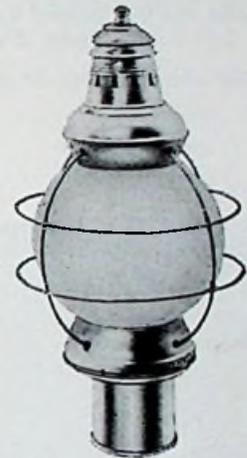
THESE HAVE ALL THE QUALITIES AND MEET THE REQUIREMENTS MENTIONED ON PRECEDING PAGE.
WITH WHITE FROSTED GLOBE



FLUSH CANOPY
Fig. 1031



CANOPY and CHAIN
Fig. 1032



POST MOUNTING
Fig. 1033

No.	Fig. 1031		Fig. 1032		Fig. 1033		Height Lamp Only Inches	Diam. Globe Inches	Approx. Weight Pounds
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each			
1	\$29.50	\$35.00	\$30.00	\$35.50			11	6	3
2	32 50	38.00	33.00	38.50	\$37.00	\$43.00	14	8	4½
3			64.00	72.00	68.00	68.00	16½	10	6½

Size No.1 with Red or Blue Globe, add \$1.00 each.

Size Nos. 2 and 3 with Red, Green or Blue Globe add \$2.00 each.

Size No. 1 has one horizontal guard. Sizes No. 2 and 3 have two horizontal guards.

Fig. 1032 Supplied with 24 inches of chain.

Fig. 1033 Inside diameter neck, 3 inches.

SHIPS MASTHEAD LIGHT
FLAT BACK—FOR WALL MOUNTING

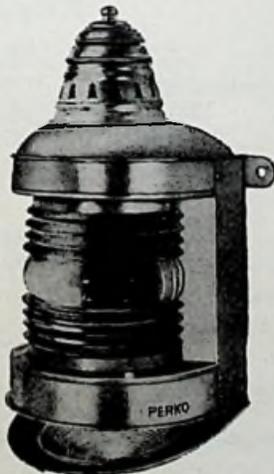


Fig. 1034

Polished Brass Each	Chromium Plated Each	Height Light Inches	Width Light Inches	Height Lens Inches	Weight Pounds
\$57.50	\$65.00	14	7	5½	7½

SHIPS CABIN LAMP
SWINGING TYPE—ELECTRIC



Fig. 1035

Polished Brass Each	Chromium Plated Each	Height Overall Inches	Width Overall Inches	Weight Pounds
\$22.00	\$26.00	12½	6	2



AUTHENTIC MARINE TABLE LAMPS

ALL SOLID BRASS—WITH ATTRACTIVE FIBRE GLASS SHADES

Presenting an attractive assortment of table lamps designed for those who have a natural love for the sea and vessels that sail upon it, and who desire a nautical atmosphere or motif in their surroundings, be it their home, boat, office, club or eating place.

Manufactured and designed by this country's oldest and most highly regarded manufacturer of navigation lights, these lamps are the real thing, not imitations.

All lenses are true molded fresnels made to government requirements for navigational purposes, in light transmission and color. Colors (Red, Green, Blue, etc.) are molded into the lens, not coated or painted.

All wired and complete with plug.

"Nautilus"

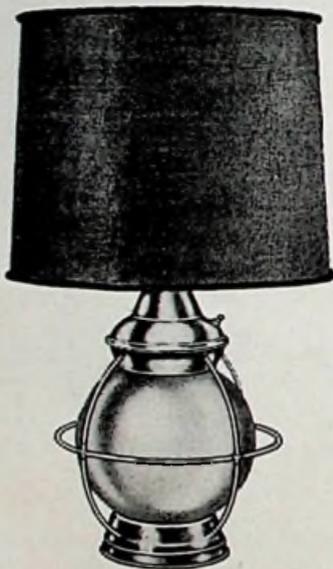


Fig. 1210

"Corsair"



Fig. 1211

"Neptune"



Fig. 1212

Equipped with three way turn switch for light under shade, inside globe or both.

Fig.	Lamp Only Less Shade		Shade Only Each	Height Inches	Diam. Base Inches	Size of Shade Inches	Size of Globe Inches	Weight Pounds
	Polished Brass Each	Chromium Plated Each						
1210	\$40.00	\$48.00	\$10.00	24½	5¾	13x14x12	8	4½
1211	22.50	25.50	6.00	15	4¼	7x10x 8	3¾	2½
1212	27.00	31.00	9.75	19¼	5¾	10x14x10	4¾	3

SHADE SPECIFICATIONS

Fig. 1210 Both Finishes—blue burlap over fibre glass, white cotton rope trim top and bottom.

Fig. 1211 Polished Brass—green fish net over fibre glass, gold trim top and bottom.

Fig. 1211 Chromium Plated—blue fish net over fibre glass, white trim top and bottom.

Fig. 1212 Both Finishes—white linen over fibre glass, red trim top and bottom.

NOTE—ABOVE LAMPS SHIPPED COMPLETE WITH SHADE UNLESS OTHERWISE SPECIFIED.

Height shown above is from base to top of shade. Sizes of shade shown above are 1st, diameter of top; 2nd, diameter of bottom; 3rd, height.

Prices shown above apply to Fig. 1210 with white frosted globe, Figures 1211 or 1212 with clear fresnel lenses.

Fig. 1210 with colored globe (red, green or blue) add \$4.25 each.

Fig. 1211 with colored lens (red, green, blue or amber) add \$1.00 each.

Fig. 1212 with colored lens (red, green or amber) add \$1.80 each.



"Mariner"



Fig. 1213

"Voyager"



Fig. 1214

"Seafarer"



Fig. 1215

"Helmsman"

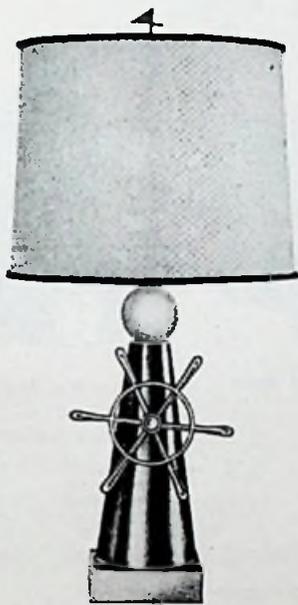


Fig. 1220

"Fog Bell"



Fig. 1268

"Pilot"



Fig. 1219

Fig.	Satin Brass Each	Lamp Only Less Shade		Shade Only Each	Height Inches	Diam. Base Inches	Size of Shade Inches	Diameter Wheel Inches	Weight Pounds
		Polished Brass Each	Chromium Plated Each						
1213		\$26.00	\$28.75	\$6.00	15 1/4	5 1/4	7x10x 8		3
1214		21.50	24.50	6.00	15 1/4	5 1/4	7x10x 8		3
1215		21.50	24.50	6.00	15 1/4	5 1/4	7x10x 8		3
1219	\$34.00			8.00	21 1/2	4 1/2	11x12x11	4 3/4	5
1220	49.00			9.75	26 1/4	6	13x14x12	8 1/2	8 3/4
1268		34.00		9.75	25 1/4	11	13x14x12		4

SHADE SPECIFICATIONS

Figs. 1213, 1214, 1215 Polished Brass—green fish net over fibre glass, gold trim top and bottom.

Figs. 1213, 1214, 1215 Chromium Plated—blue fish net over fibre glass, white trim top and bottom.

Fig. 1219 Satin Brass—natural color straw over fibre glass, tan straw trim.

Fig. 1220 Satin Brass—white fish net over fibre glass, red rope trim top and bottom.

Fig. 1268 Polished Brass—egg shell colored fabric, all fibre glass, gold trim top and bottom.

NOTE—ABOVE LAMPS SHIPPED COMPLETE WITH SHADE UNLESS OTHERWISE SPECIFIED.

Sizes of shade shown above are 1st, diameter of top; 2nd, diameter of bottom; 3rd, height.

*Diameter of wheel is measured from end to end of handles.



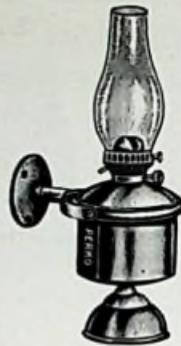
**Junior
CABIN
LAMP**

Double Swing—Weighted Base
All Brass

Fig. 168

Same construction as our well known Newport Cabin Lamp Fig. 141, but reduced in size for use where space or headroom is limited.

No.	Polished Brass Each	Chromium Plated Each	Overall Height Inches	Extension Inches	Capacity Fount Pints	Weight Ounces
0	\$13.25	\$17.00	9	5	1/2	19



**Philadelphia
CABIN
LAMP**

Double Swing—Weighted Base
Removable Fount—All Brass

Fig. 137

With 2 1/2 inch diameter wall plate, hinge burner Fig. 242 No. 2 and 6 inch chimney Fig. 267 No. 2.

No.	Polished Brass Each	Chromium Plated Each	Overall Height Inches	Extension Inches	Capacity Pints	Weight Pounds
4	\$18.75	\$23.00	14	8 1/2	1 1/4	3 3/4



**Newport
CABIN
LAMP**

Double Swing—Weighted Base
All Brass

Fig. 141

This lamp is of very sturdy construction, refined appearance and minimum practical extension from wall. Diameter of wall plate 2 1/2 inches.

No.	Polished Brass Each	Chromium Plated Each	Overall Height Inches	Extension Inches	Capacity Fount Pints	Weight Pounds
1	\$13.25	\$17.00	10 1/2	5 1/2	1	1 3/4
2	15.00	19.00	12 1/2	6	1 1/4	2



**Universal
WALL
LAMP**

Tin Plate or Brass

Fig. 312

Has polished reflector and gives excellent illumination Uses No. 2 size wick.

Polished Tin Each	Polished Brass Each	Spare Chimneys Each	Spare Burners Each	Height of Back of Fount Inches	Diam. of Fount Inches	Weight Each Lbs.
\$6.00	\$8.25	\$1.20	\$.90	9	5	1 1/2

SMOKE BELL AND ARM

All Brass



Fig. 128

No.	Polished Brass Each	Chromium Plated Each	Diam. Bell Inches	Extension to Center Inches	Weight Ounces
0	\$3.25	\$4.50	3 1/2	3 1/2	3 1/2
1	3.25	4.50	4	3 3/4	4
2	3.25	4.50	4	4	4
4	3.25	4.50	6 1/4	6 1/2	7

No. 0 size is for lamp Fig. 168.

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

No. 4 size is for lamp Fig. 137.

SPARE PARTS FOR CABIN LAMPS

No.	Each
0 and 1 Spare Burners Fig. 231	\$.65
0 and 1 Spare Chimneys Fig. 230	.65
2 and 4 Spare Burners Fig. 242 No. 2	1.80
2 and 4 Spare Chimneys Fig. 267 No. 2	1.20



Electric CABIN FIXTURES

With Medium Screw Sockets

For 6—12—32 or 110 Volts



Streamline Pattern

Zamak Die Casting—Chromium Plated
With Turn Switch

Fig. 217

Chromium Plated Each	Size Base Inches	Drop Less Lamp Inches	Depth Less Lamp Inches	Weight Ounces
\$2.50	2½ x 2¼	2¼	2½	8

Spare socket with switch, \$.90 each



Square Base Pattern

Cast Bronze—With Toggle Switch

Fig. 450

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$5.00	\$5.50	2 x 2	2	2¾	12

Spare interior with switch, \$1.00 each.



Upright Pattern

Zamak Die Casting—Chromium Plated
With Turn Switch

Fig. 225

Chromium Plated Each	Size Base Inches	Length Overall Inches	Projection Less Lamp Inches	Weight Ounces
\$3.50	3⅞ x 2⅞	5⅞	2¾	10

Spare socket with switch, \$.90 each.



Upright Pattern

Cast Bronze—With Toggle Switch

Fig. 304

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Projection Less Lamp Inches	Weight Ounces
\$7.25	\$8.00	4½ x 2¾	2⅞	17

Spare interior with switch, \$1.00 each.



Oval Base Pattern

Zamak Die Casting—Chromium Plated
With Turn Switch

Fig. 1237

Chromium Plated Each	Size Base Inches	Drop Less Lamp Inches	Projection Less Lamp Inches	Weight Ounces
\$3.80	4½ x 1⅝	4½	2⅝	6

Spare socket with switch, \$.90 each.



Round Base Pattern

Spun Brass—With Turn Switch

Fig. 308

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Drop less Lamp Inches	Projection less Lamp Inches	Weight Ounces
\$4.00	\$4.75	2½	2½	3	6

Spare socket with switch, \$.90 each.

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



Double Ceiling FIXTURE

Cast Bronze—Medium Screw Sockets
With Toggle Switch



Fig. 451

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Extension from Ceiling Inches	Weight Ounces
\$10.00	\$11.50	3½ x 2	2¾	14

Spare interior only, \$1.00 each.

Junior FIXTURE

With Double Contact Socket
Cast Bronze—Toggle Switch



Fig. 605

Polished Bronze Each	Chromium Plated Each	Size Base Inches	Drop Less Lamp Inches	Projection Less Lamp Inches	Weight Ounces
\$4.50	\$5.25	1¾ x 1¾	2	2	8

Spare toggle switch, see Fig. 745.

"Tear-Drop" FIXTURE

Chromium Plated
Double Contact Socket—Turn Switch



Front View



Side View

Fig. 301

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

Complete Each	Spare Globe Each	Spare Socket Each	Spare Bulb Each	Overall Size Inches	Depth Inches	Weight Ounces
\$5.50	\$1.00	\$.50	\$.50	5 x 3	1¾	11

Spare Switches, \$1.00 each.

Spare Gaskets, \$.30 each.

Marine SHIELDS For Fixtures

Parchment Paper
Hand Painted or Plain



For Hanging Bulb
Fig. 27



For Upright Bulb
Fig. 28

A marine design hand painted in colors makes these shields very decorative and appropriate for a yacht stateroom, cabin, club or marine room.

Metal clip is for a bulb up to 60 watts.

Painted Each	Plain Each	Width Inches	Depth Inches	Weight Ounces
\$2.20	\$1.80	4	3¾	1½

DASHBOARD LAMP

Brass—Nickel Plated
Double Contact Socket—With Switch



Fig. 184

Bulb is not included.

Each	Height Overall Inches	Size Base Inches	Weight Ounces
\$1.00	2¾	1½ x 1½	1½

DOME LIGHTS

Wrought Brass—With Toggle Switch
With Nickel Plated Reflector
Frosted Glass Fig. 132
Medium Screw Socket Fig. 346

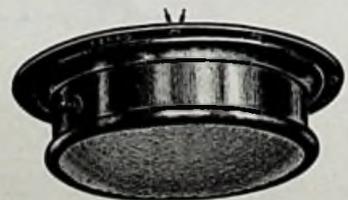


Fig. 753

Will accommodate a bulb up to 100 watts.

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Glass Inches	Depth Overall Inches	Weight Pounds
\$17.50	\$20.00	9¾	8	3	2



DOME LIGHTS

Wrought Brass—With Fig. 257 Diffusing Glass
Toggle Switch—Double Contact Socket



Fig. 294

Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches	Weight Ounces
3	\$6.35	\$8.35	4¼	2	6
4	7.50	9.50	5½	2¼	9
5	8.50	10.50	6½	2½	15
6	10.50	12.50	7½	2¾	20

Spare sockets, see fig. 747, No. 2.

DOME LIGHTS

Wrought Brass—With Fig. 132 Frosted Glass
Toggle Switch—Double Contact Socket



Fig. 296

Diam. Glass Inches	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Depth Overall Inches	Weight Ounces
3	\$6.35	\$8.35	4¼	1¾	5½
4	7.50	9.50	5½	1¾	8½
5	8.50	10.50	6½	2	12
6	10.50	12.50	7½	2½	15

Spare sockets, see fig. 747, No. 2.

DOME LIGHTS

Wrought Brass—With Opal Globe—Toggle Switch
Double Contact or Medium Screw Socket



Fig. 385

With Fig. 747 No. 2 Double Contact Socket

No.	Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Diam. Globe Inches	Depth Inches	Weight Ounces
7	\$8.00	\$10.00	6	4¼	2¾	12
8	9.50	11.50	7	5¾	2¾	15

With Fig. 346 Medium Screw Socket

9	\$10.00	\$12.00	7	5¾	2¾	16
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Bulb with medium screw base for this light, see Fig. 8.
Spare globes, see Fig. 133.

DOME LIGHTS

Cast Bronze—With Toggle Switch
With Fig. 257 Ribbed Diffusing Glass



Fig. 555

No. 1 has Fig. 747 double contact socket and will accommodate a 50 C.P. bulb.

No. 2 has Fig. 346 medium screw socket and will accommodate a 15 watt A-17 bulb Fig. 340 or any listed size of Fig. 8.

No.	Polished Bronze Each	Chromium Plated Each	Diam. Glass Inches	Diam. Base Inches	Depth Inches	Weight Pounds
1	\$14.50	\$17.00	4	5½	1¾	1¾
2	19.75	22.75	6	7¾	3¾	3¾

WATERTIGHT DOME LIGHT

Cast Bronze—Double Contact Socket
With Threaded Diffusing Globe

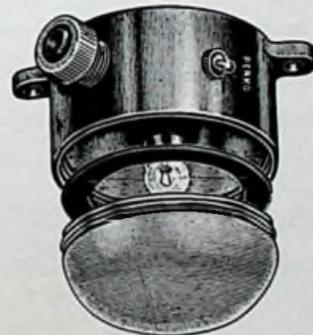


Fig. 1266

For small boats. Will accommodate up to a 50 C.P. No. RP-11 bulb. With nickel plated reflector, toggle switch and one packing gland for cable.

Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Extreme Diam. Inches	Diam. Globe Inches	Extreme Depth Inches	Weight Pounds
\$12.50	\$14.00	\$16.00	3½	3¼	2¾	1¾

Spare Sockets, \$.55 each.

Spare Globes, \$1.00 each.

Extra Packing Glands installed, \$2.00 each gland.

SPARE TOGGLE SWITCHES FOR ALL ABOVE LIGHTS, SEE FIG 745



VAPOR-PROOF FIXTURES

Cast Bronze Bodies—Screw Glass Globes

STANDARD CAST IRON JUNCTION BOXES WITH WIRE GUARDS

90° Angle Type



Fig. 1075
Fig. 1078

Ceiling Type

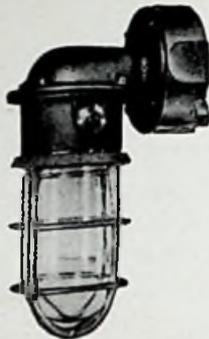


Fig. 1079
Fig. 1081

COMBINATION JUNCTION BOX-FIXTURES CEILING AND BULKHEAD TYPE CAST BRONZE WITH WIRE GUARDS

Ceiling Type



Fig. 1087

Bulkhead Type



Fig. 1090

FIG.	Type	Each	For Lamp Wattage	Length Guard Inches	Diam. Box Inches	Depth Box Inches	Weight Pounds
1075	Keyless	\$20.85	60 to 100	6	4 1/4	1 1/2	5 1/2
1078	Key Switch	21.60	60 to 100	6	4 1/4	1 1/2	6
1079	Keyless	12.35	60 to 100	6	4 1/4	1 1/2	4
1081	Key Switch	18.00	60 to 100	6	4 1/4	1 1/2	5 1/2
1087	Keyless	13.00	60 to 100	6	—	—	3 1/2
1090	Keyless	13.00	60 to 100	6	—	—	4

With Cast Bronze Guards, add \$2.00 to above prices.

With Cast Bronze Boxes for Figs. 1075, 1078, 1079, 1081, add \$3.25 to above prices.

Above fixtures have one 1/2" I.P.S. tapping. Extra tapping \$.50 per hole.

Brass CABLE STRAPS

FOR CABLE, TUBING, CONTROL WIRE, ETC.



Fig. 121

Inside Diam. Inches	Per 100	Length Inches	Width Inches
1/8	\$2.70	1 3/8	1/2
3/16	3.00	1 3/8	1/2
1/4	3.25	1 3/8	1/2
5/16	3.25	1 3/8	1/2
3/8	3.60	1 3/8	1/2
7/16	3.90	1 3/8	1/2
1/2	4.20	1 1/2	1/2
5/8	5.00	1 3/4	1/2
3/4	5.50	1 3/4	1/2

Supplied only in standard packages of 100 pieces.

Line SUPPORT CLIPS

ALUMINUM

WITH SYNTHETIC RUBBER CUSHION

Used in the aircraft industry for supporting electrical fuel, instrument, oil and water lines.



Fig. 163
Single



Fig. 164
Double



Fig. 165
Triple

For O.D. Line Inches	FIG. 163 Per 100	FIG. 164 Per 100	FIG. 165 Per 100	Width Inches
3/16	\$5.75	\$13.00	\$17.35	3/8
1/4	6.00	13.30	18.50	3/8
5/16	6.25	13.50	18.75	1/2
3/8	6.25	14.25	18.75	1/2
1/2	7.50	15.50	22.00	1/2



STANDARD MARINE RECEPTACLES AND PLUGS

Watertight—Cast Bronze Boxes—Polarized—10 Amp. 125 Volts

Plugs for Receptacles

BAKELITE BODY — BRASS FITTINGS



Fig. 1260

Type	Each	Overall Length Inches	Diam. Body Inches	Weight Ounces
2 wire	\$2.35	2 3/8	1 1/8	4
3 wire	3.20	2 3/8	1 1/8	4

Note—When used with the rubber grommet in cap these will accommodate 3/8 inch outside diameter cable. Without grommet, use 1/2 inch O. D. cable.

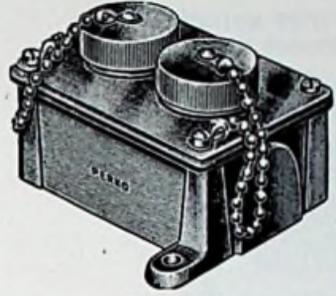


Fig. 1265

GANG TYPE		Each
		2 wire only
2 gang		\$14.80
3 gang		22.35
4 gang		27.75
Gang	Size Inches	Weight Pounds
2	4 1/8 x 3 x 2	3
3	6 1/4 x 3 x 2	3 3/4
4	8 x 3 x 2	5 1/4

Receptacles

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

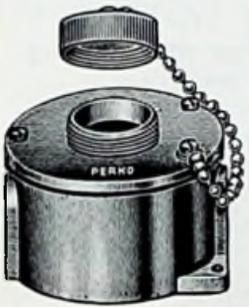


Fig. 1262

SURFACE TYPE		2 wire only	
Each	Diam. Inches	Height Inches	Weight Pounds
\$8.85	3	1 3/8	2 1/4

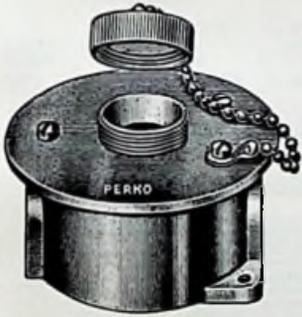


Fig. 1263

FLUSH TYPE		2 wire only	
Each	Diam. Box Inches	Diam. Flange Inches	Depth Inches
\$12.65	3	4	1 1/8
Weight Pounds			
2 1/2			

Single Switch and Receptacle

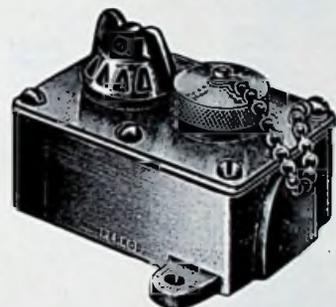


Fig. 1267

Each	
Size Inches	Weight Pounds
4 1/8 x 3 x 2	3

Supplied in other combinations such as single switch and double receptacle etc. Price on application.

Watertight Connection Box

CAST BRONZE — SURFACE TYPE

With 4 wire phenolic connection block and rubber gasket.

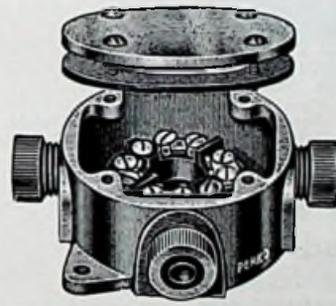


Fig. 1252

Complete Each	Spare Blocks Each	Weight Pounds
\$9.45	\$2.90	1 1/4
Inside Diam. Inches	Inside Depth Inches	
3	1 1/8	

Price does not include packaging glands in illustration.

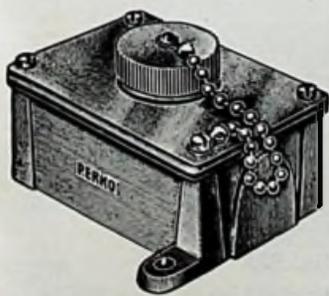


Fig. 1264

RECTANGULAR TYPE		2 and 3 wire	
Each	Size Box Inches	Weight Pounds	
\$10.40	4 1/8 x 3 x 2	3	
10.80			

Watertight Fuse Box

CAST BRONZE — SURFACE TYPE

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

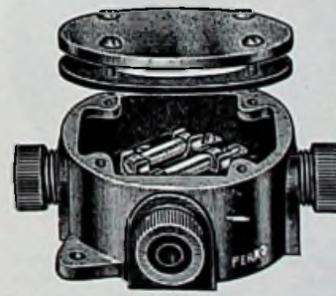


Fig. 1255

Complete Each	Spare Fuse Blocks Each	Weight Pounds
\$9.45	\$3.65	1 1/4
Inside Diam. Inches	Inside Depth Inches	
3	1 1/8	

Price does not include fuses or packing glands in illustration.

NOTE: ALL BOXES HAVE ONE 1/2" I.P.S. TAPPING. EXTRA TAPPINGS ADD \$1.00 FOR EACH HOLE. PACKING GLANDS FOR ABOVE \$1.25 EACH.



YACHT SIZE RECEPTACLES AND PLUGS

Watertight—Cast Bronze Boxes—Voltages 6 to 125

AS SMALL AND AS COMPACT AS PRACTICABLE FOR INSTALLATION WHERE SPACE IS LIMITED

ROUND FLUSH TYPE WITHOUT BOX
5 AMP. — 2 WIRE



Fig. 968

Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Depth Inches	Weight Pounds
\$12.00	\$4.50	2 1/4	3/4	1/2

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

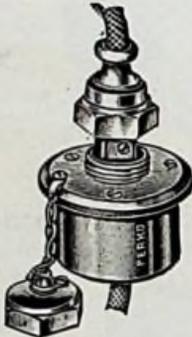


Fig. 969

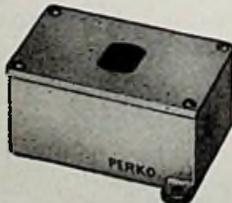
Complete With Plug Each	Plug Only Each	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches	Weight Pounds
\$16.50	\$4.50	2 1/4	1 5/8	1 1/4	3/4

CONVENIENCE OUTLETS for Standard 2 Wire Plugs

10 AMP. 250 VOLTS — 15 AMP. 125 VOLTS
CAST BRONZE BOX
FLUSH OR SURFACE MOUNTING



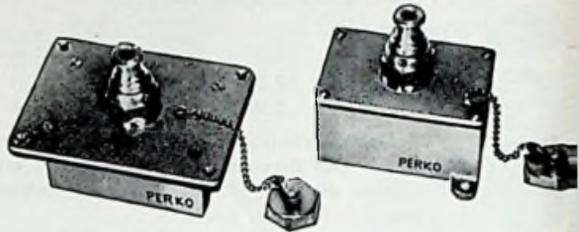
Flush Type Fig. 964



Surface Type Fig. 965

	Fig. 964 Complete Each	Fig. 965 Complete Each	Dimensions Box Inches	Weight Pounds
Single	\$7.40	\$6.95	3 3/8 x 2 1/8 x 1 1/2	1 1/2
Double	8.95	8.50	3 3/8 x 2 1/8 x 1 1/2	1 3/4

RECTANGULAR TYPE WITH BOX
5 AMP. — SIDE INLET — 2 WIRE
FLUSH OR SURFACE MOUNTING



Flush Type Fig. 980

Surface Type Fig. 981

	Fig. 980 Complete Each	Fig. 981 Complete Each	Plugs Only Each	Dimensions Box Inches	Weight Pound
Single	\$14.50	\$13.45	\$4.50	3 3/8 x 2 1/8 x 1 1/2	1 1/2

Watertight TURN SWITCHES

5 AMP. — SIDE INLET — SINGLE POLE — 2 WIRE
FLUSH OR SURFACE MOUNTING



Flush Type Fig. 988



Surface Type Fig. 993

	Fig. 988 Complete Each	Fig. 993 Complete Each	Dimensions Box Inches	Weight Pound
Single	\$8.50	\$6.95	3 3/8 x 2 1/8 x 1 1/2	1 1/2

Weatherproof DOCK RECEPTACLE

with Self-Closing Cover

For Ship to Shore Connections

10 AMP. 250 VOLTS — 15 AMP. 125 VOLTS
CAST BRONZE BOX
FOR STANDARD 2 WIRE PLUG

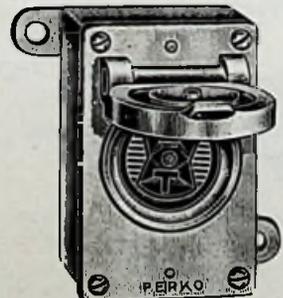


Fig. 975

	Dimensions Box Inches	Weight pounds
Each	3 3/8 x 2 1/8 x 1 3/8	3

NOTE: ALL BOXES HAVE ONE 1/2" I.P.S. TAPPING. EXTRA TAPPINGS ADD \$1.00 FOR EACH HOLE. PACKING GLANDS FOR ABOVE \$1.25 EACH.



YACHT SIZE RECEPTACLES AND PLUGS

Watertight—Cast Bronze Boxes—Voltages 6 to 125

AS SMALL AND COMPACT AS PRACTICABLE FOR INSTALLATION WHERE SPACE IS LIMITED

HEAVY DUTY TYPE — 10 AMP. — 2 WIRE

HEAVY DUTY TYPE — 10 AMP. — 2 WIRE
SINGLE OR DOUBLE RECEPTACLE WITH SWITCH



Fig. 970
Flush Type

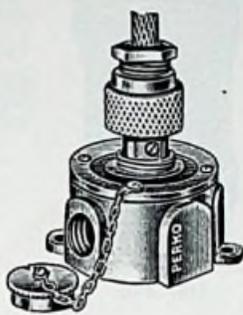


Fig. 971
Surface Type

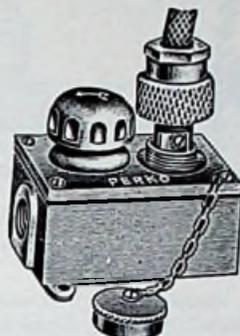


Fig. 973

Fig. 970 Complete Each	Fig. 971 Complete Each	Plugs Only Each	Diam. Plate Fig. 970 Inches	Diam. Box Fig. 971 Inches	Weight Pounds
\$16.50	\$15.50	\$4.50	3½	2¾	1¾

	Complete With Plug Each	Plugs Only Each	Dimensions Box Inches	Weight Pounds
Single	\$23.90	\$4.50	4½x2½x1¾	3½
Double	35.00	4.50	5½x2½x1¾	4

HEAVY DUTY TYPE — 10 AMP. — 2 WIRE
DOUBLE OR TRIPLE



Fig. 972

	Complete Each	Plugs Only Each	Dimensions Box Inches	Weight Pounds
Double	\$28.40	\$4.50	4½x2½x1¾	3¾
Triple	35.30	4.50	5½x2½x1¾	4

Watertight JUNCTION BOX

CAST BRONZE — SURFACE TYPE

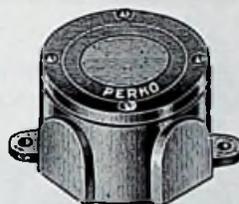


Fig. 1257

With rubber gasket, for 4 way tapping.

No.	Each	Inside Diam. Inches	Inside Depth Inches	Weight Pounds
1	\$5.80	2½	1¾	1
2	6.55	3	1¾	1¾

Ship to Shore CONNECTOR

110 VOLTS — 25 AMPS.
ALL BRASS METAL PARTS

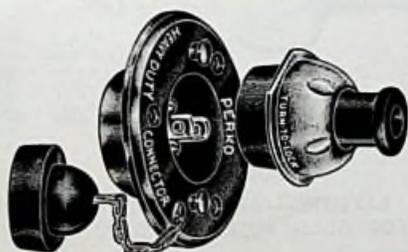


Fig. 72

Bakelite base has heavy duty male terminals. Plug is phenolic with bronze female prongs, all rubber covered. Will accommodate No. 10 wire. Plug locks in base. A chained rubber cap for base when disconnected.

Complete Each	Diam. Base Overall Inches	Depth of Base Inches	Diam. Hole Required Inches	Weight Ounces
\$2.90	3⅞	¾	1¾	5

Spare female plug interior only, each \$.80.

Watertight SNAP SWITCH

FLUSH TYPE OR SURFACE TYPE — 10 AMP.
2 WIRE

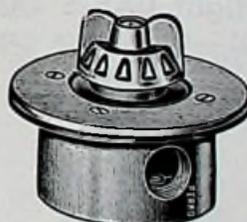


Fig. 974

Ratchet under knob to prevent turning in wrong direction.

	Flush Type	Surface Type	Diam. Plate Inches	Diam. Box Inches	Depth Box Inches	Weight Pounds
Single Pole	\$12.25	\$11.40	4	3	1½	2
Double Pole	14.20	12.95	4	3	1½	2

NOTE: ALL BOXES HAVE ONE ½" I.P.S. TAPPING. EXTRA TAPPINGS ADD \$1.00 FOR EACH HOLE.
PACKING GLANDS FOR ABOVE \$1.25 EACH.



Watertight CONNECTION

DOUBLE CONTACT

Deck Socket

All Metal Plug



Fig. 423



Fig. 425

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

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

	Polished Brass Each	Chromium Plated Each	Dimensions Inches
Socket Only	\$2.40	\$3.40	1½ x 1¾
Plug Only	2.40	3.40	1½ x 1

Spare electric sockets only, see fig. 747, No. 2.

Watertight CONNECTION

BRASS — DOUBLE CONTACT



Fig. 477

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

	Polished Brass Each	Chromium Plated Each	Composition Interiors Only Per Set	Size Inches
	\$4.25	\$5.25	\$.65	1½ x 1¼

Watertight CABLE OUTLET

BRASS — FOR ¾ INCH CABLE



Fig. 424

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

	Polished Brass Each	Chromium Plated Each	Extreme Diameter Inches
	\$1.50	\$2.25	1¼

Medium Screw SOCKETS

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



Fig. 346

With ⅛ or ⅜ inch I. P. S. thread.

No.	Each	Size Thread Inches
1	\$.65	⅛
2	.65	⅜

No.	Height Inches	Extreme Diameter Inches	Weight Dozen Pounds
1	1⅛	1⅜	1
2	1⅞	1⅞	1

Mogul 3 Wire SOCKET

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

For use with double filament bulb Fig. 532.



Fig. 270

Each	Height Inches	C to C of Mounting Holes Inches	Weight Ounces
\$3.85	2⅞	1⅞	6

With white metal mounting cap tapped ⅜ inch I. P. S. add \$.35 each.

SOCKET SUPPORTS

BRASS — ⅜ INCH I. P. S. THREAD

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

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

No. 2 for Lights Size No. 3.



Fig. 341

No.	Each	Height Inches	Size Base Inches
1	\$1.20	1	⅞ x 2⅜
2	1.50	2¼	⅞ x 2⅜

No.	C to C of Holes Inches	Weight Ounces
1	2⅞	1½
2	2⅞	3

FUSE PANEL

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

No. 1 for one active fuse or one spare.

No. 2 for two active fuses or one spare.



Fig. 694

No.	Each	Length Inches
1	\$.70	2¼
2	.90	2¼

Width Inches	Thickness Inches	Length Fuse Inches
1	⅞	1¼
1⅞	⅞	1¼

Medium Screw SOCKETS

PORCELAIN—250 VOLTS—660 WATTS



Fig. 222

No.	Complete Each	Gaskets Only Each	Height Inches	Size Base Inches	C to C of Slots Inches
1	\$.85	\$.12	1 1/4	2 x 1 1/4	1 1/2
2	1.20	.12	1 3/8	1 3/4 x 1 1/4	1 1/2

No. 1 size is standard.

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

Electric Socket ADAPTERS



Fig. 405

For converting various types of sockets.

No.	Each
650—From Bayonet Dble. Contact to Med. Screw . . .	\$.75
670—From Med. Screw to Bayonet Dble. Contact . . .	.90
680—From Med. Screw to Bayonet Single Contact . . .	.90
830—From Med. Screw to Foreign Bayonet D.C. . . .	1.00
X12—From Mogul to Medium Screw	1.00

Bayonet Double Contact SOCKETS

BRASS CASE—TAPPED 1/8 INCH I. P. S.



Fig. 276

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

No.	Each	Length Overall Inches	Weight Per Dozen Ounces
0	\$.90	1 3/8	7
1	.90	1 3/8	8
2	.90	2	11
3	.90	2 3/8	14

SOCKET SUPPORT

BRASS—FOR FIG. 276 SOCKET

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



Fig. 277

Each	Height Inches	Size Base Inches	Weight Dozen Ounces
\$.80	3/4	3/8 x 1 1/2	6

Bayonet Double Contact SOCKETS

BRASS CASE—HARD RUBBER INSULATION



Fig. 747

No.	Each	Length Inches	Weight Dozen Ounces
1	\$.55	3/8	5
2	.55	1	5
5	.55	1 1/4	6
6	.60	1 1/2	8
7	.60	2	9

Outside diameter, all sizes, 1 1/8 inches.

No. 1 Wires enter side, screws in bottom.

No. 2 Wires enter bottom, screws in same side.

Nos. 5, 6, 7 Wires enter side, screws in bottom.

Note—No. 1 used with rebulbing feature in streamline lights such as Figs. 563, 1138, 1140, 1140A.

No. 2 used in pole lights, dome lights, etc.

Bayonet Double Contact SOCKET

BRASS CASE—BAKELITE INSULATION



Fig. 71

For easier wiring, this socket has phosphor bronze springs and brass terminal screws.

Each	Length Inches	Outside Diameter Inches	Weight Dozen Ounces
\$.75	1 3/8	1 1/8	8

Navy Standard Electric SOCKETS

PHENOLIC INSULATION—BRONZE PARTS



Candelabra Screw Fig. 15



Bayonet Double Contact Fig. 76

Fig. 15 complies with Navy Drawing 9-S-2036-L.

Fig. 76 complies with Navy Drawing 9-S-4634-L.

Fig.	Each	Height Inches	Size Base Inches	Weight Dozen Ounces
15	\$.75	1 3/8	1 x 1 1/2	12
76	.85	1 3/8	1 x 1 1/2	16

Bayonet SOCKETS

PHENOLIC—SINGLE AND DOUBLE CONTACT



Fig. 472

No.	Each	Type	Height Inches	Diam. Base Inches	Weight Dozen Ounces
20	\$.90	Double contact	1	1 3/8	9
21	.90	Single contact			



Bayonet Double Contact SOCKET

FLANGED TYPE—BRASS AND HARD RUBBER



Fig. 377

Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$.85	1 1/4	1 1/8	9
	Size-Flange Inches	C to C of Holes Inches	
	1 1/8 x 1 1/2	1 3/8	

Double Contact PLUG AND SOCKET

Plug and socket insulation is hard rubber. All metal parts are brass.



Fig. 399

Per Set	Size Flange Inches	Outside Diam. Socket Inches	Length Socket Inches	Wt. Doz. Oz.
\$1.20	1 1/8 x 1 1/2	1 1/8	1 3/8	14

Bayonet Double Contact ADAPTER

ALL BRASS



Fig. 458

For adapting oil lights to combination oil and electric. Just remove burner from fount, place collar around threaded portion of burner and replace assembly in oil fount. Consists of double contact bayonet socket, collar and hollow nut.

Per Set Complete \$1.95

Double Contact CONNECTORS

HARD RUBBER INSULATION—BRASS CONTACTS WITH SOFT RUBBER WATERPROOF CAPS



Fig. 749

Each	Size Inches	Weight Dozen Ounces
\$.70	1 1/8 x 2 1/2	10

Bayonet Double Contact ADAPTER

BRASS AND HARD RUBBER

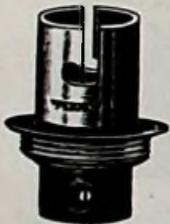


Fig. 355

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

Each	Overall Length Inches	Diam. Thread Inches	Weight Dozen Ounces
\$.90	1 1/4	3/4	8

"Midget" CONNECTORS

BAKELITE BODY—BRASS CONTACTS DOUBLE CONTACT



Fig. 26

Designed for use in limited space. Split pins insure firm positive connection.

Each	Size Inches	Weight Dozen Ounces
\$1.10	3/8 x 1 1/8	6

Bayonet Double Contact PLUG

HARD RUBBER PLUG
SOFT RUBBER WATERPROOF CAP



Fig. 746

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

Fig. 746 Each	Length Inches	Diam. Inches	Weight Dozen Ounces
\$.40	1 1/2	1 1/8	8

Ignition Lock SWITCH
30 AMP. 6 VOLTS—15 AMP. 12 VOLTS
2 TERMINAL—2 KEYS

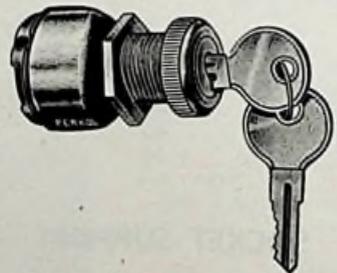


Fig. 316

Brass lock, switch, terminal screws and lock nut. Face plate is chromium plated.

Each	Diameter Neck Inches	Length Neck Inches	Weight Ounces
\$1.95	3/4	3/4	4



Toggle SWITCHES

BRASS WITH BAKELITE INSULATION
WITH 6 INCH WIRE LEADS



Fig. 745

No.	Nickel Plated Each	Length Neck Inches	Diam. Neck Inches	Between Lock Nuts Inches	Weight Ounces
1	\$.90	3/8	1/8	3/8	3/8
2	.90	3/8	1/8	3/8	3/4

No. 2 supplied unless otherwise specified.
With watertight cap and chain, add \$1.00 each.

TOGGLE SWITCH with Face Plate

BRASS WITH BAKELITE INSULATION
SCREW POSTS—NO LEADS



Fig. 718

Chromium Plated Each \$1.05

Size Face Plate Inches 1 1/2 x 1

Weight Ounces 3/4

Push and Pull SWITCH
ALL BRASS THROUGHOUT

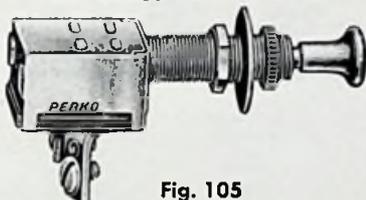


Fig. 105

Chromium Plated Each	Diameter Neck Inches	Length Neck Inches	Length Overall Inches	Weight Ounces
\$1.10	3/8	1	3	2

Push and Pull SWITCH with Face Plate
ALL BRASS THROUGHOUT

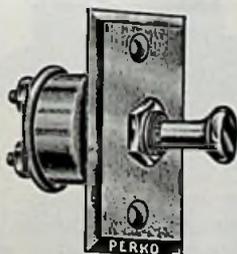


Fig. 216

Chromium Plated Each	Diameter Neck Inches	Length Neck Inches	Size Face Plate	Weight Ounces
\$1.30	3/8	1	1 1/2 x 1	1 3/4

Toggle SWITCH
ALL BRASS THROUGHOUT
SCREW POSTS—NO LEADS

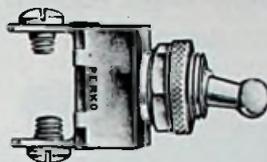


Fig. 688

Nickel Plated Each	Length Neck Inches	Diam. Neck Inches	Between Lock Nuts Inches	Weight Ounces
\$.90	3/8	3/8	3/8	7/8

Push and Pull SWITCHES
ALL BRASS

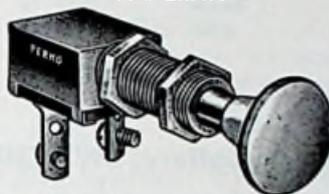


Fig. 94

No. 2 with ivory colored tenite knob.
No. 3 with brass chromium plated knob.

No. 2 Each	No. 3 Each	Diameter Neck Inches	Length Neck Inches	Weight Ounces
\$1.25	\$1.75	3/8	1	1 3/4

Momentary Starter SWITCH
OR DASHBOARD HORN BUTTON
PUSH BUTTON TYPE—ALL BRASS

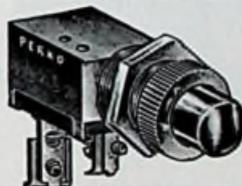


Fig. 255

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

Each	Diameter Neck Inches	Length Neck Inches	Weight Ounces
\$1.75	3/8	1 3/8	2 1/2

Momentary Starter SWITCH
PULL TYPE—ALL BRASS

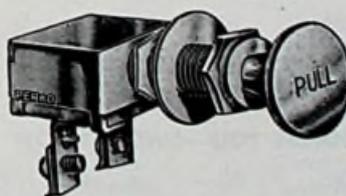


Fig. 142

2 point, 2 terminal spring action with chromium plated knob imprinted "Pull". Rated 20 amps. at 6 volts.

Each	Diameter Neck Inches	Length Neck Inches	Weight Ounces
\$1.95	3/8	1	3



Knife or Battery SWITCHES

FIBRE BASE—SINGLE POLE—30 AMP.
UPRIGHT TYPE



Fig. 70

	Each	Dimensions Base Inches	Weight Ounces
Single Throw	\$2.70	2½x1½	1¾
Double Throw	3.40	3¾x1½	2½

Fused Line CONNECTOR

MOLDED BAKELITE

WITH 20 AMP. FUSE AND WIRE LEADS



Fig. 786

FOR STANDARD GLASS FUSES 1¼ INCHES LONG

Each	Length Inches	Diameter Inches	Weight Ounces
\$.45	2½	¾	¾

Knife or Battery SWITCHES

EBONY ASBESTOS BASE—HIGH JAWS
ONE OR TWO POLE
SINGLE OR DOUBLE THROW
250 VOLT D.C.—500 VOLT A.C.

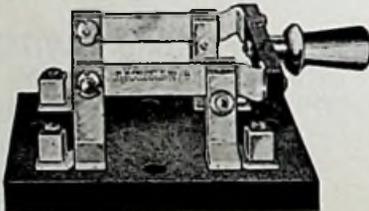


Fig. 191

SINGLE POLE—SINGLE THROW

No.	Each	Amps.	Dimensions Base Inches	Weight Pounds
1	\$ 3.85	60	6¾x1½x ¾	¾
2	7.85	100	6¾x2 x ¾	2½
3	14.00	200	10 x3 x1	4

SINGLE POLE—DOUBLE THROW

4	6.35	60	9¼x2 x ¾	2½
5	14.50	100	10 x3 x ¾	4
6	20.50	200	12 x4 x1	8

DOUBLE POLE—SINGLE THROW

7	6.00	60	6 x4½x ¾	3
8	12.00	100	7½x5 x ¾	5½
9	20.00	200	9½x6 x1	10¼

DOUBLE POLE—DOUBLE THROW

10	9.50	60	9½x6 x ¾	5¼
11	20.50	100	10¼x7 x ¾	8½
12	33.00	200	15 x7¾x1	16

Horn PUSH BUTTON

BRASS — CHROMIUM PLATED

BAKELITE BUTTON AND INTERIOR



Fig. 275

Chromium Plated Each	Length Overall Inches	C to C Holes Inches	Diam. Inches	Weight Ounces
\$1.20	2½	2½	1½	1

Watertight PUSH BUTTONS

CAST BRONZE



Fig. 978

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

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Weight Ounces
\$6.80	\$8.50	2½	6



SWITCH PANELS

BLACK BAKELITE PANEL—WHITE LETTERING
BRASS, NICKEL PLATED TOGGLE SWITCHES
WITH OR WITHOUT FUSE HOLDERS

All lettering is engraved. "On" position of switch is indicated. Fuse holders are the enclosed type for glass fuses up to 30 amp.

SINGLE SWITCH PANEL



Fig. 516

Supplied complete with any one of the Fig. 519 name plates shown below, please specify.

With Fuse Holder Each	Without Fuse Holder Each	With Fuse Holder Size Inches	Without Fuse Holder Size Inches
\$3.25	\$2.50	4½x1¼	3¾x1¼

5 GANG SWITCH PANEL



Fig. 517

Our stock panel is illustrated. Dealer or user may change name plates as desired as they are removable. For additional selection see Fig. 519. For changes made at factory, add \$1.00 each.

With Fuse Holders Each	Without Fuse Holders Each	With Fuse Holders Size Inches	Without Fuse Holders Size Inches
\$14.75	\$9.50	6½x4¼	6½x3¾

Supplied with fuse holders unless otherwise specified.

Starter—Ignition—Lights SWITCH PANELS

BLACK BAKELITE PANEL—WHITE LETTERING
2 POINT PUSH BUTTON STARTER SWITCH
LOCK TYPE IGNITION SWITCH—TWO KEYS
BRASS TOGGLE TYPE LIGHT SWITCH

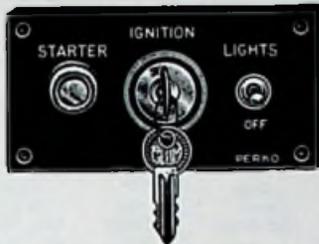


Fig. 514

Visible portion of all switches is chromium plated.

Complete Each	Length Inches	Width Inches	Weight Ounces
\$7.25	5	2½	8

Starter and Ignition SWITCH PANEL

BLACK BAKELITE PANEL—WHITE LETTERING
TWO POINT PUSH BUTTON STARTER SWITCH
LOCK TYPE IGNITION SWITCH—TWO KEYS



Fig. 518

Visible portion of all switches is chromium plated.

Complete Each	Length Inches	Width Inches	Weight Ounces
6.00	4½	2½	5

SPARE PARTS

Ignition Switches, see Fig. 316.
Toggle Switches, see Fig. 745.

Fuse Holders, \$1.00 each.
Starter Switches, see Fig. 255, all Brass.

Switch NAME PLATES

BLACK BAKELITE—ENGRAVED WHITE LETTERING

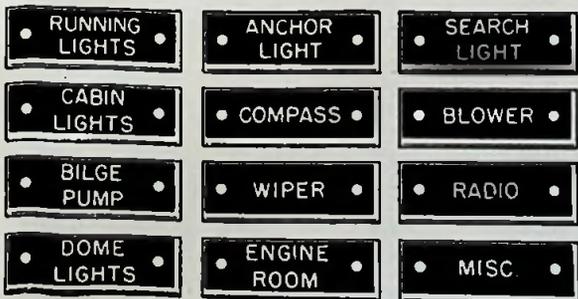


Fig. 519

In addition to those illustrated, stock name plates are as follows:

- | | | |
|--------------|----------|----------------|
| Horn | Starter | Bow Light |
| Siren | Fan | Masthead Light |
| Fuel Pump | Master | Stern Light |
| Deck Lights | Heater | Port Light |
| Pilot | On | Stbd. Light |
| Panel Lights | Off | Range Light |
| Choke | Lights | Flood Lights |
| Ignition | Throttle | Towing Lights |
| Reverse | Forward | Spreader Light |
| Neutral | | |

Per Dozen	Length Inches	Width Inches	Per Dozen Weight Ounces
\$6.60	1½	½	½

Packed one dozen each name per box.

Less than one dozen each name \$.75 each.

Special name plates, price on application. Specify lettering and size.



MAZDA LIGHTING BULBS

Miniature Screw or Bayonet Base



Fig. 337

Bulb No.	Diam. Inches	Length Overall Inches
13	3/8	3/8
1800	3/8	1 1/8
518	3/8	1 1/8
1483	3/8	1
14	3/8	1 1/8
G-4 1/2	3/8	1
G-6	3/8	1 1/8
S-6	3/8	1 1/8
T-7	3/8	2 3/8
G-8	1	1 1/8
S-8	1	2
RP-11	1 1/8	2 1/8

Medium Screw Base



Fig. 340

Bulb No.	Diam. Inches	Length Overall Inches
T-10	1 1/4	5 3/8
S-14	1 3/8	3 1/4
A-17	2 1/8	3 3/8
A-19	2 3/8	3 15/16
A-21	2 3/8	4 1/8

Volts	Candle Power	No.	Base	Clear Each
1.35	.06 amp.	1800	Min. Screw	.28
1.3	.1 amp.	351	Min. Bayonet	.28
2.5	.15 amp.	S-8	D. C.	1.55
2.5	.3 amp.	14	Min. Screw	.25
3.8	.3 amp.	13	Min. Screw	.28
4.0	.55 amp.	518	Min. Screw	.45
6	.04 amp.	1483	Min. Screw	.45
6	1	51	Min. Bayonet	.25
6	1 1/2	G-4 1/2	Min. Bayonet	.18
6-8	3	G-6	D. C.	.18
6-8	6	G-6	D. C.	.20
6-8	15	S-8	D. C.	.37
6-8	21	S-8	D. C.	.40
12	1 1/2	G-4 1/2	Min. Bayonet	.33
12-16	3	G-6	D. C.	.20
12-16	6	G-6	D. C.	.25
12-16	15	S-8	D. C.	.40
12-16	21	S-8	D. C.	.45
32	3	G-6	D. C.	.77
32	6	G-8	D. C.	.90
32	15	S-8	D. C.	1.00
32	21	RP-11	D. C.	1.20
110	6 watt	S-6	D. C.	.66
120	10 watt	C-7	D. C.	.55
120	15 watt	T-7	Candelabra	1.05

Packed, 10 bulbs to a box.

FOR DOME AND BERTH LIGHTS



Fig. 8

Bulb No.	Diam. Inches	Length Overall Inches
S-11	1 1/4	2 1/4

Volts	No.	Base	Clear Each
6-8	S-11 21	Medium	\$1.00
12-16	S-11 21	Medium	1.65
32	S-11 15	Medium	1.65
120	S-11 15	Medium	1.35

Packed, 6 bulbs to a box

Two Filament Bulbs
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	\$5.50	5	3 1/8
100-100	5.75	5	3 1/8

Mazda Searchlight Bulbs Fig. 24

Volts	Watts	Candle Power	No.	Base	Diameter Inches	Length Overall Inches	Each
6-8		32	RP-11	D. C.	1 1/4	2 3/8	\$.45
6-8		50	RP-11	D. C.	1 3/8	2 3/8	.50
6-8		100	G-16 1/2	D. C.	2 1/8	3	2.20
6-8	108	18 amp.	P-25	Medium	3 3/8	4 3/4	5.25
12-16		32	RP-11	D. C.	1 1/4	2 3/8	.50
12-16		50	RP-11	D. C.	1 3/8	2 3/8	.80
12-16		100	G-16 1/2	D. C.	2 1/8	3	2.20
12-16	216	18 amp.	P-25	Medium	3 3/8	4 3/4	6.00
32		32	RP-11	D. C.	1 1/4	2 3/8	1.40
32		50	RP-11	D. C.	1 3/8	2 3/8	1.90
32	2. amp.	100	G-16 1/2	D. C.	2 1/8	3	2.50
32	3.5 amp.	150	G-16 1/2	D. C.	2 1/8	3	3.00
32	256	8 amp.	P-25	Medium	3 3/8	4 3/4	6.00
120	100		G-16 1/2	D. C.	2 1/8	3	3.00
120	250		T-10	Medium	1 1/4	5 1/2	7.00
120	500		T-20	Medium	2 1/2	5 1/2	8.00
120	1000		T-20	Medium	2 1/2	5 1/2	10.00
120	1000		T-20	Mogul Screw	2 1/2	9	10.00



Hinge BURNERS

ALL BRASS

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

No. 2 Marcy Hinge Burner.
No. 2A Sun Hinge Burner.



Fig. 242

No.	Per Dozen	Diam. Thread Inches	Width Wick Inches
2	\$21.60	1 1/4	3/8
2-A	24.00	1 1/4	3/8

Lip or Dual CHIMNEYS

No. 2 For Marcy Hinge Burner.
2-A For Sun Hinge Burner.



Fig. 267

No.	Per Dozen	Height Inches	Diam. Bottom Inches
2	\$14.40	5	2 1/8
2	14.40	5 1/2	2 1/8
2	14.40	6	2 1/8
2-A	14.40	6	2 1/8

Specify height of chimney when ordering.

Brass BURNERS



Fig. 246

No.	Per Dozen	Diam. Thread Inches	Width Wick Inches
0	\$4.20	7/8	1/2
1	4.80	7/8	3/8

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

Hornet CHIMNEY and BURNER

CLEAR CHIMNEY—ALL BRASS BURNER

Used on Cabin Lamp Fig. 141 Size 1 and Fig. 168 Size 0.



Fig. 230



Fig. 231

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



Fig. 302

Flat WICKS

No.	Per Dozen	Width Inches	Price
0		1/2	\$.72
1		3/8	.84
2		1/8	1.08

Long Time BURNER and CHIMNEY

BRASS

Used in 10 Day Anchor Lights, Fig. 596

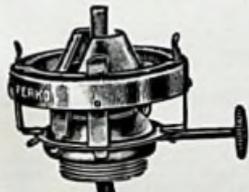


Fig. 245



Fig. 272

Burners Per Dozen	Chimneys Per Dozen	Wicks Per Dozen	Height Chimney Inches	Diameter Chimney Inches
\$27.00	\$19.00	\$2.40	1 3/4	1 1/2

Chimneys Per Dozen	Burners Per Dozen	Chimney Size Inches	Burner Thread Inches
\$7.80	\$7.80	4 3/8 x 1 1/2	7/8

Round GLOBES

FOR FIG. 44 GLOBE OR DISTRESS LIGHTS



Fig. 264

Navy Lantern GLOBES

This globe is standard equipment in Navy lantern, Fig. 49.

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

Clear Per Doz.	Red Per Doz.	Green Per Doz.
\$12.75	\$25.00	\$25.00

Colored globes are solid colors, not painted.



Fig. 262

Supplied in clear, colored or frosted. Colors are Red, Green or Blue.

Size Inches	Clear Each	Frosted or Colored Each	Diameter		Height Overall Inches
			Top Inches	Bottom Inches	
6	\$4.50	\$8.50	3 3/8	3 3/8	6 3/8
8	7.25	11.25	4	4	7 1/2
10	10.50	15.00	5 3/8	5 3/8	10 1/4

NOTE—6 inch size not available in green.



FRESNEL BALL GLOBES
WITH THREADED BASE
FOR POLE, MAST AND STERN LIGHTS



Fig. 604



Fig. 247



Fig. 248



Fig. 249



Fig. 250



Fig. 251

FIG.	Clear Each	Red Each	Green Each	Blue Each	Outside Diam. Inches	Height Overall Inches	Diam. Opening Inches	Diam. Thread Inches	Weight Ounces Each
604	\$1.25	\$1.75	\$1.75	\$1.75	1½	1⅞	1⅞	1⅞	1¾
247	1.50				1¾	2¾	1½	2	3
248	1.50				1¾	2½	1½	2	3
249	2.40	3.40	3.40	3.40	3	3¾	2¼	2¾	10
250	1.75	2.25	2.25		2½	2¾	1½	2	6
251	1.75	2.25	2.25	2.25	3	3	1½	2	7

Figs. 247 - 248 - 250 - 251 - for Lights, Figs. 136, 329, 330, 362, 422, 438, 484, 491, 492, 506, 531, 658, 123, 1239.

Fig. 249 for Lights, Figs. 103, 104.

Fig. 604 High Intensity for Lights, Figs. 404, 439, 551, 600, 603, 609, 625, 846, 1145, 1148.

Mast Light GLOBES

WITH THREADED BASE

2¾ INCH DIAMETER

For mast lights Figs. 488 and 489.



Fig. 77

Outside diameter	2¾ in.
Height overall	5½ in.
Diameter of opening	1⅞ in.
Diameter of thread	2¾ in.
Net weight, each	9 oz.

Clear Each	Red Each	Green Each	Blue Each
\$2.20	\$3.20	\$3.20	\$3.20

3½ INCH DIAMETER

For mast and stern lights, Figs. 83, 112, 113, 145, 309, 1163.



Fig. 106

Outside diameter	3½ in.			
Height overall	5 in.			
Diameter of opening	2¾ in.			
Diameter of thread	3⅞ in.			
Net weight, each	1¼ lbs.			
Clear Each	Red Each	Green Each	Blue Each	Amber Each
\$3.25	\$4.50	\$4.50	\$4.50	\$4.50

Dome Light GLASSES

RIBBED DIFFUSING TYPE



Fig. 257

For Dome Lights, Figs. 294, 55

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.20	¾	2¼
4	1.50	4	¾
5	1.75	5	1⅞
6	2.00	6	1¾

FROSTED TYPE

For Dome Lights Figs. 29

753.



Fig. 132

Trade Size Inches	Each	Diam. Overall Inches	Depth Inches
3	\$1.20	2⅞	¾
4	1.50	4	1
5	1.75	5	¾
6	2.00	6	¾
8	2.50	7¾	¾

RIBBED OPAL TYPE

For Dome Light Fig. 38



Fig. 133

Outside Diam. Inches	Each	Extrem. Depth Inches
4¾	\$2.50	1½
5¾	2.75	1¾

NOTE—Spare gaskets for above ball and mast light globes, \$.20 each.

Spare gaskets for above dome glasses and globes, \$.30 each.



FRESNEL LENSES

FOR SIDE AND COMBINATION LIGHTS
112½ DEGREES

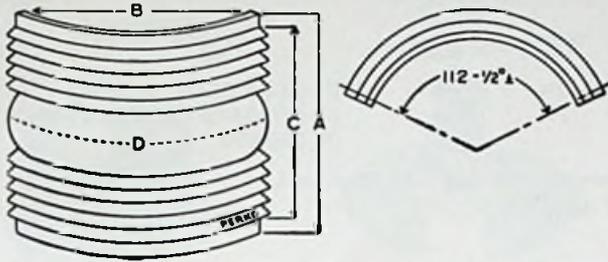


Fig. 259

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Red or Green Each	Amber Each
Class A-L.J.	1 7/8	1 1/2	1 1/4	1 3/4		\$.95	
Class A Std.	2 1/2	1 3/4	2 1/2	3		1.45	
Class A Spec.	2 1/2	1 7/8	2 1/2	3		1.45	
Class 1	3 3/8	2 1/2	2 1/2	3 3/8	\$2.20	2.20	\$2.60
Class 2	4 1/4	3 3/8	3 1/4	4 3/4	3.00	3.00	3.60
Class 3	5 3/8	3 1/4	4 3/8	5 3/8	3.75	3.75	

For Vessels Over 65 ft.

No. 8	5 1/2	4 1/2	4 1/4	5 3/8		6.30	
No. 0 or 9	5 1/2	5 3/4	5	8 3/8	8.50	8.50	
No. 1 or 10	6 3/4	6	6	8 3/8		12.50	
No. 2 or 11	7 1/2	8 1/2	6 3/8	11 3/8		17.50	
No. 3	8 1/2	9 3/4	7 3/4	13		19.00	

Class A-L.J. For Figs. 1146-1247.

Class A-Std. For Figs. 416-485-598-640-1140-1140A-1147.

Class A-Spec. For Figs. 1232-1235-1236.

FOR ANCHOR LIGHTS—360 DEGREES

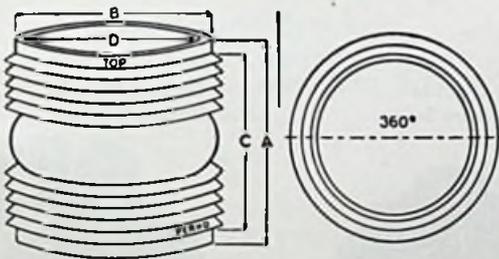


Fig. 261

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Junior	3 3/8	3 3/8	2 3/8	2 3/4	\$2.20	\$2.90
Senior	4 1/4	4	3 3/8	3 3/8	2.90	4.30

For Vessels Over 65 ft.

No. 0 or 22	5 1/2	5 1/2	5	4 3/8	8.75	15.00
No. 1 or 22 1/2	6 3/4	5 1/4	6 1/8	4 1/2	12.75	19.00
No. 1 1/2	6 3/4	6	6	5 1/8	14.00	20.00
No. 2 or 23	7 1/2	7 1/2	6 1/4	6 1/2	15.00	23.00
No. 3	8 1/2	8 1/2	7 3/4	7 3/4	19.00	30.00

Colors are red, green, blue or amber.

Sizes No. 1 and 2 not available in blue.

Sizes No. 1 1/2 and 3 not available in blue or amber.

FOR BOW LIGHTS—180 DEGREES

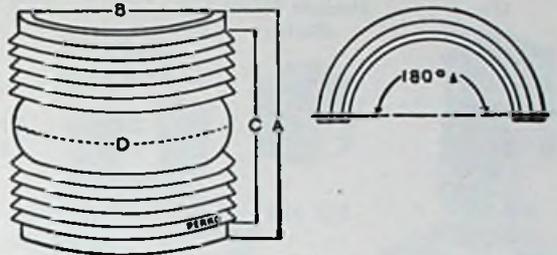


Fig. 260

For Motor Boats	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Class 1	3 3/8	2 3/4	2 3/8	5 3/8	\$2.90	\$5.00
Class 2	4 1/4	3 1/4	3 3/8	6 3/8	3.00	5.15
Class 3	5 3/8	3 3/8	4 1/8	7 1/4	3.75	6.25
Mld. 59	7 3/8	6 3/8	6 3/8	12 3/8	15.00	21.00

Colors are red, green, blue or amber.

Class 3 not available in amber.

Mld. 59 not available in blue.

Mld. 59 used in pier and lift span lights for bridges.

FOR MASTHEAD LIGHTS—225 DEGREES

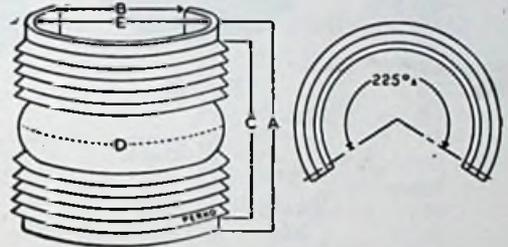


Fig. 256

	A In.	B In.	C In.	D In.	E In.	Clear Each	Colored Each
Int'l	4 1/4	4	3 3/8	8 3/8	3 3/4	\$3.50	
No. 0	5 1/2	4	5	12 1/8	4 3/8	10.50	\$21.50
No. 1	6 3/4	4	6	12 1/4	4 1/2	13.50	24.50
No. 2	7 1/2	5 3/8	6 3/4	16 3/8	6 1/2	15.00	28.00
No. 3	8 1/2	6 3/8	7 3/8	18 3/8	7 3/4	18.50	32.00

Colors are red, green or amber.

Size No. 3 not available in amber.

FOR STERN LIGHTS—135 DEGREES

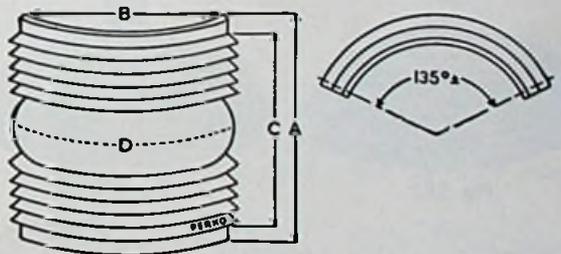


Fig. 269

	A In.	B In.	C In.	D In.	Clear Each	Colored Each
Int'l	4 1/4	3 1/2	3 3/8	4 3/8	\$3.00	
No. 0	5 1/2	4 3/8	4 3/8	7 1/2	8.50	\$12.00
No. 1	6 3/4	4 3/8	6 3/8	7 1/2	9.50	13.00
No. 2	7 1/2	6 3/8	6 3/4	10	12.00	19.00
No. 3	8 1/2	7 1/2	7 3/4	11 1/4	14.50	21.50

Colors are red, green, blue or amber.

Size No. 0 not available in blue.

Size No. 3 not available in blue or amber.

OIL FOUNTS AND ELECTRIC ADAPTERS

ALL BRASS—FOR LIGHTS CLASS 3 AND SMALLER



Fig. 582

Medium Screw Electric



Fig. 588

Delite Type

Fig.	Each	Diameter Inches	Weight Ounces	For Lights Figs.
582	\$2.00	2 $\frac{3}{4}$	4	01-04-05-08-09
588	3.00	2 $\frac{3}{4}$	4	01-010-04-05-040-050-08 09-080-090

Price of Fig. 582 does not include holder illustrated.
Holder only, \$1.20 each.

Spring Type

Oil

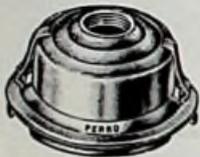


Fig. 286

Oil and Electric Double Contact



Fig. 736

Electric Double Contact



Fig. 291

Electric Medium Screw



Fig. 292

Oil and Electric Double Contact



Fig. 733

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
286	\$2.00	3 $\frac{3}{8}$	3 $\frac{3}{8}$	2 $\frac{1}{2}$	06-17-18-19-20-49-408 No. 0 and 44, 8 inch size
291	3.00	3 $\frac{3}{8}$	3 $\frac{3}{8}$	3	4-5-06-12-17-18-19-20
292	3.00	3 $\frac{3}{8}$	3 $\frac{3}{8}$	3 $\frac{1}{2}$	06-12-17-18-19-20-49-408 No. 0 and 44, 8 inch size
*733 Oil only	2.00	3 $\frac{1}{2}$	2 $\frac{3}{8}$	2	1
733 Oil and Electric	4.25	3 $\frac{1}{2}$	2 $\frac{3}{8}$	3 $\frac{3}{4}$	1
736	4.25	3 $\frac{3}{8}$	3 $\frac{3}{8}$	4 $\frac{1}{2}$	06-17-18-19-20

*Supplied without burner or wick.

Swivel Type

Oil



Fig. 287

Electric Double Contact



Fig. 293

Electric Medium Screw



Fig. 274

Oil and Electric Double Contact



Fig. 735

Fig.	Each	Diameter Overall Inches	Opening In Light Inches	Weight Per Dozen Pounds	For Lights Figs.
274	\$3.00	4 $\frac{1}{2}$	4	4	02-11-69 and 44, 6 inch size
287	2.00	4 $\frac{1}{2}$	4	3	02-69 and 44, 6 inch size
293	3.00	4 $\frac{1}{2}$	4	4	02-11-69 and 44, 6 inch size
735	4.25	4 $\frac{1}{2}$	4	4 $\frac{1}{2}$	02-69

NOTES

Oil burners and wicks, see Figs. 246 and 302.

D. C. Electric sockets for Figs. 291 and 293, see Fig. 355.

D. C. Electric sockets for Figs. 733, 735 and 736, see Fig. 276.

D. C. Electric sockets and holders for Figs. 733, 735 and 736, see Fig. 458.

Medium screw sockets for Figs. 274, 292 and 588, see Fig. 346, No. 1.



OIL FOUNTS AND ELECTRIC ADAPTERS

ALL BRASS—LIGHTS FOR VESSELS OVER 65 FEET LONG

Swivel Type

Oil

Single Electric
2 Wire
Medium Screw

Double Electric
2 Wire
Medium Screw

Electric
3 Wire
Mogul



Fig. 282



Fig. 288

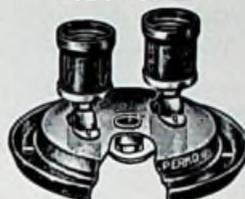


Fig. 289



Fig. 1082

Size No.	Height Fig. 282 Inches	Diameter Overall Inches	Diameter Opening In Light Inches	Fig. 282 Only Each	*Fig. 282 Complete Each	Fig. 288 Each	Fig. 289 Each	Fig. 1082 Each
0	2 7/8	4 3/4	3 3/4	\$3.35	\$6.50	\$4.50		\$7.50
1	3 1/2	4 3/4	3 3/4	3.35	6.50	4.50		7.50
2	4 1/2	5 1/4	4 3/4	4.50	7.80	4.50	7.25	7.50

*Complete with Burner, Wick and Chimney

ABOVE ARE FOR THE FOLLOWING LIGHTS

MASTHEAD LIGHTS

STERN LIGHTS

ANCHOR LIGHTS

BREAKDOWN LIGHTS

SIDE LIGHTS

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

1 Also used in Fig. 44, 10 inch size; Figs. 407 and 408, No. 1
2 Also used in Figs. 29-50-59-68-80

Mounting Brackets

FOR NAVIGATION LIGHTS
GALVANIZED SHEET IRON

No.	Galvanized Each	Width Inches	Height Inches
1	\$.90	1 1/2	4 3/4
2	1.30	2	6 3/4

No. 1 — For motor boat side and bow lights, Classes 1, 2 and 3.

No. 2 — For larger side lights, sizes 0, 1, 9 and 10.



Fig. 131

GALVANIZED MALL. IRON

Each	Height Overall Inches	Width Overall Inches	Width Bracket Inches
\$2.75	7 1/2	5 3/4	2 1/2

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



Fig. 135

Mounting Sockets

Galv. Each	Brass Each	Chromium Plated Each	Inside Width Inches
\$.65	\$1.05	\$1.40	1 1/4

For mounting Royal Lights Figs. 89 to 99 inclusive.



Fig. 25

Electric Adapters

DOUBLE CONTACT SOCKET

FOR ROYAL LIGHTS FIGS. 89 TO 99 INCLUSIVE



Fig. 138

Brass Each	Diam. Overall Inches	Opening in Light Inches	Weight Ounces
\$1.70	2 3/8	1 3/8	1 1/2

Specify whether for Class 1, 2 or 3.

MEDIUM SCREW SOCKET

FOR ROYAL LIGHTS FIGS. 89 TO 99 INCLUSIVE



Fig. 153

Brass Each	Diam. Overall Inches	Opening in Light Inches	Weight Ounces
\$2.00	2 3/8	1 3/8	2

Color Shield

FOR COMBINATION LIGHTS
DIVIDES RED AND GREEN LENSES

Used on class 1 combination lights, Figs. 01-010-1-3 and 89. If for Fig. 89 please specify.

Made of heavy gauge brass or galvanized iron.



Fig. 130

Galvanized Each	Polished Brass Each	Chromium Plated Each
\$1.30	\$1.65	\$2.20



"PERKO" SEALED BEAM SEARCHLIGHTS

All Brass — Chromium Plated

With Clear Lens — Not Futed

SIZE NO. 1 — 6 AND 12 VOLT — 30 WATT — RANGE ABOUT ¼ MILE — 45,000 BEAM CANDLEPOWER
 SIZE NO. 2 — 6 AND 12 VOLT — 30 WATT — RANGE ABOUT ½ MILE — 95,000 BEAM CANDLEPOWER
 SIZE NO. 3 — 6 AND 12 VOLT — 100 WATT — RANGE ABOUT ½ MILE — 200,000 BEAM CANDLEPOWER

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

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

Deck Control

WITH TOGGLE SWITCH IN HEAD
 WIRING NOT VISIBLE

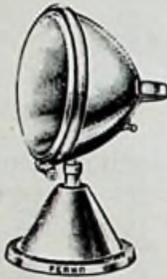


Fig. 454

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
1	\$18.50	\$18.50	4½	3½	7¾	1¼
2	20.00	20.00	6	4¾	9	1¾

Pilot House Control

WIRING NOT VISIBLE



Fig. 437

Length of control below base, 8 inches

Deck Control

WITH TOGGLE SWITCH IN HEAD
 WIRING NOT VISIBLE



Fig. 436

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
3	\$35.00	\$35.00	7	6¼	13	4

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Diam. Base Inches	Height Above Deck Inches	Weight Pounds
1	\$36.50	\$36.50	4½	4¾	8¾	2¾
2	38.00	38.00	6	4¾	10¼	3
3	46.50	46.50	7	6¼	13½	5



Adjustable SEARCHLIGHT

BRASS—CHROMIUM PLATED
SEALED BEAM—6 OR 12 VOLTS
STREAMLINE BASE

For Mounting Forward or Aft of Windshield

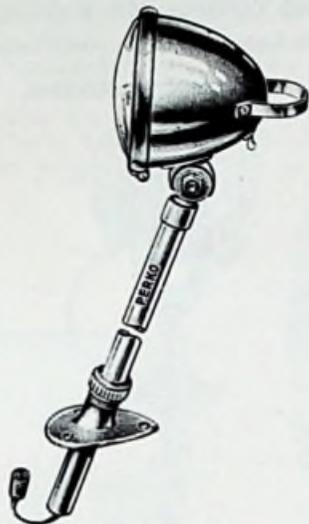


Fig. 240-A

Adjustable to various heights. From under the searchlight head to the deck, maximum 17 inches, minimum 3 inches, measured vertically.

Knurled nut and washer holds staff at desired height. Angle of staff from deck is 68 degrees. Complete with toggle switch.

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Diam. Base Inches	Weight Pounds
1	\$27.00	\$27.00	4½	3¾x2¼	2¼
2	29.50	29.50	6	3¾x2¼	2¾

Combination LIGHT and SEARCHLIGHT

ALL BRASS—CHROMIUM PLATED
SEALED BEAM SEARCHLIGHT

6 OR 12 VOLT—30 WATT—RANGE ¼ MILE

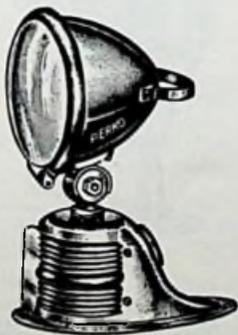


Fig. 416

The searchlight is our 4½ inch diameter sealed beam type. The combination light is our Fig. 1140 with rebulbing feature. The searchlight has a toggle switch.

6 Volt Each	12 Volt Each	Height Overall Inches	Size Base Inches	Weight Pounds
\$29.50	\$29.50	9	3¾x6¼	2¼

Remote Control SEARCHLIGHTS

BRASS—CHROMIUM PLATED
FOR OPERATION FROM DASH
SEALED BEAM—6 OR 12 VOLTS

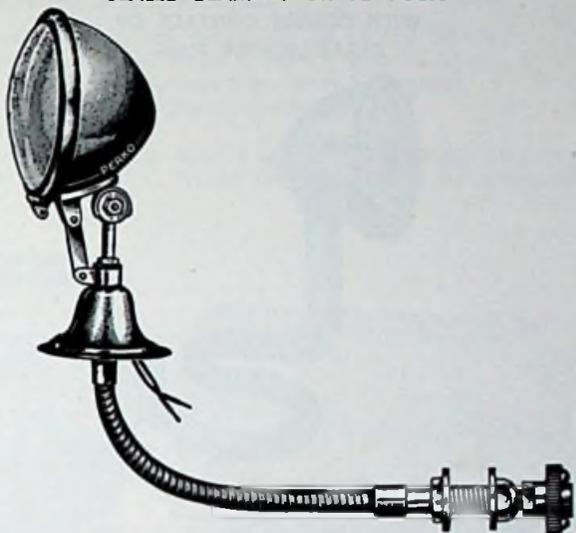


Fig. 241

These operate with extreme ease in both the vertical and horizontal range by an effortless twist or pull of the attractive control handle on the dash.

The light may be mounted at any desired location on the deck.

The control casing is galvanized steel with okoseal rubber covering which protects the casing against corrosion and acts as a grease retainer.

Horizontal angle of beam is 360 degrees. Vertical angle of beam is 27 degrees below and 35 degrees above horizontal.

No.	Diam. Lens Inches		Height Above Deck Inches		Diam. Base Inches		Weight Pounds
	6 Volt Each	12 Volt Each	6 Volt Each	12 Volt Each	6 Volt Each	12 Volt Each	
1	4½	10½	5¼	2½			2½
2	6	12	5¼	3			3
	With 30 Inch Control		With 40 Inch Control		With 50 Inch Control		
No.	6 Volt Each	12 Volt Each	6 Volt Each	12 Volt Each	6 Volt Each	12 Volt Each	
1	\$57.50	\$57.50	\$60.00	\$60.00	\$64.00	\$64.00	
2	60.00	60.00	62.50	62.50	66.50	66.50	

Sealed Beam SPOTLIGHT UNITS

6 OR 12 VOLTS



Fig. 433

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

No.	6 Volt Each	12 Volt Each	Diam. Lens Inches	Watts	Beam C. P.	Range About
1	\$2.50	\$3.25	4½	30	45M	¼ mile
2	2.50	3.25	6	30	95M	½ mile
3	5.50	5.50	7	100	200M	½ mile



Hand SEARCHLIGHT

BRASS—CHROMIUM PLATED
SEALED BEAM—PISTOL GRIP
PUSH BUTTON SWITCH—8 FT. COILED CORD
WITH DOUBLE CONTACT OR
CIGAR LIGHTER PLUG



Fig. 440

Has sealed beam spotlight unit, range about ¼ mile.
Supplied with ring on handle for hanging.

Volts	Each	Diameter Lens Inches	Weight Pounds
6	\$22.50	4½	2
12	22.50	4½	2

Supplied with cigar lighter plug unless otherwise specified.

Spreader FLOODLIGHT

ALL BRASS—CHROMIUM PLATED
DOUBLE CONTACT BAYONET SOCKET
WITH 6, 12 OR 32 VOLT—15 C.P. BULB



Fig. 254

For illumination of sails and rigging when underway at night or for flood-lighting decks, anchorages, docks, etc.

For attachment to narrow spreader. An additional reflector around neck of bulb makes fixture quite waterproof.

Each	Diameter Reflector Inches	Projection From Spreader Inches	Size Mounting Plate Inches	Weight Ounces
\$11.75	4¾	3½	6 x 1	8

Please specify voltage. 6 volt supplied unless otherwise specified.

"Sunbeam" SEARCHLIGHTS

WITH GLASS MIRROR REFLECTOR
6 OR 12 VOLT—50 CANDLEPOWER
BAYONET DOUBLE CONTACT SOCKET
ENCASED WIRING—FOCUSING DEVICE
WATERTIGHT GLANDS AT CABLE
AND CONTROL ROD ENTRANCES

For higher power see notes below.

PILOT HOUSE CONTROL



Fig. 306

No.	Polished Brass Each	Chromium Plated Each	Diam. Inches	Diam. Reflector Inches	Height Above Deck Inches
3	\$99.50	\$115.00	8	7¼	14
4	108.00	123.50	8	7	14

Length control rod below base, 10 inches.
No. 3 has parabolic mirror reflector, range about 1 mile.

No. 4 has mangin mirror reflector and 100 C. P. bulb, range about ¾ mile.

DECK CONTROL WITH TOGGLE SWITCH IN HEAD

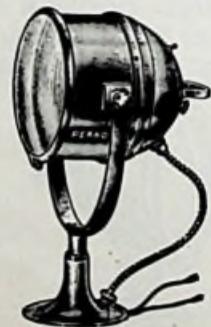


Fig. 305

No.	Polished Brass Each	Chromium Plated Each	Diam. Inches	Diam. Reflector Inches	Height Above Deck Inches
3	\$69.50	\$79.50	8	7¼	14
4	75.50	85.50	8	7	14

No. 3 has parabolic mirror reflector and 50 C. P. bulb.
No. 4 has mangin mirror reflector and 100 C. P. bulb, add \$2.00 each.

Both sizes with 32 volt 50 C. P. bulb, add \$1.75 each.
Both sizes with 32 volt 100 C. P. bulb, add \$2.50 each.



"Perko" High Power SEARCHLIGHTS

WITH MIRROR REFLECTOR—MEDIUM SCREW SOCKET

VOLTAGE—6, 12, 32, AND 120 VOLTS

PACKING GLANDS AT CABLE AND CONTROL ROD ENTRANCES

BODIES—are constructed of heavy wrought brass; stands, yokes, and control mechanism are all cast bronze.

REFLECTORS—a glass mirror reflector, which projects a highly concentrated beam of light a great distance.

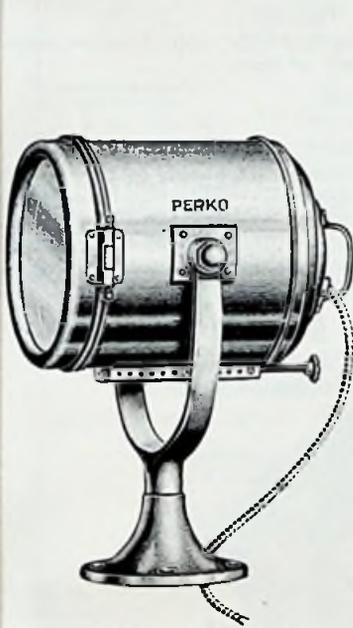
FOCUSING DEVICE—new remote control type, diameter of beam can be changed from inside pilot house.

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

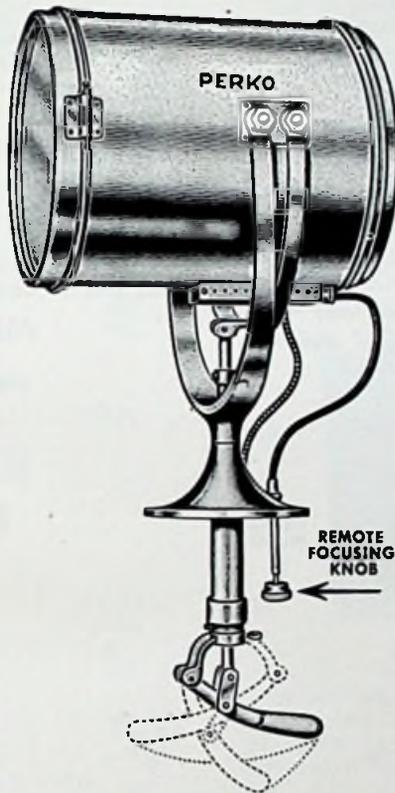
WIRING—enclosed in flexible metal hose, fully protected from weather.

BULBS—Bulbs furnished as standard equipment in various voltages are as follows—6 volts, 18 amps.; 12 volts,

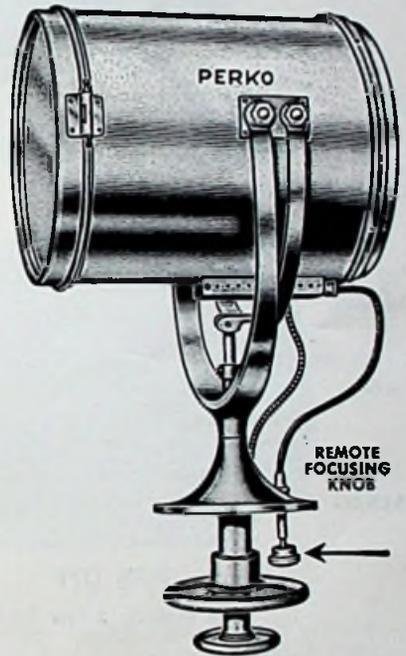
18 amps.; 32 volts, 8 amps.; 120 volts, 500 watt. Can also furnish 120 volts, 250 or 1000 watt bulbs for additional price. See notes below.



DECK CONTROL
Fig. 480



PILOT HOUSE CONTROL
Fig. 297



PILOT HOUSE CONTROL
Fig. 529

Size Inches	Diameter Reflector Inches	Range	Beam Candle Power	Length of Body Inches	Clearance of Glass in Door Inches	Height Above Deck Inches	Weight Pilot House Type Pounds	Diameter of Base Inches
8	8	up to ¼ mile	350,000	12¾	7¾	19	30	6¾
10	10	up to 1 mile	590,000	14¾	9¾	21	34	6¾
12	12	up to 1½ miles	700,000	17	11¾	24	41	6¾
14	14	up to 2 miles	850,000	19	13¾	26	56	8¾

Fig. 480

Fig. 297

Fig. 529

Size Inches	Fig. 480		Fig. 297		Fig. 529	
	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each	Polished Brass Each	Chromium Plated Each
8	\$205.00	\$225.00	\$240.00	\$270.00	\$265.00	\$295.00
10	228.00	253.00	270.00	300.00	295.00	325.00
12	280.00	310.00	324.00	360.00	350.00	385.00
14	350.00	380.00	390.00	425.00	415.00	450.00

NOTES

With 120 volt 250 watt bulb, add \$2.00 each.

With 120 volt 1000 watt mogul screw bulb (special construction) in 12 or 14 inch sizes only, add \$40.00 each.

Spare bulbs, reflectors, lenses, etc. See pages 58 and 68.

Standard length of control below base, Fig. 297 all

sizes, from base to fulcrum of handle, 8 inches. Fig. 529 all sizes from base to center of upper wheel rim, 6½ in.

Special length of pilot house control on Fig. 297 only to order, price on application.

Spare medium screw sockets, \$1.20 each.



FLOODLIGHTS

ENCLOSED — WEATHERPROOF

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

CLAMP TYPE
with Mogul Socket

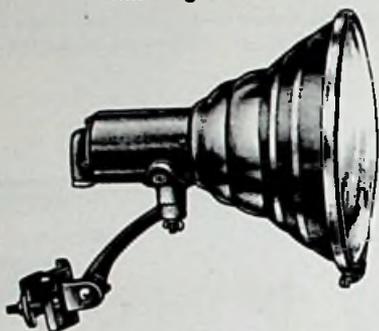


Fig. 227

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

For mounting on wall, cross arm or pipe up to 2½ inches.

Each	Spare Lens Each	Spare Rims Each	Diam. Lens Inches	Length Housing Inches	Maximum Wattage	Weight Pounds
\$25.00	\$7.00	\$4.25	12	14	500	7

DECK TYPE
with Medium Screw Socket



Fig. 228

With aluminum enameled reflector and weatherproof sealed lens. Gray tone enamel exterior and 6 foot approved cord and plug.

Each	Diam. Lens Inches	Length Housing Inches	Diam. Base Inches	Maximum Wattage	Weight Pounds
\$8.80	7½	8	4¼	100	3

Spare lenses with gasket, each \$3.75.

Spare rim for lens, each \$2.00.

MIRROR REFLECTORS FOR SEARCHLIGHTS



Fig. 427

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

Diam. Inches	Each	Style	For Searchlights Fig. and Size
7	\$12.00	Mangin	305-306 No. 4
7¼	10.00	Parabolic	305-306 No. 3
8	20.00	Parabolic	297-480-529—8
10	22.00	Parabolic	297-480-529—10
12	27.50	Parabolic	297-480-529—12
14	37.50	Parabolic	297-480-529—14

Sizes 8-10-12-14 inches with asbestos insulation, cork back and rim add \$16.50 to above prices.

METAL REFLECTORS FOR SEARCHLIGHT BRASS—CHROMIUM PLATED



Fig. 428

Extreme Diam. Inches	Each	For Searchlights Fig. and Size
7	\$8.00	Old 1022-1023
7½	9.00	305-306 No. 3

Cork Gaskets for Reflectors, \$.50 each.

FRONT LENS FOR SEARCHLIGHTS



Fig. 429

Each	Diam. Lens Inches	Length Housing Inches	Diam. Base Inches	Maximum Wattage	Weight Pounds	Diam. Inches	Each	Style	For Searchlights Fig. and Size
						7	\$2.20	Convex	Old 1022-1023
						7½	2.50	Convex	305-306- Nos. 3 &
						8¾	2.75	Flat	297-480-529—8
						10¼	3.15	Flat	297-480-529—10
						12¼	4.30	Flat	297-480-529—12
						14¼	5.00	Flat	297-480-529—14

Lucite PARALLEL RULES TRANSPARENT WITH BRASS, CHROMIUM PLATED BARS

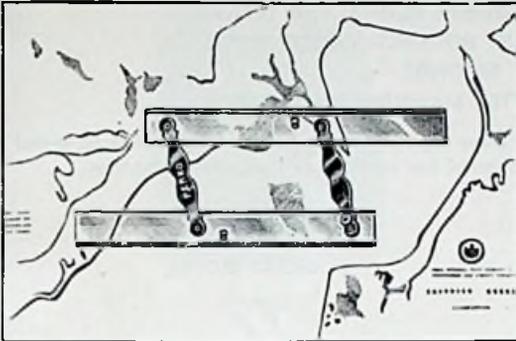


Fig. 630

A new transparent rule of heavy lucite through which the chart data can be easily seen.

Supplied with finger grips and tightening device.

Length Closed Inches	Each	Width Closed Inches	Weight Ounces
12	\$6.50	2½	5
15	8.00	2½	6½
18	9.50	2½	7½

PARALLEL RULES

EBONY FINISH—BRASS, NICKEL PLATED PARTS



Fig. 686

Length Closed Inches	Each	Width Closed Inches	Weight Ounces
12	\$4.25	2½	6
15	4.80	2½	6½
18	5.50	2½	7

DIVIDERS

BRASS—NICKEL PLATED—NAVY TYPE



Fig. 693

- No. 1 Length, 5½ inches, each\$1.40
 No. 2 Length, 7 inches, each 3.75

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	\$8.25	\$16.50
4	36	10.00	19.75

Improved COURSE PROTRACTOR INDICATES COURSE AND REVERSE COURSE TRANSPARENT

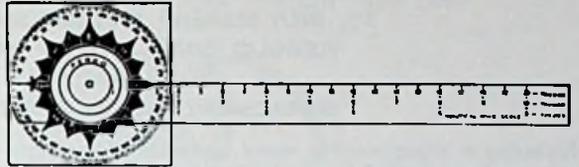


Fig. 706

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

Arm extended on short end to show reverse course.

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

Each	Extreme Length Inches	Diam. Compass Card Inches
\$3.25	21½	6¾

Yacht LOG BOOKS

100 PAGES



Fig. 708

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

- No. 1 Binding: Imitation leather, pebble finish, starboard green color, gold letters, without gold border.
 Each\$3.75
 No. 2 Binding: Imitation leather, pebble finish, pilot blue color, gold letters and gold border.
 Each\$3.90

Electric COMPASS LIGHT

BRASS—CHROMIUM PLATED



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.

Chromium Plated Each	Height Overall Inches	Weight Ounces
\$4.25	8	5

NOTE—Shield will accommodate a G-6 bayonet D.C. bulb 6, 12 or 32 volt.



STAR SPHERICAL COMPASSES

WITH BUILT-IN COMPENSATOR

3 1/2 INCH DIAMETER 5 DEGREE BLACK CARD—WHITE POINTS AND LETTERING
 PLEXIGLAS DOME—OVERLIGHTED—ALL BRASS HOUSING—BLACK FINISH
 OSCILLATION PERIOD—6 SECONDS
 DISPLACEMENT FACTOR—LESS THAN 5° AFTER MAXIMUM DISTURBANCE

Featuring a super-sensitive metal barometer type diaphragm, special alloy high power magnets, non-warping all metal die genuine hand polished sapphire jewel and pivot bearing. Universal bracket for vertical or horizontal mounting.

THE "GUIDARE"
 CRUISER MODEL



Fig. 448

Each	Diameter Overall Inches	Height Overall Inches	Weight Pounds
\$40.50	4 3/4	5 1/4	3

Supplied with Flush Shelf Mounting if desired, add \$5.65 each.

THE "GUIDARE"
 SAILBOAT MODEL



Fig. 562

With internal gimbal ring to compensate for excess amount of heel prevalent in all types of sailing craft. Gives steady performance even at 90 degree heel. Lubrication line is also self aligning.

Each	Diameter Overall Inches	Height Overall Inches	Weight Pounds
\$64.00	4 3/4	5 1/4	3

Supplied with Flush Shelf Mounting if desired, add \$5.65 each.

**"Star" Spherical Compasses
 In Semi-binnacle**

BRASS—CHROMIUM PLATED

The compasses illustrated on this page are available in semi-binnacle for deck or shelf mounting on cruiser or sailboat.

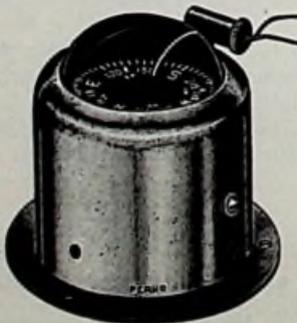


Fig. 560

With Fig. 448 Compass Chromium Plated Each	With Fig. 449 Compass Chromium Plated Each	With Fig. 449 Compass Chromium Plated Each	Binnacle only Chromium Plated Each
\$55.50	\$57.50	\$79.00	\$15.00

Complete			Binnacle Only		
Height Overall Inches	Diam. Base Inches	Weight Pounds	Height Inches	Diam. Opening For Dome Inches	Weight Pounds
5 1/4	6 1/4	3 1/2	4	3 3/4	1 1/4

THE "CRUISARE"
 CRUISER MODEL



Fig. 449

Front reading—with semi-vertical dial and unique bubble in glare shield. Easy to read from any angle or near distance.

Each	Diameter Overall Inches	Height Overall Inches	Weight Pounds
\$42.50	4 3/4	5 1/4	3

Supplied with Flush Shelf Mounting if desired, add \$5.65 each.

Oil COMPASSES

WITH JEWEL BEARING



Fig. 487

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

A guaranteed trouble and bubble-proof compass.

Diameter Card Inches	Complete With Box Each	Outside Diam. Gimbal Ring Inches	Outside Meas. Box Inches	Weight Pounds
2	\$18.50	3 1/6	4 3/4 x 4 3/4	2 1/4
2 1/2	21.00	4 1/4	6 x 6	2 1/2
3	28.50	4 3/4	6 x 6	3 1/4
4	36.75	6 1/4	8 x 8	7
5	47.50	7 1/2	9 x 9	10
6	66.25	8 3/4	10 x 10	15

NOTE—2 inch size has wood box, all other sizes have improved plastic box which will not warp or crack.

"Star" Pathfinder COMPASSES

MAGNIFIED DIAL—INDIRECT ILLUMINATION

WITH MAGNETIC COMPENSATORS

Designed for small boats, cruisers, runabouts, etc.



Fig. 33

Dashboard Mounting

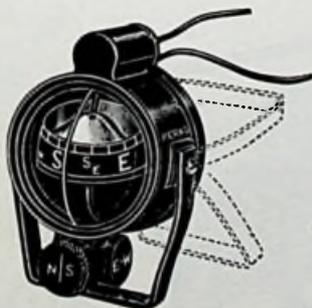


Fig. 34

Universal Mounting

Each	Diam. Face Inches	Depth Inches	Diam. Mounting Inches	Weight Ounces
\$17.50	2 1/4	2 3/4	3 1/8	13

"Neptune" Marked LEAD LINES

WITH VINYLITE PLASTIC MARKERS
1-INCH CIRC. ITALIAN HEMP LINE

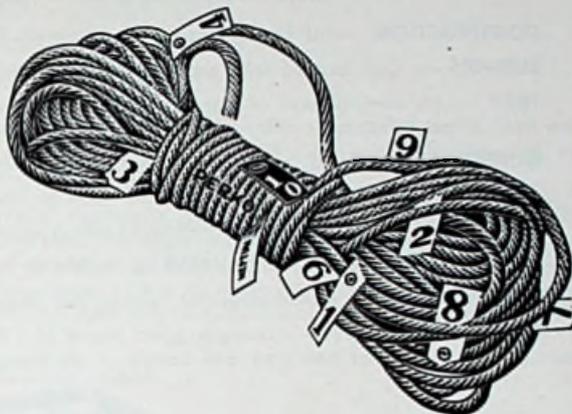


Fig. 190

A lead line that makes sense and can be easily read by anyone using it regardless of experience.

Instead of the old cryptic markings, it makes use of colored Vinylite Plastic Markers printed with numerals in contrasting colors. These markers are soft and resilient, unaffected by salt, grease, oil and sunlight.

The Neptune line was widely used during the war by the Navy, Army and U. S. Maritime Commission.

Length Fathoms	Each	Length Fathoms	Each
7	\$7.00	25	\$16.00
10	8.50	30	18.75
15	11.20	40	25.00
20	13.20	50	31.00

Longer lengths made to order, price on application.

NOTE: Markings up to 10 fathoms inclusive marked every fathom and half fathom, the latter indicated by yellow strip.

Longer lines marked according to Navy standard i.e. 2-3-5-7-10-13-15-17-20 fathoms and every 5 fathoms thereafter.

SOUNDING LEADS



Fig. 940

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

	Per Pound
2 to 14 Pounds	\$.74
15 to 50 Pounds	.72
Larger Sizes	.68

"PERKO" MONEL ALCOHOL STOVE

2 BURNER — PRESSURE TYPE — WITH REMOVABLE TRAY
 MONEL METAL BODY AND TRAY — NATURAL FINISH
 CAST BRONZE BURNERS — BRASS, CHROMIUM PLATED GUARD RAIL

CONSTRUCTION — of heavy gauge monel metal. Satin finish.

BURNERS — Cast bronze with slotted manifold producing intense heat.

TRAY — An integral part of front apron, readily removable for cleaning but will not rattle. It insulates the fuel tank from heat. Sheet asbestos is affixed to its bottom. Tray cannot slide out when boat is heeled.

GUARD RAIL — Brass, chromium plated. Front section is removable to accommodate large pots and pans.

AIR PRESSURE GAUGE — Accurate and easy to read; it shows best working pressure.

PRESSURE PUMP — All brass, knob locks into pump, cannot back out under back pressure.

FILLER CAP AND AIR ESCAPE VALVE — Inside of front apron, but readily accessible.

FUEL TANK — 1½ gallon capacity, rectangular shape and hidden by front apron, fully insulated from heat of burners.

FUEL CONSUMPTION — Using a good grade of "Burning, Alcohol," both burners will operate continuously for hours on one gallon of fuel and one pound of air pressure.

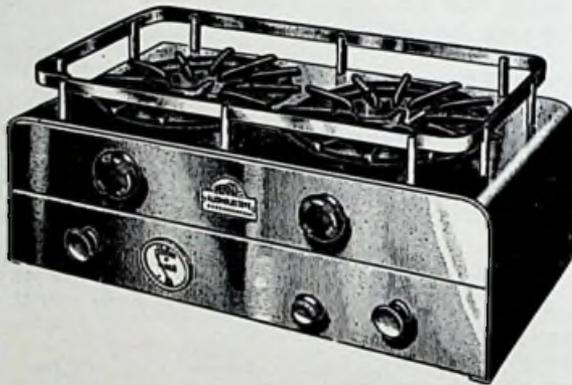


Fig. 364

Complete
Each
\$116.00

Extreme
Length
Inches
20½

Extreme
Width
Inches
12

Extreme
Height
Inches
8½

Weight
Pounds
27

ABOVE PRICE INCLUDES A FIG. 365 FUNNEL FOR FILLING.

"Galley Slave" Gravity Alcohol Stove

WHITE VITREOUS ENAMELED BODY—BRASS GUARD RAILS
 BRASS BURNERS—BRASS FUEL TANK

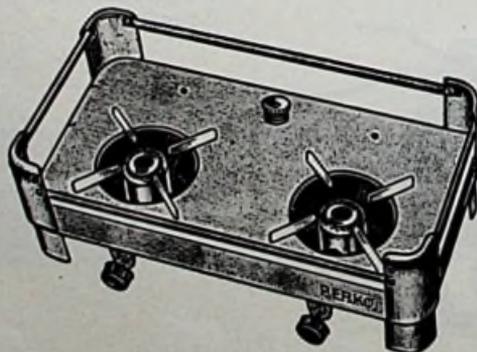


Fig. 376

The Fuel Tank is underneath out of sight, filled through filler cap located on top behind burners. An economical easy to operate stove, no pumping necessary. Just preheat burners then operate with knobs like stove at home. Has intense blue flame with remarkable heating ability.

Each
\$29.95

Length
Overall
Inches
19½

Width
Overall
Inches
11

Height
Overall
Inches
6½

Weight
Pounds
6½



“PERKO” MONEL BOTTLED GAS STOVE

- FOR USE WITH PROPANE OR BUTANE L. P. GAS
- 2 BURNER — WITH REMOVABLE TRAY
- MONEL METAL BODY AND TRAY — SATIN FINISH
- COLD FORGED ALUMINUM CENTER SIMMER BURNERS
- BRASS, CHROMIUM PLATED GUARD RAIL AND POSTS
- BLACK PLASTIC CONTROL KNOBS AND TRAY HANDLE

The last word in convenience, practicability and good looks with many of the faults of older models eliminated. No enamel to chip, crack or discolor. Monel metal is rich looking, easily cleaned and is non-corrosive.

THE BURNER is especially unique, in fact it's two burners in one. The outer rim is a high speed cooking burner for quick broiling, frying, etc. There is also a tiny, inner, economical simmer burner which maintains the cooking while using only a fraction of the gas usually consumed with ordinary single burners and it can be used independently of the starting burner; no other type of burner possesses this decided advantage. The center simmer burner provides exactly the right heat for every cooking requirement from the full fire power of the starting burner to the mere beads of flame of the "keep-warm" position of the center simmer. All controlled by the one control knob.

EASY CLEANING — The burner cap can be removed in less than one second.

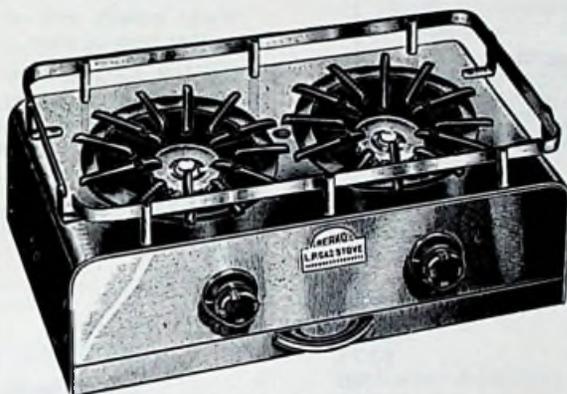


Fig. 373

Complete Each	Extreme Length Inches	Extreme Width Inches	Extreme Height Inches	Weight Pounds
\$98.00	20 3/4	12	8 1/2	25

BOTTLED GAS STOVE EQUIPMENT

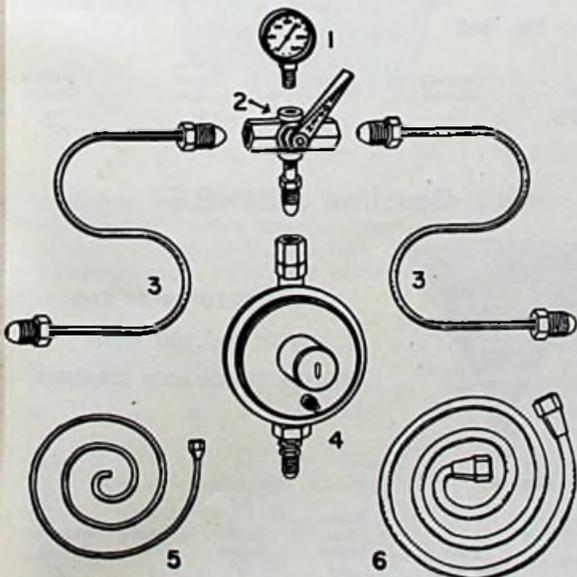


Fig. 374

No.	Description	Each
1	Polished Brass Pressure Gauge	\$ 5.00
2	Forged Bronze Two Way Valve Manifold with Indicating Handle	8.25
3	Pigtails (Tank Connections)	3.25
4	Pressure Regulator with Relief Valve and Mounting Brackets	12.00
5	1/4 inch Copper 10 Foot Vent Line with One Fitting	4.50
6	1/2 inch Copper 20 Foot Fuel Supply Line with Two Fittings	13.50
7	Plugs for Manifold	1.80

Note — The above Manifold item No. 2 and Regulator item No. 4 is listed by the Underwriters Laboratories.



"Perko" ALCOHOL BURNER
CAST BRONZE



Fig. 367

Each

- Burner with Needle Valve and Control Handle, no Fittings, Filter or Priming Pan \$16.00
- Wire Brush Filters Only 2.40
- Priming Pan Only 1.50
- Packing Nut for Valve Stem45
- Grates only for Stove 2.40

Alcohol Stove Parts

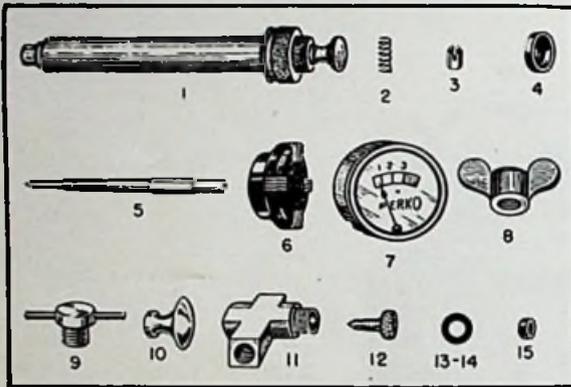


Fig. 368

- | No. | | Each |
|-----|----------------------------------|--------|
| 1 | Fuel Tank Air Pump complete | \$3.75 |
| 2 | Pump Check Valve Spring | .40 |
| 3 | Pump Check Valve | .60 |
| 4 | Leather Plunger for Pump | .40 |
| 5 | Needle Valve Stem | .85 |
| 6 | Plastic Control Knob | 1.00 |
| 7 | Air Pressure Gauge | 3.00 |
| 8 | Wing Nut for Filter Entrance | .85 |
| 9 | Filler Cap for Fuel Tank | 1.25 |
| 10 | Knob for Removable Tray | .85 |
| 11 | Fitting for Fuel Supply Line | 1.20 |
| 12 | Screw for Air Escape Valve | .40 |
| 13 | Lead Gasket for Wing Nut No. 8 | .30 |
| 14 | Lead Gasket for Filler Cap No. 9 | .30 |
| 15 | Graphite Packing for Valve Stem | .12 |

POT HOLDERS

ALL BRASS—CHROMIUM PLATED

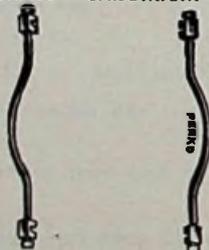


Fig. 369

Made for attachment to our alcohol stove (Fig. 364). Adjustable on the stove for various sizes of pots, pans, etc.

- | No. | Per Pair | Length Centers of Rail Inches | Weight Per Pair Ounces |
|-----|----------|-------------------------------|------------------------|
| 1 | \$4.50 | 9 3/8 | 7 1/2 |
| 2 | 4.50 | 10 1/2 | 8 |
- Size No. 1 is for older models of stove.

Hot Air CABIN HEATER
CAST ALUMINUM BODY
6 OR 12 VOLTS

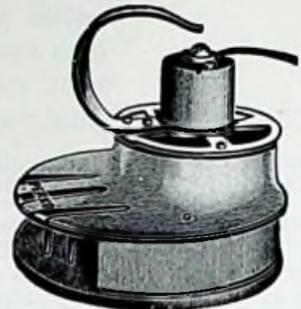


Fig. 595

Now you can use your galley stove to heat your boat. Works equally well on gas, alcohol, kerosene, coal or any other type of stove.

This Hot Air Heater takes the heat from the stove and distributes it to all corners of the cabin. This blast of air will heat the average cabin in a few minutes and maintain a comfortable temperature as long as required.

Just place the heater on the stove over the burner, connect electric fan wires to battery, light the stove and in a few minutes the cabin will be as comfortable as you want it.

Volts	Each	Amperes	Diam. Inches	Height Inches	Weight Pounds
6	\$26.00	1.5	8 1/2	7	9 1/2
12	28.00	.75	8 1/2	7 1/4	9 3/4

Specify Voltage When Ordering

Offset FUNNEL

HEAVY GAUGE ZINC BRASS STRAINER



Fig. 365

Designed primarily for filling fuel tanks, this funnel is a handy one for various purposes on a boat, at home or in a garage.

Each	Capacity Ounces	Diam. Mouth Inches	Diam. Spout Inches	Weight Ounces
\$2.75	3	3	3/4	2

Gasoline FUNNELS



Fig. 81

GALVANIZED SHEET STEEL WITH No. 100 MESH BRONZE REMOVABLE STRAINER

No.	Each	Diam. Top Inches	Height Inches	Capacity Pints	Weight Ounces
1	\$2.00	6 3/8	7	1	6
2	2.35	8	8 1/2	2	8



Marine EXHAUST BLOWERS

CAST ALUMINUM HOUSING
6-12 OR 110 VOLTS

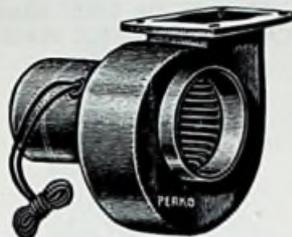


Fig. 778

For removing dangerous gasoline fumes from the bilge and engine room, exhausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and bilges.

An absolute necessity to the motor boat because their use decreases the hazard of fires and explosions from gasoline fumes.

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Size Flange Inches
1	3	2½	7½x6x6	90	3½x3½
2	4	4	8½x8x8	186	4½x4½

Volts	No. 1 Each	No. 2 Each	Amperes	Horsepower
6	\$20.00	\$32.00	8.0	1/40
12	22.00	35.00	4.0	1/40
110 D.C.		40.00	.32	1/40

A caution plate is furnished with every Blower.

EXHAUST BLOWERS For Bilge Installation

FULLY ENCLOSED SPARKPROOF MOTOR
CAST ALUMINUM HOUSING—ALL VOLTAGES

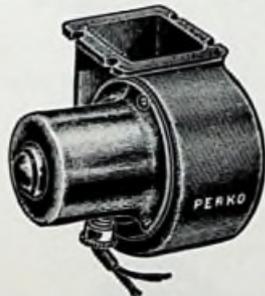


Fig. 791

A blower that may be installed in the bilge without fear of sparks igniting gasoline fumes.

Motor enclosed in brass cover. Shaft passes through a Neoprene seal and electric cable enters cover through a watertight packing gland.

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches	Capacity Cubic Feet Per Minute	Flange Inches
1	3	2½	7½x6x6	90	3½x3½
2	4	4	8½x8x8	186	4½x4½

Volts	No. 1 Each	No. 2 Each	Amperes	Horsepower
6	\$27.00	\$39.00	8.0	1/40
12	29.00	42.00	4.0	1/40
32	32.00		1.0	1/40
110 D.C.		48.00	.32	1/40

A caution plate is furnished with every Blower.

Improved EXHAUST BLOWERS

CAST ALUMINUM HOUSING
6-12 OR 110 VOLTS

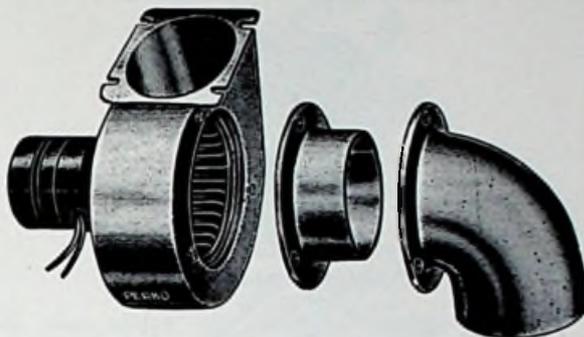


Fig. 795

The improvement is obvious; notice that the inlet fittings are not an integral part of the housing, permitting use of the straight or 90° fitting whichever is preferred.

The neck of the straight fitting is 1½ inches long allowing better fit of duct. The 90° fitting can be set at three different angles and eliminates the use of an elbow in the duct.

Volts	No. 1—3 Inch		No. 2—4 Inch	
	With Straight Inlet Each	With 90° Inlet Each	With Straight Inlet Each	With 90° Inlet Each
6	\$24.00	\$25.50	\$37.00	\$39.50
12	26.00	27.50	39.00	41.50
110 D.C.			45.00	47.50

All other dimensions and data, same as Fig. 778. Specify type of inlet required.

Improved Blower and Ignition SWITCHES

CAST BRONZE—FLUSH TYPE



Watertite Enclosed Switch
Fig. 149



Non-Watertite Switch
Fig. 155

With these improved switches the engine cannot be started before the blower has been turned on, then before the engine can be stopped the blower must again be started thus clearing out any remaining fumes before and after engine operation.

Fig.	Polished Bronze Each	Chromium Plated Each	Diam. Face Plate Inches	Diam. Box Inches	Depth Inches	Weight Pounds
149	\$14.50	\$15.50	4½	3¼	1¼	1¼
155	13.50	14.50	3¾	...	1¾	¾



Turbine VENTILATORS FOR MARINE USE IMPROVED BEARING RUNNING IN OIL GALVANIZED STEEL OR COPPER



Fig. 744

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

The moving breeze whirls the head and the resulting vacuum causes a powerful upward lift to the air below.

Absolutely quiet in operation, durable and rainproof.

Inside Diam. Inches	Galv. Steel Each	Copper Each	Height Overall Inches	Diam. Overall Inches	Capacity C.F.M.	Galv. Weight Pounds
4	\$12.50	\$21.00	10	7	140	2 1/4
5	12.75	21.50	12	8 1/2	152	3 1/2
6	13.00	22.00	13	9 1/2	196	4 1/2
7	15.50	26.25	15	11	243	6
8	16.50	27.75	16	12 1/2	285	7
10	20.00	34.00	18 1/2	15	445	10
12	23.00	38.00	20	17 1/2	650	12

With reinforcing band around bottom of neck supplied to order, price on application.

Galvanized vents are painted aluminum.

WATER DECK IRONS GALVANIZED CAST IRON



Fig. 430

Size of Stove Pipe Inches	Each	Outside Diam. of Neck Inches	Diam. Flange Inches	Weight Pounds
2	\$3.25	2 1/4	5 1/2	1 1/4
2 1/2	4.90	2 3/4	6 1/2	1 3/4
3	5.00	3 3/8	7 1/2	4
3 1/2	6.25	3 3/4	8 1/2	5
4	6.75	4 3/8	9 1/4	6 1/4
4 1/2	8.50	4 3/4	10	8
5	9.00	5 3/8	10 1/2	9
5 1/2	10.50	5 3/4	11	9 1/4
6	11.00	6 1/2	11 1/4	11 1/4

VENTILATOR NOTES

Spare Deck Plates for above Cowl Ventilators, see Figs. 419 and 527.

When ordering cowl ventilators only, without deck plate, please specify whether with or without ring on neck.

All above cowl ventilator sizes are standard; special sizes and heights made to order.

Cowl VENTILATORS ROUND MOUTH WITH THREADED DECK PLATE SHEET STEEL OR SHEET BRASS CAST BRONZE DECK PLATE



Fig. 510

Steel ventilators are hot galvanized after fabrication.

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Weight Pounds
2	\$16.75	\$24.00	\$31.00	4	5 1/2	1
2 1/2	18.00	26.00	33.00	5	6 1/2	1 1/2
3	19.75	28.00	35.00	6	8	2
4	23.75	32.00	39.00	8	11	4
5	40.00	49.50	58.00	10	13	6
6	54.00	63.00	72.00	12	16	9
8	102.00	125.00	145.00	16	21	15

Cowl VENTILATORS WITH SWIVEL DECK PLATE SHEET STEEL OR SHEET BRASS CAST BRONZE DECK PLATE



Fig. 513

Deck Plate Size Inches	Galv. Each	Polished Brass Each	Chromium Plated Each	Diam. Mouth Inches	Height Overall Inches	Weight Pounds
3	\$22.50	\$30.75	\$38.00	6	8	1
4	28.50	36.75	44.00	8	12	1 1/2
5	43.00	52.50	61.00	10	13 1/2	2
6	56.75	66.00	75.00	12	17 1/2	3
8	84.00	107.00	127.00	16	20 1/2	5
10	146.00			20	28	10

Note—10 inch size is heavy 18 gauge steel and applies to cowl only with galvanized band on neck, deck plate.

Cover for Fig. 513 deck plate for use when ventilator is removed, price on application.

Polished copper vents supplied to order, price on application.



Cowl VENTILATORS

OVAL MOUTH
CAST BRONZE—WITH THREADED DECK PLATE

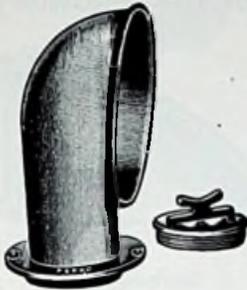


Fig. 509

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Size Mouth Inches	Height Above Deck Inches	Weight Pounds
3	\$29.75	\$37.00	6¼x4	8½	6
4	38.50	48.00	6½x4¾	8¾	8

Cowl VENTILATORS

OVAL MOUTH
CAST BRONZE—WITH SWIVEL DECK PLATE

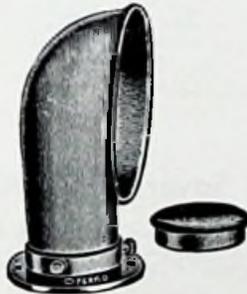


Fig. 515

Supplied complete with cover for use when ventilator is removed.

Deck Plate Size Inches	Polished Bronze Each	Chromium Plated Each	Size Mouth Inches	Height Above Deck Inches	Weight Pounds
3	\$35.00	\$42.50	6¼x4	9½	6
4	44.50	54.00	6½x4¾	9¾	8

Mosquito SCREENS

FOR COWL VENTILATORS
BRASS FRAME—COPPER SCREENING

Supplied with spring clips to slip over bead of ventilator mouth.

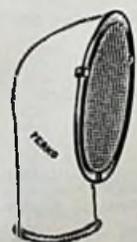


Fig. 507

Diameter Mouth of Ventilator Inches	Each	Inside Diameter of Screen Inches
4	\$3.85	4¾
5	4.50	5¾
6	5.00	6¾
8	6.00	8¾
10	7.75	10¾
12	10.00	12½
16	13.00	16½

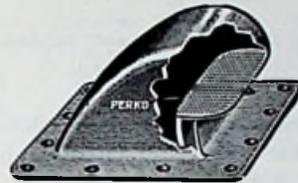
Above are made to fit our Vents, Figs. 510 and 513.

Cruiser VENTILATOR

STREAMLINE—CAST BRONZE



Fig. 908



Cut away view showing screen and water guard

An extremely neat ventilator for cruiser decks and cabin roofs.

An integral water guard inside mouth prevents spray or rain from entering ventilator. A bronze screen permanently installed to keep insects out of cabin.

Brushed Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Overall Inches	For Screw No.	Weight Pounds
\$14.50	\$21.00	\$22.00	7x7	3½	8	4¾

Junior Transom VENTILATOR

CAST BRONZE



Fig. 1069

Burnished Bronze Each	Chromium Plated Each	Size Flange Inches	Depth Collar Inches	For Screw No.	Weight Pounds
\$1.80	\$4.00	6¾x2¼	¾	6	¾

With bronze screen soldered in, add \$.90 each.

Senior Transom VENTILATOR

CAST BRONZE



Fig. 1062

Plain Bronze Each	Chromium Plated Each	Dimensions Inches	For Screw No.	Weight Pounds
\$3.25	\$5.50	10x4	8	1



**Streamline
Space Saver VENTILATOR**

CAST BRONZE



Starboard Side
Fig. 771

For mounting on catwalk against outside of deck house or bulkhead where space is limited.

Bosses for fastening are inside ventilator out of sight but angled toward mouth for insertion of wood screws. Drilled for No. 8 F.H. wood screw.

Supplied in pairs for starboard and port sides. When ordering a half pair mention side required.

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Height Overall Inches	Dimensions Mouth Inches	Weight Per Pair Pounds
\$12.75	\$13.75	9 3/4	4 1/2	4 x 1 3/4	2 3/4

**"Air Stream"
Space Saver VENTILATORS**

PRESSED BRASS—CHROMIUM PLATED



Starboard Side
Fig. 762

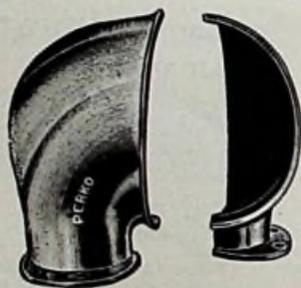
Stamped from heavy gauge brass. Has rounded edges for rigidity and strength.

Installation is easy and side flanges flex to conform cabin sides. Internal flange on bottom for gasket.

No.	Chromium Plated Per Pair	Length Overall Inches	Height Overall Inches	Depth Overall Inches	Weight Per Pair Pounds
1	\$11.00	9 1/2	4 1/4	2 1/8	1 1/2
2	16.50	11	6	2 1/4	3

Space Saver VENTILATORS

CAST BRONZE



Starboard Side Port Side

Fig. 782

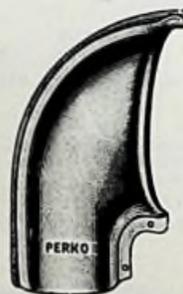
Designed especially for mounting against outside of deck house or cabin, takes up very little space, can be used to advantage in connection with exhaust fan Fig. 778.

No.	Inside Diameter at Base Inches	Measurements Inside at Mouth Inches	Height Overall Inches	For Screw No.	Weight Per Pair Pounds
1	2 1/2	2 3/8 x 5	6 3/4	8	3 3/4
2	3 1/2	3 3/8 x 7 1/2	9	8	6

No.	Brushed Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair
1	\$11.50	\$16.80	\$21.25
2	16.25	22.00	26.50

Space Saver VENTILATORS

PRESSED BRASS—CHROMIUM PLATED



Starboard Side
Fig. 763

For easy installation against side of cabin where space is restricted. Has exterior flanges on sides for fastening a interior flange on bottom for gasket.

Side flanges flex to conform to cabin sides. Edge mouth is rounded for rigidity and appearance.

No.	Chromium Plated Per Pair	Height Overall Inches	Width Overall Inches	Depth Overall Inches	Weight Per Pair Pounds
1	\$11.00	7 1/4	4 1/2	2 3/8	1 1/2
2	16.50	10	6 3/8	3 3/8	3

Note—When ordering a half pair, please mention whether for port or starboard side.



Clam Shell VENTILATORS CAST BRONZE



Fig. 323

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	For Screw No.	Weight Ounces
4	2¾	1¾	3½x3½	7	7
5	3½	2	4 x3¾	7	14

No.	Polished Bronze Each	Chromium Plated Each
4	\$2.50	\$3.40
5	2.95	3.85

Streamline VENTILATORS CAST BRONZE



Fig. 324

No.	Width Opening Inches	Height Opening Inches	Size Base Inches	For Screw No.	Weight Ounces
2	1¾	1	2½x3¾	7	6
3	2½	1½	3¾x4¾	7	12

No.	Polished Bronze Each	Chromium Plated Each
2	\$2.50	\$3.40
3	2.95	3.85

Streamline VENTILATORS CAST BRONZE

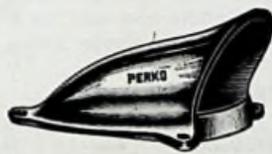


Fig. 476

No.	Polished Bronze Each	Chromium Plated Each	Width Opening Inches	Height Opening Inches	Size Base Inches	Weight Pounds
6	\$6.50	\$7.50	3½	2¾	5x6	1
7	8.25	9.25	4¾	3¼	6x7	2
8	11.00	13.00	5¾	3½	7x8	2½

All sizes drilled for No. 8 F.H. wood screw.

Streamline VENTILATOR CAST BRONZE



Fig. 310

A ventilator with graceful lines that will enhance the appearance of any boat.

Polished Bronze Each	Chromium Plated Each	Size Opening Inches	Size Base Inches	For Screw No.	Weight Pounds
\$6.50	\$8.00	3x1	7½x4	6	1½

Locker VENTILATORS CAST BRONZE

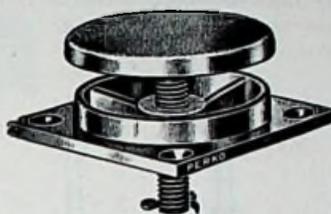


Fig. 783

No.	Polished Bronze Each	Chromium Plated Each	Diam. of Opening Inches	Size Plate Inches	Weight Pounds
1	\$6.85	\$8.85	1½	2½x2½	½
2	7.25	9.25	2½	3¼x3¼	1
3	8.75	10.75	3	4¼x4¼	1½
4	10.75	13.00	3¾	4¾x4¾	1¾

Ventilator DECK PLATES CAST BRONZE—SCREW TYPE



Fig. 527

Complete with key and extra ring for cowl.

Diameter Opening Inches	Machine Finish Each	Polished Bronze Each	Chromium Plated Each	Diameter Plate Inches	Weight Pounds
2	\$6.85	\$8.00	\$9.75	3¾	¾
2½	7.75	8.80	10.50	4½	1¼
3	8.80	10.25	12.00	4¾	1¾
3½	11.50	13.00	15.50	5½	2
4	13.00	15.50	17.50	5¾	2½
5	19.00	22.00	24.50	7¾	3½
6	24.00	27.50	30.00	8¾	6¼
8	52.00	57.00	62.00	10¾	8½

Swivel DECK PLATES

CAST BRONZE—FOR COWL VENTILATORS

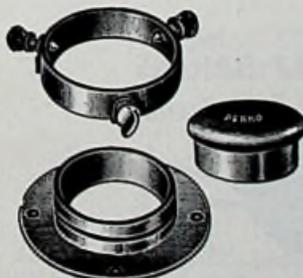


Fig. 419

For Size Ventilator Inches	Opening In Base Inches	Machine Finish Each
3	2¼	\$11.25
4	3¾	17.00
5	4½	21.00
6	5	25.00
8	7	33.00

Permits cowl to be turned to any direction.

Price does not include cap, if cap is desired add 25% to above prices.



Automatic BOAT BAILERS

BRASS TUBING—CAST BRONZE FITTINGS
WITH BALL CHECK
FOR RUNABOUTS

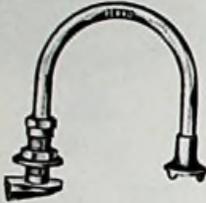


Fig. 410

Has outlet fitting in streamline design to reduce resistance, screened inlet fitting.

Operates at speed of about 7 miles per hour.

Requires no further attention after installation.

Each	Height Inside Hull Inches	Diam. Tubing Inches	For Hull Thickness Inches	Weight Pounds
\$10.00	7	3/4	up to 1 3/4	1 3/4

Spare rubber balls, per dozen \$1.50.

Automatic BOAT DRAINERS

CAST BRONZE—BURNISHED



Fig. 213

For use in life boats. Made of heavy cast bronze, with sponge rubber ball valve. Cast bronze cover with chain attached, threaded 1 1/4 inches, No. 14 thread.

Complete Each	Caps Only With Chain Each	Balls Only Per Dozen	Diam. Opening Inches	Diam. Flange Inches	Diam. Ball Inches
\$5.50	\$1.75	\$3.00	1 1/4	3 3/4	1 1/2

Steel BOAT BAILERS

GALVANIZED—RIVETED HANDLE



Fig. 180

Each	Diameter Inches	Weight Pounds
\$3.50	8 1/4	1

Small BOAT DRAINER

THREADED TYPE
CAST BRONZE—BURNISHED



Fig. 386

Starts draining at speed of 5 miles per hour. Install in after end of boat and be sure that mouth toward the stern.

Made for hulls 3/4 inch or thicker but may be used thinner hulls by cutting away necessary portion of hull. Depth of mouth below hull is 3/4 inch.

Each	Height Inside Boat Inches	Width Overall Inches	Weight Pounds
\$5.25	2 3/4	2 1/2	1 3/4

Small BOAT DRAINER
SPRING TYPE—STAINLESS STEEL SPRING
CAST BRONZE OR ALUMINUM

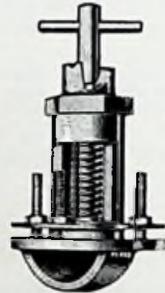


Fig. 387

Installed in after end of boat with mouth toward stern. Starts draining at about 5 miles per hour.

To open lift "T" handle and lock by half turn to left. A slight turn to right will release strong spring close drainer tightly.

For use in metal or wood boats.

Bronze Each	Aluminum Each	Height Inside Boat Inches	Diam. Flange Inches	Weight Pounds
\$6.00	\$5.75	4	2 3/4	1

Transom DRAIN PLUGS
FOR OUTBOARD BOATS
PLAIN BRASS

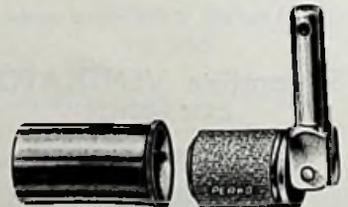


Fig. 414

To release plug, raise handle to position illustrated. Remove plug while boat is in motion and water will drain out. Install in lowest part of transom. Watertight when closed.

Each	Diam. Tube Inches	Length Overall Inches	Length Tube Inches	Weight Ounces
\$3.00	1	2 1/2	2	4 1/2



Garboard DRAIN PLUGS

CAST BRONZE—BURNISHED



Fig. 263



Fig. 266

The handle and plug are cast in one piece eliminating the need for a wrench. However if the plug should "freeze" into the flange a wrench may be used on the squared portion of the stem.

Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
\$3.25	3/4	2 3/8	5/8	11

Garboard DRAIN PLUGS

CAST BRONZE—BURNISHED



Fig. 714



Fig. 737

Fig. 737 has extra brass flange and 3 F.H. machine screws, maximum space between flanges is 3/16 inches.

Fig.	Burnished Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
714	\$1.90	1/2	2	5/8	3
737	2.50	1/2	2	5/8	6



Fig. 124

Burnished Bronze Each	Pipe Size Inches	Diam. Flange Inches	Depth Inches	Weight Ounces
\$4.00	1	3 1/4	1	10

Fig. 124 is furnished complete with galvanized wrench.

A few of these drain plugs installed in garboard allows quick drainage of boat when hauled out, by removing heavy plug. Threads are tapered pipe sizes and plugs are watertight.

Pump VALVES



Fig. 237

Galvanized iron with oak leather clapper, galvanized iron weight on both sides of leather riveted together and screwed to casting.

Diameter inches	2	2 1/2	3	4
Wgt. per doz. lbs.	4	6	7	11
Per doz.	\$8.00	\$10.00	\$12.00	\$18.00

Leather PLUNGERS

OAK LEATHER

Riveted together, strong and durable.



Fig. 239

For Diam. Pump Inches	Per Dozen	Weight Per Dozen Pounds
2	\$5.75	3/4
2 1/2	6.50	1 1/4
3	7.00	1 1/2
4	8.50	1 3/4

Bronze Navy Pump STRAINERS



Fig. 704

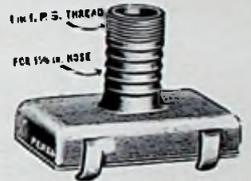


Fig. 705



Fig. 721



Fig. 722

Fig.	Each	Pipe Thread Inches	For Hose Inches	Length Inches	Width Inches	Weight Pounds
704	\$3.65	1	1 1/4	7	2 3/4	2
705	3.65	1	1 1/4	4 3/4	2 3/4	1 1/2
721	3.65	1 1/4		5	2 3/4	1 1/2
722	3.65	1 1/4		4 3/4	2 3/4	1 3/4

Junior STRAINER

CAST BRONZE FOR 3/8 INCH RUBBER HOSE



Fig. 709

Excellent for use with bilge pumps having 3/8 inch hose for intake such as our Fig. 202, etc.

Each	Length Overall Inches	Width Inches	Weight Ounces
\$2.10	4	1 3/4	6

"Champion" Navy BILGE PUMP
FOR PIPE
BRASS CYLINDER—CAST BRONZE PARTS
WITH WEIGHTED LEATHER VALVE



Fig. 1016
CAPACITY—13 STROKES—5 GALLONS

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Diameter Plunger Rod Inches
\$26.50	24	2 3/4	1 1/4	1 1/2	1/2

Fig. 147—Weighted leather valve only, each \$1.35
Fig. 151—Flax packed plunger only, each 2.50

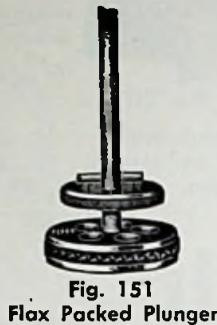


Fig. 151
Flax Packed Plunger



Fig. 147
Weighted Leather Valve

"Super" Navy BILGE PUMP
FOR HOSE OR PIPE
WITH WEIGHTED LEATHER VALVE

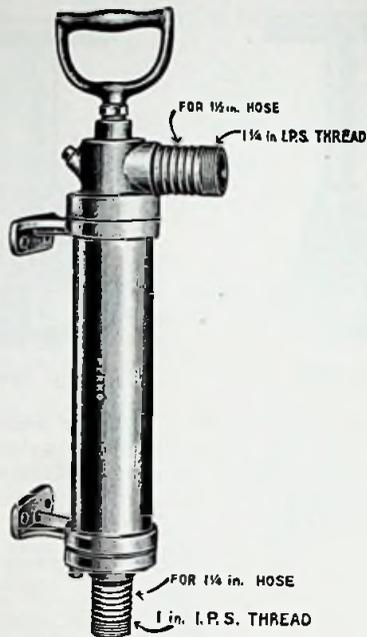


Fig. 701

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

Each	Extreme Length Inches	Inlet Sizes Pipe Inches	Hose Inches	Outlet Size Pipe Inches
\$29.00	27	1	1 1/4	1 1/2

"Junior" Navy BILGE PUMP



Fig. 1018

CAPACITY—13 STROKES—3 GALLONS

This is the Fig. 1016 "Champion" Pump reduced in length for installation in limited space.

Each	Extreme Length Inches	Diameter Cylinder Inches	Inlet Pipe Thread Inches	Outlet Pipe Thread Inches	Weight Pounds
\$25.00	16 1/4	2 3/4	1 1/4	1 1/2	5 1/2

Fig. 108 Plunger Assembly only, complete, No. 1 for pumps Figs. 702 and 1018, \$8.25 each, No. 2 for pumps 701 and 1016, \$8.75 each.

"Midget" Navy BILGE PUMP

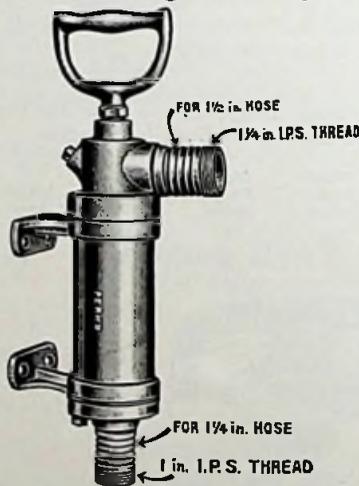


Fig. 702

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

Each	Extreme Length Inches	Diam. Cylinder Inches	Inlet Sizes Pipe Inches	Hose Inches	Outlet Size Pipe Inches
\$27.50	18 1/4	2 3/4	1	1 1/4	1 1/2



Fig. 108



Brass BILGE PUMPS
DOUBLE ACTION

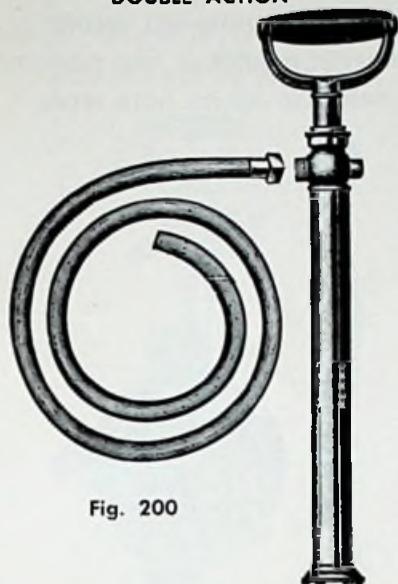


Fig. 200

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

No.	With Hose Each	Height Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
1	\$9.50	17 $\frac{3}{8}$	1 $\frac{1}{8}$	6	2 $\frac{1}{4}$
2	12.35	20	1 $\frac{1}{2}$	12	3 $\frac{1}{4}$

Without hose, deduct \$.50 each.

Brass BILGE PUMPS
DOUBLE ACTION

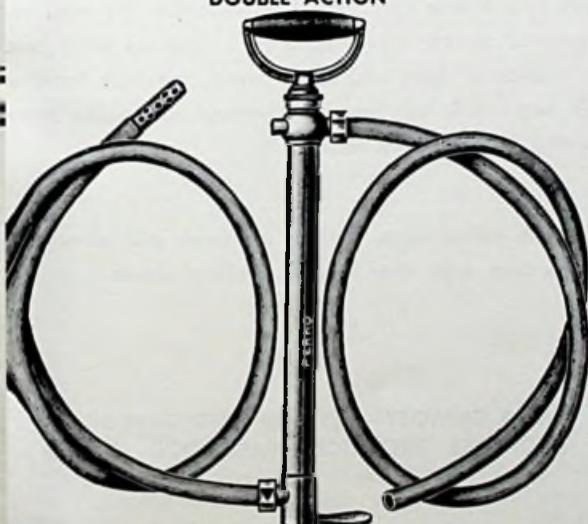


Fig. 202

Cast bronze foot rest and two 5 foot lengths of hose for suction and discharge.

No.	With Hose Each	Height Inches	Diameter Inches	Capacity Per Min. Gallons	Weight Pounds
5	\$12.00	18 $\frac{3}{8}$	1 $\frac{1}{8}$	6	3
6	15.00	21	1 $\frac{1}{2}$	12	4

Without hose, deduct \$.50 for each hose.

Brass BILGE PUMP
SINGLE ACTION

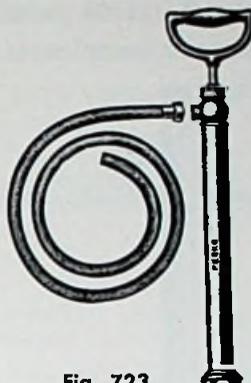


Fig. 723

Complete with 5 feet of rubber hose. Has moulded neoprene rubber plunger producing excellent capacity. Capacity 2 $\frac{1}{2}$ gallons per minute.

With Hose Each	Without Hose Each	Diameter Inches	Extreme Length Inches	Weight Pounds
\$8.50	\$8.00	1 $\frac{1}{4}$	17 $\frac{3}{8}$	2

Parts for Brass Bilge Pumps

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

No. 1 for numbers 1 and 5 bilge pumps.
No. 2 for numbers 2, 4, 6 and 8 bilge pumps.

Part	No.	Outside Diam. Inches	Each
Flange Washer	No. 1	1 $\frac{1}{8}$	\$.40
	No. 2	1 $\frac{3}{8}$	.45
Cup Washer	No. 1	1 $\frac{1}{8}$	\$.40
	No. 2	1 $\frac{3}{8}$	.45
Split Washer	No. 1	1 $\frac{3}{8}$	\$.11
	No. 2	1 $\frac{3}{8}$	.17
Hollow Ball	No. 1	1/2	\$.35
	No. 2	3/4	.40
Valve Fitting For Plunger	No. 1		\$1.10
	No. 2		1.20
Packing Nut	No. 1		\$1.20
	No. 2		1.55

NOTE—The above parts are also used in Fig. 345 bilge pumps, and Fig. 146 crank case pump.

Rubber Hose and Strainer

FOR FIGS. 200, 202 and 723 BRASS BILGE PUMPS

Heavy moulded rubber hose, durable and lasting. $\frac{3}{8}$ inch inside diameter.



Fig. 208



Standard 5 ft. length
Cast Bronze Strainer

Other lengths of hose can be furnished. Price on application.

Fig. 209

Each
\$1.20
.90



Small Boat BILGE PUMP

STEEL—ZINC PLATED OR ALUMINUM
GOOD CAPACITY—EASY OPERATION



Fig. 152

These have felt retainer washer to prevent squirt through cap. Capacity—7 gallons per minute at normal speed.

Aluminum Pump has cast top with integral spout

	Each	Length Inches	Diameter Body Inches	Diameter Spout Inches	Weight Pounds
Steel	\$3.50	25	1½	¾	2½
Aluminum	5.30	26	1½	¾	1½

Outboard BILGE PUMP

ALL BRASS—WITH 3 FT. RUBBER HOSE
BRASS BRACKETS FOR MOUNTING

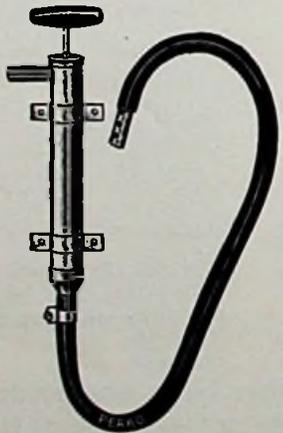


Fig. 201

For small boats, outboard motor, sail or rowboats. Brackets permit permanent installation on transom or side, allowing one hand pumping while boat is in use. Complete with bronze intake strainer.

Each	Length Body Inches	Diam. Inches	Capacity Per Min. Gallons	Weight Pounds
\$8.00	11	1½	1½	2¼

"Perko" WING PUMPS

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

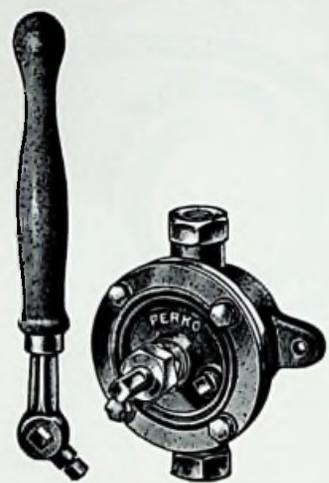


Fig. 681

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

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

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

GREAT CAPACITY—LIFT AND HEAD OVER 35 FEET
EFFORTLESS OPERATION—HARDWOOD HANDLE

No.	Each	Size Pipe Con- nection Inches	Overall Diam. of Body Inches	Capacity Per Minute Gallons	Weight Pounds
0	\$52.00	½	5⅞	5	11
1	60.00	¾	5¾	7	11
2	66.00	1	6⅝	9¼	15

Spare handles, complete, \$6.60 each. Wood handles \$1.10 each.



Brass BILGE PUMPS

DOUBLE ACTION—WITH BULKHEAD BRACKETS
 THREADED FOR 3/4 INCH PIPE



Fig. 345

Without Tail Pieces Each	With Tail Pieces Each	Length Overall Inches	Diam. Barrel Inches	Weight Pounds
\$17.25	\$19.25	21	1 1/4	3

Spare Parts, See Page 83.

Supplied with tail pieces if not otherwise specified.

CRANK CASE PUMP

DOUBLE ACTION—ALL BRASS



Fig. 146

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

Complete Each	Spare Intake Hose Each	Length Overall Inches	Length Intake Hose Inches	Diam. Pump Inches	Weight Pounds
\$11.25	\$3.50	17 1/2	12 1/2	1 1/8	2 1/2

NOTE—Above supplied with intake tube for 5/8 inch rubber hose instead of metal hose illustrated, specify Fig. 1029, \$10.00 each.

Improved CRANK CASE PUMP

SINGLE ACTION—ALL BRASS
 WITH BRONZE FLEXIBLE METAL HOSE
 OUTLET SPOUT AND NEOPRENE PLUNGER



Fig. 388

Outlet spout permits continuous operation. The new plunger has increased capacity with smoother operation.

Complete Each	Spare Intake Hose Each	Diam. Barrel Inches	Length Barrel Inches	Length Overall Inches	Weight Pounds
\$8.00	\$3.15	1 1/2	12	15 1/2	2

Spare Neoprene plungers, \$.35 each.

CRANK CASE PUMP

WITH FLEXIBLE METAL INTAKE HOSE
 SINGLE ACTION—STEEL OR BRASS

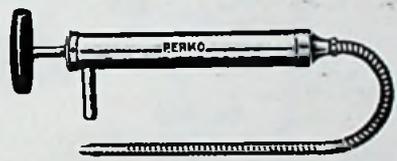


Fig. 336

Steel pump is painted red. Brass pump is in natural finish.

Flexible intake hose is 18 inches long, 1/2 inch outside diameter. Outlet spout is 2 1/8 inches long, 3/8 inches outside diameter.

Steel Each	Brass Each	Length Body Inches	Diam. Body Inches	Weight Pounds
\$4.00	\$6.20	11	1 1/2	1 1/2

CRANK CASE PUMP

FOR RUBBER HOSE OR TUBING
 SINGLE ACTION—STEEL OR BRASS

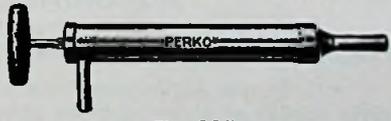


Fig. 335

Steel pump is painted red. Brass pump is in natural finish.

Inlet and outlet tubes will fit 3/8 inch rubber hose or tubing, so equipped, this pump may also be used as a bilge pump for small boats.

Steel Each	Brass Each	Length Body Inches	Diam. Body Inches	Weight Pounds
\$3.25	\$5.25	11	1 1/2	1 1/2



PERKO IMPROVED "FLEXO-SHAFT" ELECTRIC BILGE PUMPS

Patented

WITH FLEXIBLE PHOSPHOR BRONZE DRIVE SHAFT AND WATERPROOF CASING
 CASING HAS "TEMFLEX" PLASTIC COVERING TO INCREASE ITS STRENGTH
 ALL BRONZE EXCEPT MOTOR—BURNISHED FINISH.

The value of this pump arrangement is obvious at first sight.

Pass the shaft around corners, over or under bulkhead, ribs or any other obstructions and it operates.

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

Inlet is through base which has heavy gauge brass strainer. Outlet is illustrated and is for 1 inch rubber hose or 1/2 inch pipe.

CAPACITY—500 gallons per hour at 1 foot MAXIMUM HEAD—8 feet, with 3 foot shaft.
 MOTOR IS LOW AMPERAGE 1/40 H.P. at 2000 R.P.M.

WITH DIRECT DRIVE

WITH ANGLE DRIVE

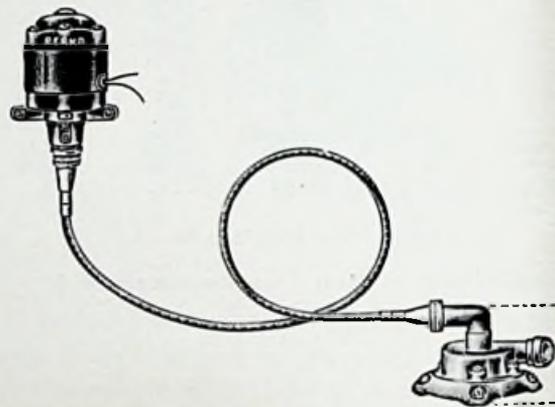
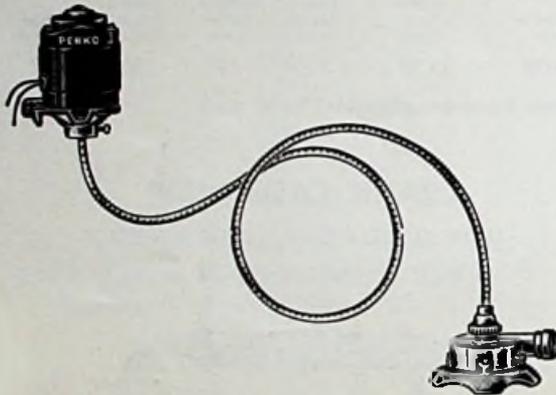


Fig. 666

Fig. 689

Height Pump Inches	Diam. Base Inches	Weight Pounds	110 D.C. Volts Each
4 1/4	4 5/8	7	
With 3 ft. shaft	\$44.50	\$44.50	\$51.50
With 6 ft. shaft	49.50	49.50	55.50
Motor only	9.00	9.00	20.00

Height at "A" Inches	Diam. Base Inches	Weight Pounds	110 D.C. Volts Each
3 3/8	4 3/8	7 1/2	
With 3 ft. shaft	\$51.00	\$51.00	\$58.00
With 6 ft. shaft	56.00	56.00	62.00
Motor only	9.00	9.00	20.00

CAPACITY WITH 4 FOOT HEAD—300 GALLONS PER HOUR
 CAPACITY WITH 8 FOOT HEAD—120 GALLONS PER HOUR

SPARE PARTS

3 Foot shafts only	\$10.50 Each	Fig. 689 Mitre Gears with shaft	\$4.00 Per Pair
6 Foot shafts only	14.50 Each	Fig. 689 Angle Elbow Less Gears	3.30 Each
Fig. 666 Complete Pump Unit only	13.50 Each	Motor Bulkhead Bracket only	3.75 Each
Fig. 689 Complete Pump Unit only	18.00 Each	NOTE—See page 90 for "Pipe to Hose" couplings	permits attaching 3/8 inch hose to above pumps.
Impeller only	1.50 Each		

AUTOMATIC SWITCH FOR BILGE PUMPS

PRESSURE OPERATED DIAPHRAGM TYPE—FOR NON-AUTOMATIC BILGE PUMPS
 CAST BRONZE—WITH SYNTHETIC RUBBER DIAPHRAGM—HEAVY DUTY MECHANICAL SWITCH

For All Voltages From 6 to 110

This device consists of a very sensitive switch in contact with a diaphragm of oil and grease resistant material. The wires are led through a neoprene hose above any normal water level.

This switch will start the pump operating when the motor reaches the top of the switch or 2 1/4 inches. It will turn off again when the water reaches a depth of 1 inch but by connecting 1/4 inch tubing to the 1/2 inch pipe tapped end of switch and into the discharge line of the pump the pressure in the pump discharge line will continue to operate the switch until the pump sucks air.



Fig. 662

Burnished Complete Each	Spare Switch Each	Spare Diaphragm Each	Height Inches	Diam. Base Inches	Weight Pounds
\$15.00	\$2.50	\$1.00	2 1/4	4 1/4	2



PERKO IMPROVED "FLEXO-SHAFT" AUTOMATIC ELECTRIC BILGE PUMPS

Patented

FLEXIBLE PHOSPHOR BRONZE DRIVE SHAFT AND WATERPROOF CASING
 CASING HAS "TEMFLEX" PLASTIC COVERING TO INCREASE ITS STRENGTH
 PRESSURE OPERATED DIAPHRAGM TYPE AUTOMATIC SWITCH—THREE WAY DASHBOARD SWITCH
 ALL BRONZE EXCEPT MOTOR—6-12 AND 110 VOLTS—BURNISHED FINISH
 WATERTIGHT—OPERATES WITH PUMP AND SWITCH HOUSING SUBMERGED

FEATURES—See write up on Figs. 666 and 689 (opposite page) for installation and other features.

BREATHER TUBE—Is heavy flexible "Koroseal," 18 inches long with 1/8 inch wall.

THREE WAY DASHBOARD SWITCH—Is indicated "Off," "Automatic" and "Non-automatic" and permits remote control accordingly.

ADJUSTABLE BUSHING—For adjustment of tension on driveshaft to assure full R.P.M. of pump impeller.

AUTOMATIC SWITCH—Starts pump operating when bilge water reaches a depth of about 1 1/2 inches and will "Shut off" at a depth of about 3/4 inch.

CAPACITY—500 gallons per hour at 1 foot head—300 gallons at 4 feet—120 gallons at 8 feet. Maximum head 8 feet with 3 foot shaft.

MOTOR—Low amperage 1/40 H.P. at 2000 R.P.M.

WITH DIRECT DRIVE

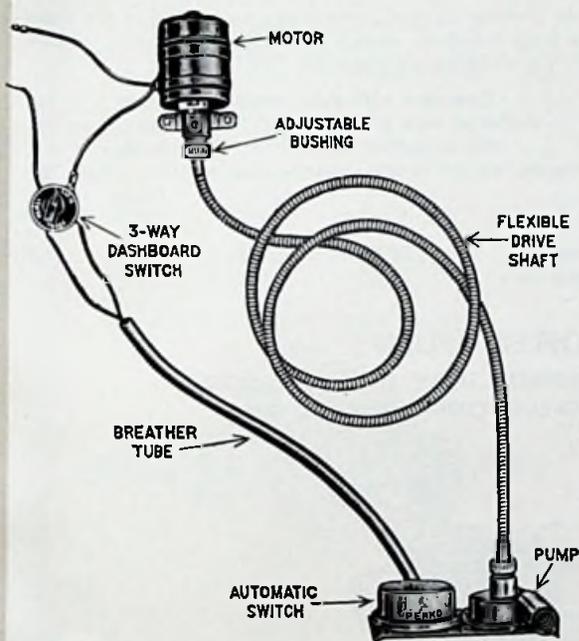


Fig. 742

WITH ANGLE DRIVE

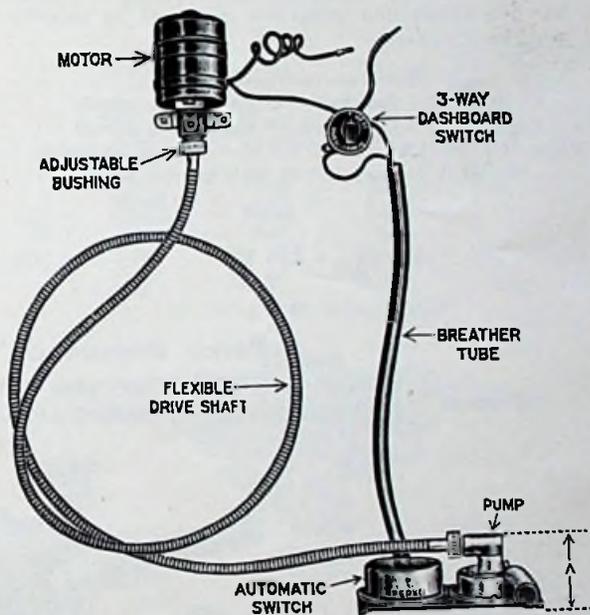


Fig. 743

	Fig. 742			Fig. 743			Fig. 742	Fig. 743	Size	Weight
	6 Volt Each	12 Volt Each	110 D.C. Volts Each	6 Volt Each	12 Volt Each	110 D.C. Volts Each	Height Pump Inches	Height at "A" Inches	Base Inches	Pounds
With 3 foot shaft	\$63.50	\$63.50	\$71.00	\$70.00	\$70.00	\$77.50	2 1/2	2 3/4	7x4	8
With 6 foot shaft	67.50	67.50	75.00	74.00	74.00	81.50	2 1/2	2 3/4	7x4	8

Spare pump unit, complete except motor and shaft, Fig. 742, \$28.50 each, Fig. 743, \$33.00 each.

Spare 3 way dashboard switches, \$2.50 each.

Other spare parts, see page 86.

Perko "Flexo-Shaft" WATER SYSTEM PUMP

WITH PIPE INLET AND OUTLET—1/2 INCH
 CAST BRONZE—BURNISHED FINISH

Supplied complete with Flexible Drive Shaft and Motor per Fig. 666 Page 86.
 See Page 90 for diagram of installation. Capacity same as Fig. 666.

	6 Volt Each	12 Volt Each	110 D.C. Volts Each	Height Pump Inches	Weight Pump only Pounds
With 3 foot shaft	\$44.50	\$44.50	\$51.50	3 1/4	2
With 6 foot shaft	49.50	49.50	55.50	3 1/4	2

Pump only as illustrated, no shaft or motor, \$13.50 each.

NOTE—This pump does not have the ability to lift water from below the pump level, therefore, it is not intended for use as a bilge pump.

See Page 90 for "Pipe to Hose" coupling, for attaching hose to above pumps.

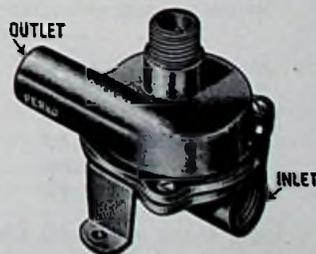


Fig. 748



"Junior" Electric BILGE PUMP

NON-AUTOMATIC—6 OR 12 VOLTS
ALL BRASS EXCEPT MOTOR
BAKED GRAY FINISH



Fig. 780

The result of a determined effort to produce a good practical electric bilge pump of high capacity at a price as low as possible and within the means of the majority of small boat owners.

Maximum head—7 feet
Capacity at 1 foot head—7 gallons per minute
Capacity at 4 foot head—4 gallons per minute
Motor is 1/40 H.P. at 2000 R.P.M.—8 amps. at 6 volts
Outlet is for regular 5/8 inch garden hose

	6 Volt Each	12 Volt Each	Height Overall Inches	Weight Pounds
Complete	\$24.50	\$24.50	8½	2½
Motor only	9.00	9.00		

BAIT TANK or WATER SYSTEM PUMP

ELECTRIC—6 OR 12 VOLTS
ALL BRASS EXCEPT MOTOR
BAKED GRAY FINISH



Fig. 781

When installed at or below the water line this pump is ideal for keeping the bait tank supplied with constant water changes.

As a water system pump it can be placed in the supply line from the fresh water tank to sink, lavatory, shower, etc., per diagram on page 90.

Complete with side mounting bracket
Outlet on side for regular 5/8 inch garden hose
Inlet in bottom tapped for 1/2 inch pipe
Information on head, capacity and motor see Fig. 781

	6 Volt Each	12 Volt Each	Height Overall Inches	Weight Pounds
Complete	\$25.00	\$25.00	8½	
Motor only	9.00	9.00		

Perko Improved "ROTOFLEX" PUMPS

SYNTHETIC NEOPRENE COMPOUND ROTOR—NEOPRENE U-CUP SEALS—LEAKPROOF
ALL BRONZE BODY—MONEL SHAFT—BRASS GREASE CUPS—BURNISHED FINISH

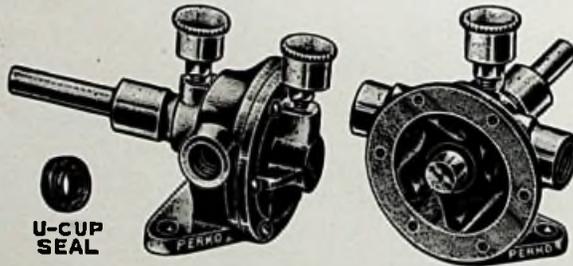


Fig. 696

Quiet operation—long continuous service—large capacity at low speed—for use with salt water, oil and other liquids—self priming—will pump in either direction.

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

The use of U-cup seals eliminates packing and packing glands.
Lift in feet, 25 to 30. Head in feet, 30 to 40.

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

No.	Each	Spare Rotors Each	Size Pipe Connection Inches	Diam. Shaft Inches	Extreme Height Inches	Extreme Width Inches	Extreme Length Inches	Dimensions Base Inches	Capacity G.P.M.			Weight Pounds
									600 R.P.M.	*1000 R.P.M.	1500 R.P.M.	
2	\$16.00	\$1.65	3/8	1/2	3½	3½	6¼	3 x 1¾	4.1	4.9	6.4	2
3	21.00	2.40	1/2	5/8	3¾	4	6¼	3½ x 2¼	7.1	8.5	11.0	3
4	25.50	2.85	3/4	¾	4	4½	8¾	4 x 3	13.0	16.5	22.0	5
5	30.50	2.85	1	¾	4	5	8¾	4½ x 3	15.7	19.2	26.0	6
6	56.75	6.50	1¼	¾	5	7¼	9½	5½ x 3½	19.5	33.5	48.0	14

Spare U-cup seals with brass retainer—\$.60 each. Specify size of shaft.

*Recommended maximum for continuous duty. Capacity shown based on 0 lbs. pressure. With special length of shaft price on application. Motor recommended ¼ to ½ H.P. for sizes No. 2-3-4-5 and up to ¾ H.P. for size No. 6.



"PERKO" BRONZE GEAR TYPE PUMPS

SIZES NO. 3 AND 4 HAVE DROP FORGED BRONZE BODIES

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

SINGLE LOWER DRIVE SHAFT

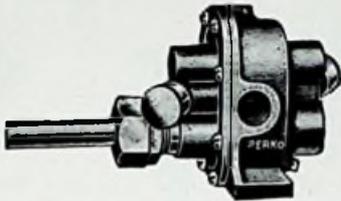


Fig. 684

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$20.75	\$21.50	1/4	1/2	3 3/4
3	23.75	....	3/8	3/8	5 1/2
4	25.75	....	1/2	3/4	6
7	33.25	....	3/4	3/4	9
9	34.75	35.50	1	3/4	9 1/2

SINGLE UPPER DRIVE SHAFT

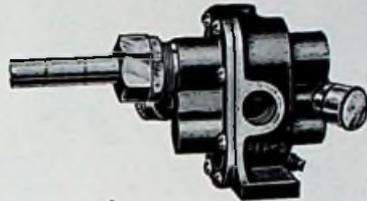


Fig. 682

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$20.75	\$21.50	1/4	1/2	3 3/4
3	23.75	24.50	3/8	3/8	5 1/2
4	25.75	....	1/2	3/4	6
7	33.25	34.00	3/4	3/4	9
9	34.75	35.50	1	3/4	9 1/2

DOUBLE LOWER DRIVE SHAFT



Fig. 685

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$24.50	\$25.25	1/4	1/2	4 1/2
3	28.25	....	3/8	3/8	6 1/4
4	30.00	....	1/2	3/4	6 1/4
7	38.50	39.25	3/4	3/4	9 1/2
9	41.00	41.75	1	3/4	9 1/2

DOUBLE UPPER DRIVE SHAFT

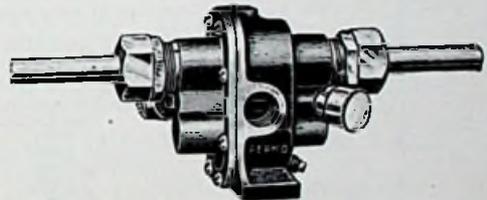


Fig. 683

Pump No.	With Spur Gears Each	With Herringbone Gears Each	Size Pipe Connection Inches	Size Drive Shaft Inches	Approximate Weight Each Pounds
2	\$24.50	\$25.25	1/4	1/2	4 1/2
3	28.25	....	3/8	3/8	6 1/4
4	30.00	....	1/2	3/4	6 1/4
7	38.50	39.25	3/4	3/4	9 1/2
9	41.00	41.75	1	3/4	9 1/2

NOTE—Figs. 682 and 684 in all sizes except 1 inch are reversible. That is, any person, dealer, user, etc., can change a lower shaft pump to "upper shaft" or vice versa in a few minutes.

NOTE—Don't fail to state figure and pump number desired. When ordering pump with herringbone gears be sure to specify direction of rotation, clockwise or counter-clockwise.

CAUTION—When above pumps are operated by belt and pulley be sure to use intermediate bearing on shaft.

GEAR PUMP PARTS

Pump No.	Spur Gears Each	Herringbone Gears Each	Drive Shaft Each	Idle Shaft Each
2	\$3.00	\$3.25	\$2.50	\$1.75
3	3.00	3.25	3.00	2.25
4	3.75	....	3.00	2.25
7	5.75	6.00	3.00	2.25
9	6.50	6.75	3.00	2.25

CAPACITY TABLES FOR GEAR PUMPS AT 1725 R.P.M. PRESSURE AND GALLONS PER MINUTE

Pump No.	2 Lbs.		20 Lbs.		40 Lbs.		60 Lbs.		80 Lbs.	
	Lbs.	H.P.	Lbs.	H.P.	Lbs.	H.P.	Lbs.	H.P.	Lbs.	H.P.
2	4.0	1/4	3.7	1/4	3.5	1/2	3.4	1/2	3.2	1/2
3	7.5	1/2	7.0	1/2	6.5	3/4	6.5	1	6.3	1
4	10.5	3/4	10.0	3/4	9.5	1	9.1	1	8.5	1 1/2
7	19.5	1 1/2	19.0	1	18.5	1 1/2	18.5	2	18.5	2
9	23.5	2	23.0	1 1/2	22.5	2	22.0	2	21.5	3



"Perko" Electric WATER FAUCETS

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

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

Connect one or several of the faucets to our Figure 748 electric pump. (See below for suggested installation.) Water then supplied to your sink or lavatory as easily as in your home. All connections are threaded for 1/2 inch pipe.

WITH HAND SWITCH

SELF CLOSING TYPE

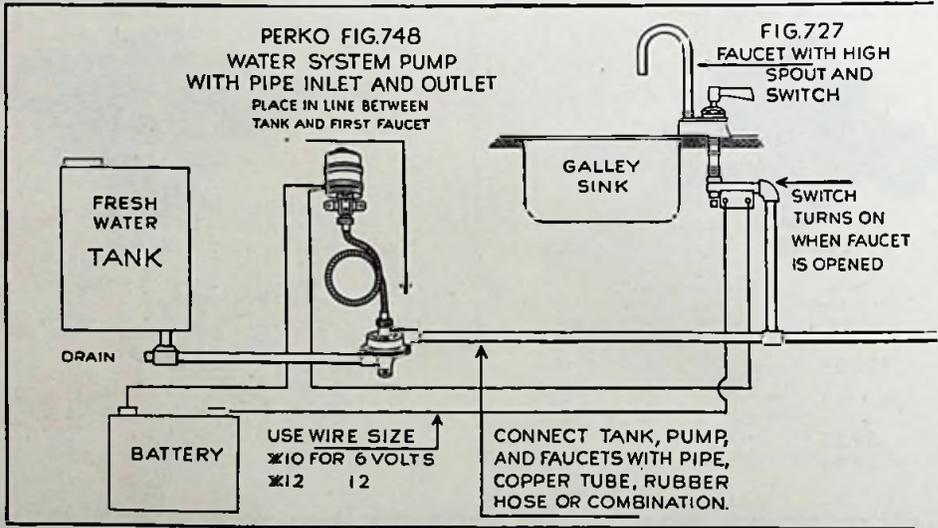


High Spout
Fig. 727

Low Spout
Fig. 728

Fig. 740

Fig.	Chromium Plated Each	Height Above Drain Board Inches	Length Below Drain Board Inches	Weight Pounds	Chromium Plated Each	Ht. Above Drain Board Inches	Spout Projection Inches	Weight Pounds
727	\$30.00	8 1/4	5 1/2	2 1/2	\$19.50	3 3/8	2 3/8	2 1/2
728	29.50	3 3/8	5 1/2	2 1/4				



Bronze Utility CHECK VALVE

WITH BRASS BALL CHECK AND STRAINER



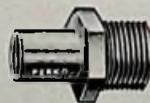
Fig. 265

Ideal for holding prime in the inlet line of galley and lavatory pumps, bilge pumps, etc. Threaded both ends.

Each	Pipe Size Inches	Length Inches	Weight Ounces
\$1.90	1/2	1 1/8	3 1/2

Brass "Pipe To Hose" COUPLINGS

1/2" PIPE TO 3/8" HOSE



Male Pipe Thread
Fig. 210



Female Pipe Thread
Fig. 212

Each	Length Overall Inches	Length Hose Couplings Inches	Weight Ounces
\$1.15	1 1/2	3/4	2 1/4



Improved Galley and Lavatory PUMPS
BRONZE—CHROMIUM PLATED.



Fig. 467
Metal Handle

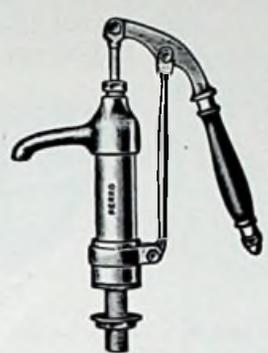


Fig. 473
Mahogany Handle



Fig. 144



Fig. 1040

IMPROVED INLET VALVE TO HOLD PRIME
WITH LEAKPROOF NEOPRENE U-CUP SEALS

Fig.	Diam. Barrel Inches	Length Barrel Inches	Length Neck Inches	Threaded For Pipe Inches	Weight Pounds
467	1½	6½	2½	½	3½
473	1½	6	2½	½	3½

Fig.	Chromium Plated Each	Chromium Plated Handle Only Each	Mahogany Grip Only Each
467	\$26.50	\$4.00	
473	27.75	5.00	\$.95

Repair Kit, each \$3.00.

FLARED FLANGE — NEOPRENE PLUNGER
IMPROVED VALVE TO HOLD PRIME

Length of stroke is 5¼ inches.
Inlet is threaded for ¾ inch pipe.

Fig.	Diam. Barrel Inches	Length Overall Inches	Projection Spout Inches	Height Spout Inches	Weight Pounds
144	1½	13½	3	0	3
1040	1½	14½	4½	3	3½

Fig.	Exposed Parts Only Chromium Plated Each	Repair Kits Each
144	\$20.00	\$2.50
1040	21.00	2.50

ANGLE TYPE
DOUBLE ACTION—SWIVEL SPOUT
EFFORTLESS OPERATION



Fig. 677

Angle toward user when installed permits easy effortless operation.

- Spout swivels to various positions.
- Bottom valve is an improved type to hold prime.
- Capacity, 10 strokes per quart.

Chromium Plated Each	Inlet Pipe Size Inches	Spout Projection Inches	Height Flange to Spout Inches	Weight Pounds
\$18.00	¾	4	4¼	2½

Repair Kit, each \$2.00.

"EZY-FLO"
ALL BRASS—CHROMIUM PLATED

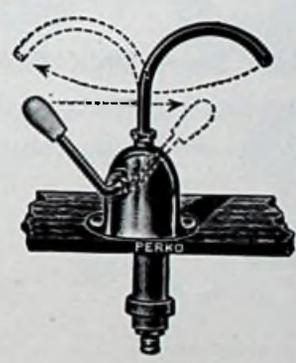


Fig. 177

Finger tip control, easy operation, self priming.
Handle operates with short rocking strokes so effortless a child can work it.

- Spout swivels to any direction desired.
- Inlet fits ¾" rubber hose or ¾" pipe.
- Capacity—20 strokes per quart.

Each	Extreme Height Above Drain Board Inches	Dimensions Mounting Base Inches	Weight Pounds
\$22.00	8	4x1¾	2½

Repair Kit, each \$3.60.



Stainless Steel SINKS

DEEP DRAWN, SEAMLESS CONSTRUCTION
19 GAUGE 18-8—NATURAL FINISH



Fig. 356

Corrosion resistant and immune to rust.
No crevices for dirt or bacteria to collect.
No painted or coated surface to crack or wear off.
Bottom is heavily undercoated for sound deadening.
Packed in individual cartons.

No.	Each	Size Inside Inches	Size Outside Inches	Depth Inside Inches	Weight Pounds
1	\$22.50	9 $\frac{1}{2}$ x13 $\frac{3}{4}$	11 $\frac{1}{2}$ x15 $\frac{1}{2}$	5	4
2	27.00	11 $\frac{1}{2}$ x16 $\frac{3}{4}$	13 $\frac{1}{2}$ x18 $\frac{3}{4}$	6	6 $\frac{1}{2}$
3	35.00	11 $\frac{1}{2}$ x19 $\frac{3}{4}$	13 $\frac{1}{2}$ x21 $\frac{3}{4}$	7	7 $\frac{1}{2}$
4	57.00	16 x20	18 x22	8 $\frac{1}{2}$	9 $\frac{1}{2}$

Drain fittings for above, see fig. 357.

Stainless Steel SINK FRAMES

FOR FLUSH INSTALLATION—SELF SEALING
EASILY INSTALLED—NO SPECIAL TOOLS REQUIRED

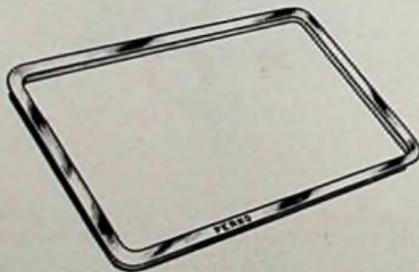


Fig. 347

Complete with mounting lugs, bolts and corner brackets.

No.	Each	For Sink Outside Dimensions Inches
1	\$8.75	11 $\frac{1}{2}$ x15 $\frac{3}{4}$
2	8.75	13 $\frac{1}{2}$ x18 $\frac{3}{4}$
3	8.75	13 $\frac{1}{2}$ x21 $\frac{3}{4}$
4	9.75	18 x22

Stainless Steel SINKS

ROUND
DEEP DRAWN SEAMLESS CONSTRUCTION
20 GAUGE 18-8 NATURAL FINISH



Fig. 271

Bottom is heavily undercoated for sound deadening.
Packed in individual cartons.

No.	Each	Diameter Inside Inches	Diameter Outside Inches	Depth Inside Inches	Weight Pounds
6	\$14.50	10 $\frac{3}{4}$	12 $\frac{3}{4}$	5	4

Drain fitting for above, see fig. 586.

Pressed Steel SINK

WHITE PORCELAIN ENAMELED
FLAT RIM



Fig. 402

Packed in individual cartons.

Sink Only Each	Size Inside Inches	Size Outside Inches	Depth Inches	Weight Pounds
\$9.50	10 $\frac{1}{2}$ x16	12 $\frac{3}{4}$ x18	4 $\frac{1}{2}$	4

Drain fitting for above, see fig. 586.

DRAIN FITTINGS

WITH TAIL PIECE FOR HOSE



Fig. 357



Fig. 586

Fig.	Each	Opening In Sink Inches	Diameter Tail Piece Inches	Weight Pounds
357	\$5.25	3 $\frac{1}{2}$	1 $\frac{1}{2}$	2C
586	2.50	2	1 $\frac{1}{2}$	10

Fig. 357 is stainless steel and for sink fig. 356.
Fig. 586 is brass, chromium plated and is for sink figs. 271 and 402.



LAVATORIES

WHITE VITREOUS CHINA LAVATORIES WITH INTEGRAL BACK AND ROUND BASIN WITH OVERFLOW.



Fig. 830
Corner Type



Fig. 831
Flat Back



Fig. 832
Flat Back

Fitted with chromium plated waste plug, chainstay, chain, stopper and tail piece.

Fig.	No.	Without Pump or Faucet Each	With Faucet Each	Lavatory Size Inches	Diameter Basin Inches	Diameter Outlet Inches	Diameter Pump Inlet Inches	Height Back Inches
830	1	\$35.00	\$43.50	12x12	10	1 1/4	1/2	2 1/2
	2	44.75	54.25	14x14	11	1 1/4	1/2	2 1/2
831		30.00	39.50	12x12	10	1 1/4	1/2	2 1/2
832		35.00	44.50	14x14	11	1 1/4	1/2	2 1/2

NOTE: Pumps for above, see Figs. 144-467-473-1040. Faucets are Chromium plated bronze, marked "Hot" or "Cold", please specify. All above furnished without pump or faucet unless otherwise specified.

LUCITE LAVATORIES

CHIP PROOF—HEAT RESISTANT—RESILIENT
LIGHTWEIGHT—IMPERVIOUS TO RUST
LUSTROUS WHITE



Fig. 823



Fig. 825

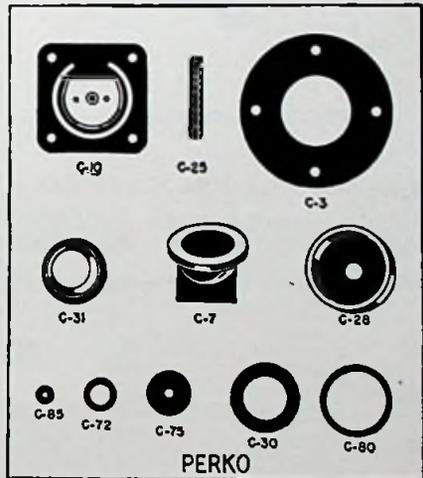
These sturdy basins have all the appearance of fine vitreous china and will perform all the functions of same while providing light weight and lower cost.

Will accommodate regular faucets or our various lavatory pumps.

Supplied complete with 1 1/4 inch tail piece for outlet.

Fig.	Each	Size Inches	Size Basin Inches	Height Back Inches	Weight Pounds
823	\$18.00	14 x 15 1/4	12 x 9	1 3/4	1 3/4
825	18.00	14 1/4 x 12 1/4	12 1/2 x 7 1/2	1 3/8	2

TOILET REPAIR PARTS AND KITS



PERKO
Fig. 909

White Seat and Cover complete	Each \$8.75
White Vitreous Bowl only	Each 20.00
Flush Tube (Rubber Hose)	Each 1.50

REPAIR KITS

Repair Kits complete, consisting of the following parts and quantity in each kit Each \$7.50

Part No.	Each	Description	Quantity Per Closet
C-3	\$.90	Bowl Flange Gasket	1
C-7	1.30	Neoprene Joker Valve	1
C-10	1.00	Neoprene Check Valve	1
C-25	.20	Flax Piston Rod Packing	2
C-28	.60	Cup Leathers for Piston	2
C-30	.10	Bowl Spud Friction Washer	2
C-31	.10	Bowl Spud Washer	2
C-72	.10	Inlet Spud Gasket	1
C-75	.15	Inlet Coupling Washer	1
C-80	.10	Inlet Valve Seat Rubber	1
C-85	.30	Cap Nut Washer	2
C-86	.02	U-Cup Seal for Supply Valve	1
		Brass Cotter Pins 1/4x1	6

"PERKO" IMPROVED MARINE CLOSETS

FOR ABOVE OR BELOW WATERLINE
 WHITE VITREOUS CHINA BOWLS—ALL BRONZE PUMPS AND FITTINGS, WHITE FINISH
 ALL WHITE SEATS AND COVERS WITH BRASS CHROMIUM PLATED HINGES
 WITH NEOPRENE "JOKER" BACKWATER CHECK VALVE

BOWL is of rim flushing type with thru-way integral boss on back for positive and watertight connection to supply pipe.

PUMP for supply and discharge is 2½ inches with double action cup leather piston. Length of stroke is 2 inches.

VALVES, waste valve contains Neoprene Clack Washers. The combination supply and check valve has thick Neoprene washer. A Neoprene "Joker" Backwater Check Valve is in the discharge tail piece.

WASTE ARM has ½ inch pipe size clean out opening in both ends ample to allow cleaning out of foreign matter quickly draining when hauling out.

OUTLET is 1½ inches I. P. S. with tail piece for lead pipe or hose connection.

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

"Boatman"

With Hand Operated Supply Valve

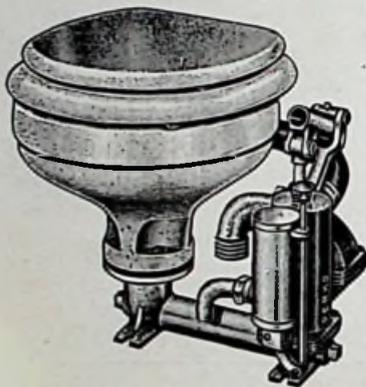


Fig. 828-C



Horizontal Handle



Vertical Handle

"Yachtsman"

With Foot Operated Supply Valve

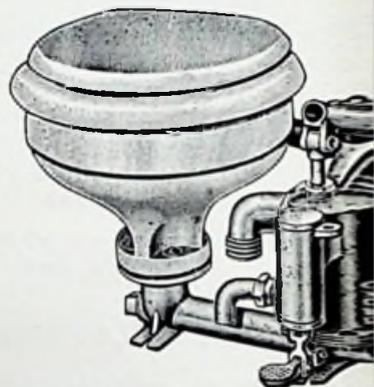


Fig. 829-C

Overall Width Side to Side Inches	Overall Depth Front to Back Inches	Overall Height Inches	Overall Size Base Inches	Weight Pounds
17	16	13¼	10¼x4¾	47

Fig. 828-C-H with Horizontal Handle Each \$114.00
 Fig. 828-C-V with Vertical Handle Each 115.00

Fig. 829-C-H with Horizontal Handle Each \$114.00
 Fig. 829-C-V with Vertical Handle Each 115.00

Furnished with pump on right or left side. Right hand facing supplied unless otherwise specified.

New "Little John"

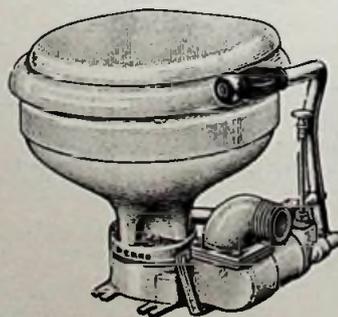


Fig. 833

This compact little closet was designed primarily for small boats where space is limited. The specifications above except for the "Joker" valve which is not necessary, valves are neoprene clack type.

Each	Overall Width Side to Side Inches	Overall Depth Front to Back Inches	Overall Height Inches	Overall Size Base Inches	Weight Pounds
\$96.00	16	16	13¼	9x5	36



Bronze SEA COCKS

WITH DRAIN PLUGS—ROUND WAY
REMOVABLE HANDLE



Fig. 834



Fig. 835

Size Inches	With Fig. 86 Strainer Add Each			Without Hull Connection Deduct Each	
	Fig. 834 Each	Fig. 835 Each	\$	Size Strainer Inches	\$
3/4	\$15.80	\$15.45	.95	3 1/2	\$1.80
1	21.10	20.30	.95	3 1/2	2.40
1 1/4	26.20	25.50	1.25	4 1/4	3.50
1 1/2	30.10	29.50	2.00	5	4.30
2	51.00	50.10	2.40	6	6.50
2 1/2		72.00	5.25	8	7.80

Bronze TAIL PIECES

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



Fig. 67 Straight

Fig. 78,

90 Degree

I. P. S. Size Inches	O. D. Tail Piece Inches	Fig. 67 Each	Fig. 78 Each
1/4	3/8	\$.70	
3/8	1/2	.70	
1/2	1/2	.90	
3/4	3/4	1.10	1.45
1	1	1.45	2.25
1 1/4	1 1/4	1.90	2.60
1 1/2	1 1/2	2.40	3.00
2	2	3.50	4.40
2 1/2	2 1/2	7.00	

Thru-Hull CONNECTIONS

CAST BRONZE—BURNISHED
WITH AND WITHOUT TAIL PIECE



Fig. 64

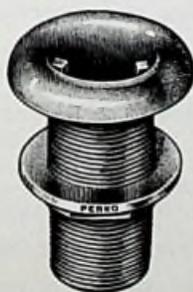


Fig. 322

Size Pipe Inches	Fig. 64 Each	Fig. 322 Each	Length Neck Inches	O.D. Tail Piece Inches	Diam. Flange Inches	Wt. Fig. 64 Lbs.	Wt. Fig. 322 Lbs.
3/8	\$2.35	\$1.65	2 1/2	1 1/2	1 1/2	3/4	1/4
1/2	2.70	1.80	2 1/2	1 1/2	1 1/2	1/2	3/8
3/4	3.40	2.30	2 1/2	3/4	2	3/4	1/2
1	4.45	3.00	2 1/2	1	2 1/4	1	3/4
1 1/4	6.40	4.50	3 1/2	1 1/4	2 1/2	1 1/4	1 1/2
1 1/2	7.90	5.50	3 1/4	1 1/2	3	2 1/2	1 3/4
2	11.65	8.15	4	2	3 1/2	3	1 3/4
2 1/2		13.30	4		4 1/2	5	2 1/4

Water OUTLETS

CAST BRONZE



Fig. 332

No.	Size Pipe Inches	Diam. Flange Inches	Length of Pipe Inches	Weight
1	3/4	2 3/4	2 1/4	12 oz.
2	1	3	3 1/4	1 lb.
No.	Burnished Bronze Each		Polished Bronze Each	
1	\$4.00		\$5.00	
2	4.50		6.00	
			Chromium Plated Each	
			\$5.50	
			6.50	

Speedboat STRAINERS

CAST BRONZE—BURNISHED



Fig. 65

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

Size Pipe Inches	Each	Length Pipe Inches	Size Strainer Inches	Weight Pounds
1/2	\$2.95	2 1/2	2 1/2 x 3 1/2	3/8
3/4	3.60	2 1/2	3 x 4	3/8
1	4.40	3	3 1/2 x 4 1/2	1 1/8
1 1/4	6.25	3 1/2	3 3/8 x 4 1/2	1 3/4
1 1/2	7.50	3 3/8	3 1/2 x 5	2

Scoop STRAINERS

CAST BRONZE—BURNISHED



Fig. 66

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

No.	Each	Outside Dimension Inches	Weight Each
1	\$.80	3 1/2 x 2 1/2	4 oz.
2	1.20	5 x 3 1/4	7 oz.
3	2.20	6 1/4 x 4 1/4	1 lb.
4	4.10	8 1/4 x 5 1/4	2 lbs.

Round STRAINERS

CAST BRONZE—BURNISHED



Fig. 86

Outside Diam. Inches	Each	Inside Diam. Inches	Weight Each
2 1/2	\$.60	1 3/4	2 oz.
3	.70	2	4 oz.
3 1/2	.95	2 3/8	5 oz.
4 1/4	1.25	3	6 oz.
5	2.00	3 3/4	12 oz.
6	2.40	4 1/2	1 lb.
8	5.25	6	2 lbs.
10	8.00	8 1/4	3 lbs.

IMPROVED "AIR SCOOP" CABIN WINDOWS

WITH SPIGOT — FINISHING FRAME — BUILT-IN SCREEN

CAST BRONZE OR CAST ALUMINUM

HINGED PLEXIGLAS WINDOW, RUBBER GASKETED, WATERTIGHT

Patent Pending

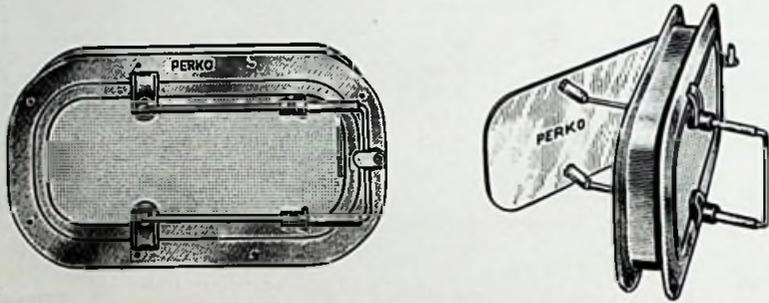


Fig. 843

A new idea in marine windows but a proven principle for gathering in every possible cup full of air as any owner of a modern automobile will agree.

The answer to a galley slave's prayer.

Eliminates the need for old fashioned unsightly wind scoops.

Eliminates the heavy hinged door, the tightening and loosening of large wing nuts, the check hooks etc. necessary to keep the window open.

The window handle serves two purposes, to open or close the window and to hold the window at the desired opening for a little or lot of ventilation.

The handle is held in closed position by a turn latch. The simple method of operating is clearly shown in the above illustration. The window, when closed against the soft rubber gasket, is watertight. The rubber corks visible on the handle are used to close opening in screen when window is open.

The screen is permanently built in and does not interfere with opening or closing the window.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Without Finishing Frame Deduct		Outside Dimensions of Frame Inches	Length Spigot Inches	Thickness Glass Inches	Bronze Weight Pounds	Alum. Weight Pounds
				Bronze Each	Aluminum Each					
1	5x12	\$32.00	\$23.00	\$2.80	\$1.60	8x15	2	3/16	12	4 1/2
2	7x16	47.50	33.00	3.70	2.10	10x19	2	3/16	15 1/2	5 1/2



Round PORTLIGHTS

CAST BRONZE

GLASS AREA IS SAME DIAMETER AS OPENING

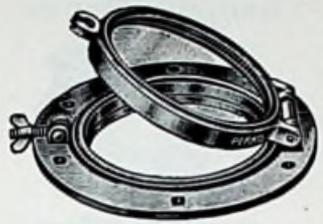


Fig. 317

Diam. Opening Inches	Plain Bronze Each	Diam. Clear Glass Inches	Outside Diam. Frame Inches	Thickness Glass Inches	Weight Pounds
4	\$10.00	4	7 ³ / ₈	1/4	2 ³ / ₄
5	12.50	5	8 ³ / ₄	1/4	4 ³ / ₈
6	14.50	6	9 ³ / ₄	1/4	5 ⁵ / ₈
7	20.50	7	10 ³ / ₄	3/8	8
8	23.25	8	12 ¹ / ₄	3/8	9 ⁷ / ₈
10	44.00	10	15 ³ / ₈	1/2	19 ¹ / ₂
12	66.00	12	17 ¹ / ₈	1/2	24

All sizes except 12 inch have Removable Hinge Pin.
 10 inch has Two Fastenings.
 12 inch has Three Fastenings.

DECK LIGHTS

CAST BRONZE—FOR WOOD DECKS



Fig. 838

Diameter Clear Glass Inches	Plain Bronze Each	Polished Bronze Each	Thickness Glass Inches	Outside Diam. Frame Inches	Weight Pounds
3 1/2	\$ 5.00	\$ 8.50	1/4	5 1/4	1 1/4
4	5.25	8.75	1/4	6 1/2	2
5	7.75	11.75	3/8	7 1/2	3 3/8
6	10.50	15.00	3/8	8 1/2	3 3/8
8	18.00	23.00	1/2	11	7 1/4

More-Air PORTLIGHTS

INSIDE PATTERN—FOR WOOD HULLS

CAST BRONZE—PLAIN

COMPLETE WITH OUTSIDE FINISHING RING

GLASS AREA IS SAME DIAMETER AS OPENING

ALL SIZES ARE GROOVED FOR SCREENS

WITH REMOVABLE HINGE PIN

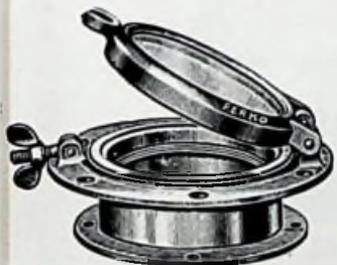
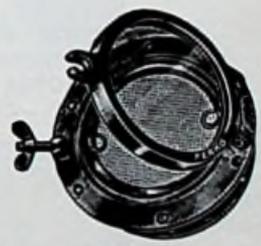


Fig. 157

Showing Screen in Place



Opening Inches	For Thickness of Wood		Outside Diameter Frame Inches	Thickness Glass Inches	Weight 1 1/2 Inch Spigot In Pounds
	1 1/2 Inch Plain Bronze Each	3 Inch Plain Bronze Each			
4	\$10.75	\$12.00	6 3/8	1/4	4 1/2
5	13.20	14.50	7 1/4	1/4	6
6	15.50	17.40	8 3/8	1/4	7 1/4
7	22.50	24.25	10 1/4	3/8	11
8	25.25	27.50	11 1/2	3/8	14 1/2
9	33.20		13 1/4	1/2	18 1/2
10	44.50	49.50	14 1/4	1/2	20
12	56.00		17	1/2	32 1/2

For 1 inch wood, use 1 1/2 inch price. For 2 or 2 1/2 inch wood use 3 inch price, etc.

10 and 12 inch sizes have two fastenings.

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
\$.90	\$1.10	\$1.40	\$2.30	\$3.20	\$3.90	\$4.60	\$6.10

NOTE—Screens for all portlights above see Fig. 442.

Stock size is for 1 1/2 inch wood, other sizes made to order only.



**Marine WINDOWS
WITH SPIGOT
PLAIN BRONZE OR ALUMINUM
WATERTIGHT—TWO FASTENINGS**



Fig. 796

Furnished complete with removable screen and outside finishing frame.

Designed to supply the maximum amount of air and light possible while keeping bulk and weight to a minimum.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Without Finishing Frame Deduct	
				Bronze Each	Aluminum Each
1	5x12	\$30.00	\$26.00	\$2.25	\$1.65
2	7x16	41.00	31.50	2.80	2.15

No.	Dimensions Outside of Frame Inches	Length Spigot Inches	Thickness Glass Inches	Bronze Weight Pounds	Aluminum Weight Pounds
2	10 x 19 1/4	2	1/4	22	10

**Marine WINDOWS
WITHOUT SPIGOT
PLAIN BRONZE OR ALUMINUM
WATERTIGHT—TWO FASTENINGS**

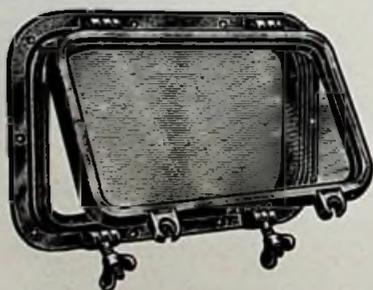


Fig. 803

Furnished complete with removable screen. Without finishing frame.

No.	Size of Opening Inches	Plain Bronze Each	Plain Aluminum Each	Bronze Weight Pounds	Aluminum Weight Pounds
3	5x12	\$26.00	\$22.00	11 1/2	5
4	7x16	33.00	26.00	16	7

SPECIAL FINISHING FRAMES FOR FIG. 803

3	5x12	\$ 5.00	\$ 4.50	2 1/2	1
4	7x16	6.25	5.75	3 1/2	1 1/2

NOTE—These Special Finishing Frames have mounting holes drilled to line up with those in window frame.

For other dimensions, see Fig. 796 above.

NOTE—Spare Screens for Figs. 796 and 803, size 5x12 inches—\$5.50 each. Size 7x16 inches—\$6.25 each.

**Oval Inside PORTLIGHTS
PLAIN BRONZE OR ALUMINUM
WITH OUTSIDE FINISHING RING AND
REMOVABLE HINGE PIN**

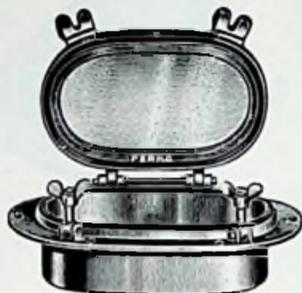


Fig. 897

Size of Opening Inches	Bronze		Aluminum	
	For Wood Thickness 1 1/2 Inches	For Wood Thickness 2 Inches	For Wood Thickness 1 1/2 Inches	For Wood Thickness 2 Inches
4x7	\$22.00	\$22.90	\$17.00	\$17.90
5x9	27.25	28.00	20.25	21.00

**Without Outside Finishing Ring,
Deduct from Above Prices the Following:**

Size Inches	Bronze Each	Aluminum Each
4x7	\$ 1.65	\$ 1.35
5x9	2.25	2.00

Size of Opening Inches	Length Flange Inches	Width Flange Inches	Thickness Glass Inches	Bronze Weight Pounds	Aluminum Weight Pounds
4x7	10	7	3/8	8 1/2	4
5x9	12 1/2	8	3/8	11 3/4	6

NOTE—Screens for above, see Fig. 443.

RUBBER for Portlights



Fig. 461

Size	1/4 inch square	.....	.....
	3/8 inch square	.....	.....
	1/2 inch square	.....	.....

Supplied only in 12 1/2 foot lengths

**Glass Run WINDOW CHANNEL
WITH STAINLESS STEEL BEAD**

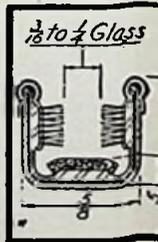


Fig. 482

Vulcanized rubber covered, mohair lined. The highest quality channel of its type.

Supplied only in 8 foot lengths.

Per Length	Outside Width Inches	Height Inches	For Glass Inches	Weight Per Length Pounds
\$5.50	3/8	3/8	3/16-1/4	1 1/2



ROUND FRAMES For Glass CAST BRONZE



Fig. 444

Plain Each	Polished Each	Chromium Plated Each	Inside Diam. Inches	Outside Diam. Inches	Weight Pounds
\$1.35	\$2.50	\$3.50	4	5 $\frac{3}{4}$	$\frac{1}{2}$
1.50	3.30	4.40	4 $\frac{1}{4}$	6 $\frac{1}{4}$	$\frac{3}{8}$
1.60	3.60	4.70	5	6 $\frac{3}{4}$	$\frac{1}{4}$
1.70	4.30	5.50	5 $\frac{1}{2}$	7 $\frac{1}{4}$	$\frac{3}{4}$
2.65	5.00	6.20	6	8	$\frac{7}{8}$
3.10	5.25	6.75	6 $\frac{3}{8}$	8 $\frac{1}{2}$	1
3.50	6.90	8.40	7 $\frac{1}{4}$	9 $\frac{3}{4}$	1 $\frac{1}{8}$
5.40	8.75	10.75	8 $\frac{1}{2}$	11 $\frac{1}{4}$	1 $\frac{1}{8}$
5.60	9.00	11.50	9 $\frac{1}{8}$	12 $\frac{1}{4}$	2
7.25	11.00	14.00	10 $\frac{3}{8}$	13 $\frac{1}{4}$	2 $\frac{3}{4}$

Round Portlight SCREENS BRONZE—SPRING TYPE FOR FIGS. 157 AND 317 PORTLIGHTS



Fig. 442

For Size Opening Inches	Dull Chromium Plated Each		For Size Opening Inches	Dull Chromium Plated Each	
	Bronze Each	Each		Bronze Each	Each
4	\$2.65	\$3.65	8	\$4.35	\$5.35
5	3.00	4.00	9	4.65	5.65
6	3.35	4.35	10	5.75	6.75
7	3.95	5.00	12	6.60	7.75

Round FINISHING RINGS For Inside Portlights CAST BRONZE—PLAIN



Fig. 455

Plain Each	For Size Portlight Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Pounds
\$1.20	4	4 $\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{1}{2}$
1.45	5	5 $\frac{1}{8}$	6 $\frac{1}{8}$	$\frac{1}{2}$
1.85	6	6 $\frac{1}{8}$	7 $\frac{1}{8}$	$\frac{3}{8}$
3.10	7	7 $\frac{1}{8}$	9 $\frac{1}{8}$	1
4.25	8	8 $\frac{1}{8}$	10 $\frac{1}{8}$	1 $\frac{3}{4}$
5.20	9	9 $\frac{1}{8}$	11 $\frac{1}{2}$	2 $\frac{3}{4}$
6.15	10	10 $\frac{3}{8}$	13	2 $\frac{3}{4}$
8.15	12	12 $\frac{3}{8}$	15 $\frac{1}{8}$	3 $\frac{3}{4}$

Oval Portlight SCREENS BRONZE—SPRING TYPE FOR FIG. 897 PORTLIGHT



Fig. 443

For Size Opening Inches	Bronze Each	Dull Chromium Plated Each
4x7	\$3.85	\$4.85
5x9	4.50	5.50

Round Portlight SCREENS BRASS FRAME—COPPER SCREENING FRICTION TYPE—FOR RECESSED PORTLIGHTS

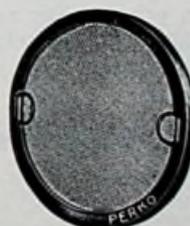


Fig. 434

Outside Diameter Inches	For Size Portlight Inches	Each	Outside Diameter Inches	For Size Portlight Inches	Each
4 $\frac{1}{8}$	4	\$2.65	8 $\frac{1}{8}$	8	\$4.40
5 $\frac{1}{8}$	5	3.00	9 $\frac{1}{8}$	9	4.65
6 $\frac{1}{8}$	6	3.35	10 $\frac{1}{8}$	10	5.75
7 $\frac{1}{8}$	7	4.00	12 $\frac{1}{8}$	12	6.55

Larger sizes made to order—Price on application.

Portlight CHAINS BRONZE



Fig. 441

Polished Each	Chromium Plated Each	Length Inches	Size Plate Inches	Weight Ounces
\$1.75	\$2.75	8	1 $\frac{1}{4}$ x1	3

"No-Rope"
Outboard Cable STEERER
 POLISHED ALUMINUM—22 DEGREE ANGLE
 15 INCH DIAMETER WHEEL
 COLORS — RED OR IVORY

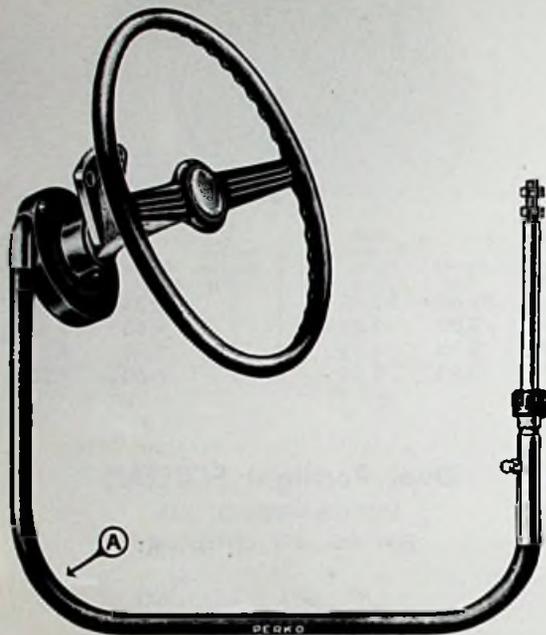


Fig. 548

Turns outboard motor smoothly and effortlessly through heavy duty push-pull cable "A" connected to remote steering control bracket of motor.

Cable has brass sliding member, brass tube, stainless steel interior and is neoprene covered.

Fasten cable under gunwale with cable clamps Figs. 121 or 163.

Supplied complete with transom bracket and motor connecting bracket. Cable is not included as length depends on size of boat and location of steerer.

For small outboard motors up to 15 H.P. inclusive.

Each	Diameter Drum Inches	Length Overall Inches	Length Dash To Center of Wheel Inches	Weight Pounds
\$39.00	4	10	5	7

Flexible STEERING CABLES

BRASS ROD—BRASS TUBE
 STAINLESS STEEL INTERIOR
 NEOPRENE COVERED—PUSH-PULL TYPE

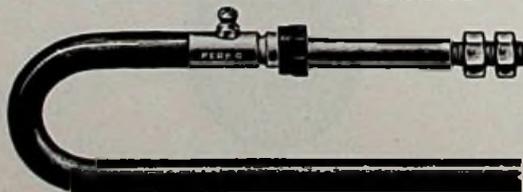


Fig. 536

Length Feet	Each	Length Feet	Each
8	\$20.00	14	\$29.00
10	23.50	16	32.50
12	26.50	18	36.00

Shorter or longer lengths supplied to order, price on application.

Improved Outboard STEERERS

POLISHED ALUMINUM—DASH BRACKET
 15 INCH DIAMETER WHEEL
 COLORS — RED OR IVORY
 DOUBLE SCORED DRUM—FOR TILLER ROPE

DASHBOARD TYPE
 FOR OUTBOARD RUNABOUTS

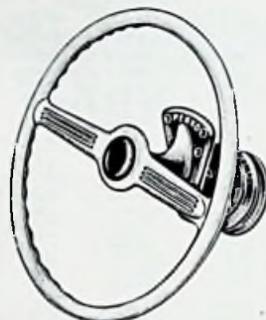


Fig. 549

With 22 degree polished aluminum dash bracket.

Without throttle control.

Specify color when ordering. Ivory shipped if color not specified.

Each	Diameter Drum Inches	Length Overall Inches	Length Dash To Center of Wheel Inches	Weight Pounds
\$16.50	3½	9¾	5	6

RACING TYPE

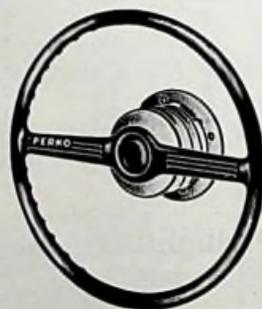


Fig. 550

With strong aluminum mounting flange in plain finish.

Without throttle control.

Specify color when ordering. Ivory shipped if color not specified.

Each	Diameter Drum Inches	Diameter Base Inches	Height Overall Inches	Weight Pounds
\$16.00	3½	5¾	5¼	5½



Outboard Cruiser STEERER

FOR TILLER ROPE
BRASS-CHROMIUM PLATED BULKHEAD BRACKET
15 INCH DIAMETER WHEEL—RED OR IVORY
CAST ALUMINUM DOUBLE DRUM

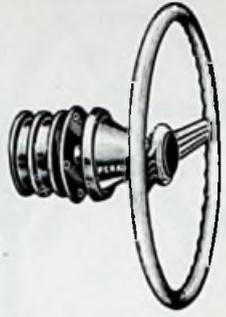


Fig. 570

Complete with four chromium plated bolts and nuts for mounting.

Each	Diameter Drum Inches	Length Overall Inches	Diameter Bracket Inches	Weight Pounds
\$26.75	3½	9½	4¾	7

Drum STEERERS

GALVANIZED CAST IRON OR CAST BRONZE FOR TILLER ROPE



Fig. 661

Diam. Overall Inches	Galv. Each	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Diam. Drum Inches	Length Drum Inches
12	\$ 8.25	\$12.50	\$16.50	3¾x3¾	2½	3
16	11.25	18.50	24.00	4 x4	2¾	3¾
20	19.50	31.00	37.00	5½x5½	3¾	4¾

SPARE PARTS

	12 inch		16 inch		20 inch	
	Galv. Each	Bronze Each	Galv. Each	Bronze Each	Galv. Each	Bronze Each
Back Plates	\$1.55	\$2.25	\$2.60	\$4.50	\$4.50	\$7.10
Wood Drums	.70	.70	1.30	1.30	3.25	3.25
Acorn Nuts	.30	.80	.45	1.00	.70	1.60
Wheel Only	3.50	5.00	5.00	8.00	7.50	11.00

Does not include handles or bolts.

HANDLES and BOLTS FOR STEERING WHEELS



Fig. 553



Fig. 554

Length Inches	Galvanized Bolts Only		Bronze Bolts Only	
	Each	Size Inches	Each	Size Inches
3	\$.25	¾x3½	\$.25	¾x3¾
3½	.30	¾x4	.35	¾x4
4	.40			¾x4½

Universal Worm Geared STEERER

CAST BRONZE HOUSING—ALL BRONZE GEARS

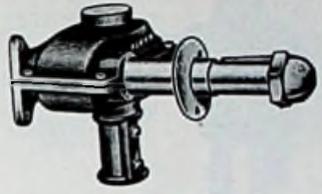


Fig. 524

A completely universal steerer in all respects. Can be operated either right or left hand and wheel shaft may be quickly and easily reversed for wheel box or thru-bulkhead mounting.

For rudder of 4 square foot area.
For 1 inch diameter vertical shaft.

Each	Diam. Wheel Shaft Inches	*Length Wheel Shaft Inches	Length For Hub Inches	Size Bracket Overall Inches	Weight Pounds
\$65.00	1	3	2½	5x2¾	7½

With Chromium plated nut and plate add \$1.00.
*Length between box and wheel.

WITH WHEEL AND FITTINGS
ALL BRONZE
WITHOUT VERTICAL SHAFT

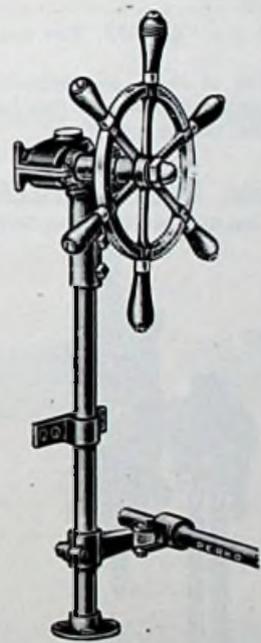


Fig. 820

No.	With Polished Bronze Wheel Each	With Chromium Plated Wheel Each	Diameter Wheel Inches	Weight Pounds
1	\$110.00	\$116.00	16	22
2	115.00	124.00	20	25
3	131.00	140.00	24	29

Wheel used is Fig. 976 sizes 4, 5 or 6.

If preferred with wheel Figs. 657 or 914 add difference in price of wheel only.

Other spare parts see Fig. 865 Part Nos. 1, 5, 6 & 8.



Chain Type STEERERS
ALL BRONZE—WITH ROLLER CHAIN
FOR WHEEL BOX MOUNTING

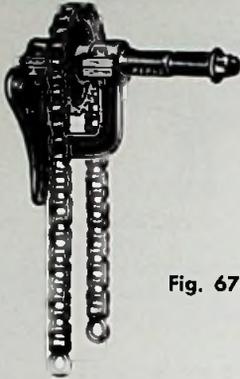


Fig. 678

Sprocket, 4 3/8 inch diameter, 21 teeth.
Chain, 36 inches long, 3/8 inch pitch.
Shaft machined for hub 2 1/8 inches thick.

Wheel End of Shaft Inches	Each	*Length of Shaft Inches	Dimensions of Bracket Inches	Weight Pounds
3/8	\$45.00	2 3/8	6x5 1/2	11
1	45.00	2 3/8	6x5 1/2	11 1/2

*Length between bracket and wheel.

With chromium plated nut add \$.75 each.

- Chain only, without Shackles, per foot\$4.75
- Chain Shackles, each90
- Acorn Nuts, each 1.75
- Sprocket only, each 5.00
- Wheels for above see Figs. 657, 914 and 976, Sizes 4, 5 and 6.

Special machining of shaft, on application.

Supplied with reversed shaft for thru-bulkhead mounting at above prices, please specify.

Chain Type STEERERS
WITH INLAID MAHOGANY WHEEL

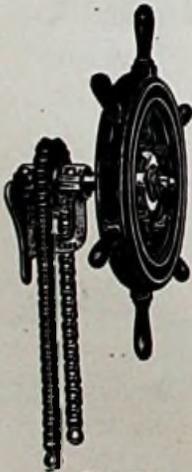


Fig. 676

Diameter Wheel Inches	Polished Bronze Hub Each	Chromium Plated Hub Each	Wheel End of Shaft Inches
20	\$94.00	\$98.75	3/8
24	100.00	104.75	1
28	114.00	120.25	1

Supplied for wheel box or thru-bulkhead mounting at same price. Supplied as illustrated unless otherwise specified.

Chain Type STEERERS
WITH CAST BRONZE WHEEL
POLISHED OR CHROMIUM PLATED

These are our Fig. 678 steerers with Fig. 976 sizes No. 2 or 3 wheels:



Fig. 674
For Wheel Box Mounting



Fig. 675
For Thru-Bulkhead Mounting

Diameter Wheel Inches	Polished Bronze Each	Chromium Plated Each	Machined Wheel End of Shaft Inches	Diam. Shaft Inches
16	\$62.50	\$69.00	7/8	1
20	68.00	77.50	7/8	1
24	83.00	92.50	1	1

Wheel, shaft and nut only are polished or plated, balance of steerer is plain bronze.

NOTE—Both of the above steerers can be supplied with Fig. 914 wheel. For price, add the difference between Figs. 976 and 914, sizes No. 1, 2 or 3.

STEERING WHEELS
CAST BRONZE—WOOD GRIPS
1/4 INCH KEYWAY

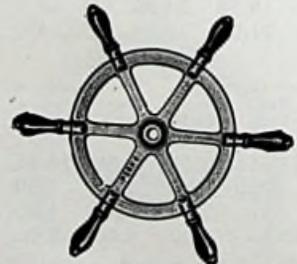


Fig. 976

With Short Hub for Steerers Figs. 674 and 675						
No.	Diam. Overall Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Weight Pounds
1	16	\$17.50	\$23.50	3/8	1	4
2	20	23.00	32.00	3/8	1	6 1/2
3	24	38.00	47.00	1	1 1/4	10 1/2
With Long Hub for Steerers Figs. 524 and 678						
No.	Diam. Overall Inches	Polished Bronze Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Weight Pounds
4	16	\$23.00	\$29.00	3/4, 7/8 or 1	2 1/2	4
5	20	28.00	37.00	3/4, 7/8 or 1	2 1/2	7
6	24	44.00	53.00	1	2 1/2	11



STEERING WHEELS

BRASS—WOOD GRIPS—ROUND SPOKES
1/4 INCH KEYWAY

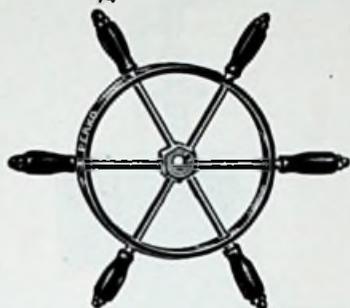


Fig. 914

With Short Hub for Steerers Figs. 674 and 675

No.	Diam. Overall Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Weight Pounds
1	16	\$24.00	\$29.00	3/8	1	4 1/4
2	20	28.00	34.00	3/8	1	5 1/4
3	24	34.50	42.00	1	1 1/4	6 3/4

With Long Hub for Steerers Figs. 524 and 678

No.	Diam. Overall Inches	Polished Brass Each	Chromium Plated Each	For Shaft Inches	Length Hub Inches	Wt. Lbs.
4	16	\$27.50	\$32.50	3/4, 7/8 or 1	2 1/8	4 3/4
5	20	33.00	39.00	3/4, 7/8 or 1	2 1/8	6 1/4
6	24	40.00	47.50	1	2 1/8	7

Mahogany STEERING WHEELS

WITH PLUGGED OR INLAID RIM
CAST BRONZE HUB—POLISHED

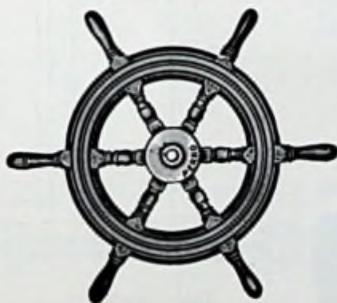


Fig. 657

Diam. Overall Inches	Plugged Each	Inlaid Each	For Shaft Inches	Size Keyway Inches	Thickness of Hub Inches	No. of Spokes
*18	\$39.25	\$44.50	3/8 or 1	1/4	2 1/8	6
*20	42.25	49.00	3/8 or 1	1/4	2 1/8	6
*24	49.50	55.00	1	1/4	2 1/8	6
28	63.25	69.00	1	1/4	2 1/8	6
30	70.50	78.00	1	3/8	2 1/8	8
32	83.50	94.00	1 1/4	3/8	2 1/8	8
36	113.00	124.00	1 1/4	3/8	2 1/8	8
42	130.00	142.00	1 1/4	3/8	2 1/8	8
48	145.00	158.00	1 3/8	3/8	3	8
54	180.00	193.00	1 3/8	3/8	3	8
60	205.00	218.00	1 3/8	3/8	3	10

*These sizes with chromium plated hub carried in stock, add \$4.75 each.

Larger sizes with chromium plated hub made to order only, add \$6.25 each.

NOTE—Shaft sizes above are stock bores, special boring supplied to order, price on application.

Wheel with inlaid hub supplied unless otherwise specified.

"Snugfit" ELECTROLYSIS COLLARS

STREAMLINED ZINC DIE CASTINGS
PRECISION MADE AND BALANCED

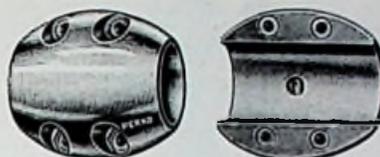


Fig. 252

The SNUGFIT electrolysis collar is the least expensive way of protecting the most expensive parts of any boat against electrolytic action.

It is a precision made collar of pure zinc designed to fit properly on any propeller shaft regardless of shaft R.P.M. The SNUGFIT collar is streamlined, balanced and die-cast to maintain a smooth exterior and strict uniformity.

SNUGFIT collars can be easily and almost instantly installed by anyone. They are doweled, so the two halves will always locate themselves.

SNUGFIT collars not only protect vital underwater fittings such as propellers, struts, shafts, strut bolts, but stop pitting of all underwater fastenings.

Shaft Size Inches	Each	Approx. Weight Pounds
3/4 — 7/8	\$3.75	3/4
1 — 1 1/8 — 1 1/4	4.50	1
1 1/8 — 1 1/2	5.50	1 1/2
1 1/4 — 2	7.50	2 3/4
2 1/2 — 3	11.00	4

ELECTROLYSIS ELIMINATORS

PURE ZINC

A necessity if the boat is used in salt water. Streamlined for mounting on the deadwood or planking. Arrests electrolysis of under water brass fittings.

CAST TYPE

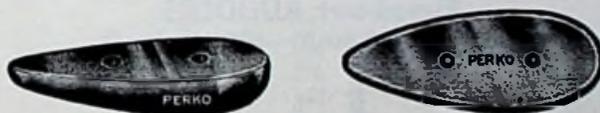


Fig. 244

No.	Each	Length Inches	Width Inches	Depth Inches	Weight Pounds
1	\$1.00	3 1/2	1 3/4	3/8	1/2
2	1.20	5 1/4	2 1/8	1	1 1/2

DIE CAST TYPE



Fig. 253

Precision made, smooth and uniform. So designed that they can easily be divided into two identical parts if smaller sizes are desired.

No.	Each	Dimensions Inches	Weight Pounds
3	\$1.80	5x2 3/4	1 1/2
4	4.50	8x4	4

Cruiser RUDDERS
CAST MANGANESE BRONZE

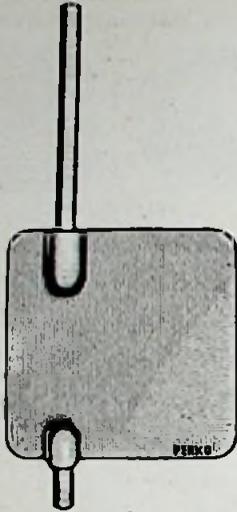


Fig. 816

No.	Blade Size Inches	Each	Blade Thickness Inches	Diam. of Stock Inches	Total Length of Stock Inches	Longer Stocks Per Inch	Weight Pounds
1.	12x12	\$44.00	1/4	1	12	\$.44	15
2	13x13	48.00	1/4	1	12	.44	16
3	14x14	62.00	1/4	1	12	.44	22
4	15x15	73.00	1/4	1	12	.44	25
5	16x16	84.50	1/4	1	12	.44	30
6	18x16	90.00	1/4	1	12	.44	33
7	18x18	94.50	1/4	1	12	.44	35
8	20x18	100.00	1/4	1 1/4	18	.70	37
9	20x20	105.00	1/4	1 1/4	18	.70	40
10	22x18	113.00	1/4	1 1/4	18	.70	43
11	22x20	140.00	3/8	1 1/4	18	.70	56
12	22x22	150.00	3/8	1 1/4	18	.70	61
13	24x20	167.00	3/8	1 1/4	18	.70	69
14	24x22	184.00	3/8	1 1/4	18	.70	77
15	24x24	194.00	3/8	1 1/4	18	.70	83

Runabout RUDDERS
HARD BRONZE BLADE—BRONZE SHAFT



Fig. 824

Hard Bronze having a composition of 60% copper and 40% zinc has a tensile test of 80,000 pounds, which is higher than that of the best quality brass.

Length of shaft above blade is 12 inches. Special lengths to order, price on application.

No.	Each	Width of Blade Top Inches	Width of Blade Bottom Inches	Height of Blade Inches	Thickness of Blade Inches	Diam. Shaft Inches
1	\$17.50	8	7	7	1/4	3/4
2	26.50	9	8	8	3/8	1

Weight No. 1, 4 pounds; No. 2, 7 1/2 pounds.

Speed Boat RUDDERS
CAST MANGANESE BRONZE

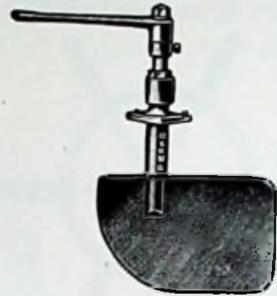


Fig. 813

Furnished complete with tiller, collar, nut, rudder pin and machined stock. Standard length stock above blade 12 inches.

No.	Complete Each	Rudder Only Each	Blade Size Inches	Diam. Stock Inches	Length Tiller Inches	Weight Rudder Only Pounds
1	\$62.00	\$32.00	9x14	1	12	12
2	78.00	45.00	10x16	1	12	14
3	106.00	57.00	11x18	1 1/4	14	22
4	127.00	65.00	12x20	1 1/4	16	26

With stock longer than standard, price on application. "Rudder Only" supplied without machined stock. With machined stock, price on application.

Hyspeed RUDDERS
CAST MANGANESE BRONZE

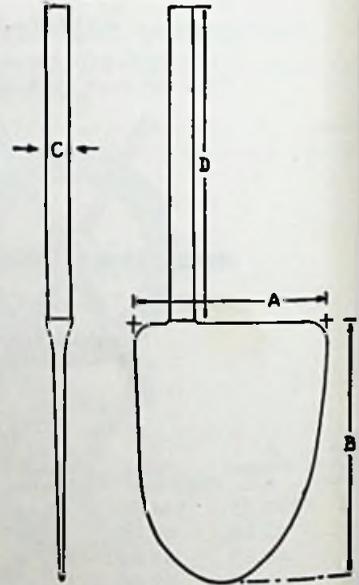


Fig. 818

Constructed in perfectly balanced proportion. Designer for express cruisers, runabouts, speedboats and all boat not carrying a skag.

No.	Each	Longer Stock Add per Inch	Dimensions Inches				Weight Pound
			A	B	C	D	
1	\$38.00	\$.44	9	12	1	16	12
2	46.50	.52	10 1/2	14	1 1/4	18	17
3	64.25	.70	12	16	1 1/4	18	20
4	90.00	.78	13 1/2	18	1 1/4	24	30
5	116.00	.86	15	20	1 1/2	24	40
6	189.00	1.15	16 1/2	22	1 3/4	30	69
7	227.00	1.45	18	24	2	36	84
8	298.00	1.70	20	26	2 1/4	40	120
9	527.00	1.95	24	30	2 1/2	48	225



Galvanized RUDDERS
GALVANIZED FORGED STEEL



Fig. 647

Size No.	Galv. Each	Size Plate Inches	Square End of Post Inches	Length Rudder Post Inches	Diam. Rudder Post Inches	Weight Pounds
00	\$ 6.50	6x8x $\frac{1}{8}$	$\frac{3}{8}$	25	$\frac{3}{4}$	3
0	12.50	12x12x $\frac{1}{8}$	$\frac{3}{8}$	40	$\frac{3}{4}$	11
1	15.00	14x14x $\frac{1}{8}$	$\frac{3}{8}$	42	$\frac{3}{4}$	13
2	23.00	16x16x $\frac{3}{8}$	$\frac{3}{4}$	48	1	25
3	32.50	18x18x $\frac{3}{8}$	$\frac{3}{4}$	52	1	35

Rudder SKAGS

DROP FORGED STEEL OR BRONZE



Fig. 649

Size No.	Galv. Each	Plain Bronze Each	Dimensions Inches	For Rudder Post Inches	Weight Pounds
0	\$ 5.00	\$ 9.75	24x1 $\frac{1}{2}$ x $\frac{3}{8}$	$\frac{3}{4}$	4 $\frac{1}{2}$
1	7.00	15.50	30x1 $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{3}{4}$	9
2	13.50	29.00	42x2 x $\frac{3}{8}$	1	17

Straight TILLERS

GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 650

With square hole and set screw for Fig. 647 rudder.

Length Inches	Galv. Each	Plain Bronze Each	Size of Square Hole Inches	Weight (Iron) Pounds
8	\$ 3.00	\$ 3.85	$\frac{3}{8}$ x $\frac{3}{8}$	1
10	3.40	4.15	$\frac{3}{4}$ x $\frac{3}{8}$	1 $\frac{1}{2}$
12	5.10	6.35	$\frac{3}{4}$ x $\frac{3}{4}$	2 $\frac{1}{2}$
15	6.50	11.50	$\frac{3}{8}$ x $\frac{3}{4}$	3 $\frac{1}{2}$

Bronze TILLERS

CAST BRONZE



Fig. 810

For round stock rudders Figs. 813, 816, 818.

No.	Each	Length Inches	For Rudder Stock Inches	Size Keyway Inches	Weight Pounds
1	\$ 7.00	8	$\frac{3}{4}$ or 1	$\frac{3}{8}$ or $\frac{1}{4}$	1 $\frac{1}{2}$
2	8.25	10	1	$\frac{1}{2}$	2
3	9.60	12	1	$\frac{1}{4}$	3 $\frac{1}{4}$

NOTE—Size No. 1, please specify size of rudder stock.

RUDDER PORTS with Stuffing Box
CAST BRONZE—PLAIN

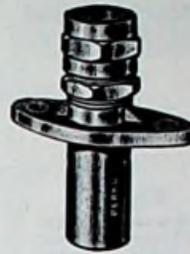


Fig. 1089

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
$\frac{3}{4}$	\$10.00	4 x 2	5 $\frac{1}{8}$	$\frac{3}{8}$	3
$\frac{7}{8}$	10.50	4 $\frac{1}{4}$ x2 $\frac{1}{4}$	5 $\frac{1}{8}$	$\frac{3}{8}$	3 $\frac{1}{4}$
1	10.75	4 $\frac{1}{2}$ x2 $\frac{1}{2}$	5 $\frac{1}{4}$	$\frac{3}{8}$	3 $\frac{1}{2}$
1 $\frac{1}{8}$	11.80	5 x 2 $\frac{1}{8}$	5 $\frac{1}{4}$	$\frac{1}{2}$	3 $\frac{3}{4}$
1 $\frac{1}{4}$	14.50	5 $\frac{3}{4}$ x3	6 $\frac{3}{4}$	$\frac{1}{2}$	5 $\frac{1}{2}$
1 $\frac{3}{8}$	15.40	6 $\frac{1}{4}$ x3 $\frac{1}{4}$	6 $\frac{3}{4}$	$\frac{1}{2}$	6 $\frac{3}{4}$
1 $\frac{1}{2}$	17.00	6 $\frac{1}{2}$ x3 $\frac{1}{2}$	6 $\frac{3}{4}$	$\frac{1}{2}$	6 $\frac{3}{4}$

Bronze Rudder COLLARS



Fig. 815

For Diam. Stock Inches	Each	Outside Diameter Inches	Thickness Inches	Weight Ounces
$\frac{3}{4}$	\$1.80	1 $\frac{1}{8}$	$\frac{1}{16}$	2 $\frac{1}{4}$
$\frac{7}{8}$	2.25	1 $\frac{1}{4}$	$\frac{3}{16}$	4
1	2.40	1 $\frac{3}{8}$	$\frac{1}{16}$	7
1 $\frac{1}{8}$	2.40	1 $\frac{1}{2}$	$\frac{1}{16}$	6 $\frac{1}{2}$
1 $\frac{1}{4}$	3.40	2 $\frac{1}{8}$	$\frac{1}{16}$	11
1 $\frac{3}{8}$	4.25	2 $\frac{1}{2}$	1 $\frac{1}{8}$	19
1 $\frac{1}{2}$	4.50	2 $\frac{1}{2}$	1 $\frac{1}{8}$	19

Quadrant TILLERS

GALVANIZED MALLEABLE IRON



Fig. 651

Radius Inches	Galv. Each	Max. Diam. Rope Inches	Square Hole Adjustable Inches	Weight Pounds
7	\$ 6.30	$\frac{3}{8}$	$\frac{3}{8}$ to $\frac{3}{4}$	3
10	14.50	$\frac{3}{8}$	$\frac{3}{8}$ to 1	5 $\frac{1}{4}$
12	17.75	$\frac{3}{8}$	$\frac{3}{4}$ to 1 $\frac{1}{4}$	8 $\frac{1}{2}$
15	35.00	$\frac{1}{2}$	$\frac{3}{4}$ to 1 $\frac{1}{4}$	13
18	44.00	$\frac{3}{4}$	1 to 1 $\frac{1}{4}$	27
24	79.00	$\frac{3}{4}$	1 $\frac{1}{2}$ to 1 $\frac{3}{4}$	46

Rudder Brace PINTLES
CAST BRONZE

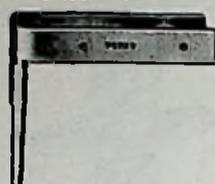


Fig. 1071

Size No.	Burnished Each	Between Straps Inches	Length Straps Inches	Width Straps Inches	Weight Ounces
00	\$.85	3/4	2 1/4	3/4	8
0	.95	3/4	3 1/2	7/8	9
1	1.35	3/4	4 1/4	3/4	10
2	2.10	1	4 1/2	1	11
3	2.50	1 1/4	4 3/4	1	13
4	3.60	1 1/2	5 1/2	1 1/4	22

Sizes No. 00 to No. 1 inclusive have machined straight shank. Larger sizes have tapered shank.

Reverse Gear CONTROLS
CAST BRONZE



Fig. 720

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 5x2 1/4 inches. Length of throw is 8 1/2 inches.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Inches	Weight Pounds
\$37.00	\$49.00	25	8	11 1/2

Rudder Brace GUDGEONS
CAST BRONZE
STRAP TYPE



Fig. 1070

Size No.	Burnished Each	Between Straps Inches	Length Straps Inches	I. D. Hole Minimum Inches	Weight Ounces
00	\$.65	3/8	2	1/2	4
0	.95	3/8	2 1/2	1/2	5
1	1.05	3/8	3	1/2	6 1/2
2	1.80	1	3	3/8	7
3	2.00	1 1/4	3 1/4	3/8	8
4	3.00	1 1/2	3 3/4	3/4	15

Reverse Gear CONTROLS
CAST BRONZE



Fig. 278

An ideal control for light installations, such as runabouts, small cruisers, etc. Clevis supplied for 1/2 inch pipe.

Polished Bronze Per Set	Chromium Plated Per Set	Length Overall Inches	Length Handle Inches	Size Base Inches	Weight Pounds
\$14.75	\$18.75	20	16	4 1/4 x 2 1/2	3 1/2

Spare clevises, see Fig. 865 Part No. 2.

NARROW PLATE TYPE



Fig. 1072

Size No.	Burnished Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Weight Ounces
00	\$.70	2	1	1/2	2 1/2
0	.80	2	1	1/2	2 1/2
1	.90	2 1/4	1 1/8	1/2	4

WIDE PLATE TYPE



Fig. 1073

Size No.	Burnished Each	Length Plate Inches	Width Plate Inches	I. D. Hole Minimum Inches	Weight Ounces
00	\$.70	3 1/2	3/8	1/2	3
0	.75	3 1/2	3/8	1/2	3
1	.90	3 5/8	3/8	1/2	4
2	1.30	4 1/4	1	3/8	6
3	1.50	4 3/4	1 1/8	3/8	8
4	1.70	4 3/4	1 1/4	1/2	9



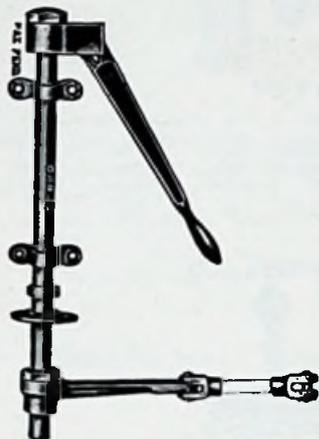
Reverse Gear CONTROLS

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/8 INCH SHAFT

NO MACHINING OF SHAFT—NO EXTRA EXPENSE

The main feature of "Perko" controls is that it is unnecessary to have shaft machined, such as threading, key seating or drilling.

A mechanically perfect wedging device is incorporated in both upper and lower lever. 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.



Interior view of tapered fastening device.

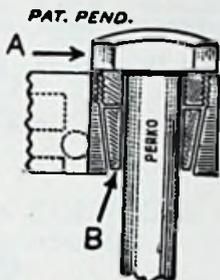


Fig. 663

Length Handles Inches	Length Lower Lever Inches	Sockets Threaded for Rod Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	2	1.5 1/4

Fittings complete—except shaft \$47.50
Handle complete with tapered bushing and nut . . . 23.75
Lever complete with tapered bushing and nut 19.00
Chromium plated, add 25% to above prices.

Do not fail to specify size of shaft when ordering; parts for 1 1/8 inch shaft supplied unless otherwise specified.

Clutch Control HANDLES

CAST BRONZE—FOR 1 INCH SHAFT



Fig. 946

Used with Fig. 822 clutch control.

Length from Center of Bore Inches	Polished Bronze Each	Chromium Plated Each	Weight Pounds
8	\$ 9.50	\$13.00	1 3/4
10	10.50	14.00	2
12	12.25	16.25	2 1/4

Clutch Control HANDLES

for Dual Control

CAST BRONZE—FOR 1 INCH SHAFT



Fig. 840

Bored straight through for 1-inch shaft. Has 1/4-inch keyway and tightening bolt.

Polished Bronze Each	Chromium Plated Each	Length from Center of Bore Inches	Weight Pounds
\$12.25	\$15.75	10	2

Reverse Gear CONTROLS

HEAVY CAST BRONZE—POLISHED
FOR 1 INCH OR 1 1/8 INCH SHAFT

Same tapered bushing device as Fig. 663 in upper and lower levers, no machining of shaft necessary.

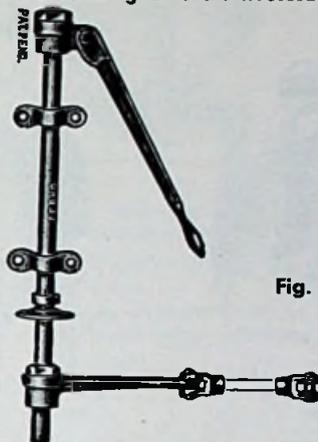


Fig. 664

Length Handle Inches	Length Lower Lever Inches	Sockets Threaded For Rod Inches	Bulkhead to Center of Shaft Inches	Weight Without Shaft Pounds
18	10	3/4	2	1.3 1/4

Fittings complete—except shaft \$38.00
Handle complete with tapered bushing and nut . . . 19.50
Lever complete with tapered bushing and nut 19.00
Chromium plated, add 25% to above price.
Specify size of shaft when ordering; parts for 1 inch shaft supplied unless otherwise specified.

Clutch CONTROLS

CAST BRONZE—FOR 1 INCH SHAFT

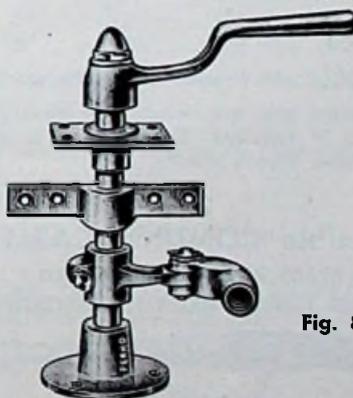


Fig. 822

Supplied with bulkhead bracket or shelf plate (please specify). Shaft is not included.

With 8" Handle Polished Bronze Per Set	With 10" Handle Chromium Plated Per Set	With 10" Handle Polished Bronze Per Set	With 10" Handle Chromium Plated Per Set	With 12" Handle Polished Bronze Per Set	With 12" Handle Chromium Plated Per Set
\$32.00	\$40.00	\$33.50	\$41.50	\$35.00	\$43.50

SPARE PARTS

	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each
Acorn Nut			
Shelf Plate, Fig. 865 No. 9		\$2.25	\$2.75
Bulkhead Bracket, Fig. 865 No. 6		5.00	6.50
Lever, Fig. 865 No. 3		6.00	
Clevis, Fig. 865 No. 4		4.00	
Lower Bearing, Fig. 865 No. 11			4.00

NOTE—Spare parts for Figs. 663 and 664, see Fig. 865, Nos. 2, 7, 10 and 12.



"Perkomatic" CONTROLS
FOR THROTTLE AND CLUTCH
CAST BRONZE—CHROMIUM PLATED
HEAVY DUTY



Fig. 698 No. 1
Single

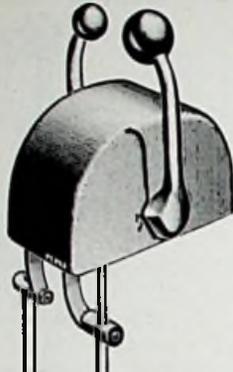


Fig. 698 No. 2
Double

Designed for easy operation and positive control of inboard engine throttles and hydraulic clutches.

The operation is smooth and effortless. The mechanism is simple and free of unnecessary gadgets.

The control with large knob for clutch, with small knob for throttle. The tension on both handles is adjustable to suit individual needs.

For push or pull operation and for use with the high quality modern control cable illustrated below.

The price does not include control cable.

No.	Each	Length Housing Inches	Width Housing Inches	Height Overall Inches	Weight Pounds
1	\$24.00	5 $\frac{3}{4}$	3 $\frac{3}{4}$	6	4 $\frac{1}{4}$
2	34.00	5 $\frac{3}{4}$	3 $\frac{3}{4}$	6	5

No. 1 supplied with handle for throttle or clutch.

No. 2 supplied with two handles for double throttle or double clutch if required. Otherwise it is supplied as described above. Please specify.

Flexible CONTROL CABLES
BRASS ROD— $\frac{1}{4}$ -28 THREAD
BRASS TUBES—NEOPRENE COVERING



Fig. 699

For push-pull operation, these cables are solid as a rod but flexible as a wire rope.

Diameter rod, $\frac{1}{4}$ inch; Outside diameter tubes, $\frac{3}{8}$ inch.

Length Feet	Each	Length Feet	Each
8	\$12.50	14	\$18.50
10	14.00	16	20.50
12	15.75	18	22.00
		20	29.50

Shorter or longer lengths supplied to order. Price on application.

Throttle CONTROLS
RATCHET TYPE—CAST BRONZE
FOR BOWDEN WIRE



Fig. 715

Knob is black bakelite.

Length of throw, 3 inches.

Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$11.25	\$14.25	\$16.25	6	2 $\frac{3}{8}$	2

FOR CONTROL ROD



Fig. 716

Knob is black bakelite.

Length of throw, 3 inches.

Rod socket is for $\frac{1}{4}$, $\frac{3}{8}$ or $\frac{1}{2}$ inch rod.

Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$11.25	\$14.25	\$16.25	6	2 $\frac{3}{8}$	2

Supplied for $\frac{1}{4}$ inch rod unless otherwise specified.

Spark and Throttle CONTROL
RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE

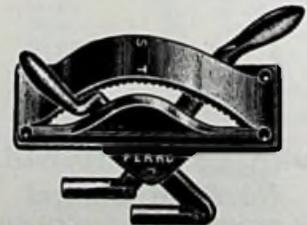


Fig. 331

Length of throw is 3 inches.

Rod sockets are for $\frac{1}{4}$, $\frac{3}{8}$ or $\frac{1}{2}$ inch rod.

Polished Bronze Each	Chromium Plated Each	Length Plate Inches	Width Plate Inches	Weight Pounds
\$15.25	\$17.75	6	2 $\frac{1}{2}$	2 $\frac{3}{4}$

Supplied for $\frac{3}{8}$ inch rod unless otherwise specified.



"Sea-Way" Throttle CONTROLS

RATCHET TYPE—FOR 3/8 INCH ROD
CAST BRONZE

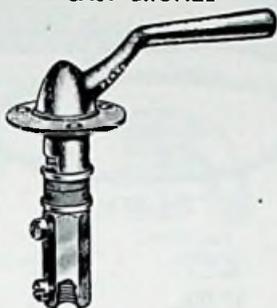


Fig. 847

A powerful control with a man sized handle. For mounting on top of wheel box or shelf.

A spring type ratchet inside handle hub holds control at desired position.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	For Rod. Inches	Diam. Flange Inches	Weight Pounds
\$9.50	\$11.00	4 1/2	3/8	2 3/8	1

"Sea-Prince" Throttle CONTROLS

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE



Fig. 848

Same design and ability as the Sea-Way Control above but fitted with lever arm and socket for mounting on side of wheel box or bulkhead.

Length of throw is 5 inches.

Rod socket is for 1/4, 3/8 or 1/2 inch rod.

Polished Bronze Each	Chromium Plated Each	Length Handle Inches	Length Lever Arm Inches	Diam. Flange Inches	Weight Pounds
\$10.50	\$12.00	4 1/2	3 1/2	2 3/8	1

Supplied for 3/8 inch rod unless otherwise specified.

Spark and Throttle CONTROLS

RATCHET TYPE—FOR CONTROL WIRE
CAST BRONZE

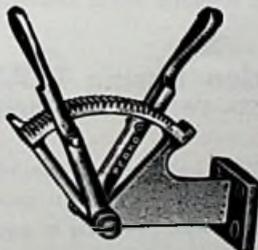


Fig. 409

Length of throw is 3 inches.

	Polished Bronze Each	Chromium Plated Each	Length Arc Inches	Extreme Projection Inches	Mounting Plate Inches	Weight Pounds
Single	\$ 7.60	\$10.00	2 3/8	5	1 7/8 x 1 3/8	3/4
Double	10.50	13.25	2 3/8	5	1 3/8 x 1 3/8	1

Throttle CONTROLS

RATCHET TYPE—CAST BRONZE
FOR CONTROL ROD OR BOWDEN WIRE

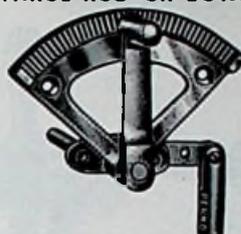


Fig. 690—For Rod

Fig. 690-A—For Wire

For bulkhead up to 2 inches thick.

Length of throw, 3 inches.

Rod socket is for 1/4, 3/8 or 1/2 inch rod.

Supplied for 1/4 inch rod unless otherwise specified.

Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Pounds
\$6.00	\$8.00	4 1/2 x 3 1/8	3/8

Spark and Throttle CONTROLS

RATCHET TYPE—CAST BRONZE
FOR CONTROL ROD OR BOWDEN WIRE

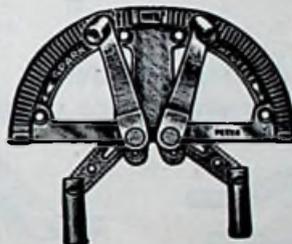


Fig. 691—For Rod

Fig. 691-A—For Wire

For bulkhead up to 2 inches thick.

Length of throw, 3 inches.

Rod sockets are for 1/4, 3/8 or 1/2 inch rod.

Supplied for 1/4 inch rod unless otherwise specified.

Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Weight Pounds
\$10.50	\$13.50	6 x 3	1 1/4

Spark and Throttle CONTROLS

RATCHET TYPE—FOR CONTROL ROD
CAST BRONZE—ADJUSTABLE



Fig. 904

Sockets are for 1/4, 3/8 or 1/2 inch rod.

Length of throw is 2 3/4 inches.

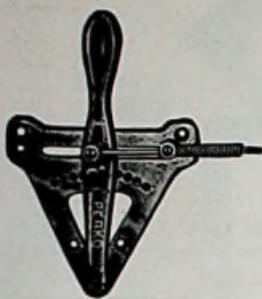
	Polished Bronze Each	Chromium Plated Each	Dimensions of Base Inches	Dimensions of Frame Inches	Weight Ounces
Single	\$5.25	\$7.25	2 x 3/8	4 1/2 x 3 3/4	10
Double	6.75	9.75	2 x 3/8	4 1/2 x 3 3/4	13

Supplied for 1/4 inch rod unless otherwise specified.

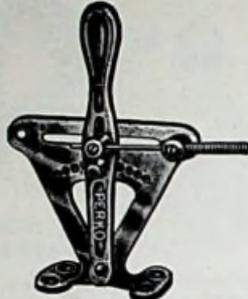


Improved Throttle CONTROLS

RATCHET TYPE—FOR CONTROL WIRE
FORGED BRONZE



Side Mounting
Fig. 350



Floor Mounting
Fig. 351

The spring type ratchet holds the control at the speed desired, non-slip.

Fig.	Dull Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Frame Inches	Height Overall Inches	Weight Ounces
350	\$3.50	\$5.25	\$6.00	4½x4	6½	12
351	3.50	5.25	6.00	4½x3¾	6½	13

Control CRANKS

BURNISHED CAST BRONZE—FOR CONTROL ROD



Side Type
Fig. 636



Upright Type
Fig. 637

Length Arms Inches	Height Overall Inches	Size Base Inches	Weight Single Ounces	Weight Double Ounces
2	2¾	2¼x¾	5	7
For Rod Inches	Single Complete Each	Double Complete Each	Crank Only Each	Brackets Only Each
¼	\$1.90	\$3.00	\$.60	\$.65
¾	1.90	3.00	.60	.65
¾	2.00	3.20	.60	.65

Supplied for ¼ inch rod unless otherwise specified.

Control LEVERS

PLAIN BRASS



Fig. 354

No.	Each	Length Overall Inches	For Shaft Inches	For Clevis Pin Inches	Weight Ounces
1	\$.90	2¾	¾	¾	1½
2	1.35	3¾	¾	¾	1½

Size No. 1 is used on controls Figs. 690, 690-A, 691, and 691-A.

Size No. 2 is used on control Fig. 848.

Dashboard Choke CONTROLS

BRASS CHROMIUM PLATED HANDLE
WITH BRASS CASING AND WIRE



Fig. 371

5 Ft. Lengths Per Set	7 Ft. Lengths Per Set	10 Ft. Lengths Per Set	15 Ft. Lengths Per Set
\$4.30	\$5.00	\$6.10	\$7.75

Bowden WIRE AND CASING

BRASS

¼ INCH O.D. CASING—LEFT HAND LAY
WIRE DIAMETER .072 INCHES



Fig. 353

Stock Lengths in Feet	Complete	Casing Only	Wire Only
5	\$1.95	\$1.70	\$.25
7	2.65	2.30	.35
10	3.75	3.25	.50
15	5.35	4.75	.50
25	8.50	7.50	1.00
50	17.00	15.00	2.00

Improved CONTROL WIRE HANDLES

FOR CASING WITH RIGHT OR LEFT HAND LAY
ALL BRASS—CHROMIUM PLATED



Fig. 692

Control wire and casing can be easily attached. No soldering necessary, wire held by set screw in knob. Casing threaded into tube. For use on a dash or bulkhead up to 2 inches thick.

Each	Length Overall Closed Inches	Outside Diam. Stem Inches	Weight Ounces
\$2.40	4½	¾	3

Left hand thread supplied unless otherwise specified.

Bowden Casing CLAMP

BRASS—SWIVEL TYPE—PLAIN



Will hold control casing firmly while swivel feature allows smooth sliding of control wire in casing at any angle.

Each	Size Base Inches	Weight Ounces
\$.80	2¼x1	3

Fig. 352



STEERER AND CONTROL PARTS
CAST BRONZE



1. Lever



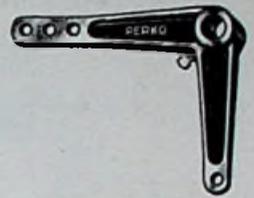
6. Bulkhead Bracket



9. Shelf Plate



12. Collar



13. Angle Lever



2. Clevis



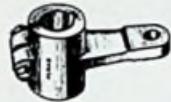
4. Elbow Clevis



7. Bulkhead Bracket



10. Deck Plate



3. Lever



5. Angle Clevis



8. Lower Bearing



11. Lower Bearing



14-15. Lever

Fig. 865

No.	Item	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length C. to C. Inches	For Diam. Shaft Inches	Diam. Pin Inches	Diam. Bolt Inches	Tapped For Rod Inches	Tapped For Pipe Inches	Width Jaw Inches	Width Base Inches	Diam. Flange Inches	Weight Pounds
1	Lever	\$7.75			8										1 3/4
2	Clevis	2.75			2 1/2	6	1	1/2		3/4		1/2			1/2
2-A	Clevis	2.75			2 1/2				1/2		1/2	1/2			1/2
2-B	Clevis	3.50			4 1/4				1/2		3/4	1/2			1
2-C	Clevis	3.50			4 1/4				1			1/2			1
3	Lever	6.75			4 1/2	2 3/4	1	1/2	3/8						1
4	Clevis	6.00			3 1/2				1/2		3/4	1/2			1
4-A	Clevis	6.00			3 1/2				1/2	1		1/2			1
5	Clevis	4.00			3				1/2		3/4	1/2			3/4
5-A	Clevis	4.00			3				1/2	1		1/2			3/4
6	Bracket		\$5.30	\$7.00	6 3/4		1						1		3/4
7	Bracket		5.30	7.00	4 1/4		1						1		3/4
7-A	Bracket		5.30	7.00	4 1/4		1 1/4						1		3/4
8	Bearing	3.75					1							3 1/2	3/4
9	Shelf Plate		5.00	6.50	3 3/4		1					3 3/4			1 1/4
10	Deck Plate		4.00	5.00			1							4	1/2
10-A	Deck Plate		4.00	5.00			1 1/4							4	1/2
11	Bearing	4.00					1							3 3/4	1
12	Collar		2.25	3.00			1								1/4
12-A	Collar		2.25	3.00			1 1/4								1/4
13	Lever	9.50				*6-7-8	1	1/2							2
14	Lever	7.00				**5-6	3/4	1/2	3/8						1
15	Lever	8.00				5-6-7	1	1/2	3/8						1 1/2

Depth of Bearing—No. 8, 3/8 inches—No. 9, 1 inch—No. 11, 1 1/4 inches.

*This applies to long arm. Length short arm center to center, 6 inches.

**No. 14 has two pin holes instead of three illustrated.

CONTROL ROD SOCKETS
PLAIN BRASS



Fig. 328



Fig. 298

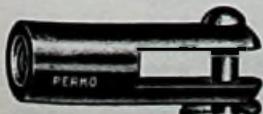


Fig. 295

Standard Fig. 328

No.	Each	Tapped For Rod Inches	Outside Diam. Inches	Length Overall Inches	Between Jaws Inches	Length Jaws Inches
1	\$.40	1/4-20	3/8	1 3/8	3/8	3/8
2	.40	3/8-18	3/8	1 3/8	3/8	3/8
3	.45	3/8-16	1/2	1 5/8	1/4	3/4

Heavy Duty Fig. 295

4	\$.50	1/4-20	1/2	1 3/8	1/4	3/4
4-A	.60	1/4-28	1/2	1 3/8	1/4	3/4
5	.60	3/8-18	1/2	1 3/4	1/4	3/4
6	.60	3/8-16	1/2	1 3/4	1/4	1 1/8

Heavy Duty Fig. 298

7	\$.60	1/4-20	3/8	1 3/8	1/4	3/8
8	.60	3/8-18	3/8	1 3/8	1/4	3/8

Length jaws measured to center of pin



Control Wire SOCKETS

PLAIN BRASS

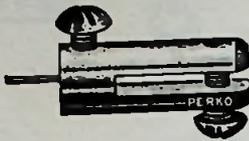


Fig. 679

Complete with brass cotter pin and brass set screws.

Each	Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Weight Ounces
\$.40	1	$\frac{3}{8}$	$\frac{1}{8}$	$\frac{1}{2}$	$\frac{1}{2}$

Length jaws measured to center of screw.

Brass BALL JOINTS

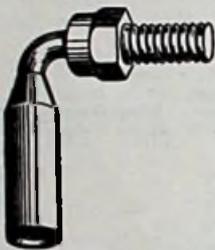


Fig. 792

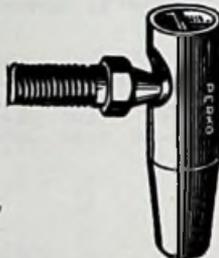


Fig. 793

Fig. 793 is adjustable for wear. Spring tension around ball with screw for adjusting.

No.	Fig. 792 Each	Fig. 793 Each	Thread Inches	Length Thread Inches	O. D. Female End Inches	Weight Ounces
1	\$.45	\$.65	$\frac{1}{4}$ -20	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$
2	.55	.75	$\frac{3}{8}$ -18	$\frac{1}{2}$	$\frac{3}{8}$	1
3	.55	.75	$\frac{1}{4}$ -28	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$

Flax Packed STUFFING BOXES and STERN BEARINGS WITH RECTANGULAR FLANGE

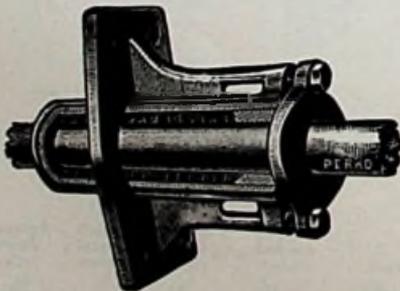


Fig. 811

Shaft Size Inches	Each	Size Flange Inches	Length Bearing Inches
1	\$18.00	$5\frac{1}{4}$ x3	$5\frac{1}{4}$
$1\frac{1}{8}$	20.50	6 x3	$5\frac{1}{2}$
$1\frac{1}{4}$	25.50	$6\frac{3}{4}$ x $3\frac{1}{2}$	$5\frac{3}{4}$
$1\frac{3}{8}$	26.50	7 x $3\frac{3}{8}$	$5\frac{3}{4}$
$1\frac{1}{2}$	36.00	$7\frac{1}{2}$ x $4\frac{1}{4}$	$6\frac{1}{2}$
$1\frac{3}{4}$	48.00	$8\frac{1}{2}$ x $4\frac{3}{4}$	$6\frac{1}{2}$
2	60.00	$9\frac{1}{2}$ x $5\frac{1}{4}$	$8\frac{1}{2}$

STUFFING BOXES

CAST BRONZE—REGULAR



Fig. 320

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pounds
$\frac{3}{8}$	\$5.00	$3\frac{3}{8}$ x $1\frac{1}{4}$	$\frac{3}{8}$	$2\frac{1}{8}$	$2\frac{1}{8}$	$1\frac{1}{4}$
$\frac{1}{2}$	5.15	4 x $1\frac{1}{4}$	$\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{1}{8}$	$1\frac{1}{8}$
$\frac{5}{8}$	5.40	$4\frac{1}{2}$ x $1\frac{1}{4}$	$\frac{3}{8}$	3	$2\frac{3}{8}$	$1\frac{1}{2}$
1	6.50	$4\frac{1}{2}$ x $2\frac{1}{8}$	$\frac{3}{8}$	3	$2\frac{3}{8}$	$1\frac{3}{4}$
$1\frac{1}{8}$	7.30	$4\frac{3}{4}$ x $2\frac{1}{8}$	$\frac{1}{2}$	$3\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{1}{4}$
$1\frac{1}{4}$	8.50	$5\frac{3}{4}$ x $2\frac{3}{8}$	$\frac{1}{2}$	$4\frac{1}{8}$	$2\frac{3}{8}$	3
$1\frac{3}{8}$	10.00	$6\frac{1}{4}$ x3	$\frac{1}{2}$	$4\frac{1}{4}$	3	$3\frac{1}{4}$
$1\frac{1}{2}$	11.25	$6\frac{1}{2}$ x3	$\frac{1}{2}$	5	3	$3\frac{1}{2}$
$1\frac{3}{4}$	16.50	7 x $3\frac{3}{4}$	$\frac{3}{8}$	$5\frac{1}{2}$	4	$5\frac{1}{4}$

Extra Heavy STUFFING BOXES

RECTANGULAR FLANGE—CAST BRONZE

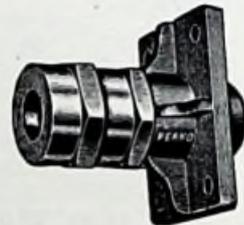


Fig. 819

Shaft Size Inches	Each	Size Flange Inches	For Diam. Bolt Inches	C. to C. Bolt Holes Inches	Length Bearing Inches	Weight Pound
1	\$13.25	5 x3	$\frac{1}{2}$	$3\frac{3}{4}$ x $1\frac{3}{4}$	4	5 $\frac{1}{2}$
$1\frac{1}{8}$	14.50	$5\frac{1}{2}$ x $3\frac{3}{8}$	$\frac{1}{2}$	$4\frac{1}{4}$ x $2\frac{1}{4}$	$4\frac{1}{4}$	6 $\frac{1}{2}$
$1\frac{1}{4}$	17.50	$5\frac{3}{4}$ x $3\frac{3}{8}$	$\frac{1}{2}$	$4\frac{3}{4}$ x $2\frac{1}{4}$	$4\frac{3}{4}$	7
$1\frac{3}{8}$	20.50	6 x4	$\frac{1}{2}$	$4\frac{3}{4}$ x $2\frac{1}{2}$	5	9
$1\frac{1}{2}$	24.00	6 x $4\frac{3}{8}$	$\frac{1}{2}$	$4\frac{1}{2}$ x3	$5\frac{1}{2}$	10
$1\frac{3}{4}$	30.00	$6\frac{1}{2}$ x $4\frac{1}{2}$	$\frac{3}{8}$	$5\frac{1}{8}$ x $3\frac{1}{4}$	7	$13\frac{1}{2}$
2	39.00	$7\frac{1}{4}$ x5	$\frac{3}{8}$	$5\frac{3}{8}$ x $3\frac{3}{8}$	$7\frac{3}{8}$	15 $\frac{1}{2}$

PACKING NUTS and LOCKNUTS

FOR STUFFING BOXES—CAST BRONZE BURNISHED



Fig. 73

For Fig. 320

Shaft Size Inches	Each	Fig. 79 Each
$\frac{3}{8}$	\$1.80	\$.70
$\frac{1}{2}$	1.85	.75
$\frac{5}{8}$	2.00	.80
1	2.10	.90
$1\frac{1}{8}$	2.15	1.00
$1\frac{1}{4}$	2.45	1.10
$1\frac{3}{8}$	2.90	1.30
$1\frac{1}{2}$	3.85	1.50
$1\frac{3}{4}$	4.65	2.00



Fig. 79

For Fig. 819

Fig. 73 Each	Fig. 79 Each
\$4.25	\$1.80
4.60	1.85
4.85	2.00
5.50	2.15
6.00	2.15
7.25	2.75
7.85	3.00

NOTE—LENGTH BEARING SHOWN DOES NOT INCLUDE PACKING NUT OR SPACE FOR PACKING.



Self Aligning STUFFING BOXES
CAST BRONZE—RECTANGULAR FLANGE

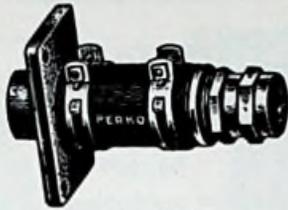


Fig. 734

No.	Each	For Shaft Inches	Size Flange Inches	Length from Flange to End of Box Inches	Weight Pounds
1	\$11.50	3/4	5x3 1/4	6 1/2	5
2	12.50	3/8	5x3 1/4	6 1/2	5
3	13.00	1	5x3 1/4	6 1/2	5
4	16.00	1 1/8	6x4 1/4	7 1/4	9
5	16.50	1 1/4	6x4 1/4	7 1/4	9 1/2
6	25.00	1 3/8	7x4 1/2	8	12 1/2
7	26.00	1 1/2	7x4 1/2	8 1/4	13

Iron Shaft COUPLINGS
CAST IRON

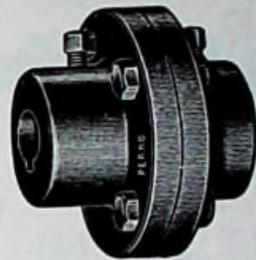


Fig. 327

No.	Each	For Diameter Shaft Inches	Diam. Flange Inches	Length Overall Inches	Wt. Lbs.
0	\$6.00	3/8, 3/4	3	2 3/8	2 1/2
1	7.50	3/8, 3/4, 1, 1 1/8	4	3 1/2	5 1/2
2	9.50	3/4, 3/8, 1, 1 1/8, 1 1/4, 1 1/2	4 1/2	4 1/8	8

For divided sizes such as 1x1 1/8, add \$1.10 each.
For 1/2 coupling add \$.55 to half of above prices. No bolt: furnished.

Bronze UNIVERSAL JOINTS
CAST BRONZE—BURNISHED



Fig. 93

No.	Bored Each	Topped Each	Bored for Rod Inches	Topped for Pipe Inches	Extreme Length Inches	Weight Pounds
1	\$8.25	\$8.75	3/4	1/2	4 1/2	1
2	11.50	12.00	1	3/4	6	2 1/4

Specify if for rod or pipe.

SIZE OF KEYWAY IN SHAFT COUPLINGS

Size Shaft Inches	Keyway Inches
3/8-3/4	3/16
3/8-1-1/8	1/4
1 1/4	3/8
1 3/8-1 1/2	3/8

Bronze Shaft COUPLINGS
CAST BRONZE—BURNISHED

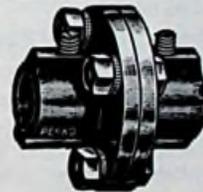


Fig. 389

Set screws, bolts and washers are all bronze.

Each	For Diameter Shaft Inches	Diam. Flange Inches	Length Overall Inches	Weight Pounds
\$9.00	3/4, 3/8, 1	2 1/4	2 1/4	1 1/2

For divided sizes such as 3/4 inch one end, 1 inch the other end, add \$.50 each.

3/4 inch size has 3/16 inch keyway.

3/8 and 1 inch sizes have 1/4 inch keyway.

Flat BEARINGS
GRAY IRON—BABBITTED



Fig. 789

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam. Bolt Holes Inches	Weight Pounds
3/8	\$4.90	4 x 1 1/8	3 3/8	3/4	1
3/4	4.90	4 1/4 x 1 3/8	3 1/2	3/8	1 1/8
3/4	5.30	4 1/4 x 1 1/2	3 3/8	3/8	1 1/4
1	5.30	4 3/4 x 1 1/2	3 3/4	3/4	1 1/2
1 1/8	6.20	5 1/4 x 1 3/8	4 1/4	3/8	2 1/2
1 1/4	6.20	5 1/2 x 1 3/4	4 1/4	3/8	2 3/8
1 3/8	7.80	5 3/4 x 1 3/8	4 3/8	3/8	3 1/2
1 1/2	7.80	6 1/4 x 2	4 3/8	3/8	4 1/4
1 3/4	9.60	6 3/4 x 2 1/4	5 3/8	1/2	6
2	12.10	7 1/2 x 2 1/2	5 3/4	1/2	7 1/4

CAST BRONZE—NOT BABBITTED

Fig. 809

For Shaft Size Inches	Each	Dimensions of Base Inches	C. to C. Bolt Holes Inches	Diam. Bolt Holes Inches	Weight Pounds
3/4	\$6.00	4 1/2 x 2	3 3/8	3/8	1 1/2
3/8	6.00	4 1/2 x 2	3 3/8	3/8	1 1/2
1	6.00	4 1/2 x 2	3 3/8	3/8	1 3/4

Sleeve Type Shaft COUPLINGS
CAST BRONZE



Fig. 378

No.	Each	For Diam. Shaft Inches	Length Inches	Keyway Inches	Weight Pounds
1	\$5.25	3/4	3	3/16	3/4
2	5.25	3/8	3	1/4	3/4
3	5.25	1	3	1/4	3/4



Midget Self Aligning SHAFT LOGS
CAST BRONZE—FOR SMALL INBOARD ENGINES



Fig. 695

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip. Base is undrilled to allow drilling as required.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Weight Pounds
0	\$10.25	3/8	9 3/8 x 2 1/2	15	12	3 3/4
1	10.25	3/8	9 3/8 x 2 1/2	15	12	3 3/4

This unit uses stuffing box Fig. 672 size 0 machined for either 3/8 or 7/16 inch shaft.

Self Aligning SHAFT LOGS
CAST BRONZE
ALLOWS INSTALLATION OF ENGINE WELL AFT

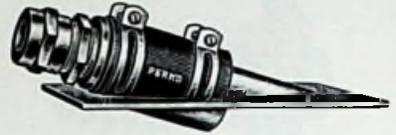


Fig. 589

Stuffing box and shaft are cushioned in rubber, reducing vibration in the hull to a minimum and eliminating excessive wear on shaft and bearing.

Base is drilled for bolts or screws.

No.	Each	For Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Wt. Lbs.
0	\$10.25	5/8 or 3/4	9x4	10	13	3 1/2
1	12.75	3/4	11x5	12 1/4	13	6
2	12.75	7/8	11x5	12 1/4	13	6
3	12.75	1	11x5	12 1/4	13	6

Adjustable SHAFT LOGS
CAST BRONZE



Fig. 577

Cast bronze ball and socket arrangement gives ample adjustment in all directions.

Range of adjustment between 12 and 25 degrees.

Flange bolts are locked with set screws.

Furnished complete with grease cup.

No.	Each	Size Shaft Inches	Length Overall Inches	Length Base Inches	Width Base Inches	Wt. Lbs.
1	\$34.00	3/4	17 3/4	14	3 3/8	11
2	34.00	7/8	17 3/4	14	3 3/8	11
3	34.00	1	17 3/4	14	3 3/8	11
4	52.00	1 1/8	25	20	4 1/2	21
5	52.00	1 1/4	25	20	4 1/2	21
6	80.00	1 3/8	28 1/2	23	5 1/2	28
7	80.00	1 1/2	28 1/2	23	5 1/2	28

Self Aligning SHAFT LOGS
CAST BRONZE



Fig. 671

Stuffing box and base are connected by heavy rubber hose to take up vibration and whip.

No.	Each	Size Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Wt. Lbs.
*1	\$13.50	3/8	12x3 1/2	18	13	6
*2	14.00	3/8	12x3 1/2	18	13	6
*3	15.25	1	12x3 1/2	18	13	6
4	25.00	1 1/8	17x4 1/4	23 1/2	10	12
5	29.50	1 1/4	17x4 1/4	23 1/2	10	12
6	39.60	1 3/8	19x5	28	10	20
7	44.60	1 1/2	19x5	28	10	20

*Drilled for bolts or screws, balance of sizes not drilled

STUFFING BOX AND EXTRA RUBBER HOSE FOR SELF ALIGNING SHAFT LOG AND STUFFING BOX

Adjustable SHAFT LOGS
CAST BRONZE—EXTRA HEAVY

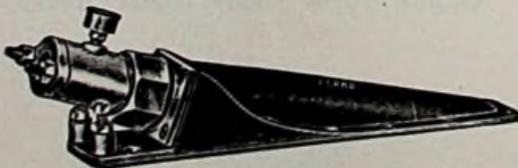


Fig. 627

Furnished complete with grease cup.

No.	Each	Size Shaft Inches	Length Base Inches	Width Base Inches	Weight Pounds
8	\$125.00	1 3/4	28	5 1/2	57
9	130.00	2	28	5 1/2	57



Fig. 672

Fig. 1092

Fig. 673

For Log No.	Size Shaft Inches	Stuffing Box Each	Hose Each	Hose Clamps Per Pair	I. D. Hose Inches	O. D. Hose Inches	Length Hose Inche
0	3/8-3/4	\$4.00	\$.80	\$.90	1 1/4	1 3/4	3 1/4
1	3/8	5.35	1.15	1.00	1 1/4	2 1/4	4
2	7/8	5.50	1.15	1.00	1 3/4	2 1/4	4
3	1	6.35	1.15	1.00	1 3/4	2 1/4	4
4	1 1/8	7.25	1.90	1.90	2 3/8	3 1/8	5
5	1 1/4	8.60	1.90	1.90	2 3/8	3 1/8	5
6	1 3/8	10.00	3.40	2.40	2 3/8	3 1/2	5
7	1 1/2	12.00	3.40	2.40	2 3/8	3 1/2	5



Adjustable STRUTS

WITH MARINE BABBITT BEARING
ALL CAST BRONZE

Side View

End View

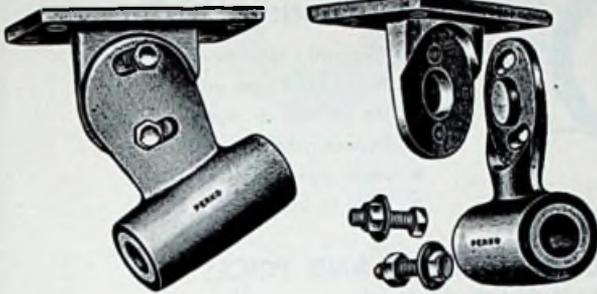


Fig. 628

Adjustable to any practical angle of the propeller shaft, held fast at necessary angle by two heavy bronze bolts. Bearing is of a special marine babbitt, the highest grade obtainable. Length of drop is figured from bottom of keel to center of shaft.

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	Weight Pounds
3/4	3	5 1/2	4 1/8	6 1/2
7/8	3	5 1/2	4 1/8	6 1/2
1	3	5 1/2	4 1/8	6 1/2
1 1/8	3	5 1/2	4 1/8	6 1/2
1 1/4	3 1/2	6 1/2	4 1/2	12 1/2
1 3/8	3 1/2	6 1/2	4 1/2	12 1/2
1 1/2	3 1/2	6 1/2	4 1/2	12 1/2

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$24.00	\$24.00	\$24.00	\$24.00			
6	24.75	24.75	24.75	24.75	\$36.50	\$36.50	\$36.50
7	24.75	24.75	24.75	24.75	37.25	37.25	37.25
8	26.25	26.25	26.25	26.25	38.00	38.00	38.00
9	27.00	27.00	27.00	27.00	39.00	39.00	39.00
10	28.50	28.50	28.50	28.50	40.00	40.00	40.00
11	29.75	29.75	29.75	29.75	41.00	41.00	41.00
12					43.25	43.25	43.25

Specify size of shaft and length of drop, when ordering.

Midget Adjustable STRUT

CAST BRONZE—FOR SMALL INBOARD ENGINES



Fig. 660

Maximum drop is 5 inches, can be reduced to 3 inches. Adjustable to any angle of shaft.

Plain Bronze Each	Diam. Shaft Inches	Size of Base Inches	Length Bearing Inches	Weight Pounds
\$6.50	3/8 or 3/4	3 1/2 x 2 1/4	2 1/4	2

Adjustable STRUTS

FOR CUTLESS RUBBER BEARING
CAST BRONZE—EXTRA HEAVY



Fig. 1019

Size Shaft Inches	Width Flange Inches	Length Flange Inches	Length Bearing Inches	Weight Pounds
3/4	3	5 1/2	3	6 3/4
7/8	3	5 1/2	3 1/2	6 3/4
1	3	5 1/2	4	6 3/4
1 1/8	3	5 1/2	4 1/2	6 3/4
1 1/4	3 1/2	6 1/2	5	12
1 3/8	3 1/2	6 1/2	5 1/2	12
1 1/2	3 1/2	6 1/2	6	12

PRICES BELOW DO NOT INCLUDE RUBBER BEARING

For bearings see Fig. 1021.

Use bearings having the smallest outside diameter listed.

Lgth. Drop In.	Size Shaft Inches						
	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
5	\$23.50	\$24.00	\$24.50	\$24.25			
6	24.25	24.75	25.25	25.75	\$35.00	\$36.00	\$37.00
7	25.00	25.50	26.00	26.50	35.75	36.75	37.75
8	25.75	26.25	26.75	27.25	36.50	37.50	38.50
9			27.50	28.00	37.25	38.25	39.25
10			29.00	29.50	38.50	39.25	40.25
11					40.75	41.25	42.25
12					42.75	43.25	44.50

Specify size of shaft and length of drop, when ordering. If desired, complete with rubber bearing, please specify.

Safety SHAFT COLLARS

MILLED BAR STEEL—MACHINED



Fig. 787

Size Shaft Inches	Each	Outside Diameter Inches	Width Inches	Weight Ounces
3/8	\$.45	1 1/2	1/2	1 1/2
3/4	.50	1 3/4	3/4	2
3/4	.60	1 1/2	3/4	3
1	.70	1 3/4	3/4	3 1/2
1 1/4	.90	1 3/4	3/4	4
1 1/4	1.00	2	1 1/4	5 1/2
1 3/4	1.20	2 1/4	3/4	6 1/2
1 1/2	1.30	2 1/4	3/4	7
1 3/4	2.90	2 3/4	3/4	13
2	3.15	3	3/4	15



Exhaust Pipe FLANGES
CAST BRONZE



Fig. 214

For Pipe Inches	Inside Diameter Inches	Outside Diameter Inches	Weight Pounds			
2	2 ¹³ / ₃₂	4	1/2			
2 1/2	2 ²⁹ / ₃₂	4 1/2	1/2			
3	3 ¹⁷ / ₃₂	5 1/2	3/4			
3 1/2	4 ¹ / ₃₂	6	1			
				Burnished Each	Polished Bronze Each	Chromium Plated Each
2				\$2.25	\$3.25	\$3.50
2 1/2				2.75	4.00	4.50
3				3.75	5.00	5.50
3 1/2				3.80	5.50	6.00

Exhaust Tube FLANGES
CAST BRONZE



Fig. 738

For Tubing Inches	Inside Diam. Inches	Outside Diam. Inches	Weight Pounds			
2	2 ¹ / ₁₆	4	1/2			
2 1/2	2 ⁵ / ₁₆	4 1/2	1/2			
3	3 ¹ / ₁₆	5 1/2	3/8			
3 1/2	3 ⁵ / ₁₆	5 1/2	1/4			
4	4 ¹ / ₁₆	6	1/8			
				Burnished Each	Polished Bronze Each	Chromium Plated Each
2				\$1.50	\$2.75	\$3.00
2 1/2				2.45	3.50	3.75
3				3.00	4.25	4.50
3 1/2				3.90	5.00	5.50
4				4.00	5.50	6.00

Brass GREASE CUPS



Fig. 961

No.	Each	Height Closed Inches	Outside Diam. Inches	Pipe Thread Inches	Capacity Ounces
1	\$.50	1 ³ / ₁₆	3/8	1/8	1/4
2	.75	1 ³ / ₄	1 ³ / ₁₆	1/4	1/2
3	1.00	2	1 ³ / ₁₆	1/4	3/4

Gy-A-Liner ENGINE ALIGNERS

U. S. PATENT NOS. 2123484—2170690—2164615

A simple way to accurate engine alignment. "Gy-A-Liner" consists of leveling wedges made of cast iron. Designed for self adjustment with a few turns on the take-up bolts that anyone can do with accuracy.

Baked Enamel Finish—All Bolts Galvanized.

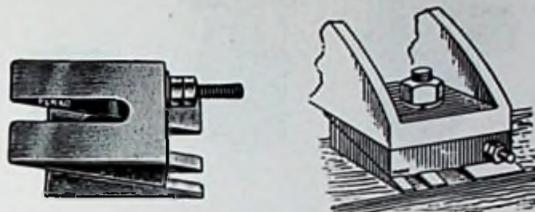


Fig. 1097

For use under motors having only single corner bed bolts. Can be used under intermediate propeller shaft bearings.

Each	Size Base Inches	Minimum Height Inches	Maximum Height Inches	For Engine Bolt Inches	Weight Pounds
\$2.50	2 1/2 x 2 1/2	3/8	1 3/16	1/2	3/4

"Perko" Zinc Marine OILERS

SPRING BRASS BOTTOM



Fig. 326

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

No.	Complete Per Gross	Extra Spouts Per Gross	Capacity Ounces	Diam. Inches	Weight Per Gross Pounds
3	\$136.00	\$42.00	8	4	40

Supplied with 4 or 6 inch spouts, please specify.

Improved Gasoline STRAINERS

CAST BRONZE HOUSING
WITH "KWICK KLEAN" FILTER ELEMENTS
AND CORPRENE GASKETS

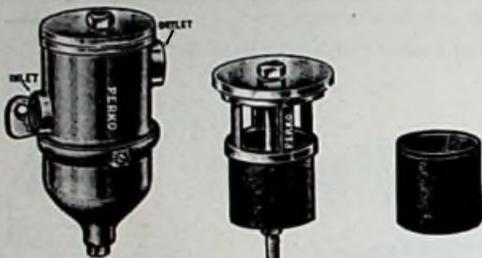


Fig. 299

The filter elements used are equivalent to 300 mesh screen cloth and are guaranteed to strain water from gasoline. They have a high flow rate, long life and are easy to clean. They can also be replaced in a few minutes by the removal of one nut. A soldering iron is not necessary.

Cover easily removed and the strainer removed for cleaning without disturbing pipe connections. Pipe plug in bottom for draining. Side bracket supports the strainer, relieving the fuel pipes of all weight.

Size No.	Complete Each	Spare Elements Each	Length Overall Inches	Diam. Inches	Tapped For Pipe Inches	Weight Pounds
1	\$12.00	\$.70	5½	2¾	¼ or ⅜	3¾
1½	15.00	.85	6¼	3¼	⅜ or ½	6
2	20.00	1.10	7¼	3¾	½ or ¾	8

Note—When ordering, be sure to specify pipe size, otherwise largest size shown will be supplied.

FLAME ARRESTERS

RUGGED CONSTRUCTION—LONG LIFE
REQUIRED BY LAW ON ALL MARINE
CARBURETOR INSTALLATION



Fig. 464

A Flame Arrester attached to the air inlet of the carburetor eliminates the possibility of a fire being caused by backfiring through the carburetor. A special element, consisting of curved plates, dissipates the heat and in this way fire does not extend through the flame arrester.

Size No.	Style No.	Each	Inside Diam. Inches	Dimensions of Top Inches	Height Overall Inches
1	C-175-11A	\$11.20	1¼	2¼ x 2¼	2
2	B-175-19	11.70	1¾	3¼ x 2¼	2½
3	B-175-19A	11.70	1½	3¼ x 2¼	2½
4	B-175-14	13.50	2¼	4¼ x 2¼	2½
5	B-175-12A	15.10	2¾	5¼ x 2¼	2½
6	B-175-12	15.10	2¾	5¼ x 2¼	2½
7	B-175-16	15.10	2¾	5¼ x 2¼	2½
8	B-175-13	18.60	3	5¼ x 3¼	2½
9	B-175-13A	18.60	3¼	5¼ x 3¼	2½

"Perko" Gasoline FILTERS

WITH "KWICK KLEAN" FILTER ELEMENTS
COPPER BOWL



Fig. 406

The filter element will strain water out of gasoline as it is equivalent to 300 mesh screen cloth. It is easy to clean, has high flow rate and long life.

The copper bowl and element can be quickly removed for cleaning by a few turns of the knurled nut illustrated.

No.	Complete Each	Spare Elements Each	Tapped for Pipe Inches	Height Overall Inches	Width Overall Inches	Weight Ounces
1	\$4.20	\$1.00	¼	4¼	2½	9½
2	4.20	1.00	¼	4¼	2½	9½

Gas Tank VENTS

CAST BRONZE
WITH FLANGED ELBOW

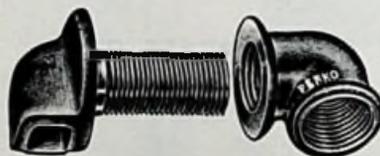


Fig. 503

A fitting designed for leading the gas tank vent outboard per recommendations of insurance underwriters.

No.	Plain Each	Chromium Plated Each	Pipe Size Inches	For Wood Inches	For Tanks Up To	Weight Ounces
1	\$3.20	\$4.20	¾	1¼	100 Gals.	8
2	3.20	4.20	½	1¼	100 Gals.	8



Intake Water STRAINERS
 CAST BRONZE
 MONEL METAL STRAINER
 TRANSPARENT LUCITE CYLINDER



Fig. 493

For installation between hull connection and water pump to the engine.

Lucite cylinders are difficult to break even when struck with hammer. Gaskets are corprene, (neoprene and cork) waterproof and resilient.

No.	Complete Each	Spare Cylinders Each	Spare Gaskets Each	Spare Strainers Each
1	\$20.00	\$ 3.85	\$.30	\$ 2.10
2	32.00	4.50	.40	3.15
3	33.50	4.50	.40	3.40
4	35.00	6.00	.40	3.70
5	44.00	9.50	.60	5.25
6	81.00	23.00	.60	14.75

No.	Pipe Size Inches	Size Cylinder Inches	Height Inches	Width Overall Inches	Weight Pounds
1	1/2	3 1/2 x 4	6	4 1/4	3 1/2
2	3/4	4 1/2 x 5	7 3/4	5 1/2	6 1/2
3	1	4 1/2 x 5 1/2	8 1/4	5 1/2	6 3/4
4	1 1/4	4 1/2 x 6	8 3/4	5 1/2	7
5	1 1/2	6 x 8	11 1/2	7	12
6	2	6 x 12	17 1/4	9	22

Height does not include top nut or drain plug.

Outboard FLUSHING NOZZLES
 ALUMINUM AND BRASS
 FOR INTERNAL FLUSHING OF LOWER UNIT IN OUTBOARD MOTOR

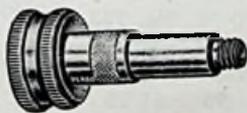


Fig. 179

The male threaded end is for attachment to all motors having flush plugs.

The female threaded end is for regular garden hose.

No.	Each	Size Thread	Length Overall Inches	Weight Ounces
1	\$1.50	3/8" x 16	2 1/8	1 1/2
2	1.95	3/8" x 16	2 3/4	2
3	1.50	1/4" Pipe	2	1 1/2
4	1.95	3/16" x 20	2 1/8	2

No. 1 for Johnson 25 H.P., Evinrude 14 and 25 H.P.
 No. 2 for Evinrude 15 H.P., Johnson 10 H.P.
 No. 3 for Evinrude 7 1/2 H.P. and others.
 No. 4 for Evinrude and Johnson 3 H.P. and others.

The Improved "ENGINE SAVER"
 Combination Intake Water Strainer
 and Rust Preventer

CAST BRONZE—WITH MOUNTING BRACKETS
 MONEL METAL STRAINER
 TRANSPARENT LUCITE CYLINDER
 FILLED WITH ANTI-RUST CRYSTALS

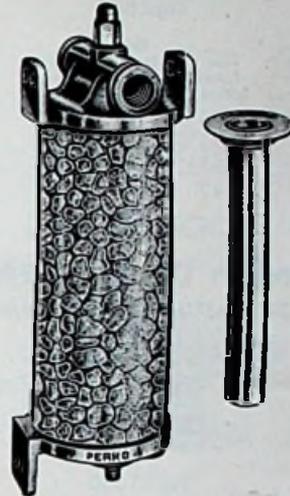


Fig. 494

For installation in the cooling system between the hull connection and pump or between pump and engine.

The cooling water (salt or fresh) passing through the "Engine Saver" slowly dissolves the crystals, creating a chemical solution which forms a very thin film on the inner surfaces of the cooling system (water jackets, manifolds etc.) protecting the metal from rust and assisting in the control of electrolysis.

The rate of crystal consumption is very small, as low as 2 pounds per year in the No. 2 size, depending upon the amount of use and temperature of the water.

The monel metal strainer is installed in tubular form, the full length of the lucite cylinder, giving extreme cubic area of filtering surface and effectively keeping foreign matter out of cooling system.

The brass tube illustrated is located inside of the monel strainer, same has been added to assure maximum solution as the water must pass into the lower end of the tube to reach the outlet.

Gaskets are of neoprene and cork. Castings are carefully machined against leakage.

No.	Motor H.P.	Complete Each	Spare Cylinders Each	Spare Gaskets Each	Spare Strainers Each
1	up to 60	\$37.00	\$ 7.00	\$.30	\$3.15
2	60 to 150	56.00	10.00	.40	5.00
3	60 to 150	58.00	10.25	.40	5.25
4	60 to 150	61.00	10.50	.40	5.50
5	150 to 200	84.00	14.50	.60	7.85

Anti-rust crystals, per pound \$1.50, in 1, 5 or 10 pound bags.

No.	Pipe Size Inches	Size Cylinder Inches	Height Inches	Width Overall Inches	Amount Crystals Used Pounds	Weight Complete Pounds
1	1/2	3 1/2 x 8 1/2	10 1/2	4 1/4	2	11
2	3/4	4 1/2 x 11	14	5 1/2	4 1/2	15 1/2
3	1	4 1/2 x 12	15	5 1/2	5	18
4	1 1/4	4 1/2 x 13	16	5 1/2	6 1/2	20
5	1 1/2	6 x 15	18 1/2	7	14 1/4	30

Height does not include top nut or drain plug.



Streamline CLEATS

ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 566

Length Inches	Chromium Plated Each	Size Base Inches	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Ounces
2	\$.65	2 x 1	3/8	7	25	1 1/4
3	1.00	2 3/4 x 1 3/4	3/8	8	25	2 1/2
4 1/2	1.65	4 3/8 x 1 3/4	3/8	10	10	6
6	2.50	5 1/2 x 2	3/4	12	5	11 1/2

Modern Design CLEATS

ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1250

Length Inches	Chromium Plated Each	Size Base Inches	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Ounces
3	\$1.25	1 1/2 x 1 1/4	3/8	8	25	2 1/2
4 1/2	1.60	1 7/8 x 1 1/2	1/2	8	10	8
6	2.50	2 1/4 x 2 1/4	3/4	10	5	13

Sturdy CLEATS

CAST BRONZE—HEAVY DUTY



Fig. 384

Length Inches	Polished Bronze Each	Chromium Plated Each	For Diam. Rope Inches	For Screw No.	Packed Per Box	Weight Pounds
4	\$1.85	\$3.00	1/4	8	5	1/2
5	2.80	3.90	3/8	8	5	3/4
6	3.40	4.70	3/8	10	5	1
8	5.90	7.90	3/4	1 1/2"		1 3/4

Flag Pole and Awning CLEATS



BRASS Fig. 564

GALVANIZED Fig. 927

Length Inches	Galv. Each	Brass Each	Chromium Plated Each	Weight Ounces
1 1/2		\$.28	\$.35	1/2
4 1/2	\$.12			7
6	.17			14

Open Base Boat CLEATS

GALVANIZED IRON OR CAST BRONZE



Fig. 544

Length Inches	Cast Iron Each	Mall. Iron Each	Polished Bronze Each	Chromium Plated Each	Galv. Weight Pounds
3 1/2	\$.24	\$.35			3/8
4	.26	.45			1/2
5	.40	.55	See Figure 544 A		3/8
6	.48	.80			1/2
8	.85	1.50	\$3.65	\$4.50	1 1/4
10	1.80	2.30	5.00	6.40	2 1/2
12	2.55	3.20	6.90	8.75	3 3/4
14	3.80	5.50			6 1/2
18	6.50	9.00			11 1/2

Galvanized cleats supplied in cast unless otherwise specified.

Solid Base Boat CLEATS

DROP FORGED BRONZE



Fig. 544-A

These have much greater strength than cast bronze cleats. The finish is finer (no sand holes). They polish and plate to smoothness and brilliance not probable with castings.

Length Inches	Polished Bronze Each	Chromium Plated Each	For Screw No.	Packed Per Box	Weight Ounces
3	\$1.10	\$1.45	8	25	2 1/2
4	1.30	1.80	10	25	4
5	1.75	2.30	14	10	5 1/2
6	2.10	2.85	14	10	8

Fender CLEATS

DROP FORGED BRONZE



Fig. 583

Length Inches	Dull Finish Each	Polished Bronze Each	Chromium Plated Each	Size Base Inches	For Screw No.	Weight Ounces
2 1/4	\$.60	\$.95	\$1.25	1 3/8 x 1	6	1 1/2

Packed 25 per box.

Fender CLEATS

ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1248

Length Inches	Chromium Plated Each	Size Base Inches	For Screw No.	Packed Per Box	Weight Ounces
2 1/4	\$.80	1 3/8 x 1	7	25	1 1/2



Hollow CLEATS
CAST BRONZE—CLOSED ENDS



Fig. 572

Length Inches	Polished Bronze Each	Chromium Plated Each	For Screw No.	Weight Pounds	Packed Per Box
4½	\$2.50	\$3.50	8	½	10
5½	2.75	3.85	8	¾	10
6½	3.10	4.30	10	¾	10
8	4.15	5.35	12	1¼	
10	7.50	8.70	¼"	2	
12	11.25	13.25	¼"	3	

Skene Bow CHOCKS

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1223

Per Pair	Length Overall Inches	Width Base Inches	For Diam. Rope Inches	For Screw No.	Packed Pairs Per Box	Weight Per Pair Ounces
\$1.75	3½	¾	¾	8	10	4

Ship CLEATS
CAST IRON—HEAVY



Fig. 511

Length Inches	Galv. Each	Size of Base Inches	Holes for Diam. Bolts Inches	Weight Each Pounds
8	\$2.20	4¼x2¾	¾	3
10	3.80	4¾x2½	½	5¼
12	6.20	6¾x3	¾	10
15	7.75	7¼x3½	¾	14
18	11.75	7½x4	¾	20¼
24	27.00	8½x4¾	¾	35

Bow CHOCKS
GALVANIZED OR BRONZE



Fig. 546

Lgth. Inches	Galv. Iron Per Pair	Polished Bronze Per Pair	Chrom. Plated Per Pair	Width Inches	For Diam. Rope Inches	Bronze For Screw No.	Wt. Per Pair Lbs.
3	\$.48	\$2.00	\$2.90	¾	½	8	¼
4	.52	2.35	3.40	¾	¾	10	½
5	.95	3.50	4.75	¾	¾	10	1
6	1.70	5.80	8.00	1	1	14	1½
8	2.60	9.50	12.00	1¼	1¼	14	3
10	4.25	17.00	23.25	1¾	1¾	¾"	5¾
12	12.00	25.50	31.50	2	1¼	¾"	11¾
15	27.25			3½	1¾		40

NOTE—3, 4 and 5 inch sizes are forged bronze.

Bronze packed per box—3" 25 pr., 4" 10 pr., 5 and 6" 5 pr.

Double Jam CLEATS
CAST BRONZE—POLISHED



Fig. 1030

No.	Length Overall Inches	Width Inches	For Screw No.	Weight Ounces	Packed Per Box
0	3	¾	6	2	25
1	4	½	7	3½	10
2	5	¾	8	5½	10

Straight Stern CHOCKS
GALVANIZED OR BRONZE



Fig. 119

Lgth. Inches	Galv. Iron Each	Polished Bronze Each	Chrom. Plated Each	Width Inches	For Diam. Rope Inches	Bronze For Screw No.	Wt. Each Lbs.
4	\$.32	\$1.30	\$1.80	¾	¾	8	¼
5	.50	2.00	2.60	1	¾	10	½
6	.75	2.75	4.00	1½	1	12	¾
8	1.55	5.00	7.00	1¾	1¼	14	1½
10	2.40	8.50	17.00	1¾	1½	¾"	2¼
12	4.50	14.00		2¾	1¾	¾"	7½
15	10.75			3¾	1¾		20
18	16.00			3½	2		31

NOTE—4 and 5 inch sizes are forged bronze.

Bronze, packed per box—4, 5 and 6 inch, 10 pieces.

Automatic Jam CLEATS
CAST BRONZE—POLISHED

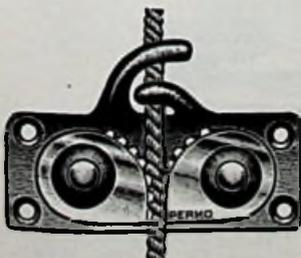


Fig. 895

No.	For Rope Inches	Size Base Inches	For Screw No.	Wt. Ozs.
1	¼-¾	3½x1½	8	10
2	¾-½	5¼x1¾	10	18



Streamline CHOCKS

FOR BOW OR STERN
ZAMAK DIE CASTINGS—CHROMIUM PLATED



Fig. 1240

The bow line can pass through these chocks at the usual angle without wear as the vertical part of each jaw is rounded for that purpose.

Per Pair	Length Inches	Extreme Width Inches	For Diam. Rope Inches	For Screw No.	Weight Ounces	Packed Pairs Per Box
\$2.75	4	1	1/2	10	3 1/2	10

Modern Design Bow CHOCKS
ZAMACK DIE CASTINGS—CHROMIUM PLATED



Fig. 1251

Per Pair	Length Overall Inches	Width Base Inches	For Diam. Rope Inches	For Screw No.	Weight Per Pair Ounces	Packed Pairs Per Box
\$2.90	3 3/4	3/4	1/2	8	8 1/2	10

Skene Stern CHOCKS

CAST BRONZE



Fig. 161

Size No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Opening Inches	Weight Each Pounds
11	\$ 1.75	\$ 2.60	4	3/8	3/4	1/2
12	3.15	4.30	5 3/4	1 1/4	1	1
13	5.75	7.35	7	1 3/8	1 3/4	2
14	11.50	14.00	9	2 1/2	1 3/4	4

Skene Bow CHOCKS

CAST BRONZE

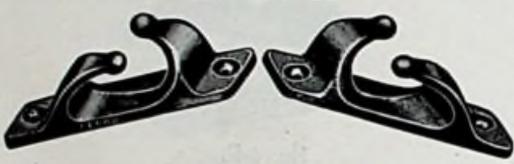


Fig. 160

Size No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Inches	Opening Inches	Weight Per Pair Pounds
1	\$ 4.00	\$ 6.00	4 1/2	3/8	3/8	3/4
2	5.75	8.00	5 5/8	1 1/8	3/8	1 1/2
3	12.00	14.25	7 1/4	1 1/2	1	4
4	15.00	18.50	8	1 1/2	1 1/8	5 1/2
5	21.50	25.50	10	1 3/4	1 3/8	8 1/2

Skene Bulwark Stern CHOCKS

CAST BRONZE



Fig. 752

Length Inches	Polished Bronze Each	Chromium Plated Each	For Diam. Rope Up to Inches	Thickness of Rail Inches	Height Inches	Weight Each Pounds
6	\$7.50	\$10.20	1 1/4	1 1/2	2 3/4	2

Skene Bulwark Bow CHOCKS

CAST BRONZE

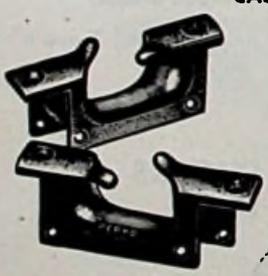


Fig. 751

Length Inches	Polished Bronze Per Pair	Chromium Plated Per Pair	Weight Per Pair Pounds
6	\$10.50	\$15.50	2 3/4
7	15.50	19.75	4 1/4

Bulwark Bow CHOCKS

CAST BRONZE

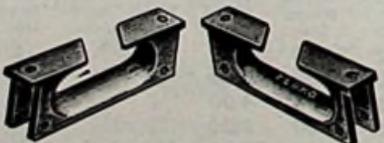


Fig. 768

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$15.00	\$19.00	10	1	1 1/4	1
2	19.00	23.00	11 1/4	1 1/4	2 1/4	1 1/4
3	23.00	28.50	11 1/4	1 1/2	2 1/2	1 1/2

Bulwark Stern CHOCKS

CAST BRONZE



Fig. 769

No.	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Overall Inches	Height Inches	Size of Rope Inches
1	\$10.00	\$12.00	9 1/4	1 3/8	2 3/4	1 1/2
2	11.50	14.00	11 1/2	1 3/4	3	1 3/4



Mooring BITTS

CAST BRONZE
ROUND POST—ROUND BASE
POST TAPERED TO HOLD LINE AT BOTTOM
ROUND TO PREVENT WEAR ON LINE

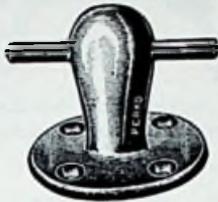


Fig. 597

No.	Polished Each Bronze	Chromium Plated Each	Diam. Base Inches	Height Inches	For Screw No.	Weight Pounds
1	\$5.25	\$6.75	2 3/8	2 3/8	10	3/4
2	6.50	8.00	3 3/8	3 3/8	14	1 1/2

Mooring BITTS
CAST BRONZE

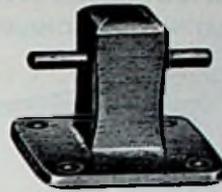


Fig. 608

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Screw No.	Weight Pounds
1	\$6.35	\$8.35	3 x 3	2 1/2	10	3/8
2	8.80	11.30	4 1/4 x 4 1/4	3 1/2	14	1 1/8
3	17.50	21.50	6 x 6	5	3/8"	4 1/2
4	27.50	32.50	7 x 7	6 1/2	1/2"	12

Riding BITTS
GALVANIZED CAST IRON



Fig. 926

No.	Each	Height Inches	Size Base Inches	Weight Pounds
01	\$5.25	5 3/4	3 1/2 x 3 1/2	4
1	6.30	6 3/4	5 x 5	6
1 1/2	9.45	8 3/4	5 1/2 x 5 1/2	9
2	18.50	10	5 1/2 x 7 1/2	18

Comb. BITT and Rope DECK PIPES
CAST BRONZE



Fig. 431

A hollow one piece casting of minimum weight but maximum strength. An opening in one side of bitt to allow rope to be stored below deck but always ready for use.

No.	Polished Bronze Each	Chromium Plated Each	Size Base Inches	Height Inches	For Diam. Rope Inches	Weight Pounds
2	\$ 9.50	\$12.00	4 1/4 x 4 1/4	3 1/2	3/4	1 1/4
3	18.25	22.25	6 x 6	5	1	4

No. 2 Drilled for 1/4 inch bolt.
No. 3 Drilled for 3/8 inch bolt.

Silent Sheet Snubbing WINCH
CAST BRONZE

NOISELESS IN OPERATION—NO SPRING
NO RATCHET—NOTHING TO GET OUT OF ORDER—ONE WAY ACTION IS POSITIVE



Fig. 937

No.	Height Inches	Diam. Top Inches	Diam. Base Inches	Wt. Ozs.
0	2 1/8	1 7/8	2	7
01	2 3/4	2 1/8	2	9

No.	Polished Bronze Each	Chromium Plated Each
0	\$6.75	\$8.50
01	7.00	8.75

Rope DECK PIPES
GALVANIZED CAST IRON OR CAST BRONZE



Fig. 741

No.	For Diam. Rope Inches	Inside Diam. Inches	Diam. Flange Inches	Height Above Deck Inches	Weight Pounds
0	3/8	1 1/4	3	1 3/8	3/4
1	3/4 & 1	1 3/4	4 1/4	1 3/4	1 1/4
2	1 1/4	2 1/8	4 5/8	1 7/8	1 1/4

No.	Galvanized Each	Chromium Plated Each
0	.....	\$ 5.50
1	\$2.75	11.50
2	4.00	15.25

All sizes Drilled for No. 8 F.H. screw.

Anchor LIFT LEADERS
GALVANIZED MALLEABLE IRON



Fig. 483

For attaching to bow of boat. The sheave projects over the stem. These are very handy for raising or dropping anchor.

Each	For Diam. Rope Inches	Size Sheave Inches	Length Overall Inches	Length Plate Inches	Weight Pounds
\$2.10	3/8	2 x 1/2	7 1/2	4 1/2	1 1/4



**MODERN DESIGN
MATCHED HARDWARE**

ZAMAK DIE CASTINGS—CHROMIUM PLATED



CLEAT
Fig. 1250



BOW CHOCKS
Fig. 1251



TRANSOM HANDLE
Fig. 1254



BOW HANDLE
Fig. 1253



BOW HANDLE with EYE
Fig. 1269

CLEATS and CHOCKS

Figs.	Each	Per Pair	Length Inches	Packed Per Box
1250	\$1.25		3	25
1250	1.60		4½	10
1250	2.50		6	5
1251		\$2.90	3¾	10 Pr.

NOTE—For other details

Fig. 1250 See Page 120

Fig. 1251 See Page 122

HANDLES

Figs.	Each	Length Base Inches.	Height Above Deck Inches	For Screw No.	Wt. Oz.	Packed Per Box
1253	\$3.95	11¾	2	10	19	5
1254	2.00	5¾	1¾	8	7	10
1269	3.95	11¾	2	10	18	5

Streamline BOW HANDLE
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1238

An extremely good looking bow handle for small boats. A practical grab handle for cabin boats.

Chromium Plated Each	Length Overall Inches	Height Above Deck Inches	For Screw No.	Weight Ounces	Packed Per Box
\$3.60	13¾	1¾	8	14	5

Streamline BOW HANDLE
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1244

Combining good looks and practicability, a fine bow handle for small boats or grab handle for cruisers.

Chromium Plated Each	Length Base Inches	Height Above Deck Inches	For Screw No.	Weight Ounces	Packed Per Box
\$2.75	12	1¾	8	13	5

BOW HANDLE

ZAMAK DIE CASTINGS—CHROMIUM PLATED

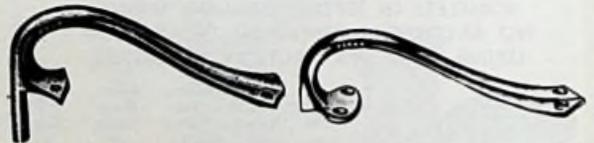


Fig. 1221

Fig. 1234

Chromium Plated Each	Length Overall Inches	Height Above Deck Inches	For Screw No.	Weight Ounces	Packed Per Box
\$2.00	6½	2	8	5½	10

BOW HANDLE
CAST BRONZE OR ALUMINUM



Fig. 363

Polished Bronze Each	Chromium Plated Each	Polished Aluminum Each	Length Overall Inches	Height Above Deck Inches	For Screw No.	Bronze Wt. Ozs.
\$2.80	\$3.50	\$2.50	6½	2	8	9

Packed 10 pieces per box.



**Round Grip
TRANSOM HANDLE**

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1231

Extra strong for heavy boats. The round grip has no sharp edges and is ample to accommodate a man size hand.

Each	Length Overall Inches	Length Inside Inches	Height Inside Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.35	6	3½	1¾	10	7¼	10

TRANSOM HANDLE

ZAMAK DIE CASTING—CHROMIUM PLATED

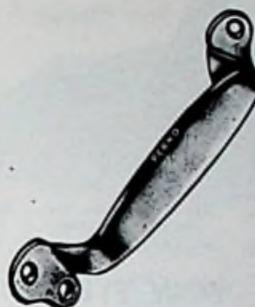


Fig. 1229

Will not hurt the hand, no sharp edge, grip is of proper angle to fit comfortably.

Chromium Plated Each	Length Overall Inches	Length Inside Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.00	5¼	3½	6	2½	10

TRANSOM HANDLES

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1222

Chromium Plated Each	Length Overall Inches	Length Inside Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.00	5¼	3¾	8	3½	10

TRANSOM HANDLE

GALV. MALL. IRON OR CAST BRONZE



Fig. 361

Galv. Each	Burnished Bronze Each	Chromium Plated Each	Length Overall Inches	Size Opening Inches	Weight Ounces
\$.80	\$1.20	\$2.50	6½	3¼x1½	8

Drilled for No. 8 Screw.

Packed 10 pieces per box.

TRANSOM HANDLES

CAST BRONZE



Fig. 775

No.	Polished Bronze Each	Chromium Plated Each	Length Overall Inches	Length Inside Inches	For Screw No.	Weight Ounces
1	\$.90	\$1.10	4¼	2¾	6	2
2	1.50	1.70	5¾	3¾	8	4

Size No. 2 is U. S. Govt. Type No. 1274.

Packed 10 pieces per box.

BOAT COVER SOCKETS

ZAMAK DIE CASTING—CHROMIUM PLATED

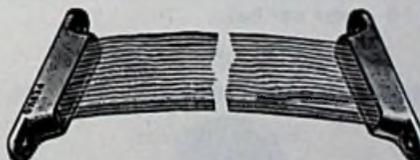


Fig. 578

An excellent item for preventing or eliminating sag in boat cover.

Sockets will accommodate a piece of wood lattice ¾ inches thick and up to 1¾ inches wide. Cut the lattice a few inches longer than the boat's width to obtain a low arch under the cover.

Per Pair	Length Overall Inches	Size Opening Inches	Width Overall Inches	For Screw No.	Weight Per Pair Ounces
\$1.00	3¼	1½x¾	¾	8	2

Packed 25 pairs per box.

HANDLES

FOR BOW OR TRANSOM
CAST BRONZE OR ALUMINUM



Fig. 186

Length Overall Inches	Height Inches	Width Base Inches	Size Opening Inches	For Screw No.	Weight Ounces
6¾	2	1¼	3¾x1½	8	
Polished Bronze Each	Chromium Plated Each	Polished Aluminum Each	Bronze Weight Ozs.	Packed Per Box	
\$2.85	\$3.25	\$2.85	12	10	



BOW PLATES
CAST BRONZE



Fig. 181

Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Diam. Eye Inches	For Screw No.	Weight Ounces
\$3.50	\$4.00	4 1/4 x 4 3/4	3/4	10	10

BOW EYES
CAST BRONZE



Fig. 303

No.	Metal In Eye inches	Length of Straps inches	Extreme Length inches	I.D. Eye inches	For Screw No.
1	3/8	1 3/4	3	3/4	8
2	1/2	2 1/2	3 3/4	3/4	8
No.	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Weight Ounces	Packed Per Box
1	\$.85	\$1.45	\$1.90	3 1/2	5
2	1.00	1.85	2.30	5	5

BOW RINGS
DROP FORGED BRONZE
EXTRA STRONG SHANK



Fig. 238

For towing or mooring small boats. Points under shoulder prevent turning or twisting of eye.

Ultimate Breaking Strain—3600 Lbs.

No.	Dull Bronze Each	Chromium Plated Each	I.D. Eye Inches	Lgh. Shank Inches	Diam. Shank Inches	Weight Ounces
1	\$1.30	\$1.80	1	3 1/4	3/8	5 1/2
2	1.90	2.40	1	6	3/8	7

Packed 10 pieces per box.

RING ON PLATE
CAST BRONZE—STREAMLINE PATTERN



Fig. 182

No.	Polished Bronze Each	Chromium Plated Each	Length Base Inches	Width Base Inches	Size of Ring Inches	Weight Ounces
1	\$1.95	\$2.45	2 3/4	1 1/2	3/4 x 1 1/4	2 3/4
2	2.45	2.95	3 1/4	1 3/4	3/2 x 1 3/4	3 1/2

Drilled for No. 8 Screw.

Packed 10 pieces per box.

RING ON PLATE
GALVANIZED DROP FORGED STEEL



Fig. 607

No.	Galvanized Each	Size Ring Inches	Size Plate Inches	For Screw No.	Weight Per 100 Pounds
1	\$1.10	3/4 x 1 1/2	2 1/8 x 2 1/8 x 1/4	12	33
2	1.35	3/8 x 2	2 1/8 x 2 1/8 x 1/4	12	50

RINGS WITH STRAPS
GALVANIZED MALLEABLE IRON
OR CAST BRONZE—HEAVY PATTERN



Fig. 1020

No.	Galvanized Each	Burnished Bronze Each	Chromium Plated Each	Size Strap Inches	For Screw No.
1	\$.80	\$1.05	\$2.00	4 1/4 x 3/4	8
2	.90			4 1/8 x 3/4	8

Galv. ring, No. 1, 3/4 x 1 1/4. No. 2, 3/8 x 1 3/8 inches.

Bronze ring, No. 1, 1/4 x 1 1/2 inches.

Galv. weight, No. 1, 4 1/2 ounces, No. 2, 4 3/4 ounces.

Packed 10 pieces per box.

RINGS



POLISHED BRASS

Fig. 417

Inside Diam. Inches	Thick-ness Inches	Per Dozen	Inside Diam. Inches	Thick-ness Inches	Per Dozen
1/2	3/32	\$1.35	1 1/4	3/16	\$3.25
5/8	3/32	1.50	1 1/2	3/16	4.45
3/4	3/32	1.75	1 3/4	3/16	6.10
7/8	3/32	2.15	2	1/4	7.15
1	3/32	2.60	2 1/2	3/16	9.25

GALVANIZED WROUGHT STEEL

Fig. 849

Size Inches	Per 100	Size Inches	Per 100	Size Inches	Per 100
1/4 x 2	\$18.25	3/4 x 1 1/2	\$19.95	3/4 x 3 1/2	\$47.20
1/4 x 2 1/2	20.90	3/8 x 2	23.75	1/2 x 3	44.90
1/4 x 3	24.50	3/8 x 2 1/2	28.70	1/2 x 3 1/2	105.30
1/4 x 3 1/2	27.40	3/8 x 2	31.40	1/2 x 4	112.80
1/4 x 4	33.50	3/8 x 2 1/2	36.20	1/4 x 5	131.40
		3/8 x 3	42.20	1/2 x 6	155.20

Sizes are thickness of metal and inside diameter.



STEP PLATES

ZAMAK DIE CASTING—CHROMIUM PLATED
WITH BLACK OR WHITE MOULDED
RUBBER STEP PADS



Fig. 1225

No.	Black Complete Each	White Complete Each	Frame Only Each	Overall Dimensions Inches	For Screw No.	Weight Ounces
0	\$1.50	\$1.60	\$1.15	8 x 2 1/4	4	6
1	2.35	2.50	1.55	8 3/4 x 3 3/4	6	8
2	3.25	3.40	2.25	11 1/2 x 5 3/4	8	12

Black supplied unless otherwise specified.

Packed per box—Nos. 0 and 1, 10 pieces. No. 2, 5 pieces.

STEP PLATES

CAST BRONZE FRAME—CHROMIUM PLATED
WITH BLACK OR WHITE MOULDED
RUBBER STEP PADS



Fig. 1043

No.	Black Complete Each	White Complete Each	Frames Only Each	Overall Dimensions Inches	For Screw No.	Weight Pounds
1	\$4.80	\$4.95	\$4.00	8 3/4 x 3 3/4	6	3/4
2	6.50	6.65	5.50	11 1/2 x 5 3/4	8	1 3/4

Black supplied unless otherwise specified.

Packed per box—No. 1, 10 pieces. No. 2, 5 pieces.

Rubber PADS Only
BLACK OR WHITE

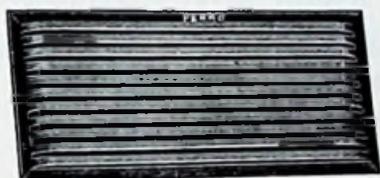


Fig. 1050

No.	Black Each	White Each	Length Inches	Width Inches	Thickness Inches	Weight Ounces
0	\$.40	\$.50	7 1/4	1 1/8	1/4	2
1	.80	.95	8	2 1/2	3/8	3 3/4
2	1.00	1.15	11	5	5/8	8 1/4

Black supplied unless otherwise specified.

Packed 10 pieces per box.

Utility Rubber STEP PLATES
HEAVY CORRUGATED

BLACK OR WHITE RUBBER WITH
BRASS, CHROMIUM PLATED FRAME



Fig. 1044—Plain

No.	Black Each	White Each	Overall Dimensions Inches	Weight Pounds
3	\$4.20	\$4.35	8 1/2 x 3 1/2	1/2
4	4.80	5.40	10 x 4	3/4
5	5.85	6.45	13 x 5	1
6	6.30	7.65	17 x 6	1 1/2
7	6.75	8.70	18 x 7	2
8	8.40	9.40	20 x 8	2 1/2
9	5.85	7.20	12 x 8	1 1/2
10	7.20	9.15	15 x 10	2 1/4

Black supplied unless otherwise specified.

“SAV-OR”

COMBINATION OAR SLEEVE AND STOP
BLACK MOULDED NATURAL RUBBER



Fig. 648

An excellent item for adding years of life to a pair of oars plus noiseless operation when fishing. Also serves as a sleeve for outrigger or fishing pole socket.

Fits snugly to shape of oar yet easy to attach.

Inside diameter is tapered from 1 1/2 inches at small end to 1 3/4 inches at large stop end.

Per Pair	Length Inches	Outside Diameter Stop Inches	Thickness Stop Inches	Weight Per Pair Ounces
\$2.75	9	3	3/4	13

OAR LEATHERS and BUTTONS
RUSSET LEATHER



Fig. 233

A high grade russet leather and button.

	Per Pair
Complete, Leathers and Buttons	\$1.50
Leathers Only—7x6 1/2 Inches	1.25
Buttons Only—1/2x13 Inches	.25



Ribbed Socket ROWLOCKS
GALVANIZED—CAST IRON



Fig. 638

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$.95	\$.55	\$.42	1 3/4	1 1/8
1	1.00	.58	.42	2	1 1/4
2	1.40	.85	.55	2 1/2	1 3/4

Standard Socket ROWLOCKS
GALVANIZED MALLEABLE IRON



Fig. 639

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$1.42	\$1.00	\$.42	1 3/4	1 1/8
1	1.57	1.15	.42	2	1 1/4
2	2.40	1.60	.75	2 1/2	1 3/4
3	3.40	2.50	.90	2 1/2	2 5/8

North River ROWLOCKS
WITH STANDARD SOCKET
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1227

No.	Chromium Plated Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Ounces
0	\$3.20	\$1.85	\$1.35	1 3/4	15

North River ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 643



Fig. 644

Fig.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
643 Galv.	\$1.82	\$1.45	\$.42	2 1/8	1 1/2
644 Galv.	2.35	1.45	.90	2 1/8	1 1/2
643 Pl. Bronze	3.00	2.10	.90	2 1/8	1 1/2
644 Pl. Bronze	3.70	2.10	1.60	2 1/8	1 1/2
643 Pol. Bronze	5.10	3.60	1.60	2 1/8	1 1/2
644 Pol. Bronze	6.35	3.60	2.75	2 1/8	1 1/2
643 Chrom. Pltd.	7.20	4.80	2.40	2 1/8	1 1/2
644 Chrom. Pltd.	8.40	4.80	3.60	2 1/8	1 1/2

Hole in horn shank for chain not included.

North River ROWLOCKS
WITH FANCY SIDE PLATE
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 652

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Galv.	\$2.65	\$1.45	\$1.20	2 1/8	1 1/2
1 Pl. Bronze	4.00	2.10	1.90	2 1/8	1 1/2
1 Pol. Bronze	7.00	3.60	3.40	2 1/8	1 1/2
1 Chrome Pltd.	9.00	4.80	4.20	2 1/8	1 1/2

North River ROWLOCKS
WITH SIDE PLATE SOCKET
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1228

No.	Chromium Plated Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Ounces
0	\$3.85	\$1.85	\$2.00	1 3/4	18

BRASS SAFETY CHAIN FOR ROWLOCKS, \$.45 PER PAIR
NOTE—ALL ABOVE HORNS AND SOCKETS ARE INTERCHANGEABLE.



Boston Side Plate ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 646

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$2.15	\$1.00	\$1.15	1 1/4	1 1/4
1 Galv.	2.35	1.15	1.20	2	1 1/2
0 Pl. Bronze	3.85	1.95	1.90	1 3/4	1 1/4
1 Pl. Bronze	3.95	2.05	1.90	2	1 1/2
0 Pol. Bronze	6.60	3.20	3.40	1 3/4	1 1/4
1 Pol. Bronze	6.80	3.40	3.40	2	1 1/2
0 Chrome Pltd.	8.40	4.20	4.20	1 3/4	1 1/4
1 Chrome Pltd.	8.60	4.40	4.20	2	1 1/2

Side Plate ROWLOCKS
CAST BRONZE



Fig. 645

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
1 Pl. Bronze	\$4.45	\$2.85	\$1.60	2	1 1/4
1 Pol. Bronze	6.85	4.10	2.75	2	1 1/4
1 Chrome Pltd.	8.65	5.10	3.55	2	1 1/4

Davis Pattern ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 641

Size No.	Galv. Per Pair	Plain Bronze Per Pair	Polished Bronze Per Pair	Chromium Plated Per Pair	Opening Inches	Weight Per Pair Pounds
0	\$2.60				1 3/4	2
1	2.95	\$5.00	\$7.90	\$9.90	2	2
2	3.85				2 1/4	2 3/4

Boston Socket ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 545

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Opening Inches	Weight Per Pair Pounds
0 Galv.	\$1.42	\$1.00	\$.42	1 3/4	3/8
1 Galv.	1.57	1.15	.42	2	1
0 Pl. Bronze	2.85	1.95	.90	1 3/4	3/8
1 Pl. Bronze	2.95	2.05	.90	2	1
0 Pol. Bronze	4.70	3.20	1.50	1 3/4	3/8
1 Pol. Bronze	4.90	3.40	1.50	2	1
0 Chrome Pltd.	6.50	4.20	2.30	1 3/4	3/8
1 Chrome Pltd.	6.70	4.40	2.30	2	1

Round Socket ROWLOCKS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 642

Size No.	Complete Per Pair	Horns Only Per Pair	Sockets Only Per Pair	Inside Diam. Inches	Weight Per Pair Pounds
0 Galv.	\$1.47	\$1.05	\$.42	2	1 1/8
1 Galv.	1.67	1.25	.42	2 1/4	1 1/4
2 Galv.	2.20	1.45	.75	2 1/2	1 1/2
1 Pl. Bronze	3.40	2.50	.90	2 1/4	1 1/4
1 Pol. Bronze	5.95	4.45	1.50	2 1/4	1 1/4
1 Chrome Pltd.	7.75	5.45	2.30	2 1/4	1 1/4

Copper OAR and PADDLE TIPS



Fig. 794



Fig. 788

Fig. 794 Oar Tips—Per Pair \$.50
Fig. 788 Paddle Tips—Each30

NOTE—ALL ABOVE HORNS AND SOCKETS EXCEPT FIG. 641 ARE INTERCHANGEABLE



"Neptune" BATTERY BOX

MOLDED FIBRE GLASS
For 6 or 12 Volt Storage Battery

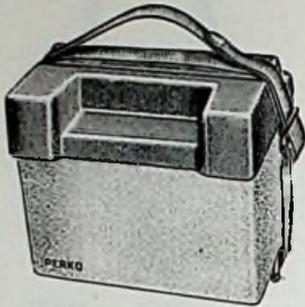


Fig. 703

An attractive and practical battery box or carrying case.
Acid resistant, protects battery from dirt, oil or water.
Has high impact strength.

Designed primarily to fit Model 2 SM 12 volt storage batteries but will fit many other sizes.

Color is white with aqua-marine cover but color can be changed to suit by application of outboard motor spray paint.

Supplied complete with web strap and hold-down eyes.

Complete Each	Strap Only Each	Eyes Only Each	Height With Cover Inches	Length Inside Inches	Width Inside Inches	Weight Pounds
\$10.50	\$1.50	\$.20	10	10 $\frac{1}{2}$	7 $\frac{1}{4}$	4 $\frac{1}{4}$

BATTERY CONTAINER

FOR 6 VOLT "HOT SHOT" BATTERY
GALVANIZED SHEET STEEL WITH
HEAVY GAUGE WROUGHT STEEL BRACKETS



Fig. 713

This container is designed for fastening to the under side of a seat, out of the way. It fits the 6 volt battery perfectly and has a rubber grommetted exit for the wires.

Supplied complete with two bronze $\frac{1}{4}$ " x $1\frac{1}{2}$ " carriage bolts with wing nuts.

Each	Length Box Inches	Width Box Inches	Depth Box Inches	Weight Pounds
\$4.90	10 $\frac{1}{2}$	7 $\frac{3}{4}$	2 $\frac{1}{4}$	2 $\frac{1}{4}$

BATTERY BOX

GALVANIZED SHEET STEEL
WITH GALVANIZED WROUGHT STEEL
HOLDING BRACKETS
FOR 6 VOLT STORAGE BATTERY



Fig. 712

To accommodate the wet storage battery necessary for outboard motors with electric self starters.

Has friction tight cover and opening for battery cable.

Each	Length Inside Inches	Width Inside Inches	Depth Inside Inches	Weight Pounds
\$9.50	9 $\frac{1}{2}$	7 $\frac{1}{2}$	10 $\frac{1}{2}$	4 $\frac{1}{4}$

FENDER HOOKS

GALV. MALLEABLE IRON OR FORGED BRONZE



Fig. 547

No.	Galv. Each	Dull Bronze Each	Chromium Plated Each	For Rope Diam. Inches	Size Plate Inches	Weight Ounces
1	\$.32	\$.50	\$1.10	$\frac{3}{8}$	1 $\frac{1}{4}$ x1 $\frac{1}{4}$	1 $\frac{1}{4}$
2	.72	.85	1.50	$\frac{1}{2}$	2 $\frac{1}{4}$ x1 $\frac{3}{4}$	2 $\frac{3}{4}$

No. 1 for No. 6 screw, packed 25 per box.

No. 2 for No. 8 screw, packed 10 per box.

FENDER HOOKS

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1246

Chromium Plated Each	For Rope Diameter Inches	Size Plate Inches	For Screw No.	Packed Per Box	Weight Ounces
\$-.70	$\frac{3}{8}$	1 $\frac{1}{4}$ x1 $\frac{1}{4}$	6	25	1 $\frac{1}{4}$



TRANSOM PLATES
FOR OUTBOARD MOTORS
ZAMAK DIE CASTING—CHROMIUM PLATED
WITH LEATHER PADS



Fig. 1224

Per Pair	Length Overall Inches	Inside Diameter Inches	For Screw No.	Weight Per Pair Ounces	Packed Pairs Per Box
\$1.00	3 3/8	1 3/4	7	2 3/4	25

FORGED BRONZE—WITH LEATHER PADS



Fig. 814

Dull Finish Per Pair	Chromium Plated Per Pair	Outside Diameter Inches	Inside Diameter Inches	For Screw No.	Weight Per Pair Ounces
\$1.40	\$2.00	3	1 3/4	6	7

Packed 25 pairs per box.

Rubber CLAMP PADS
NEOPRENE—WITH REINFORCING DISC

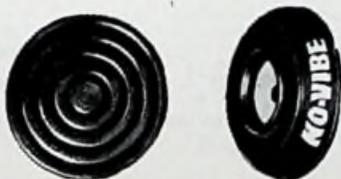


Fig. 171

Attaches to motor clamp, cushions noise and vibration. Fits all motors.

Per Pair	Diameter Inches	Weight Per Pair Ounces
\$3.00	2 1/2	6 1/2

Outside TRANSOM PLATES
FOR OUTBOARD MOTORS
WROUGHT ALUMINUM



Fig. 185

Protects outside of transom. Fits all motors.

Each	Height Inches	Width Top Inches	Width Bottom Inches	For Screw No.	Weight Ounces
\$1.75	9	10 3/4	8	8	5 1/2

TRANSOM PLATES
FOR OUTBOARD MOTORS
ALUMINUM—PLAIN

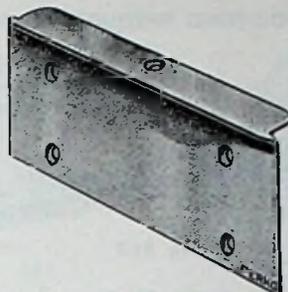


Fig. 739

Has angle flange to protect top of transom and lip on inboard side to keep motor from jumping off if clamps become loose.

No.	Each	Dimensions of Plate Inches	Angle Flange Inches	For Screw No.	Weight Ounces
1	\$2.00	10 x 4	1	8	7
2	2.50	8 1/4 x 3 3/4	3/4	8	9

Size No. 1 is wrought aluminum and large enough for 25 H.P. motor.

Size No. 2 is cast aluminum.

Rubber TRANSOM PAD
FOR OUTBOARD MOTORS
NEOPRENE—IN VARIOUS COLORS



Fig. 172

Reduces noise and vibration. Protects both sides of transom. Fits all sizes and models of O.B. motors. Colors are black, red, white, blue or green.

Black Each	Other Colors Each	Extreme Width Inches	For Screw No.	Weight Pounds
\$2.75	\$3.00	10 1/2	8	1 1/2

DRIP PAN
POLYETHYLENE—SILVER TONE FINISH



Fig. 173

Catches overflow of gas and oil from motor, also serves as a tool or parts shelf. Back is formed to fit over bracing knee.

Lightweight - Unbreakable
Fits all sizes and models of motors.

Each	Width Overall Inches	Height Overall Inches	Extends Inches	For Screw No.	Weight Ounces
\$3.00	11 1/4	4 3/4	4 1/2	10	12



Water Ski TOWING HOOKS

ALL BRASS—CHROMIUM PLATED
FOR MOUNTING THROUGH TRANSOM

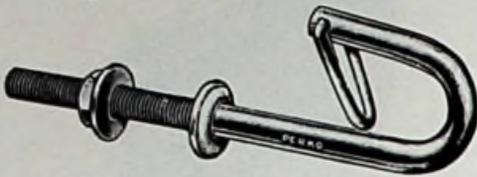


Fig. 862

For fast and full power get-away it is best to have towing line attached as low as possible to transom of boat, this hook answers that problem.

The vertical link prevents escape of line when skier is alongside.

Each	Length Overall Inches	Length Thread Inches	Diameter Metal Inches	Packed Per Box	Weight Ounces
\$3.25	7	3 1/8	3/8	5	7

Water Ski TOWING HOOKS

CAST BRONZE

These strong hooks securely attached to the port and starboard knees are just the thing for towing skiers, aquaplanes or boats.

WITHOUT LINK



Fig. 817

Burnished Each	Chromium Plated Each	Length Overall Inches	Width Inches	For Screw No.	Packed Per Box	Weight Pounds
\$2.10	\$3.15	3	1 1/4	12	5	1/2

WITH LINK

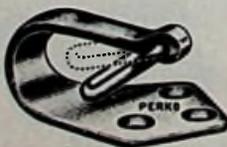


Fig. 861

Link prevents tow line from jumping out. This unit also serves as a chock or hook for dock line.

Chromium Plated Each	Length Overall Inches	Width Overall Inches	For Screw No.	Packed Per Box	Weight Pounds
\$3.60	3 1/4	1 1/4	12	5	1/2

Water Ski TOWING LINES

MANILA OR POLYETHYLENE ROPE
HARDWOOD HANDLE—PAINTED YELLOW
YELLOW FLOAT ON MANILA LINE

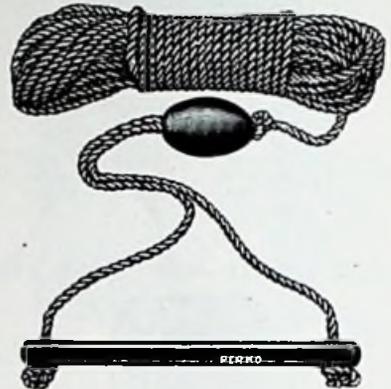


Fig. 755

MANILA LINE

Made of 3/32 inch diameter first grade with blue marker throughout, all spliced and complete with yellow float.

- 70 foot with single handle each \$4.25
- 85 foot with double handles each 5.25

POLYETHYLENE LINE

Made of 1/4 inch diameter high tenacity with one blue and two yellow strands, 900 pounds breaking strength. All spliced. No float necessary as the line floats and is very visible.

- 70 foot with single handle each \$7.20
- 85 foot with double handles each 8.50

All towing lines packed in individual polyethylene bags.

Rear View MIRROR

CURVED GLASS—WIDE VISION
CHROMIUM PLATED METAL PARTS

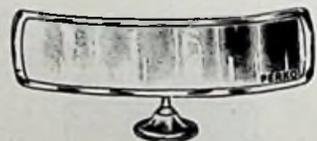


Fig. 400

As water traffic increases and water skiing becomes more popular the need for a good wide vision mirror becomes greater. Here it is.

Adjustable to various angles required.

Each	Length Mirror Inches	Height Mirror Inches	Height Overall Inches	Diameter Base Inches	Weight Ounces
\$7.25	11	2 1/4	4 1/2	2 3/8	11



Streamline Base FLAG POLE SOCKETS

ZAMAK DIE CASTINGS—CHROMIUM PLATED

FLUSH TYPE

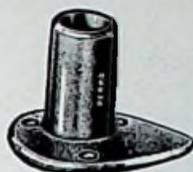
UPRIGHT TYPE



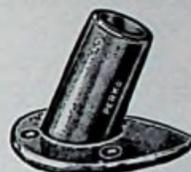
Bow
Fig. 1258



Stern
Fig. 1259



Bow
Fig. 342



Stern
Fig. 343

Fig.	Each	Inside Diam. Inches	Size Base Inches	Depth Socket Inches	Weight Ounces	Fig.	Each	Inside Diam. Inches	Size Base Inches	Height Overall Inches	Weight Ounces
1258	\$1.25	3/4	3x2 1/2	2	4 1/2	342	\$1.25	3/4	3x2 1/2	2	4 1/2
1259	1.25	3/4	3x2 1/2	2 1/2	4 1/2	343	1.25	3/4	3x2 1/2	2	4 1/2

Drilled for screw No. 6.
Packed 10 pieces per box.

Round Base FLAG POLE SOCKETS

GALVANIZED CAST IRON OR CAST BRONZE

FLUSH TYPE

UPRIGHT TYPE



Bow
Fig. 218



Stern
Fig. 219



Bow
Fig. 220



Stern
Fig. 221

Inside Diam. Inches	Galv. Each	Polished Bronze Each	Chromium Plated Each	Diam. Flange Inches	Depth Socket Inches	Weight Ounces	Inside Diam. Inches	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Inches	Weight Ounces
3/4	\$.75	\$1.50	\$1.90	2	1 1/2	4 1/2	3/4	\$2.50	\$3.00	2 1/2	1 3/4	7
1	.80	1.65	2.05	2 3/8	1 3/4	6	1	3.00	3.50	2 1/2	2	8 1/2
1 1/4	1.10	2.00	2.60	2 3/8	2	10	1 1/4	3.75	4.50	2 3/4	2 1/2	11
1 1/2	1.75	3.10	3.85	3 1/8	2 3/8	16	1 1/2	4.75	5.50	3	3	16

Drilled for screw No. 8.
Packed 5 pieces per box.

LIFTING RINGS and KEEL PLATE

CAST BRONZE—FOR 5/8 INCH ROD



LOOSE DECK FLANGE
Fig. 412



INTEGRAL DECK FLANGE
Fig. 415



KEEL PLATE
Fig. 446

Fig.	Burnished Bronze Each	Chromium Plated Each	I.D. Eye Inches	Stock in Eye Inches	Length Inches	Diam. Flange Inches	Size Flange Inches	Size Base Inches	For Screw No.	For Bolt Size	Weight Ounces
412		\$5.25	1 1/8	3/8	3 1/2	2			8		10
415		5.00	1 1/8	1/2	3 1/2		3x2 1/2		8		12 1/2
446	\$1.75							3x1 3/8		1/4"	7



WINDSHIELD BRACKETS

FOR RUNABOUTS & OUTBOARD MOTOR BOATS
CAST BRONZE OR CAST ALUMINUM

All grooved for 1/4 inch glass, end brackets beveled to match the crown of most decks. All center brackets are two piece for quick assembly and easier installation. All brackets are open at the top.

CAST BRONZE—50 DEGREE ANGLE

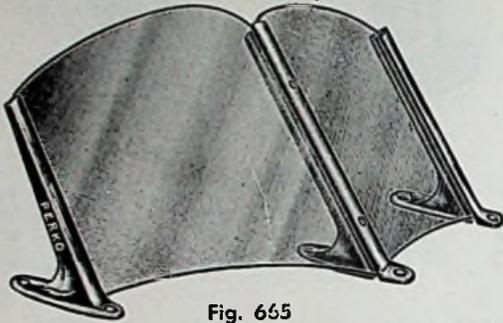


Fig. 655

Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Center Base Inches	Weight Per Set Pounds
\$20.00	8 3/4	7	6	5 1/4

CAST ALUMINUM—50 DEGREE ANGLE

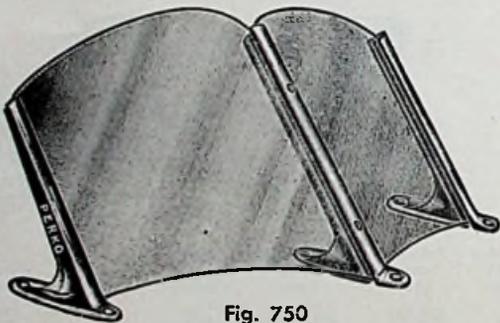


Fig. 750

Polished Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Side Base Inches	Weight Per Set Pounds
\$10.00	8 3/4	7	6	2

CAST BRONZE—60 DEGREE ANGLE

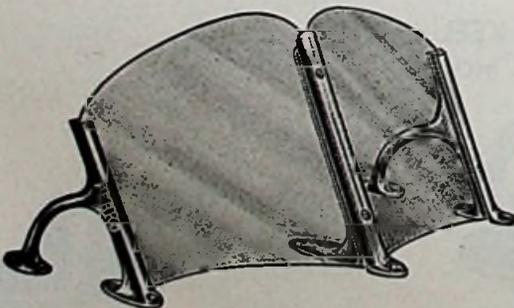


Fig. 930

Chromium Plated Per Set	Height Center Bracket Inches	Height End Brackets Inches	Length Side Base Inches	Weight Per Set Pounds
\$20.00	9 1/4	6 3/8	10	5 1/2

All above prices include rubber for brackets, no glass.
All above brackets drilled for No. 8 F.H. wood screw.

Hand WINDSHIELD WIPERS

FOR STRAIGHT OR CURVED WINDSHIELDS
STAINLESS STEEL EXTENSIBLE ARM AND BLADE HOLDER
OTHER PARTS, BRONZE, CHROMIUM PLATED
RUSTPROOF — LEAKPROOF



Fig. 533



No. 1
with Straight Blade

No. 2
with Curved Blade

Nothing to get out of order, operates very smoothly by a flip of the wrist. The improved spring tension of the arm holds blade firmly against the glass.

The arm is extensible from 9 to 12 inches, spring tension is adjustable for best wiping pressure.

No. 1 Each	No. 2 Each	* Length Overall Inches	Diam. Shaft Inches	Length Handle Inches	Weight Ounces
\$6.75	\$7.10	15 to 18	3/8	2 3/8	8

* Length with 12 inch blade.

For thickness of wood up to 1 1/8 inches.

NOTE: No. 1 can be supplied with 10 inch Blade, please specify.

Spare Arm	each	\$1.45
Spare Straight Blade	each	.75
Spare Curved Blade	each	1.10

To prevent scratching Plexiglas, do not operate wiper on dry windshield.

RUBBER INSULATION for Windshields

BLACK OR WHITE



Fig. 667
For Bottom



Fig. 668
For Sides

Live moulded rubber for glass 1/4 inch thick.

Fig.	Black Per Foot	White Per Foot
667	\$.20	\$.23
668	.10	.12

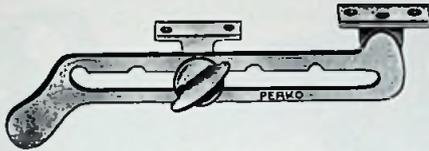
Fig. 667—Supplied only in 50 ft. lengths.

Fig. 668—Supplied in lengths of 50 feet or longer.



WINDSHIELD ADJUSTERS

CAST BRONZE



Port Side
Fig. 82

No.	Polished Bronze Per Pair	Chromium Plated Per Pair	Length Overall Inches	Length Adjustment Inches
1	\$12.25	\$14.75	6½	5
2	15.00	18.00	9	7
3	17.50	20.50	12	9½

NOTE—When ordering ½ pair, specify whether for port or starboard side.

“Skipper” WINDSHIELD ADJUSTER

ALL BRASS—CHROMIUM PLATED
FOR HEAVY CRUISER WINDSHIELDS



Fig. 360

Enables the skipper to adjust the windshield with one hand without leaving the wheel. The large bakelite knob is used for pushing, pulling, tightening or loosening in one operation.

Each	Length Overall Inches	Length Arm Inches	Length Adjustment Inches	Weight Pounds
\$24.50	28	24	19	3½

WINDSHIELD ADJUSTERS

CAST BRASS



Fig. 1116

No.	Polished Brass Each	Chromium Plated Each	Length Inches	Diam. Rod Inches	Weight Ounces
1	\$4.90	\$6.30	8	¾	11
2	5.10	6.50	10	¾	12
3	5.30	7.00	12	¾	13

SLIDING WINDOW HANDLE

BRASS—CHROMIUM PLATED



Fig. 954

For ¼ inch glass.

A useful handle made for easier operation of sliding windows.

Each	Length Inches	Weight Ounces
\$1.30	3	1

WINDSHIELD KEEPER or HATCH FASTENER

CAST BRONZE

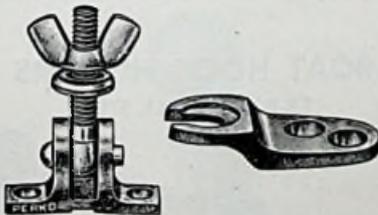


Fig. 697

Locks the windshield or hatch preventing rattles and assisting in keeping same watertight.

Burnished Per Set	Polished Per Set	Chromium Plated Per Set	Base of Keeper Inches	Base of Plate Inches	Weight Ounces
\$2.10	\$3.45	\$3.95	1½x¾	1¼x7/8	3½

A set consists of parts illustrated.

WOOD RAIL HINGES and LOCKS

CAST BRONZE



Fig. 122

Fig. 123

Lock has spring latch on bottom.

Fig. 122

No.	Polished Bronze Each	Chromium Plated Each	Size Rail Inches	Length Inches	Weight Pounds
1	\$10.00	\$11.50	1½x2½	5	1½
2	10.00	11.50	1¾x3	3¾	1¾

Fig. 123

No.	Polished Bronze Per Set	Chromium Plated Per Set	Size Rail Inches	Length Inches	Weight Pounds
1	\$10.50	\$12.00	1½x2½	5	1½
2	10.50	12.00	1¾x3	3¾	1¾



BOAT HOOKS

GALVANIZED MALLEABLE IRON OR BRONZE
SHARP POINTS



Fig. 223

Size No.	Galvanized Each	For Diam. Pole Inches	Extreme Length Inches	Weight Ounces
0	\$1.25	1	7 1/4	8
1	1.50	1 1/4	8 1/4	12
2	2.00	1 1/2	9 1/4	16
3	3.50	2	9 3/4	28

BALL POINTS



Fig. 224

Size No.	Galvanized Each	Polished Bronze Each	Chromium Plated Each	For Diam. Pole Inches	Extreme Length Inches	Wt. Ozs.
3 1/2	\$1.40	\$3.25	\$4.25	1	7 1/4	9
4	1.70	3.50	4.50	1 1/4	8 1/4	12
5	2.00	4.50	5.50	1 1/2	9 1/4	18
6	3.50			2	9 1/2	28

NOTE—Pole end is measured by outside diameter to fit flush with surface of pole.

Lightweight BOAT HOOK

ALUMINUM
WHITE RUBBER GRIPS—RUBBER BUMPER

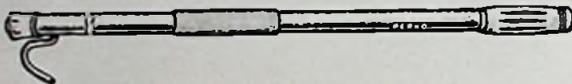


Fig. 226

This boat hook will float if dropped overboard. Has a strong wide hook for quick grab, rubber bumper for pushing.

Length Overall Feet	Each	Diameter Pole Inches	Weight Pounds
5	\$5.50	1	1 1/4
6	6.10	1	2
7	6.60	1	2 1/2

Special lengths made to order, price on application.

BOAT HOOK HOLDERS

SPRING BRASS

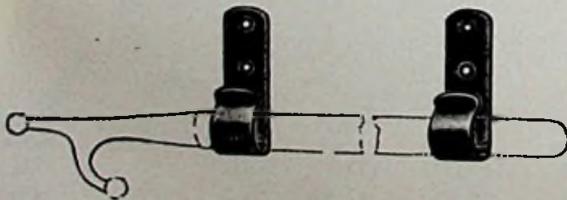


Fig. 490

Will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Chromium Plated Each	Length Inches	Width Inches	For Screw No.	Packed Per Box	Weight Ounces
\$.95	3 1/2	1	8	25	1 1/2

"Holdall" SPRING CLAMPS

SPRING BRASS—CHROMIUM PLATED

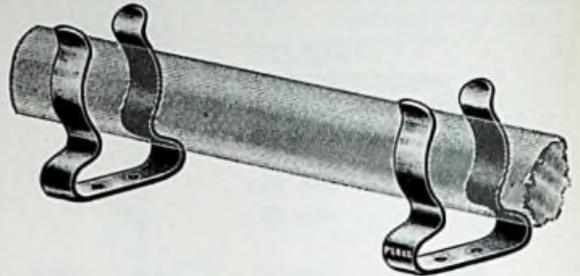


Fig. 502

A clamp having many uses aboard boats of every size and type. Also serves around the home, club, store or factory.

Excellent for stowing fishing rods, boat hooks, oars, swab, broom, flashlight, flagstaff, pump, etc.

Produced in two general sizes but both can be adjusted to tightly clamp objects of various sizes.

No.	Chromium Plated Per Pair	Adjustability Inches	Length From Wall Inches	Width of Metal Inches	For Screw No.	Weight Per Pair Ounces
1	\$1.25	3/8 to 1 1/4	1 1/2	1/2	6	2
2	1.50	1 to 1 3/4	2 1/4	3/4	6	2 1/2

Packed—1 Pair Per Box—25 Boxes Per Package.

RING BUOY HOLDERS

CAST BRONZE



Fig. 1017

Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Width Mounting Plate Inches	Hgt. Overall Inches	For Screw No.	Wt. Lbs.
\$1.65	\$3.00	\$3.85	3	4 1/2	8	1 1/2

BOAT HOOK HOLDERS

18-8 STAINLESS STEEL

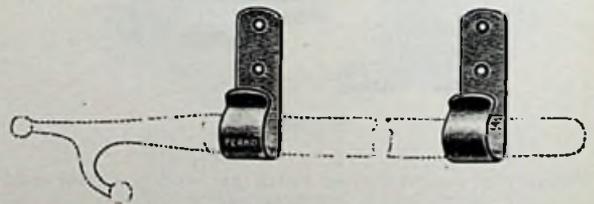


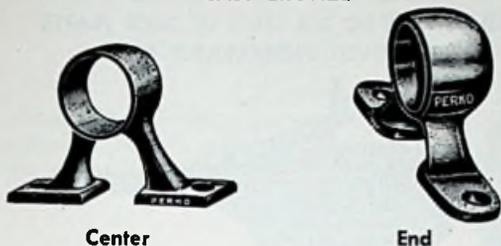
Fig. 492

Will accommodate poles up to 1 1/2 inch in diameter, and hold them firmly in place.

Each	Length Inches	Width Inches	For Screw No.	Packed Per Box	Weight Ounces
\$.75	3 1/2	1	8	25	1 1/2



HAND RAIL SOCKETS CAST BRONZE



Center

End

Fig. 215

No.	Polished Bronze Each	Chromium Plated Each	For Diam. Rail Inches	Height Overall Inches	Size of Base Inches	Weight Ounces
1	\$2.75	\$3.50	1	1 1/4	3 1/2 x 3/8	5
2	3.25	4.00	1 1/4	2	3 3/4 x 3/4	9

Please specify whether center or end and size. Drilled for No. 10 screw. Packed 5 pieces per box.

GRAB RAIL POSTS CAST BRONZE—HOLLOW



Fig. 380

No.	Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Height Overall Inches	Diam. Hole Inches	Weight Each Pounds
1	\$3.00	\$4.00	2 1/2	3 3/8	1 or 1 1/8	5/8
2	6.00	7.50	3	3 1/2	1 1/4	1 1/4

Specify whether for center or end, also diameter of hole for No. 1 size. Drilled for No. 10 screw. Packed 5 pieces per box.

STANCHION POSTS GALVANIZED CAST IRON OR BRONZE



Fig. 614—For End
Fig. 615—For Center

Size No.	Galv. Each	Pol. Bronze Each	Chrom. Plated Each	Extreme Height of Post Inches	Diam. Base Inches	Bored For
1	\$.65	\$1.90	\$2.65	2	1 3/8	5/8" Rod
1 1/2	.65	1.90	2.65	2	1 3/8	1/4" Pipe
2	.65	2.20	3.00	2 1/2	1 3/8	3/8" Rod
2 1/2		2.20	3.00	2 1/2	1 3/8	1/4" Pipe

Galvanized No. 2 centers only. Drilled for No. 8 screw.

Streamline GRAB RAIL POSTS CAST BRONZE

Notice that the tubing does not pass through the post but fits snug over an integral projecting part of post, hence, the post and tubing when assembled provides a smooth streamline unit. No unsightly bulges.

FOR 3/8 INCH O.D. TUBING—22 B & S GAUGE



Fig. 432

Chromium Plated Each	Height Overall Inches	Dimensions Base Inches	For Screw No.	Weight Each Ounces	Packed Per Box
\$3.25	1 3/8	2 1/8 x 1 1/8	6	5	5

Please specify whether center or end required.

FOR 1 INCH O.D. TUBING—20 B & S GAUGE



Fig. 413

Chromium Plated Each	Height Overall Inches	Dimensions Base Inches	For Screw No.	Weight Each Ounces	Packed Per Box
\$4.75	2 1/4	3 x 2	8	10	5

Please specify whether center or end required.

BRASS TUBING FOR ABOVE

Outside Diameter Inches	Chromium Plated Per Foot
3/8	\$1.80
1	2.40

Not supplied in lengths longer than 6 feet. Price applies to each foot or any fraction thereof.

GRAB RAILS CAST BRONZE POSTS—BRASS TUBING



Fig. 379

Length Between Posts Inches	Diameter of Tubing			
	1 Inch	1 Inch	1 1/8 Inch	1 1/8 Inch
	Polished Bronze Each	Chromium Plated Each	Polished Bronze Each	Chromium Plated Each
6	\$7.75	\$9.75	\$8.25	\$10.25
12	8.25	10.50	8.75	11.00
18	9.00	11.50	9.75	12.25

NOTE—Lengths longer than those listed above are made to order only and are not returnable.

Longer Lengths

Add per foot or fraction thereof.

Polished Brass	Chromium Plated
\$1.85	\$2.40

Posts only, end or center, see Fig. 380.

Not supplied in lengths longer than 6 feet.



Regular DECK PLATES
CAST BRONZE—WITH KEY



Fig. 526

Diam. Opening Inches	Machine Finish Complete Each	Polished Chromium Plated Complete Each	Keys Only Each	Outside Diam. Plate Inches	Weight Pounds
1	\$ 2.00	\$ 3.60	\$.30	2½	½
1½	2.75	4.40	.35	3¼	¾
2	3.55	5.70	.35	3¾	¾
2½	4.40	6.60	.50	4½	1
3	4.95	7.25	.55	4¾	1½
3½	6.80	9.25	.66	5½	1¾
4	7.65	11.00	.75	5¾	2
5	12.00	16.25	.85	7¼	2½
6	14.30	20.00	1.55	8¼	5
8	36.00	50.00	2.20	10¼	7

Caps only, price is 50% of complete plate.

Pipe DECK PLATES

CAST BRONZE—WITH KEY—I. P. S. THREAD



Fig. 528

Words, "water," "gas," "oil" or "fuel" marked in flange of all sizes except ¾ inch when specified, otherwise unmarked deck plates are supplied.

Note, markings are in flange instead of cap. This is an obvious advantage as plate is identified when cap is removed.

Pipe Size Inches	Machine Finish Complete Each	Polished Chromium Plated Complete Each	Keys Only Each	Outside Diam. Plate Inches	Weight Pounds
¾	\$ 2.50	\$ 3.65	\$.25	2¾	½
1	2.70	4.15	.25	2¾	¾
1¼	3.30	4.85	.30	3¼	¾
1½	3.75	5.40	.30	3¾	1
2	4.75	6.50	.45	4¼	1½
2½	6.00	7.75	.45	4¾	2
3	8.45	10.20	.55	5¾	2½

Caps only, price is 50% of complete plate.

Safe-Cap DECK PLATES

CAST BRONZE—WITH KEY—I. P. S. THREAD

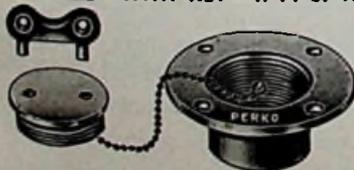


Fig. 525

Our Fig. 528 Pipe Deck Plates can be supplied with chain attached to cap per illustration.

Stock sizes, 1¼" and 1½" add each \$.75
All other sizes add each 1.00

DECK PLATE KEY

CAST BRONZE—BURNISHED
ADJUSTABLE TO ALL SIZES OF DECK PLATES
IMPROVED UNBREAKABLE PINS

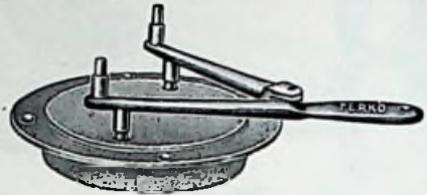


Fig. 826

Will fit all sizes of deck plates up to 8 inch diameter, making it unnecessary to have separate keys for each plate.

Each	Length Overall Inches	Weight Pounds
\$2.10	8½	1

GAS TANK CAPS

WITH DECK FLANGE AND 15 INCHES OF CHAIN
ZAMAK DIE CASTINGS—CHROMIUM PLATED

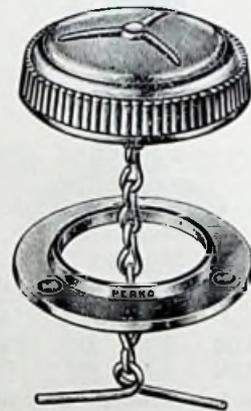


Fig. 1245

Each	Threaded for Pipe Inches	Height Overall Inches	Diam. Deck Flange Inches	For Screw No.	Weight Ounces	Packed Per Box
\$3.75	1½	1¼	3¾	7	9½	5

CAST BRONZE—CHROMIUM PLATED



Fig. 520

No.	Each	Threaded for Pipe Inches	Height Overall Inches	Diam. Deck Flange Inches	For Screw No.	Weight Pounds
1	\$6.25	1½	1¾	3¼	8	1
2	7.00	2	1¾	4	8	1½

Packed 5 pieces per box.



Stainless Steel "Hy-Gear" Marine HOSE CLAMPS

EXTRA WIDE BAND—NO RIVETS—NO WELDS

HIGH SPEED — Goes on with hose in position. . . . Safety collar on screw keeps screw driver from slipping.



HIGH POWER — Gear-drive principle assures positive, leak-proof seal under all conditions.

Fig. 5200

18-8 STAINLESS STEEL BAND AND HOUSING WITH CADMIUM PLATED SCREW.

Fig. 6400

100% ALL 18-8 STAINLESS STEEL BAND. HOUSING AND SCREW.

Fig. 5200				Fig. 6400					
Part Number	Price Per 100	Fits Hose I. D. From	Inches To	Clamp Diameter Min.	Inches Max.	Package Quantity	Weight Per 100 in Pounds	Part Number	Price Per 100
*5210	\$30.00	3/8	5/8	5/8	1 1/16	10	6	*6410	\$45.00
5212	31.00	3/8	3/4	1 1/16	1 1/4	10	6	6412	46.00
5216	31.00	3/4	1	1 3/16	1 1/2	10	7	6416	46.00
*5220	32.00	1	1 1/4	1 3/8	1 3/4	10	7	*6420	47.00
*5228	33.00	1 1/4	1 3/4	1 3/8	2 1/4	10	8	*6428	49.00
*5236	35.00	1 3/4	2 1/4	1 13/16	2 3/4	10	9	*6436	51.00
5244	38.00	2 1/4	2 3/4	2 3/16	3 1/4	10	9	6444	54.00
5252	41.00	3	3 3/4	2 13/16	3 3/4	50	11	6452	57.00
5256	41.00	3 1/4	3 1/2	3 1/16	4	50	11	6456	57.00
5264	44.00	3 1/2	4	3 3/16	4 1/2	50	12	6464	61.00

*The most popular stock sizes.

NOTE "STOCKIT" A combination display and stock holder of permanent steel construction, clear plastic bins, stocked with 100 clamps in the four most popular sizes.

FIG. 5200—Contents 20 #5210, 20 #5220, 40 #5228, 20 #5236 — Price Complete \$34.00

FIG. 6400—Contents 20 #6410, 20 #6420, 40 #6428, 20 #6436 — Price Complete 49.75

Universal Marine HOSE CLAMPS

ALL 18-8 STAINLESS STEEL OR ELECTRO GALVANIZED STEEL WITH ZINC PLATED SCREW INSTANTLY ADJUSTABLE FOR ANY SIZE HOSE UP TO 6 INCH

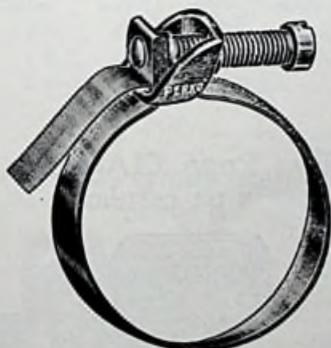


Fig. 499

Designed primarily for marine and aircraft use.

Uniform pressure on entire circumference of hose, no distortion or crimping to permit leaks.

These two sizes do the job of eight or more sizes necessary when ordinary hose clamps are used.

These may be used for larger sizes of hose by joining two or more clamps together, used in this way the size range is practically unlimited.

Extremely easy to install or remove, will not slip or loosen from vibration.

No.	Stainless Steel Each	Electro Galvanized Each	Length Open Inches	Width Strap Inches	Diam. Screw Inches	Weight Ounces	Packed Per Box
1	\$.60	\$.13	12	1/2	3/16	1 1/2	50
2	.70		18	1/2	3/16	2	50

Size No. 1 shipped unless otherwise specified.



Nylon Covered TILLER ROPE

7x19 STEEL CENTER — VERY FLEXIBLE



Fig. 760

The nylon coating cushions the wires against abrasion and protects them against oils, detergents, alkalis and oxidizing acids.

Outside Diameter Inches	Per 100 Feet	Core Diameter Inches	Breaking Strength Pounds	Weight Per 100 ft. Pounds
$\frac{3}{32}$	\$22.00	$\frac{3}{32}$	920	1.6
$\frac{3}{16}$	28.00	$\frac{3}{16}$	920	3.6

Supplied in 250 foot reels or counter display cartons of 8-35 foot coils per carton.

"Polycord" TILLER ROPE

Same appearance and construction as Fig. 760 above but with blue transparent polyvinyl plastic covering. High quality.

Fig. 857

Outside Diameter Inches	Per 100 Feet	Core Diameter Inches	Breaking Strength Pounds	Weight Per 100 Ft. Pounds
11/64	\$15.00	$\frac{3}{32}$	920	2.6

Supplied in 300 foot reels or counter display cartons of 8-35 foot coils per carton.

Braided TILLER ROPE

MAHOGANY COLOR—BRONZE WIRE CENTER



Fig. 761

No.	Outside Diam. Inches	Per 100 Feet
6	$\frac{3}{16}$	\$11.00
8	$\frac{1}{4}$	14.50
10	$\frac{5}{16}$	17.50
12	$\frac{3}{8}$	20.00

NOTE—Size Nos. 6 and 8 only in 500 foot coils. Larger sizes in 250 foot coils.

Tiller Rope CLAMPS

GALVANIZED IRON AND CAST BRONZE



Fig. 358

For Rope Diameter Inches	Galv. Each	Plain Bronze Each	Width Inches	Length Inches	Packed Per Box	Weight Ounces
$\frac{1}{8}$	\$.26	\$.36	$\frac{3}{4}$	1 $\frac{1}{2}$	25	1 $\frac{1}{4}$
$\frac{3}{16}$	.28	.38	$\frac{3}{4}$	1 $\frac{3}{4}$	25	2
$\frac{1}{4}$	.34	.50	1	1 $\frac{3}{4}$	25	3
$\frac{5}{16}$	.46	.60	1	2	10	3 $\frac{1}{2}$
$\frac{3}{8}$	.70	1.20	1 $\frac{1}{8}$	2 $\frac{1}{4}$	10	5

Tiller Rope TIGHTENERS

CADMIUM PLATED STEEL OR ALL BRASS

For eliminating slack and keeping tension on tiller rope at all times.

SHORT TYPE



Fig. 732

Maximum pull 80 pounds

LONG TYPE



Fig. 754

Maximum pull 100 pounds

Fig.	Steel Each	All Brass Each	Normal Length Inches	Length Compressed Inches	Outside Diameter Inches	Weight Ounces
732	\$.40	\$.80	4	5	1 $\frac{1}{16}$	4 $\frac{1}{2}$
754	.40		5 $\frac{3}{4}$	7 $\frac{3}{4}$	$\frac{3}{4}$	5

Packed per box 25 pieces.

Dock Line SPRINGS

STEEL—ZINC PLATED



Fig. 759

A very strong compression spring for dock and mooring lines. It cushions the strain and contributes greatly to the life of the line.

Size No. 1 will accommodate $\frac{1}{2}$ inch diameter rope, No. 2 for $\frac{3}{4}$ inch rope.

No.	Each	Length Overall Inches	Diameter Spring Inches	Diameter Metal Inches	Compression Inches	Weight Pounds
1	\$1.50	10	1 $\frac{1}{2}$	$\frac{3}{16}$	4 $\frac{1}{2}$	$\frac{3}{8}$
2	3.75	18	2	$\frac{1}{4}$	8	2 $\frac{3}{4}$

Tiller Rope CLAMPS

ZAMAK DIE CASTINGS



Fig. 1226

For Rope Diam. Inches	Natural Finish Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
$\frac{1}{8}$	\$.30	\$.45	1 $\frac{1}{8}$	$\frac{3}{16}$	$\frac{3}{4}$
$\frac{3}{16}$	.32	.47	1 $\frac{1}{4}$	1 $\frac{1}{16}$	1
$\frac{1}{4}$	.44	.65	1 $\frac{1}{2}$	$\frac{3}{8}$	1 $\frac{1}{4}$

Packed per box 50 pieces.



Tiller ROPE GUIDES
BRONZE



Fig. 359

No.	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches	Weight Ounces
1	\$.40	\$.70	\$.85	3/8	1 3/8 x 3/4	3/4
2	.50	.85	1.25	1/2	1 1/2 x 7/8	1 1/2
3	.65	1.10	1.60	5/8	1 3/4 x 1 1/4	2

Packed per box, No. 1—50, No. 2—25, No. 3—10 pcs.
No. 1 size is forged bronze. All sizes for No. 6 screw.

Tiller ROPE GUIDES
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1256

Chromium Plated Each	Size Hole Inches	Size Base Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.50	3/8	1 1/2 x 3/4	6	1/2	50

New Tiller ROPE GUIDES
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1243

Chromium Plated Each	For Diam. Rope Inches	Size Base Inches	For Screw No.	Weight Ounces	Packed Per Box
\$1.10	1/4	2 x 3/4	8	1 1/4	10

Tiller ROPE GUIDES
FORGED BRONZE



Upright
Fig. 593



Side
Fig. 594

Fig.	Dull Bronze Each	Polished Bronze Each	Chromium Plated Each	For Diam. Rope Inches	Size Base Inches	Wt. Ozs.
593	\$1.20	\$1.50	\$1.80	1/4	1 3/8 x 1 5/8	2 1/4
594	1.15	1.45	1.75	1/4	2 1/8 x 3/4	2 1/4

Drilled for No. 8 screw—Packed 10 pieces per box.

Tiller ROPE GUIDES
GALVANIZED CAST IRON OR BRONZE
OVAL PLATE



Fig. 599

No.	Galv. Iron Each	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Size Hole Inches	Size Base Inches
1	\$.20	\$.40	\$.70	\$.85	3/8	1 3/8 x 3/8
2	.25	.50	.85	1.25	1/2	1 1/2 x 3/8
3	.30	.65	1.10	1.60	3/4	1 3/4 x 1 1/4

Packed per box, No. 1—50, No. 2—25, No. 3—10 pcs.
No. 1 size is forged bronze. All sizes for No. 6 screw.

Tiller ROPE GUIDES
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1261

Chromium Plated Each	Size Hole Inches	Size Base Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.50	3/8	1 1/2 x 3/4	6	1/2	50

Tiller ROPE GUIDES
BRASS SPRING WIRE



Fig. 229



Fig. 932

Brass Each	Chromium Plated Each	Brass Each	Chromium Plated Each	Size Hole Inches	Length Inches	Weight Ounces
\$.12	\$.18	\$.12	\$.18	3/8	1 1/8	1/2

Packed per box, 50 pieces.

Tiller ROPE GUIDES
GALVANIZED CAST IRON OR BRONZE



Fig. 102
Sizes No. 1 and 2



Fig. 102
Size No. 3

No.	Galv. Iron Each	Burnished Bronze Each	Chromium Plated Each	For Diam. Rope Inches	Size Base Inches	Weight Ounces
1	\$.35	\$.70	\$1.25	1/4	1 3/8 x 3/8	2 1/4
2	.45	.80	1.50	3/8	2 x 1 3/8	4
3	.65			3/4	1 3/4 diam.	5

Packed per box, Nos. 1 and 2—10, No. 3—5 pieces.

**NEW STAINLESS STEEL
TILLER ROPE PULLEY**
WITH CHROMIUM PLATED ZAMAK SWIVEL EYE
BLACK OR WHITE NYLON SHEAVE



Fig. 629

Each	Length Overall Inches	Diameter Sheave Inches	Diameter Rope Inches	Weight Ounces	Packed Per Box
\$1.00	3 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	1 $\frac{1}{2}$	25

With Chromium Plated Zamak Strap add \$.25 each.

Zamak TILLER ROPE PULLEY
SWIVEL TYPE
ZAMAK DIE CASTINGS—CHROMIUM PLATED
BLACK OR WHITE NYLON SHEAVE



Fig. 1241

Complete with Chromium Plated Strap.

Each	Length Overall Inches	Diam. Sheave Inches	Length Strap Inches	Diam. Rope Inches	Weight Ounces
\$1.75	3 $\frac{3}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	$\frac{3}{8}$	3

Without strap, deduct \$.25 each.
Packed per box, 25 pieces.

Economy TILLER ROPE PULLEY
FORGED BRONZE BODY AND STRAP
BLACK OR WHITE NYLON SHEAVE

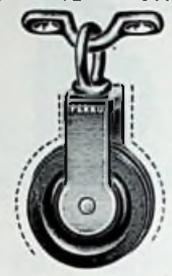


Fig. 579

Dull Bronze Each	Nickel Plated Each	Length Pulley Inches	Size Sheave Inches	Length Strap Inches	Diam. Rope Inches	Weight Ounces
\$1.35	\$1.45	1 $\frac{1}{8}$	1 $\frac{1}{8}$ x $\frac{3}{8}$	1 $\frac{1}{8}$	$\frac{1}{4}$	1 $\frac{1}{4}$

Packed per box, 25 pieces.

Heavy Duty TILLER ROPE PULLEY
FORGED BRONZE—SWIVEL TYPE
BLACK OR WHITE NYLON SHEAVE



PATENTED

Fig. 585

Has guaranteed strength forged bronze body, eye and strap. To take the strain of racing and large horsepower motors. Patented swivel will not jam. For tiller rope up to $\frac{3}{8}$ inch inclusive.

Plain Bronze Each	Nickel Plated Each	Length Overall Inches	Diam. Sheave Inches	Length Strap Inches	Packed Per Box	Weight Ounces
\$2.10	\$2.20	3 $\frac{3}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{8}$	25	4

Without strap, deduct \$.20 each.

Standard TILLER ROPE PULLEY
WROUGHT BRASS—SWIVEL TYPE
BLACK OR WHITE NYLON SHEAVE
FORGED BRONZE EYE



Fig. 587

Plain Brass Each	Nickel Plated Each	Length Overall Inches	Diam. Sheave Inches	Diam. Rope Inches	Packed Per Box	Weight Ounces
\$1.50	\$1.60	3 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	25	3

With bronze strap add \$.20 each.

Skipper TILLER ROPE PULLEY
WROUGHT BRASS BODY—SWIVEL TYPE
FORGED BRONZE STRAP AND EYE
BLACK OR WHITE NYLON SHEAVE



Fig. 592

Plain Brass Each	Length Overall Inches	Diam. Sheave Inches	Diam. Rope Inches	Length Strap Inches	Packed Per Box	Weight Ounces
\$1.75	3 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	1 $\frac{1}{8}$	25	3

Without strap, deduct \$.20 each.

NOTE—IF COLOR OF SHEAVE IS NOT SPECIFIED WE WILL SHIP WHICHEVER IS AVAILABLE.



Universal TILLER ROPE PULLEY

WROUGHT BRASS—SWIVEL TYPE
BLACK OR WHITE NYLON SHEAVE



Fig. 552

Each	Length Overall Inches	Diam. Sheave Inches	Length Plate Inches	For Diam. Rope Inches	Weight Ounces	Packed Per Box
\$1.80	3	1 3/4	2	3/8	3 1/4	25

Drilled for screw No. 10.

TILLER ROPE PULLEY

With Swivel Snap

BRASS BODY AND SNAP
BLACK OR WHITE NYLON SHEAVE



Fig. 616

Plain Brass Each	Nickel Plated Each	Snap Throat Opening Inches	Diam. Sheave Inches	Diam. Rope Inches	Length Overall Inches	Weight Ounces	Packed Per Box
\$2.25	\$2.35	1/2	1 1/4	3/8	4 1/2	4	25

COAMING or THRU-DECK PULLEYS

CAST ALUMINUM OR BRONZE
BLACK OR WHITE NYLON SHEAVE



Fig. 617

Dimensions Of Plate Inches	Diam. Sheave Inches	For Diam. Rope Inches	For Screw No.	Weight In Bronze Ounces	Packed Per Box
3 3/8 x 1 3/8	1 1/4	1/4 or 3/8	8	4	25
Polished Aluminum Each	Burnished Bronze Each	Polished Bronze Each	Chromium Plated Each		
\$2.00	\$2.00	\$2.50	\$2.75		

NOTE—If color of sheave is not specified we will ship whichever is available.

EYE STRAPS

ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1242

Chromium Plated Each	Length Inches	Size Eye Inches	Stock in Eye Inches	For Screw No.	Weight Ounces	Packed Per Box
\$.25	1 1/8	3/8	1/4	8	1/4	50

EYE STRAPS

FORGED BRONZE



Fig. 881

No.	Plain Bronze Each	Chromium Plated Each	Length Inches	Size Eye Inches	Stock in Eye Inches	For Screw No.	Wt. Ozs.
0	\$.20	\$.45	1 1/8	3/8	1/4	8	1 1/2
1	.35	.65	2 1/4	3/8	3/32	10	3/4
2	.40	1.00	2 3/4	1/2	3/16	10	1 1/2

Packed per box, Nos. 0 and 1, 50 pcs. No. 2, 25 pcs

DECK STRAPS

CAST BRONZE



Fig. 882

No.	Burnished Bronze Each	Polished Bronze Each	Chrome Plated Each	Length Inches	Size Eye Inches	Stock in Eye Inches	Wt. Ozs.
1	\$.65	\$1.10	\$1.45	3 1/2	1/2	3/8	1 1/2
2	.90	1.50	1.90	4 1/4	3/8	3/8	2 1/2

Drilled for No. 8 screw.

Packed per box, No. 1, 25 pcs. No. 2, 10 pcs.

FLANGE EYES

CAST BRONZE



Fig. 877

Size No.	Plain Bronze Each	Polished Bronze Each	Chrome Plated Each	Size Opening Inches	Size Base Inches	Weight Ounces
1	\$.30	\$.65	\$.90	3/8	2 1/2 x 1 1/8	1
2	.55	1.00	1.25	3/4	2 1/4 x 1 3/8	2

THRU-DECK FAIRLEADERS

BRONZE



Fig. 891

Size No.	Bright Finish Each	Inside Diam. Hole Inches	Outside Diam. Flange Inches	For Screw No.	Weight Ounces	Packed Per Box
1	\$.40	3/8	1 1/8	6	3/4	25
2	.50	1/2	1 1/2	6	1 1/2	25



Fast Eye BLOCKS

GALVANIZED MALLEABLE IRON OR BRONZE SINGLE

Without Becket



Fig. 43

With Becket Galv. Only



Fig. 54

Size No.	Galv. Each Fig. 43	Galv. Each Fig. 54	Plain Bronze Each Fig. 43	For Diam. Rope Inches	Size Sheaves Inches	Wt. Lbs. Each
1	\$.26	\$.35	\$.50	3/16	3/4 x 3/16	3/32
3	.32	.45	.60	1/4	1 x 3/16	3/16
5	.40	.55	.95	5/16	1 3/8 x 3/16	1/4
7	.60	.80	1.20	3/8	1 1/2 x 1/2	3/8
9	.75	1.10	1.70	3/8	1 3/4 x 3/16	1/2
11	1.20	1.50	2.05	1/2	2 x 3/8	3/8
13	2.00	2.90		5/8	2 1/2 x 3/4	1 1/8
15	2.75	4.25		3/4	3 x 7/8	1 5/8

NOTE—Blocks with becket supplied only in galvanized.

Swivel Eye BLOCKS

GALVANIZED MALLEABLE IRON OR BRONZE

Single



Fig. 100

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
0	3/16	1	1/2	1/2
1	3/16	1 1/4	3/4	1 1/4
3	1/4	1 3/4	1	2
5	5/16	2	1 3/8	2 3/8
7	3/8	2 1/4	1 1/2	4 3/8

Size No.	Galvanized Iron Each	Plain Bronze Each
0	\$.35	\$ 1.20
1	.45	1.25
3	.60	1.65
5	.90	2.00
7	1.00	2.30

Fast Eye BLOCKS

GALVANIZED MALLEABLE IRON OR BRONZE DOUBLE

Without Becket



Fig. 51

With Becket Galv. Only



Fig. 55

Size No.	Galv. Each Fig. 51	Galv. Each Fig. 55	Plain Bronze Each Fig. 51	For Diam. Rope Inches	Size Sheaves Inches	Wt. Lbs. Each
2	\$.40	\$.55	\$.95	3/16	3/4 x 3/16	3/16
4	.50	.80	1.20	1/4	1 x 3/16	1/4
6	.85	1.35	2.10	5/16	1 3/8 x 3/16	3/8
8	1.00	1.60	2.75	3/8	1 1/2 x 1/2	3/8
10	1.30	2.00		5/16	1 3/4 x 3/16	3/4
12	1.65	2.70		1/2	2 x 3/8	1 1/4
14	2.95	4.75		3/4	2 1/2 x 3/4	2 3/8
16	6.00	7.00		3/4	3 x 7/8	2 3/4

NOTE—Blocks with becket supplied only in galvanized.

Swivel Eye BLOCKS

GALVANIZED MALLEABLE IRON OR BRONZE

Double



Fig. 101

Size No.	For Diam. Rope Inches	Length Shell Inches	Diameter Sheave Inches	Weight Per Doz. in Lbs.
00	3/16	1	1/2	1 1/8
2	3/16	1 1/4	3/4	2 1/4
4	1/4	1 3/4	1	3 3/8
6	5/16	2	1 3/8	4 1/2
8	3/8	2 1/4	1 1/2	7

Size No.	Galvanized Iron Each	Plain Bronze Each
00	\$.80	\$ 1.65
2	.85	1.80
4	1.10	2.30
6	1.30	4.60
8	2.25	6.00



Loose Hook BLOCKS

GALVANIZED MALLEABLE IRON BODY
FORGED STEEL HOOKS

SINGLE

Without Becket



Fig. 52

With Becket



Fig. 56

Size No.	Galv. Each Fig. 52	Galv. Each Fig. 56	Length of Shell Inches	For Diameter Rope Inches	Weight Each Pounds
1	\$2.00	\$2.20	1½	¾	¾
3	2.10	2.25	1¾	¾	¾
5	2.15	2.35	2	¾	¾
7	2.40	2.75	2¾	¾	¾
9	3.30	3.50	3	¾	¾
11	4.25	4.75	3¼	½	1
13	5.50	6.00	4	¾	2¼
15	8.00	8.75	4¾	¾	2½

Size of Sheave same as Fig. 43.

Loose Hook BLOCKS

GALVANIZED MALLEABLE IRON

DOUBLE

Without Becket



Fig. 53

With Becket



Fig. 58

Size No.	Galv. Each Fig. 53	Galv. Each Fig. 58	Length of Shell Inches	For Diameter Rope Inches	Weight Pounds Each
2	\$2.25	\$2.35	1½	¾	¾
4	2.55	2.75	1¾	¾	¾
6	2.80	3.15	2	¾	¾
8	3.20	3.30	2¾	¾	¾
10	4.15	4.50	3	¾	1
12	5.50	5.75	3¼	½	1½
14	7.50	7.75	4	¾	2¼
16	10.50	11.00	4¾	¾	3¼

Size of Sheave same as Fig. 51.

BLOCKS on Plates
MALLEABLE IRON OR BRONZE



Fig. 107

Size No.	Cadmium Plated Each	Plain Bronze Each	For Diam. Rope Inches	Style Block	Weight Per 100 in Lbs.
3	\$1.25	\$2.95	¼	Swivel Eye	31
5	1.35	3.50	¾	Swivel Eye	47
7	1.50	4.25	¾	Swivel Eye	75
9	2.85		¾	Fast Eye	100

DECK BLOCKS

OPEN PATTERN

GALVANIZED IRON OR BRONZE

SINGLE

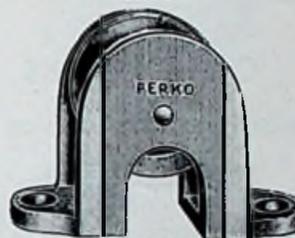


Fig. 87

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size of Sheave Inches	Weight Pounds
0	\$.50	\$.45	\$1.10	¾	1½ x ¾	¾
1	.80	.50	1.55	¾	1½ x ½	¾
3	1.40	.95	2.75	½	2 x ¾	1¾
5	2.50	1.90	4.40	¾	2½ x ¾	1¾
7	3.90	3.00	5.50	¾	3 x ¾	2¾

Cast iron furnished unless otherwise specified.

DECK BLOCKS
OPEN PATTERN
GALVANIZED IRON OR BRONZE
DOUBLE

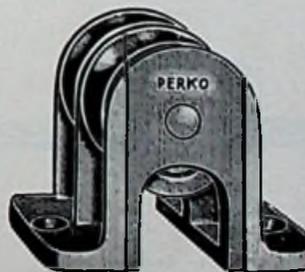


Fig. 88

Size No.	Mall. Iron Each	Cast Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches
2	\$1.40	\$.90	\$2.45	¾	1½ x ½
4	2.50	1.90	4.50	½	2 x ¾
6	4.00	3.50		¾	2½ x ¾
8	6.00	4.75		¾	3 x ¾

Cast iron furnished unless otherwise specified.



DECK BLOCKS
FOR WIRE ROPE
GALVANIZED MALLEABLE IRON OR BRONZE

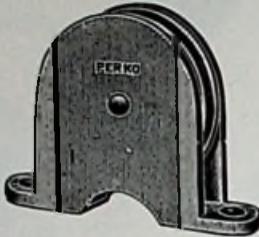


Fig. 139

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
1	\$1.40	\$2.20	1/4	2 x 3/8	3/8
2	2.30	4.35	3/8	3 x 3/8	1 1/8
3	3.90	8.25	3/8	4 x 3/8	3
3 1/2	6.00		1/2	4 1/2 x 3/8	4 1/4
4	8.20		3/8	5 x 3/8	5 1/4
5	10.50		3/4	6 x 1	8 1/2

Wire Rope PULLEYS
GALVANIZED MALLEABLE IRON OR BRONZE
UPRIGHT PATTERN



Fig. 279

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
10	\$2.00	\$3.50	3/16	2 1/2 x 3/8	3/8
20	2.40	4.40	1/4	3 1/4 x 1/2	1 1/2
30	3.60	7.25	3/16-3/8	4 1/2 x 3/8	2 1/2

Fig. 280

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
110	\$3.00	\$5.40	3/16	2 1/2 x 3/8	1 1/8
120	3.40	6.90	1/4	3 1/4 x 1/2	2
130	5.75	13.00	3/16-3/8	4 1/2 x 3/8	4 3/4

CHEEK BLOCKS
FOR WIRE ROPE
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 140

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
1	\$1.10	\$2.50	1/4	2 x 3/8	3/8
2	1.70	4.20	3/8	3 x 3/8	1 1/8
3	2.90	7.25	3/8	4 x 3/8	2 3/4
3 1/2	4.20		1/2	4 1/2 x 3/8	4 1/4
4	5.50		3/8	5 x 3/8	5 1/4
5	9.00		3/4	6 x 1	11

Wire Rope PULLEYS
GALVANIZED MALLEABLE IRON OR BRONZE
SIDE PATTERN



Fig. 194

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
1	\$2.00	\$3.50	3/16	2 1/2 x 3/8	1/2
2	2.40	4.40	1/4	3 1/4 x 1/2	1 1/4
3	3.60	7.25	3/16-3/8	4 1/2 x 3/8	2 1/2

Fig. 195

Size No.	Galv. Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
11	\$3.00	\$5.40	3/16	2 1/2 x 3/8	1 1/8
12	3.40	6.90	1/4	3 1/4 x 1/2	2
13	5.75	13.00	3/16-3/8	4 1/2 x 3/8	4 1/4

CHEEK BLOCKS
GALVANIZED IRON OR BRONZE
SINGLE



Fig. 95

Size No.	Galv. Gray Iron Each	Galv. Mall. Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
0	\$.65	\$.70	\$1.20	1/4	1 1/8 x 3/8	3/8
1	.70	.90	1.55	3/8	1 3/8 x 3/8	1/2
2	.75	1.10	1.90	3/8	1 1/2 x 1/2	3/8
3	1.10	1.75	3.20	1/2	2 x 3/8	3/4
4	2.20	2.40	3.50	5/8	2 1/2 x 3/8	1 1/4
5	3.20	4.00		3/4	3 x 3/8	2
6	5.70	7.00		3/4	3 1/2 x 1	4

CHEEK BLOCKS
GALVANIZED IRON OR BRONZE
DOUBLE



Fig. 96

Size No.	Galv. Gray Iron Each	Galv. Mall. Iron Each	Plain Bronze Each	For Diam. Rope Inches	Size Sheave Inches	Weight Pounds
11	\$1.20	\$1.50	\$2.40	3/16	1 3/8 x 3/8	1/2
12	1.30	1.80	3.60	3/8	1 1/2 x 1/2	1 1/8
13	2.20	3.00		1/2	2 x 3/8	1 1/2

NOTE—Galvanized malleable blocks shipped unless otherwise specified.



Centerboard BLOCKS

GALVANIZED CAST IRON OR BRONZE



Fig. 827

No.	Galv. Each	Plain Bronze Each	Size Rope Inches	Size Sheave Inches	For Screw No.	Weight Pounds
1	\$1.35	\$2.80	3/8	1 1/2 x 1/2	12	3/4
2	2.00	3.90	1/2	2 x 3/8	12	1 1/2

Outhaul Cheek BLOCKS

CAST BRONZE—BURNISHED FOR ROPE



Fig. 885

Each	For Rope Size Inches	Size Sheave Inches	Weight Ounces	Packed Per Box
\$.85	1/4	3/4 x 3/8	3 1/2	10

Outhaul Cheek BLOCKS

CAST BRONZE—BURNISHED FOR WIRE



Fig. 886

Each	For Wire Size Inches	Size Sheave Inches	Weight Ounces	Packed Per Box
\$1.50	1/8	1 1/4 x 3/2	5	10

ASSORTED SHEAVES

GALVANIZED IRON, BRONZE, PLASTIC OR NYLON COMMON BUSHED—FOR MANILA ROPE



Fig. 154

GALVANIZED

No.	Each	Diam. Inches	Thickness Inches	For Rope Inches	For Size Pin Inches
1	\$.22	3/8	3/8	3/8	1/8
2	.30	1	3/8	1/4	1/8
3	.33	1 1/4	3/8	3/8	3/8
4	.36	1 1/2	1/2	3/8	3/8
5	.48	1 3/4	3/8	3/8	1/4
6	.59	2	3/8	1/2	1/4
7	.65	2 1/2	3/8	3/8	3/8
8	.80	3	3/8	3/8	3/8

BRONZE

9	.35	3/8	3/8	1/4	3/32
10	.40	3/8	3/8	3/8	3/32
11	.45	1 1/8	3/8	3/8	3/32
12	.45	3/4	3/8	3/8	1/4
13	.50	3/4	1/2	3/8	3/8
14	.50	1	3/8	1/4	1/4
15	.60	1 1/8	3/8	1/4	3/8
16	.60	1 3/8	3/8	3/8	1/4
17	.65	1 3/8	3/8	3/8	3/8
18	.75	1 3/4	3/8	3/8	1/4
19	.95	1 3/4	3/8	3/8	3/8
20	.95	2	3/8	3/8	3/8
21	1.10	2 1/4	1/2	3/8	3/8

LAMINATED PLASTIC

23	.40	1 1/8	3/8	1/4	1/4
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BLACK NYLON

26	.50	1 3/8	3/8	3/8	1/4
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WHITE NYLON

27	.50	1 3/8	3/8	3/8	1/4
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Assorted Brass PINS

FOR BLOCK SHACKLES, TURNBUCKLES, ETC.

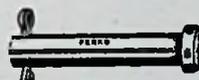


Fig. 1176

No.	Each	Diam. Pin Inches	Length Under Head Inches	Diam. Head Inches	Type Head
1	\$.25	3/8	3/8	1/4	Flat
2	.25	3/8	3/8	1/4	Flat
3	.28	3/8	3/8	1/4	Flat
4	.28	3/8	1	1/4	Flat
5	.28	1/2	3/8	3/8	Round
6	.30	1/2	3/8	3/8	Flat
7	.32	1/2	3/8	3/8	Flat
8	.35	1/2	1 1/8	3/8	Flat
9	.35	1/2	1 1/8	3/8	Flat
10	.35	1/2	1 1/4	3/8	Flat
11	.35	3/8	3/8	3/8	Flat
12	.35	3/8	3/8	3/8	Flat
13	.35	3/8	1	3/8	Flat
14	.37	3/8	1 1/8	3/8	Round
15	.37	3/8	1 1/4	3/8	Flat
16	.37	3/8	1 1/2	3/8	Flat
17	.42	3/8	1 3/8	1/2	Flat
18	.48	3/8	1 3/8	3/8	Flat
19	.48	3/8	1 3/8	3/8	Flat
20	.50	3/8	1 3/8	1/2	Round
21	.50	3/8	1 3/8	1/2	Flat
22	.55	3/8	1 1/2	1/2	Flat
23	.60	3/8	1 3/4	3/8	Flat
24	.65	3/8	1	1/2	Flat
25	.70	3/8	2 3/8	3/8	Flat
26	.75	1/2	1 1/8	3/8	Flat
27	.75	1/2	1 1/4	3/8	Flat
28	.80	1/2	1 1/2	3/8	Flat
29	.90	3/8	1 3/8	3/4	Round



Cast Bronze FOG BELLS

HEAVY WEIGHT—WITH REMOVABLE BRACKET



Fig. 150

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
8	\$ 40.00	\$ 49.50	8	10
10	77.00	87.00	10½	22
12	103.00	115.00	12	38

WALL PLATE ONLY

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
8	\$ 2.50	\$ 3.25	2½	½
10	4.00	5.00	3¼	1
12	5.00	6.00	3¾	1

8 inch wall plate for No. 8 screw.

10 and 12 inch wall plates for ¼ inch bolt.

Cast Bronze FOG BELLS

HEAVY WEIGHT—WITH STATIONARY BRACKET



Fig. 148

Diameter Inches	Plain Bronze Each	Polished Bronze Each	Chromium Plated Each	Diameter Base of Bracket Inches	Weight Pounds
10	\$ 75.00	\$ 83.50	\$ 93.50	5¾	24½
12	100.00	110.00	122.00	5¾	40

Spare Brackets \$11.00 \$15.50 \$20.00

Length bracket, 7 inches from wall to center of bore.
Base drilled for ⅝ inch bolt.

Wrought Brass FOG BELLS

WITH REMOVABLE BRACKET
PRESSED BELL METAL



Fig. 159

Diameter Inches	Plain Brass Each	Polished Brass Each	Chromium Plated Each	Height Overall Inches	Wt. Lbs.
6	\$6.75	\$ 8.50	\$ 9.50	4	1
8	9.75	11.50	12.50	5	2½
Wall Plate only	\$.95	\$1.20	\$1.50		
Arm only	1.55	1.90	2.40		
Clapper only	1.20	1.65	2.25		
Eye Bolt only	.50	.70	.90		

Wall plate drilled for No. 6 screw.

Cast Bronze FOG BELLS

LIGHTWEIGHT—WITH REMOVABLE BRACKET



Fig. 581

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$12.00	\$14.50	4⅞	3
8	16.50	19.00	5¼	5
Wall Plate only	1.30	1.80	2	¼

Drilled for No. 8 screw.

Cast Bronze FOG BELLS

MEDIUM WEIGHT—WITH REMOVABLE BRACKET



Fig. 420

Diameter Inches	Polished Bronze Each	Chromium Plated Each	Height Overall Inches	Weight Pounds
6	\$16.00	\$19.00	5	4
8	24.00	28.00	6⅞	8
6	\$1.90	\$2.50	2½	⅓
8	2.50	3.25	2½	⅓

WALL PLATE ONLY
Drilled for No. 8 screw.



FOG HORNS

GALVANIZED STEEL OR BRASS



Fig. 162

Length Overall Inches		Galvanized Steel Per Doz.	Polished Brass Per Doz.
18	Without Bell	\$30.00	\$42.00
20	With Bell, as illustrated	36.00	49.20

AIR HORNS

HAND PUMP OPERATED

ALL BRASS HORNS—CHROMIUM PLATED
STEEL OR BRASS PUMPS

Designed and manufactured to meet the needs of the small boat owner for a hand operated loud air horn which combines good looks with practicability, short projector and no battery at a price he can afford.

Supplied complete ready for installation with 6 feet of rubber tubing and mounting brackets for horn and pump.

Can be heard a great distance and operation is effortless.

Triplex Motor Boat WHISTLE

PLASTIC—ORANGE COLOR



Fig. 167

Per Dozen	Length Overall Inches	Width Overall Inches	Weight Per Dozen Pounds
\$5.25	6	1 1/4	1

SINGLE HORN

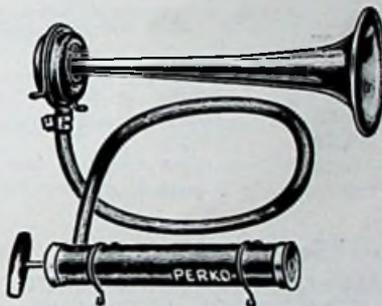


Fig. 631

With Steel Pump Per Set	With Brass Pump Per Set	Length Horn Overall Inches	Length Pump Body Inches	Weight Per Set Pounds
\$31.00	\$36.50	12 1/2	12 3/4	3

Police or Signal WHISTLE

BRASS—NICKEL PLATED



Fig. 349

Per Dozen	Length Inches	Width Inches	Weight Per Doz. Ounces
\$9.50	2	3/4	17

DUAL HORNS

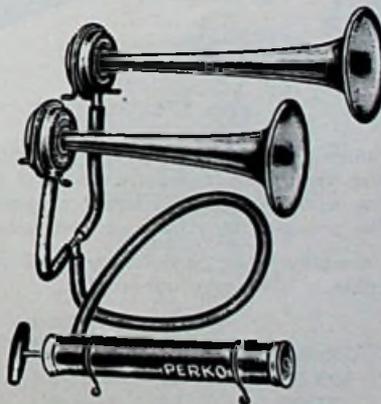


Fig. 632

With Steel Pump Per Set	With Brass Pump Per Set	Length Long Horn Overall Inches	Length Short Horn Overall Inches	Length Pump Body Inches	Weight Per Set Pounds
\$43.00	\$48.50	12 1/2	10 1/2	12 3/4	4

RELAYS

Eliminates line loss where electric unit is located some distance from the battery.

6 Volts Each	12 Volts Each
\$2.00	\$2.20

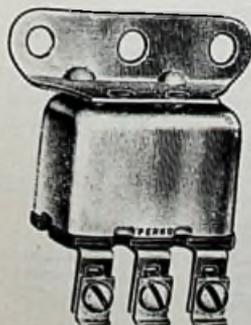


Fig. 273

"Sea Echo" HORN
BRASS COVER AND PROJECTOR
BRASS SCREEN—CAST BRASS BASE
6 OR 12 VOLTS—CHROMIUM PLATED

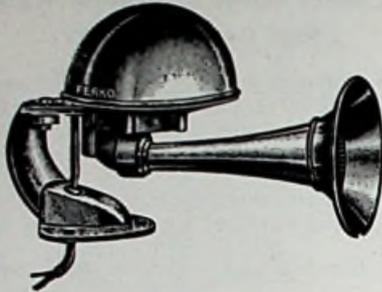


Fig. 590

A very loud resonating horn with short projector and a brass chromium plated screen in the mouth of the projector.

This horn is designed and produced to supply a long felt need for a combination of loud, distinctive tone, short projector and good looks.

Complete with 5½ feet of cable and push button.

Volts	Each	Length Overall Inches	Height Overall Inches	Weight Pounds
6	\$35.00	10¾	7¾	4¼
12	35.50	10¾	7¾	4¼

"Sea-Tone" HORN

ALL BRASS—CHROMIUM PLATED—WATERTIGHT
WEATHERPROOF—RESONATING
VOLTAGES—6—12—32—110 D.C.
RANGE—2 MILES

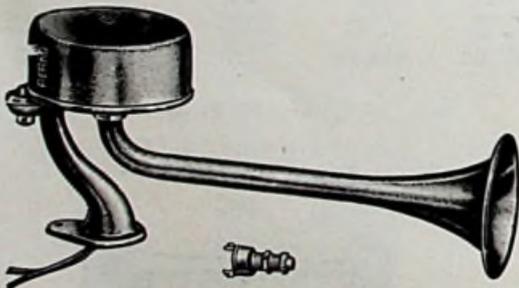


Fig. 576

A horn manufactured for marine use. It has great volume and distinctive tone. It answers the demand for a high quality marine horn that can be heard at great distance and stand the arduous test of use on salt water.

Supplied complete with heavy duty push button and 16 feet of cable in two eight-foot lengths.

Volts	Each	Extreme Length Inches	Extreme Height Inches	Weight Pounds
6	\$75.00	19	8½	6½
12	75.00	19	8½	6½
32	75.00	19	8½	6½
110 D.C.	98.00	19	8½	6½

110 A.C. supplied to order, price on application.

Packed in individual cartons.

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED

"Sea-Pitch" HORN
BRASS—CHROMIUM PLATED
6 OR 12 VOLTS

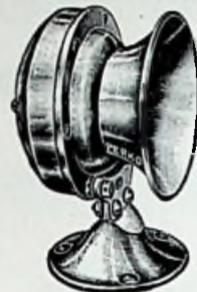


Fig. 1121

A horn designed to meet the need for a brass horn made for marine use at a price that every small boat owner can afford. Has a very loud tone that can be heard at a great distance.

The diaphragm is cadmium plated, salt spray tested.

6 Volt Each	12 Volt Each	Length Overall Inches	Height Overall Inches	Diam. Base Inches	Weight Pounds
\$18.75	\$19.75	5	7¼	3¾	3¼

"Tornado" Single HORN

BRASS—CHROMIUM PLATED
STAINLESS STEEL DIAPHRAGM

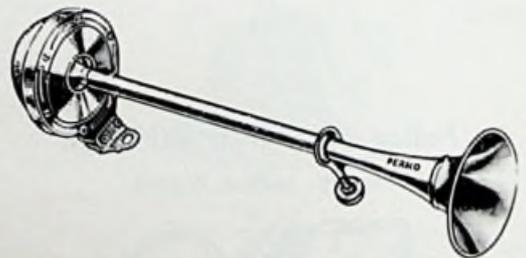


Fig. 989

Supplied with cable, relay and fastenings, no button.

6 Volt Each	12 Volt Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$34.85	\$35.00	22¾	5¾	6¼	6

"Tornado" Twin HORNS

BRASS—CHROMIUM PLATED
STAINLESS STEEL DIAPHRAGM

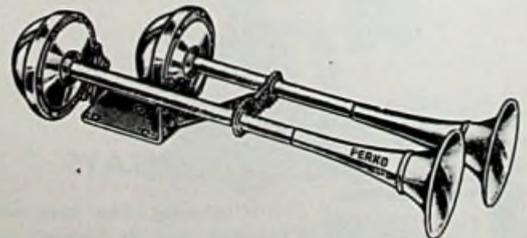


Fig. 990

Supplied with cable, relay and fastenings, no button.

6 Volt Each	12 Volt Each	Length Inches	Width Inches	Height Inches	Weight Pounds
\$67.50	\$67.75	24	8¾	5½	12½



"Sea-Mite" Streamline HORN

STAINLESS STEEL DIAPHRAGM
DIE CAST BODY AND BASE
CHROMIUM PLATED—6 OR 12 VOLTS

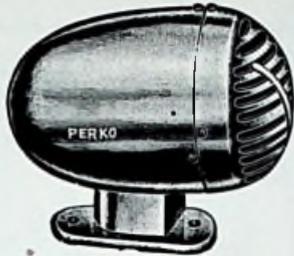


Fig. 1120

A HORN—NOT A SIREN

This horn has exceptional tone quality for its size and is ideally suited for runabouts and small cruisers.

Note that the diaphragm is of stainless steel.

Furnished complete with 10 feet of cable and push button.

6 Volt Each	12 Volt Each	Length Inches	Height Inches	Diameter Inches	Weight Pounds
\$35.50	\$35.50	7	6	4½	4¼

Specify voltage when ordering.

"Perko" SEA HORN

ZAMAK DIE CASTING—CHROMIUM PLATED
WITH DISPOSABLE FREON CONTAINER
PORTABLE—EXTREMELY LOUD DEEP TONE



Fig. 530

A loud deep toned self-powered horn which can be heard for miles. It commands attention from other boats, bridge tenders, etc.

Requiring no battery or other form of remote power this horn is ideal for outboard motor boats, sailboats, rowboats and other small vessels.

Every freon container has its own valve, therefore, whenever a new container is used a new valve is automatically supplied.

Full container supplies 600 one second blasts.

Each horn packed in attractive counter display box.

Complete Each	Spare Containers Each	Height Overall Inches	Length Overall Inches	Weight Pounds
\$12.95	\$2.00	6½	8¼	1½

Heavy Duty Marine SIREN

DIE CAST BODY AND BASE
CHROMIUM PLATED—6, 12 OR 32 VOLTS
THE YACHTSMAN

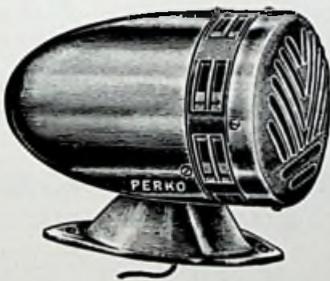


Fig. 1118

A siren that audibly commands the right of way. An ear-piercing tone that can be heard for miles.

Has specially designed motor for economical operation. Equipped with greased sealed ball bearings for smooth operation.

Furnished complete with long cable and heavy duty push button.

6 Volt Each	12 Volt Each	32 Volt Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
\$75.00	\$75.00	\$75.00	10¼	7½	5¾	10

Marine SIRENS

DIE CAST BODY AND BASE
CHROMIUM PLATED—6 OR 12 VOLTS
THE SEA-MITE

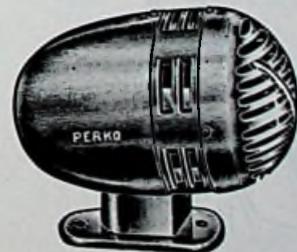


Fig. 1117

A siren of fine tone quality, dependability and performance.

Furnished complete with 10 feet of cable and heavy duty push button.

6 Volt Each	12 Volt Each	Length Inches	Height Inches	Diam. Inches	Weight Pounds
\$38.75	\$42.00	7	6	4½	4¼

NOTE — PLEASE SPECIFY VOLTAGE, OTHERWISE 6 VOLT WILL BE SUPPLIED



STREAMLINED MASTS

**CAST ALUMINUM
HINGED FORWARD**

**PAINTED WHITE ENAMEL
WITH CLEAT AND EYES FOR HALYARD**

Every cruiser large or small should be equipped with a mast of this type to complete or add to its rakish streamlined appearance, carry its signal flags, range light and antenna.

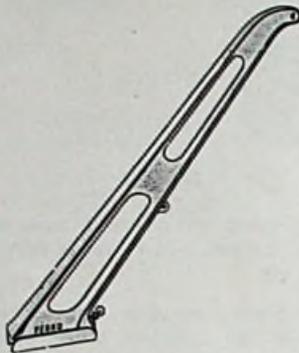
This assortment has been designed and made with lightweight, strength, appearance and utility in mind.

Note the hinged base with large thumb screw to permit instant lowering of the mast when passing under low bridges. All types have a halyard cleat and a glare shield to reduce reflection of range light.

White enamel is our stock finish, but, of course the owner may repaint to suit his own color requirements.

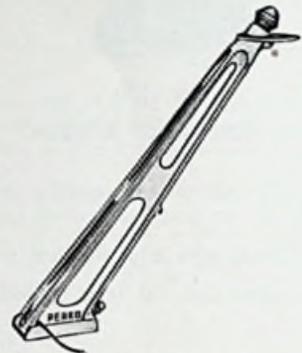
All lengths shown do not indicate the vertical height above deck but are actually the length of the mast.

Structural Type For Small Cruisers—No Yardarm



WITHOUT LIGHT
Fig. 42

Each	Length Inches	Dimensions Base Inches	Weight Pounds
\$10.70	22	4½x2¾	2



WITH LIGHT
Fig. 47

Each	Length Inches	Dimensions Base Inches	Weight Pounds
\$16.20	22	4½x2¾	2¾

For Large Cruisers

STRUCTURAL TYPE

**HOLLOW TYPE
WITH LIGHT AND GLARE SHIELD**

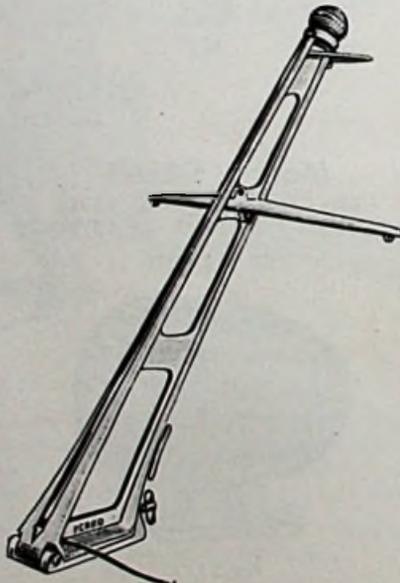


Fig. 37 With Yardarm

No.	Without Light Each	With Light Each	Length Inches	Dimensions Base Inches	Width Yardarms Inches	Weight Pounds
1	\$36.50	\$43.20	33	7½x3½	23½	7½
2	54.75	62.25	52	9¾x4¾	33½	13

Fig. 36 Without Yardarm

No.	Without Light Each	With Light Each	Length Inches	Dimensions Base Inches	Weight Pounds
1	\$31.00	\$37.65	33	7½x3½	6
2	49.25	55.75	52	9¾x4¾	11

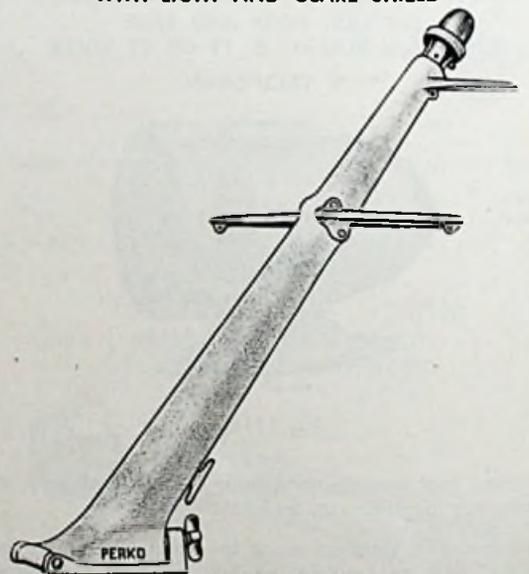


Fig. 41 With Yardarm

No.	Each	Length Inches	Dimensions Base Inches	Width Yardarms Inches	Weight Pounds
1	\$55.00	33	8¼x3¾	23½	8
2	79.50	52	10½x4¾	31½	14

Fig. 40 Without Yardarm

No.	Each	Length Inches	Dimensions Base Inches	Weight Pounds
1	\$50.75	33	8¼x3¾	6¾
2	74.00	52	10½x4¾	12



ASH TRAYS and GLASS HOLDERS

SWINGING TYPE
ALL BRASS—CHROMIUM PLATED

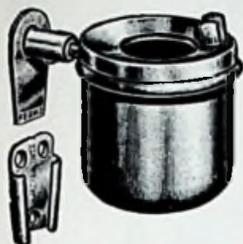


Fig. 798

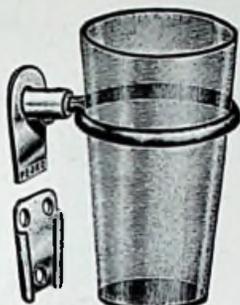


Fig. 799

BEER CAN HOLDER



Fig. 804

Holds 12 oz. beer cans or straight sided glasses.

Fig.	Each	Size Mounting Plate Inches	Inside Diam. Ring Inches	Weight Ounces
798	\$7.00	1 1/4 x 1 1/4	2 3/4	13 1/2
799	4.50	1 1/4 x 1 1/4	2 3/4	3 1/2
804	4.75	1 1/4 x 1 1/4	2 3/4	5

Spare Mounting Plates, \$1.50 each.

AEROSOL CAN HOLDER

STEEL—CADMIUM PLATED

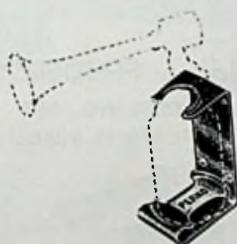


Fig. 601

This holder perfectly fits pressurized cans containing mosquito spray, shaving cream, paint, etc. Here is a handy holder to keep those cans available and safe.

Each	Height Overall Inches	Width Overall Inches	Diameter Base Inches	Weight Ounces	Packed Per Box
\$.75	5 1/4	2	3	5	12

ROPE LADDERS

WITH FLAT ASH STEPS

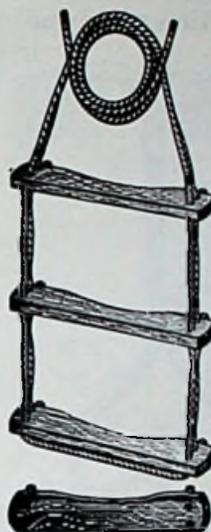


Fig. 992

Steps are mahogany stained, shellacked and varnished. Dimensions of steps, 15x3 3/4 x 3/4 inches.

Steps are 12 inches apart, cut out on back for hand hold, each step has white rubber bumpers.

Rope is 1/2 inch diameter manila and has 3 foot loop above top step for hanging.

Number of Steps	Each	Number of Steps	Each
2	\$11.75	5	\$19.20
3	13.30	6	22.00
4	16.25		

Additional steps supplied to order, add \$4.50 Each.

ROPE LADDER HOOK

CAST BRONZE



Fig. 817

Length Overall Inches	Projection Overall Inches	Weight Per Pair Pounds
3	1 1/4	1 1/4

Burnished Per Pair	Polished Chrome Per Pair
\$4.20	\$6.30

Aluminum RACING FIN

CAST SILICON ALUMINUM



Fig. 189

Length Overall Inches	Depth Blade Inches	Size Flange Inches	Weight Lbs.
9 1/4	5	2 3/8 x 9 1/4	1

Undrilled Each	Drilled Each
\$3.00	\$3.75

Drilled fin supplied unless otherwise specified.



FOLDING SWIMMING LADDERS

ALUMINUM TUBING—MAHOGANY STEPS—WHITE RUBBER TRIM—RUBBER BUMPERS

"Stirrup" Type

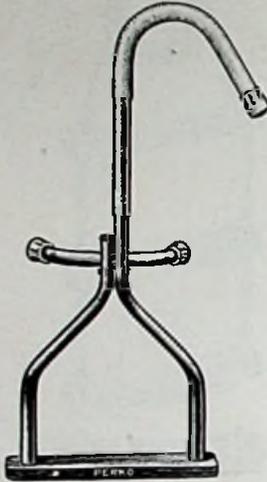
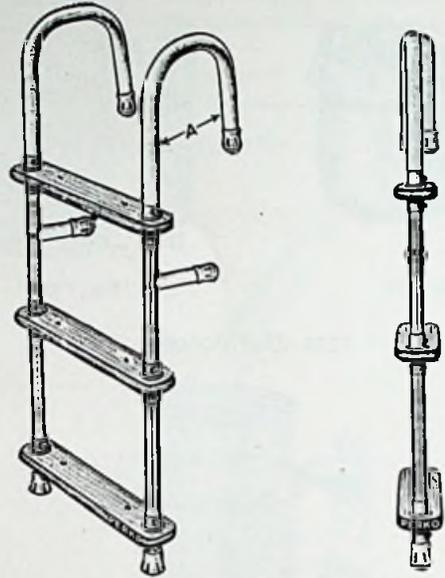


Fig. 1091

Adjustable to various lengths of 28, 31 and 35 inches.

Each	Space Inside Hook Inches	Width Overall Inches	Weight Pounds
\$9.00	6	13	2½

**"Heavy Duty" Type
ANODIZED**



Open for Use

Closed for Stowing

Fig. 1004

A ladder that meets every requirement for small boats, especially desirable for water skiers, aquaplaning and swimming.

The aluminum tubing is anodized and salt water resistant.

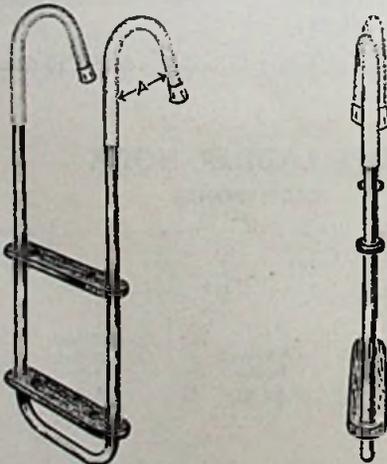
The folding feature permits stowing under deck or seats. Thickness when folded is only 3 inches.

All parts which come in contact with the boat deck or hull are covered with white rubber.

For outboard and inboard runabouts and cruisers.

No.	Each	Number of Steps	Size At "A" Inches	Length Overall Inches	Width Overall Inches	Weight Pounds
1	\$21.50	3	7	37	15½	5¾
2	23.00	3	9	37	15½	6
3	29.50	4	11	48	15½	7

Standard Type



Open for Use

Closed for Stowing

Fig. 999

For outboards, rowboats and small inboards. Folds to thickness of 3 inches for stowing.

Number of Steps	Each	Size At "A" Inches	Length Overall Inches	Width Overall Inches	Weight Pounds
1	\$11.75	6	30½	15½	3¾
2	14.25	6	30½	15½	4¼
3	17.25	6	37	15½	5

Folding FENDERS

FOR LADDER FIG. 999

MAHOGANY—WITH WHITE RUBBER BUMPERS



Fig. 1094

For attachment to ladders if required.

Complete with aluminum bolts and wing nuts.

Per Pair	Length Overall Inches	Length Bolt Inches	Weight Per Pair Ounces
\$2.75	7¾	2½	8



Folding BOARDING LADDERS

MAHOGANY WITH CAST BRONZE FITTINGS

Made of high quality mahogany, varnished. Supplied complete with plates for hanging and polished bronze or chromium plated fittings.

CLOSED 2 STEPS—OPEN 4 STEPS

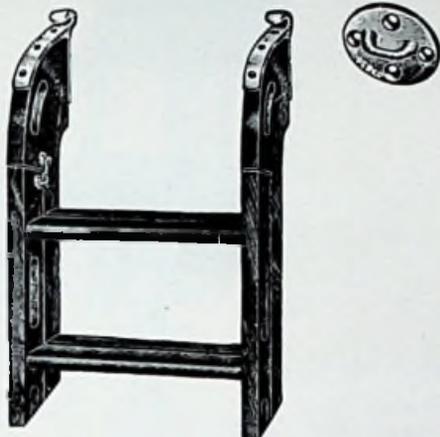


Fig. 557

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
\$64.50	\$71.50	36	21½	15	9½

CLOSED 3 STEPS—OPEN 6 STEPS

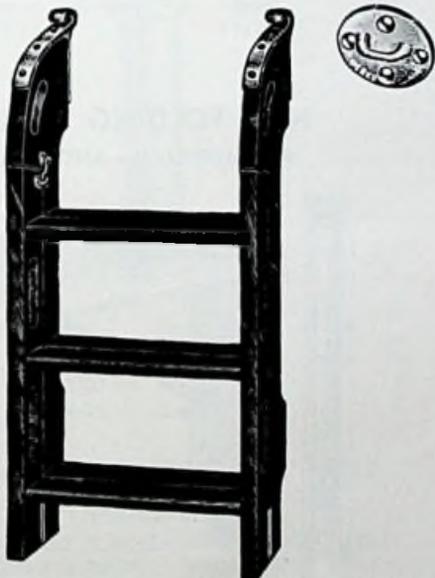


Fig. 558

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Overall Length Open Inches	Overall Length Closed Inches	Overall Width Inches	Weight Pounds
\$67.00	\$74.00	51	30	15	12½

SPARE PARTS

Hooks and Hanging Plates, See Fig. 717

Hinges, See Fig. 556

Cabin Door Hooks, See Fig. 956

DELUXE LADDERS

With black rubber matting and chromium plated moulding on step made to order. Fig. 557 add \$16.00 each. Fig. 558 add \$23.50 each.

LADDER LOCKS

FOR COMPANIONWAY OR UPPER BERTH
CAST BRONZE

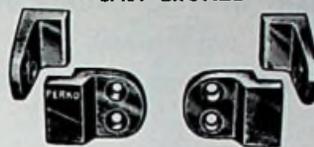


Fig. 669

Height Inches	Length Socket Inches	Length Bracket Inches	Weight Per Set Ounces
1¼	1	1¾	12

Complete		Spare Sockets Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$4.50	\$5.50	\$3.25	\$4.00

A set consists of four pieces illustrated.

LADDER HOOKS

CAST BRONZE

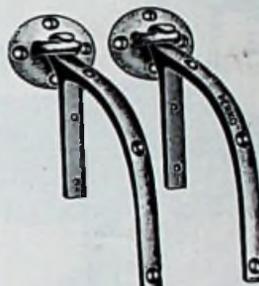


Fig. 670

Extreme Length Inches	Length Brace Inches	Size Plate Inches	Weight Per Set Pounds
12	4	2½x3¼	4

Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$19.00	\$24.00	\$6.00	\$8.00

LADDER HOOKS for Folding Boarding Ladder CAST BRONZE

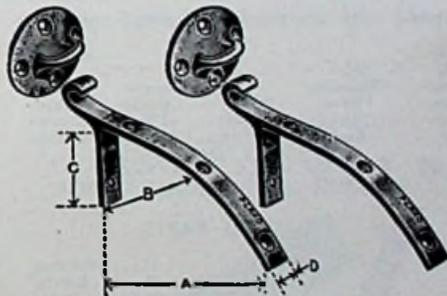


Fig. 717

Used on our Figs. 557 and 558 folding boarding ladders. Designed for wide woodwork.

A Inches	B Inches	C Inches	D Inches	Length Curved Arm Inches	Size Plate Inches	Weight Per Set Pounds
6½	4	2½	¾	7	2½x3¼	2½

Complete		Plates Only	
Polished Bronze Per Set	Chromium Plated Per Set	Polished Bronze Per Pair	Chromium Plated Per Pair
\$17.50	\$22.50	\$6.00	\$8.00



Swivel FISHING CHAIR

MAHOGANY WITH CAST BRONZE FITTINGS
 DEMOUNTABLE
 WITH COVER FOR DECK FLANGE

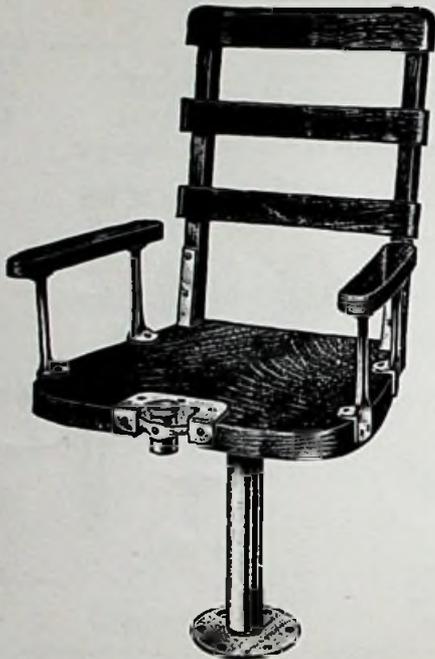


Fig. 559

Complete with universal fishing rod socket.

With Polished Bronze Fittings Each	With Chromium Plated Fittings Each	Height of Seat Inches	Dimensions of Seat Inches	Diam. Deck Flange Inches	Weight Pounds
\$140.00	\$155.00	18	19x22	7	45

SPARE PARTS

No.	No. Per Chair	Polished Bronze Each	Chromium Plated Each
1 Rod Socket Complete	1	\$15.00	\$18.00
2 Seat Flange, Plain	1	9.50	
3 Pedestal—2 inch pipe	1	13.50	16.50
4 Deck Flange Complete	1	16.00	18.00
5 Arm Supports	4	4.75	6.00
6 Back Rest Sockets	2	4.75	6.00
7 Back Rest Brace	1	10.75	13.00

Swivel FISHING CHAIR

ALUMINUM—WITH MAHOGANY ARM RESTS
 KAPOK FILLED CUSHION—RED, BLUE OR GREEN

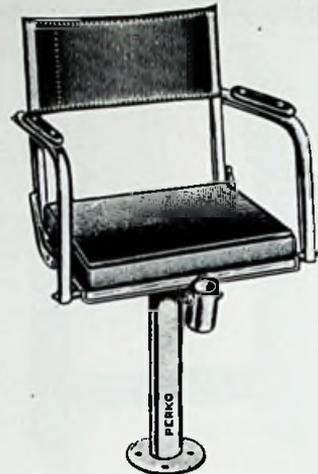


Fig. 580

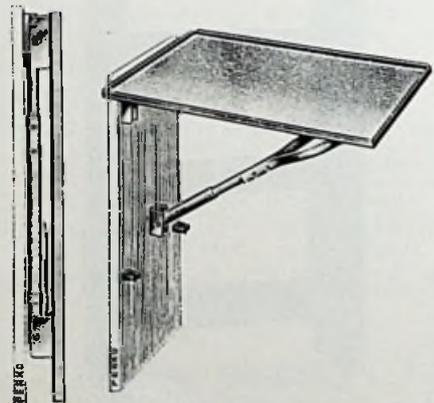
For small inboard and outboard cruisers, can easily be taken apart for stowage.

LIGHTWEIGHT—STRONG—COMFORTABLE

Each	Dimensions of Seat Inches	Height of Seat Inches	Height of Back Inches	Weight Pounds
\$49.75	16½x11	19	17	13

New FOLDING TABLE

ALL ALUMINUM—ANODIZED



Closed

Open

Fig. 977

Just right for small cruisers, sailboats, etc. where space is limited.

Folds down against bulkhead to a space of only 2¼ inches. Supplied with clamps to hold in folded position.

Table top has raised edges to prevent dishes sliding off, corners are open for drainage.

Each	Length Top Inches	Width Top Inches	Weight Pounds
\$22.50	24	18	6



Improved Outrigger or FISHING POLE SOCKETS

HEAVY BRASS TUBING—CAST BRONZE BRACKETS
DETACHABLE



Fig. 460

Note the detachable brackets permitting stowage of the socket when not in use.

No.	Chromium Plated Each	Brackets Only Per Pair	Inside Diam. Inches	Extreme Length Inches	Size Plate Inches	Weight Pounds
1	\$15.00	\$9.00	1 7/8	9 1/2	2 1/2 x 2	2 1/2
2	19.00	10.50	2 3/8	11 3/4	2 1/2 x 2	4

FISHING POLE SOCKETS

ALL ALUMINUM—POLISHED



Fig. 1099

A low-priced socket very light but very strong.

Each	Inside Diam. Inches	Extreme Length Inches	Width Brackets Inches	Weight Ounces
\$5.50	1 7/8	8 3/4	3 3/4	5 1/2

Brackets only \$1.70 per pair.

Outrigger or FISHING POLE SOCKETS

HEAVY BRASS TUBING—BRASS BRACKETS



Fig. 1100

No.	Chromium Plated Each	Brackets Only Per Pair	Inside Diam. Inches	Extreme Length Inches	Width Bracket Inches	Wt. Lbs.
1	\$7.85	\$3.00	1 7/8	9	3	1
2	15.00	9.00	2 3/8	11 3/4	4	3

Gimbal FISHING ROD SOCKETS

ALUMINUM—BRIGHT ETCH FINISH



Fig. 481

For attaching to chairs, seats, benches, etc.

Each	Inside Diameter Inches	Length Brackets Inches	Depth Socket Inches	Weight Ounces
\$4.90	1 7/8	2 1/2	2 3/4	7

A pair of aluminum "U" bolts for attaching above socket to tubular chairs is available. Specify Fig. 481-A \$.80 per pair.

Adjustable OUTRIGGER POLE HOLDERS

HEAVY BRASS TUBING—BRONZE CASTINGS
MANGANESE BRONZE TIGHTENING BOLT



Fig. 475

May be adjusted quickly to any desired angle or position vertically and horizontally. Locked by large thumb bolt illustrated.

Burnished Finish Each	Chromium Plated Each	Inside Diam. Socket Inches	Length Socket Inches	Dimensions Base Inches	Weight Pounds
\$15.25	\$22.00	1 7/8	9 1/2	3 3/8 x 2 1/4	3 3/4

RUBBER LINERS

FOR OUTRIGGER POLE HOLDERS

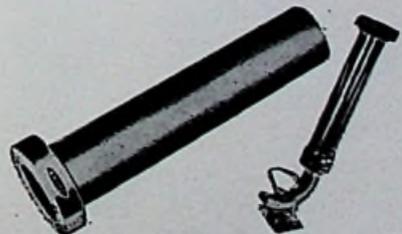


Fig. 648

Per Pair	Length Inches	Outside Diameter Inches	Inside Diameter Inches	Weight Per Pair Ounces
\$2.75	9	1 3/4 to 2	1 1/2 to 1 3/4	13



Folding HELMSMAN'S SEAT

ALL HEAVY GAUGE ALUMINUM
KAPOK FILLED CANVAS COVERED CUSHION
COLORS, RED, BLUE OR GREEN

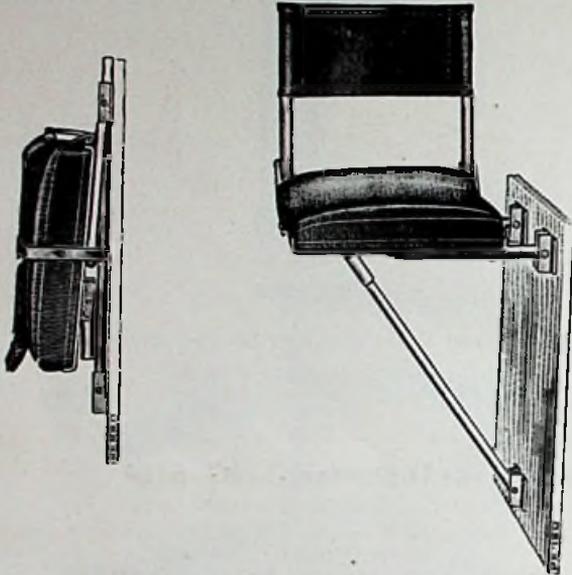


Fig. 931

An excellent item for cruisers of all sizes. Especially appreciated by the boat owner who has spent hours at the wheel.

The seat cushion is soft, comfortable and roomy enough for the person with wide beam. It is quickly detached for emergency use.

The back is set at proper angle for steering comfort, not for sleeping.

The entire unit folds without effort into a very compact package out of the way when standing is necessary.

May be installed on port or starboard side.

Each	Dimensions of Seat Inches	Height of Back Inches	Weight Pounds
\$29.50	16 $\frac{3}{8}$ x11 $\frac{1}{4}$	18	8

Other colors can be supplied, made to order only in quantity and with manufacturing time allowed. Price and details on application.

Extra SEAT SUPPORTS FOR FOLDING HELMSMAN'S SEATS

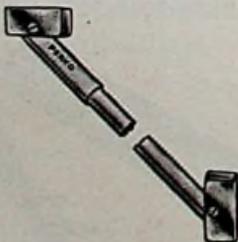


Fig. 963

For attachment to Fig. 931 helmsman's seat when heavier duty or greater strength is required.

As illustrated
Per Set — \$6.00

Heavy Duty Folding HELMSMAN'S SEAT

ALL HEAVY GAUGE ALUMINUM
KAPOK FILLED CANVAS COVERED CUSHION
COLORS, RED, BLUE OR GREEN

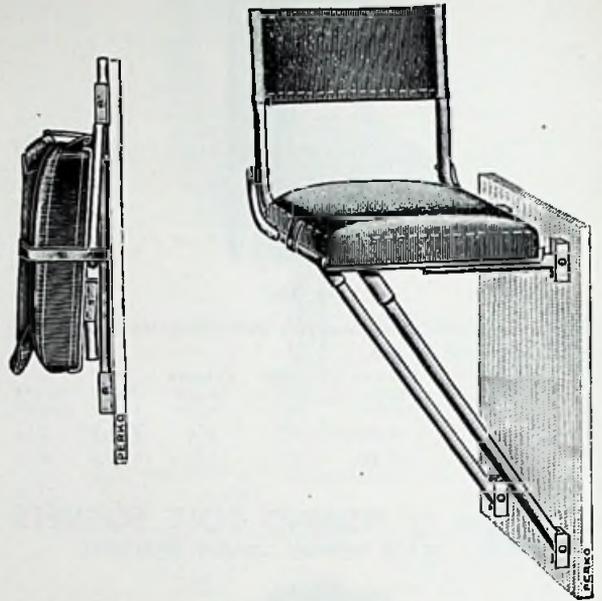


Fig. 962

Same general construction, appearance and details as Fig. 931. An extra seat support has been added and back rest braces are much heavier and stronger.

Each	Dimensions of Seat Inches	Height of Back Inches	Weight Pounds
\$35.00	16 $\frac{3}{8}$ x11 $\frac{1}{4}$	18	8 $\frac{1}{2}$

Other colors, see Fig. 931.

Folding STOOLS VARNISHED SEAT—CAST BRONZE BRACKET

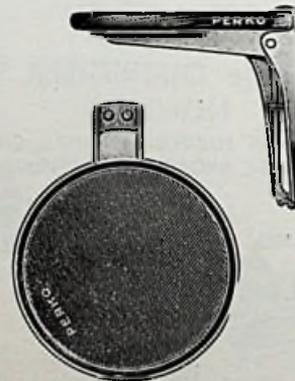


Fig. 1009

No.	Each	Diam. Seat Inches	Projection Inches	Length Bulkhead Bracket Inches	Weight Pounds
1	\$15.00	12	12 $\frac{1}{2}$	11	7
2	17.00	14	15	11	8



Swivel HELMSMAN'S SEAT

ALL HEAVY GAUGE ALUMINUM
KAPOK FILLED CANVAS COVERED CUSHION
HEAVY DUTY CONSTRUCTION
COLORS, RED, BLUE OR GREEN

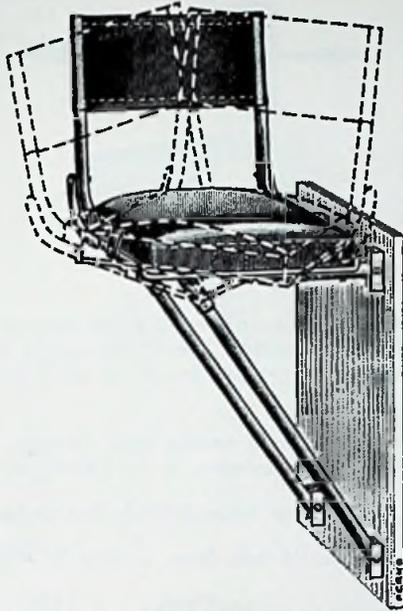


Fig. 966

The seat revolves in a 360° circle and is supported on a strong swivel, turning on stainless steel ball bearings.

The entire unit folds into a small space when use is not required.

The seat has two bulkhead brackets and two seat supports which can be easily changed over for port or starboard mounting.

The seat cushion is detachable for use as a life preserver in an emergency.

Each	Dimensions of Seat Inches	Height of Back Inches	Weight Pounds
\$39.50	16 3/4 x 11 1/4	18	10

Folding FOOT REST

HEAVY GAUGE ALUMINUM

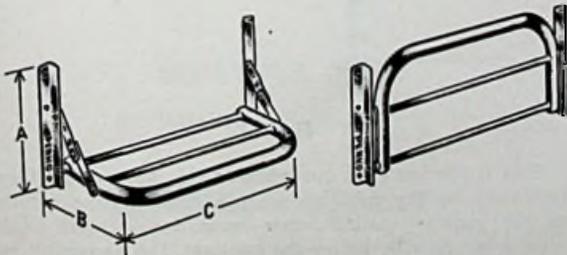


Fig. 967

Folds flat against bulkhead when not in use. Strong enough to stand on if necessary.

No.	Each	A Inches	B Inches	C Inches	Weight Pounds
1	\$8.50	8	8	12	1
2	9.50	8	8	16	1 1/2

Standard FOLDING STEP

FOR COCKPIT OR COMPANIONWAY
ALUMINUM FRAME, HINGES AND BRACKETS
VARNISHED MAHOGANY STEP

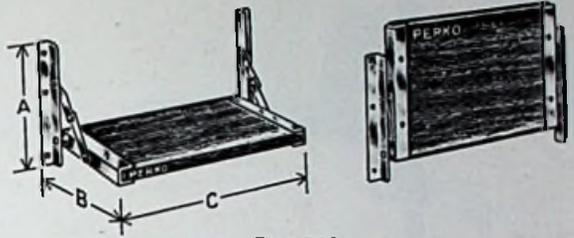


Fig. 543

Also serves as small folding table in cockpit, for ash-trays, drinks, etc.

Each	A Inches	B Inches	C Inches	Weight Pounds
\$12.00	8	9	14	3

De Luxe FOLDING STEP
FOR COCKPIT OR COMPANIONWAY
SOLID MAHOGANY—SPAR VARNISHED
WHITE RUBBER STEP PAD

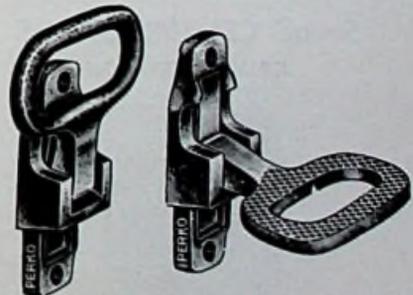


Fig. 602

Supplied complete with hinge and strong folding brackets, all brass, chromium plated.

Complete Each	Spare Folding Brackets Per Pair	Dimensions Step Inches	Thickness Step Inches	Weight Pounds
\$19.50	\$14.50	13 3/4 x 9	3/8	5 1/2

FOLDING STEP
MANGANESE BRONZE—STAINLESS STEEL SPRING



FOLDED

OPEN

Fig. 344

For mounting on hull or transom, folds up out of way when not in use. Spring holds step in position.

Chromium Plated Each	Size Step Inches	Size Base Inches	Extends Folded Inches	Weight Pounds
\$7.75	4x2	4 1/4 x 1 1/4	3/8	1 1/8



Sliding Adjustable GOOSENECK
CAST MAGANESE BRONZE

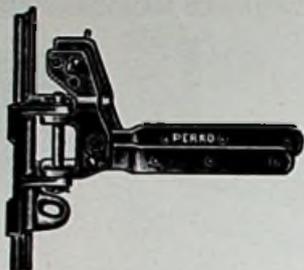


Fig. 915

Has three positions for tack of sail, two positions for boom. Ideal and universal for most small boats. Will accommodate booms up to 1 1/4 inches thick if necessary.

Burnished Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$6.25	3/8	3/4 or 7/8	4 3/4	12

Lightweight Sliding GOOSENECKS
CAST BRONZE—BURNISHED

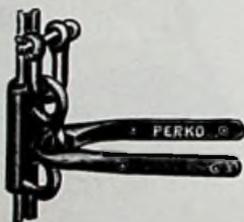


Fig. 916

Straps are adjustable for booms of various thickness. Track not included.

Each	For Track Inches	For Boom Thickness Inches	Length Inside Straps Inches	Weight Ounces
\$4.00	5/8	up to 1 1/2	3 1/2	8

Snipe CENTERBOARDS
GALVANIZED IRON



Fig. 134

Each	Height Inches	Width Inches	Thickness Inches	Weight Pounds
\$12.00	36	21	3/8	36

WIND PENNANTS

ADJUSTABLE COUNTERBALANCE
ALUMINUM PENNANT—BRASS STANDARD

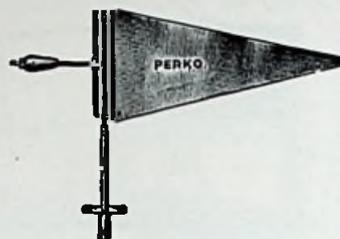


Fig. 435

Pennant swings on a needle point pivot and has an adjustable counterbalance should the weight of the pennant change from the 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, Red or Blue

For Mast 1 Inch Diam. at Top, 3/8" Role

No.	Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
1	\$4.50	6 1/2 x 3	6 1/2	2 1/2
2	5.00	9 1/2 x 4 1/2	7 3/4	4

Improved WIND PENNANTS
ADJUSTABLE COUNTERBALANCE

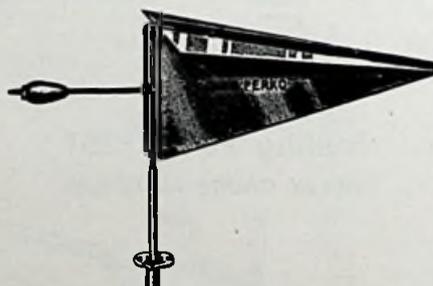


Fig. 837

This is the same as our popular Fig. 435 wind pennant improved by the addition of a horizontal vane attached to the regular vertical vane permitting a more distinct view when directly below the pennant. The horizontal vane is detachable if not required.

Furnished in painted finish, either red or blue.

No.	Complete Each	Size of Pennant Inches	Height Overall Inches	Weight Ounces
5	\$4.75	6 1/2 x 3	6 1/2	3
6	5.25	9 1/4 x 4 1/2	7 3/4	5



Bronze WIRE ROPE SOCKETS

CAST BRONZE—BURNISHED

Eliminating the necessity of splicing wire rigging, especially the difficult splicing of stainless steel. While lead is commonly used when socketing the wire, we recommend the use of zinc.

CLOSED TYPE



Fig. 756

No.	Each	Diam. Wire Inches	Width Inside Inches	Length Overall Inches	Weight Ounces
00	\$.75	1/16	3/8	1 3/4	1
0	.75	1/8	3/8	1 3/4	1
1	.75	1/4	3/8	1 3/4	1
2	1.00	3/8	1/2	2 1/4	2
3	1.20	1/2	5/8	2 3/4	3
4	2.00	5/8	3/4	3	4 1/2
5	2.30	3/4	1	3 3/4	8

OPEN TYPE



Fig. 757

No.	Each	Diam. Wire Inches	Jaw Opening Inches	Diam. Pin Inches	Length Overall Inches	Weight Ounces
9	\$1.20	1/16	1/4	1/4	1 3/4	1
10	1.20	1/8	1/4	1/4	1 3/4	1
11	1.20	1/4	1/4	1/4	1 3/4	1
12	1.45	3/8	3/8	3/8	2 1/4	2 1/2
13	2.10	1/2	3/8	3/8	2 3/4	3 1/2
14	2.65	5/8	1/2	1/2	3 1/4	5
15	3.50	3/4	3/8	3/8	3 1/2	9

BELAYING PINS

GALVANIZED MALLEABLE IRON



Fig. 366

Diam. Shank Inches	Galv. Each	Length Head Inches	Extreme Length Inches	Weight Each Pounds
3/8	\$1.15	3	8	3/8
1/2	1.80	3 3/8	9 1/2	3/4
5/8	2.20	3 3/4	10 1/4	1
3/4	2.65	4 1/4	11	1 1/4

Fast Eye SNAP SHACKLES

CAST BRONZE—BURNISHED



Fig. 873

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$3.90	1/4	3/8	3/8	5/8	2
1	3.90	3/8-3/8	1/2	3/4	1 1/8	4
2	5.10	3/8-1/2	3/4	1 1/8	1 3/8	7

Swivel Eye SNAP SHACKLES

CAST BRONZE—BURNISHED



Fig. 874

No.	Each	For Diam. Rope Inches	I. D. Eye Inches	Length Inside Inches	Width Inside Inches	Wt. Ozs.
0	\$5.30	1/4	3/8	1 1/8	3/8	3
1	6.25	3/8-3/8	3/8	3/4	1 1/8	6

BLOCK SHACKLES

FORGED BRONZE



Fig. 893

No.	Size Inches	Dull Finish Each	Length Inside Inches	Width Inside Inches	Diam. Pin Inches	Wt. Ozs.
0	3/16	\$.65	5/8	3/8	3/8	1/2
1	1/4	.75	3/4	3/8	1/2	1
2	5/16	1.00	1 1/8	5/8	3/8	1 1/2

HALYARD SHACKLES

CAST MANGANESE BRONZE—BURNISHED



Fig. 887

Size Inches	Each.	Diam. Pin Inches	Length Inside Inches	Width Inside Inches	Weight Ounces
1/4	\$1.50	3/8	1 3/8	5/8	2 1/2



ANCHOR SHACKLES GALVANIZED DROP FORGED STEEL OR BRONZE

SCREW PIN



Fig. 314

ROUND PIN

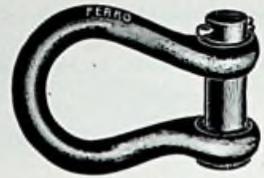


Fig. 315

Prices and Dimensions Below Apply to both Figs. 314 and 315.

Size Inches	Galvanized Each	Plain Bronze Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Steel Weight Per 100 in Pounds	Steel Approx. Strength in Pounds
3/16	\$.55	\$.90	3/8	3/8	1/4	7	3000
1/4	.55	1.05	1 1/8	3/8	3/8	12	4005
5/16	.62	1.30	1 1/4	3/8	3/8	20	6165
3/8	.68	1.95	1 1/2	3/8	3/8	31	7920
7/16	.88	2.90	1 3/4	3/4	1/2	47	11925
1/2	1.05	3.80	2	3/8	5/8	69	15570
5/8	1.60		2 1/2	1 1/8	3/4	137	26100
3/4	2.30		2 3/4	1 3/8	3/8	219	35280
7/8	3.00		3 1/4	1 1/2	1	319	47700
1	4.30		3 1/2	1 5/8	1 1/8	500	58140
1 1/8	6.20		4 1/8	1 7/8	1 1/4	681	68400
1 1/4	7.70		4 1/4	2	1 3/8	950	85500
1 3/8	9.60		4 3/8	2 1/4	1 1/2	1218	104400
1 1/2	12.45		6	2 1/2	1 5/8	1625	124200
1 3/4	17.60		8	3	2	2700	190800
2	26.50		8	3 3/8	2 1/4	3725	230400

Bronze Shackles are only furnished with screw pin, Fig. 314.
Galvanized 3/16 inch size supplied only with screw pin, Fig. 314.

CHAIN SHACKLES GALVANIZED DROP FORGED STEEL

SCREW PIN

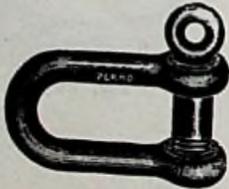


Fig. 338

ROUND PIN

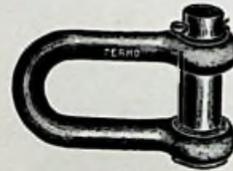


Fig. 339

Size Inches	Galvanized Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
1/4	\$.55	1 1/8	3/8	3/8	10	4700
3/8	.62	1	3/8	3/8	18	7200
1/2	.68	1 1/4	3/8	3/8	28	9300
5/8	.88	1 5/8	3/4	1/2	44	14100
3/4	1.05	2	3/4	5/8	70	18300
7/8	1.60	2 1/2	1 1/8	3/4	130	30800
1	2.30	3	1 1/4	7/8	212	41600
1 1/8	3.00	3 1/2	1 3/8	1	300	56000
1 1/4	4.30	4	1 5/8	1 1/8	470	68800

MIDGET SHACKLE STEEL—ZINC-PLATED SCREW PIN



Fig. 311

Size Inches	Each	Length Inside Inches	Between Eyes Inches	Diameter Pin Inches	Weight Per 100 in Pounds	Approx. Strength in Pounds
5/32	\$.50	1 1/8	3/8	5/32	2 1/2	500



Wire Rope THIMBLES

GALVANIZED FORGED STEEL

FORGED BRONZE AND STAINLESS STEEL



Fig. 466

REGULAR

For Size Rope Inches	Galv. Per 100	Bronze Per Dozen	Stainless Steel Per Dozen	Length Overall Inches	Width Inside Inches	Galv. Wt. Per 100 in Lbs.
1/8	\$ 8.50	\$ 2.40	\$ 2.40	1 3/4	3/8	2 3/8
3/16	8.50	2.40	2.40	1 3/4	1/2	2 3/8
1/4	8.50	3.00	3.00	2	3/4	4 3/8
5/16	10.50	4.20	4.20	2 1/8	13/16	5 1/2
3/8	12.75	6.60	6.60	2 3/8	1 1/8	10 3/8
1/2	17.00	9.00		2 3/8	1 1/2	15 1/2
5/8	25.50	11.40		3 3/8	1 3/8	27 1/2
3/4	33.00	15.00		3 3/8	1 1/2	40
7/8	44.00			4 1/2	1 3/8	55
1	66.00			5 1/4	2 1/8	79

EXTRA LARGE

1 1/8	\$125.00	6 3/4	2 1/2	125
1 1/4	125.00	7	2 3/4	138
1 1/2	286.00	7 1/2	3	250
1 3/4	583.00	10	3 1/2	512
2	605.00	10	3 1/2	600

Sail THIMBLES

GALVANIZED MALLEABLE IRON OR BRASS



Fig. 469

*Size Inches	Galv. Per Dozen	Brass Per Dozen	Diam. Rope Inches	I. D. Hole Inches	Galv. Weight Per Doz. in Lbs.
1/2		\$1.30	1/8	1/4	1/32
3/4	\$1.50	1.80	1/4	1/2	1/4
1	1.80	3.00	3/8	5/8	3/8
1 1/4	2.20	4.50	3/4	3/4	3/8
1 1/2	2.80	6.00	3/4	1	3/8
1 3/4	3.20	7.50	1/2	1 1/4	1 1/8
2	4.80	11.00	3/4	1 1/2	1 1/2
2 1/4	5.00		3/4	1 5/8	2
2 3/4	8.00		3/4	2	3

*Size is from edge to edge across hole.

Manila Rope THIMBLES

GALVANIZED DROP FORGED STEEL



Fig. 468

For Diam. Rope Inches	Galvanized Per 100	I. D. Hole Inches	O. D. Edge to Edge Inches	Weight Per 100 in Lbs.
3/16	\$13.20	3/8	3/4	1 1/2
1/8	13.20	1/2	3/8	2
1/4	16.30	3/4	1	3
3/8	16.90	3/4	1 1/4	5 1/2
1/2	20.10	3/4	1 1/2	9
3/4	23.50	1	1 3/4	17
1	31.50	1 1/8	2	25 1/2
1 1/8	38.70	1 3/8	2 1/4	34
1 1/4	42.40	1 3/8	2 1/2	38
1 1/2	62.90	1 1/2	2 3/4	48

Wire Rope CLIPS

MALLEABLE IRON SADDLE
STEEL U-BOLT AND NUTS



Fig. 333

Size Wire Rope Inches	Cadmium Plated Per 100	Est. Wt. Per 100 in Lbs.	Size Wire Rope Inches	Cadmium Plated Per 100	Est. Wt. Per 100 in Lbs.
1/8	\$12.62	4	1/2	\$ 33.54	40
3/16	12.62	8 1/2	3/4	44.42	62
1/4	16.50	16 1/2	3/4	63.42	101
5/16	18.06	19	3/4	121.50	149
3/8	24.86	25	1	145.00	190



Fig. 497

EYE NUTS

WELDLESS DROP FORGED STEEL

Threaded For Bolt Inches	Galvanized Each	Inside Dimensions Inches	Diam. of Stock Inches	Weight Per 100 in Lbs.
1/4	\$.66	3/4 x 3/4	1/4	19
3/8	.66	3/4 x 3/4	1/4	19
1/2	.76	3/4 x 1 1/8	3/8	25
3/4	.88	1 1/4 x 1 1/2	3/8	38
1	1.32	1 1/2 x 1 3/4	1/2	63
1 1/4	1.90	1 3/4 x 2 1/4	3/4	94

OPEN TURNBUCKLES

DROP FORGED STEEL—HOT GALVANIZED

HOOK AND EYE



Fig. 390

EYE AND EYE



Fig. 391

HOOK AND HOOK



Fig. 392

JAW AND EYE

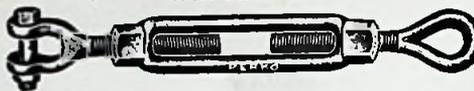


Fig. 393

JAW AND JAW



Fig. 394

Diameter and Take-up Inches	Fig. 390 Each	Fig. 391 Each	Fig. 392 Each	Fig. 393 Each	Fig. 394 Each	Overall Length Closed Inches	Opening in Hook Inches	Inside Eye Inches	Inside Jaw Inches	Approx. Weight Pounds
• 1/4 x 4	\$1.04	\$1.04	\$1.04	\$1.34	\$1.58	8	3/8	1/2 x 5/8	5/8 x 5/8	1/2
• 5/16 x 4 1/2	1.22	1.22	1.22	1.58	1.82	9 1/4	1/2	1/2 x 11/16	1/2 x 3/4	1/2
• 3/8 x 6	1.58	1.58	1.58	2.06	2.32	11 1/4	5/8	3/4 x 1	1/2 x 13/16	3/4
• 1/2 x 6	2.32	2.32	2.32	2.66	3.14	13	1 1/8	3/4 x 1 1/8	5/8 x 1	1 1/2
1/2 x 9	3.28	3.28	3.28	3.88	4.24	16		3/4 x 1 1/8	5/8 x 1	2
1/2 x 12	4.00	4.00	4.00	4.60	5.22	19		3/4 x 1 1/8	5/8 x 1	2 1/2
• 5/8 x 6	2.80	2.80	2.80	3.32	3.76	14	3/4	1 x 1 3/8	1 3/8 x 1 3/8	3
5/8 x 9	3.88	3.88	3.88	4.60	5.32	17		1 x 1 3/8	1 3/8 x 1 3/8	3 3/4
5/8 x 12	4.60	4.60	4.60	5.22	5.94	20		1 x 1 3/8	1 3/8 x 1 3/8	4 1/2
5/8 x 18		6.10		7.24	8.12	26		1 x 1 3/8	1 3/8 x 1 3/8	6
3/4 x 6	4.00	4.00	4.00	4.98	5.56	15 1/2	1 1/8	1 1/8 x 1 1/2	3/8 x 1 1/2	3 1/2
• 3/4 x 9	5.08	5.08	5.08	5.94	6.54	18 1/2		1 1/8 x 1 1/2	3/8 x 1 1/2	4 1/4
3/4 x 12	5.94	5.94	5.94	6.78	7.64	21 1/2		1 1/8 x 1 1/2	3/8 x 1 1/2	5 1/4
3/4 x 18		7.88		9.12	10.30	27 1/2		1 1/8 x 1 1/2	3/8 x 1 1/2	6 3/4
• 7/8 x 12	7.88	7.88		8.72	10.54	23 3/4	1 1/8	1 5/8 x 1 13/16	1 1/8 x 1 3/4	7 3/4
7/8 x 18		9.10		10.60	12.20	29 3/4		1 5/8 x 1 13/16	1 1/8 x 1 3/4	10
* 1 x 12	8.84		8.00	10.06	11.50	25	1 3/8	1 3/8 x 2	1 1/4 x 2	11 1/4
1 x 18		11.50		13.70	15.20	31		1 3/8 x 2	1 1/4 x 2	13 3/4
1 x 24				16.90	18.40	37		1 3/8 x 2	1 1/4 x 2	16 1/4
* 1 1/4 x 12		15.14		18.88	23.00	30		1 13/16 x 2 3/8	1 5/8 x 2	17 3/4
1 1/4 x 18		18.80		23.10	27.30	36		1 13/16 x 2 3/8	1 5/8 x 2	22 3/4
1 1/4 x 24		24.40		27.40	31.60	42		1 13/16 x 2 3/8	1 5/8 x 2	27 3/4
1 1/2 x 12					31.60	32		1 7/8 x 2 3/8	2 x 2 3/8	30
* 1 1/2 x 18					37.52	38		1 7/8 x 2 3/8	2 x 2 3/8	35
1 1/2 x 24					48.50	44		1 7/8 x 2 3/8	2 x 2 3/8	41

For one lock nut add 5% to above, for two locknuts add 10% to above.

*Indicates standard marine length. Same will be shipped when no length is specified.

All turnbuckles have right and left hand threads.

3/4 inch diameter and larger in jaw type are supplied with pin and cotter instead of bolt and nut.



Improved Pipe TURNBUCKLES

GALVANIZED DROP FORGED STEEL
WITH LOCK NUTS



Eye and Eye Fig. 381
Jaw and Jaw Fig. 382



Jaw and Eye Fig. 398

Diam. Thread Inches	Fig. 381 Eye & Eye Each	Fig. 382 Jaw & Jaw Each	Fig. 398 Jaw & Eye Each	Length of Pipe Inches	Weight Per 100 in Lbs.
1/4		\$ 2.86	\$ 2.50	5 1/2	47 1/2
3/8		3.20	2.86	5 1/2	62 1/2
1/2		3.74	3.30	6	102
3/4		5.20	4.50	8	178
1	\$ 3.30	7.26	6.40	10 1/2	369
1 1/4	4.40	9.30	8.70	10 1/2	500
1 1/2	5.75	13.20	12.10	13	775
1 3/4	7.75	17.00	15.10	14 3/4	1025
2		26.40	24.20	16	2050

Petite TURNBUCKLES

CAST BRONZE—S.A.E. THREADS



Fig. 396

No.	Burnished Per Dozen	Diam. Ends Inches	Length Extended Inches	Takeup Inches	Weight Per 100 in Lbs.
1	\$4.10	1/8	3	3/4	3
2	4.60	3/16	4	1 1/4	6 1/4
3	7.25	1/4	5	1 1/2	11 1/2
4	8.10	3/8	5 3/4	1 3/4	15
5	10.30	1/2	6 3/4	2 1/4	24 1/2

NOTE—Nos. 1, 2 and 3 have wire eyes. Nos. 4 and 5 have cast solid eyes.

FOOT ROPE PLATES

GALVANIZED FORGED STEEL



Fig. 568

Length Under Eye Inches	Galv. Each	Size Plate Inches	Inside Diam. Eye Inches	Diam. Metal in Eye Inches	Weight Pounds
3	\$.70	3/4 x 1/4	1/2	1/4	3/8
4	.90	7/8 x 3/8	3/4	1/4	3/8
5	1.00	1 x 1/4	3/4	3/8	1/2
6	1.35	1 x 1/4	3/4	3/8	3/4
8	1.60	1 1/4 x 3/8	1	3/8	1
10	2.40	1 1/4 x 3/8	1 1/4	3/8	1 1/2

Bronze Rigging TURNBUCKLES

S. A. E. THREADS—HEXAGON BODY
LIGHTWEIGHT—STRONG



Fig. 917

The use of bronze rod enabled us to produce a very strong lightweight turnbuckle for small boats.

Size Thread Inches	Plain Each	Length Pin to Pin		Jaw Opening Inches	Diam. Pin Inches	Weight Ounces
		Open Inches	Closed Inches			
1/4	\$2.25	7 1/2	5 1/8	3/8	3/16	3 1/2
3/8	2.75	9 1/2	6	1/2	1/4	5

With check nuts, add \$.35 to each turnbuckle.

Bronze Rigging TURNBUCKLES

DROP FORGED—WELDLESS
S. A. E. THREADS



Fig. 459

These are drop forged from special high strength solid bronze bars giving unusual strength as shown in table below.

Size Inches	Plain Each	With Two Check Nuts Add	For Diam. Wire Rope Inches	Weight Each Pounds
1/4	\$ 2.75	\$.35	1/8	3/8
3/8	4.75	.35	3/16	1/2
1/2	6.75	.40	3/8	3/4
3/4	9.75	.55	1/2	1 1/2
1	12.75	.55	5/8	2 1/2

1/4 inch size is cast manganese bronze.

Size Inches	Jaw Opening Inches	Diam. Pin Inches	Length Center to Center of Pins		Ultimate Strength Pounds
			Extended Inches	Closed Inches	
1/4	1/4	1/4	8 3/4	6 3/4	2300
3/8	3/8	3/8	10 3/8	7 1/4	4200
1/2	1/2	1/2	12 1/4	8 3/4	6900
3/4	3/4	3/4	14 1/2	10 1/4	11000
1	1	1	17	12	18000

CHAIN PLATES

GALVANIZED FORGED STEEL



Fig. 569

Length Under Eye Inches	Galvanized Each	Size of Plate Inches	Weight Pounds
4	\$.70	3/4 x 3/8	1/4
6	.85	1 x 3/8	1/2
8	1.10	1 1/8 x 1/4	3/4
10	2.50	1 3/8 x 3/8	1
12	2.80	1 3/8 x 3/8	1 1/4
14	3.25	1 3/8 x 3/8	2 1/8
18	4.75	1 3/8 x 3/8	3



Screw EYE BOLTS

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 500

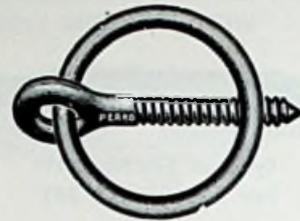
With Shoulder—Fig. 501

Size Inches	Fig. 500 Galv. Each	Fig. 501 Galv. Each	Fig. 501 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.30	\$.30	\$.74	1/2	6
3/16 x 2 1/4	.33	.33	1.05	5/8	9
3/8 x 2 1/2	.40	.40	1.26	3/4	16
1/2 x 3 1/4	.55	.55	2.52	1	35
3/4 x 4	1.00	1.00		1 1/4	67
3/4 x 4 1/2	1.65	1.65		1 1/2	106

Sizes are diameter and length of shank.

Galvanized Screw RING BOLTS

DROP FORGED STEEL



Without Shoulder—Fig. 618

With Shoulder—Fig. 619

Size Inches	Fig. 618 Galv. Each	Fig. 619 Galv. Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.88	\$.88	1 3/4	15
3/8 x 2 1/4	1.00	1.00	2	25
3/8 x 2 1/2	1.10	1.10	2	38
1/2 x 3 1/4	1.50	1.60	2 1/2	85
3/4 x 4		2.40	2 3/4	160
3/4 x 4 1/2		3.90	3	245

Nut EYE BOLTS

GALV. DROP FORGED STEEL OR BRONZE
LARGE EYE



Without Shoulder—Fig. 522

With Shoulder—Fig. 523

Size Inches	Fig. 522 Galv. Each	Fig. 523 Galv. Each	Fig. 523 Plain Bronze Each	Inside Diam. Eye Inches	Galv. Weight Per 100 in Lbs.
1/4 x 2	\$.34	\$.34	\$.85	1/2	7
1/4 x 4	.44	.44	1.15	1/2	10
3/16 x 2 1/4	.40	.40	1.15	5/8	13
3/16 x 4 1/4	.62	.62	1.60	5/8	17
3/8 x 2 1/2	.44	.44	1.50	3/4	21
3/8 x 4 1/2	.62	.62	2.20	3/4	27
3/8 x 6	.78			3/4	32
1/2 x 3 1/4	.66	.66	2.90	1	45
1/2 x 6	1.00	1.00	3.60	1	65
1/2 x 8	1.22			1	75
1/2 x 10	1.32			1	85
3/4 x 4	1.10	1.10		1 1/4	85
3/4 x 6	1.32	1.32	5.25	1 1/4	110
3/4 x 8	1.54			1 1/4	135
3/4 x 10	1.76			1 1/4	160
3/4 x 12	1.98			1 1/4	185
3/4 x 4 1/2	1.66	1.66		1 1/2	132
3/4 x 6	2.10	2.10		1 1/2	160
3/4 x 8	2.32			1 1/2	184
3/4 x 10	2.54			1 1/2	208
3/4 x 12	2.76			1 1/2	232
3/4 x 15	3.08			1 1/2	268
3/4 x 5	2.54	2.54		1 3/4	215
3/4 x 8	3.30	3.30		1 3/4	265
3/4 x 12	3.86			1 3/4	339
1 x 6	3.52	3.52		2	340
1 x 9	4.52	4.52		2	400
1 x 12	4.84			2	463
1 x 18	5.84			2	586

Sizes are diameter and length of shank.

Special lengths and threading available if ordered in manufacturing quantities.

Bronze eye bolts are drop forged bronze, not cast.

Nut RING BOLTS

GALV. DROP FORGED STEEL OR BRONZE



Without Shoulder—Fig. 620

With Shoulder—Fig. 621

Size Inches	Fig. 620 Galv. Each	Fig. 621 Galv. Each	Fig. 621 Plain Bronze Each	I. D. Ring Inches	Weight Per 100 in Lbs.
1/4 x 2	\$.88	\$.88	\$ 1.75	1 3/4	16
1/4 x 4	1.00	1.00		1 3/4	19
3/16 x 2 1/4	1.00	1.00	2.20	2	28
3/16 x 4 1/4	1.10	1.10		2	33
3/8 x 2 1/2	1.10	1.10	2.75	2	42
3/8 x 4 1/2	1.44	1.44		2	48
3/8 x 6	1.60			2	52
1/2 x 3 1/4	1.60	1.60		2 1/2	94
1/2 x 6	1.98	1.98		2 1/2	115
1/2 x 8	2.10			2 1/2	131
1/2 x 10	2.30			2 1/2	147
3/4 x 4	2.40	2.40		2 3/4	175
3/4 x 6	2.90	2.90		2 3/4	190
3/4 x 8	3.10			2 3/4	205
3/4 x 10	3.30			2 3/4	220
3/4 x 12	3.40			2 3/4	235
3/4 x 4 1/2	3.90	3.90		3	275
3/4 x 6	4.65	4.65		3	300
3/4 x 8	4.85			3	334
3/4 x 10	5.00			3	368
3/4 x 12	5.30			3	400
1 x 6	8.40			3 3/4	630
1 x 12	9.90			3 3/4	790



TOGGLE BOLTS
CAST BRASS—PLAIN FINISH



Fig. 196

Diameter Shank Inches	Length Inches	Each	On Application
1/4	1 to 6		
3/8	1 to 6		
1/2	1 to 6		
5/8	1 to 6		
3/4	1 to 6		

Made to order only, delivery about 3 weeks.

Not sold in quantities of less than 12 pieces of each diameter and length.

Length is measured from under shoulder to beginning of milled slot.

Brass WING NUTS
U. S. S. THREAD



Fig. 453

For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each	For Diam. Bolt Inches	Threads Per Inch	Plain Brass Each
3/8	24	\$.08	1/2	13	\$.45
1/2	20	.09	3/4	11	1.40
5/8	18	.12	3/4	10	1.40
3/4	16	.18			

Galvanized EYE BANDS
STEEL—HOT GALVANIZED



Fig. 426

All sizes have bands 1 1/4" wide, all eyes are of 3/8" stock with 1/16" inside diameter.

Inside Diam. Inches	1 Eye Each	2 Eye Each	3 Eye Each	4 Eye Each
1 1/4	\$1.95	\$2.30	\$2.65	\$3.00
1 1/2	2.00	2.40	2.75	3.10
1 3/4	2.30	2.65	3.00	3.40
2		2.75	3.10	3.50
2 1/4	2.55	2.85	3.20	3.55
2 1/2	2.65	3.00	3.40	3.75
3	2.85	3.20	3.55	
3 1/2	3.55	3.90	4.25	4.65
4	3.90		4.65	
4 1/2	4.25	4.65	5.00	5.40
5	4.65	5.00	5.40	5.75
6	6.40	6.80	7.20	7.60

Special sizes made to order, price on application.

SWIVELS

DROP FORGED STEEL



Fig. 622

Size Inches	Galv. Each	Length Inches	Width Inside Inches	Weight Each in Lbs.
1/4	\$ 1.60	3 3/8	3/4	1/4
3/8	2.10	4 1/4	1 1/8	3/8
1/2	2.20	5 1/4	1 3/8	3/4
5/8	3.40	6 3/8	1 1/2	1 1/4
3/4	5.70	7 1/4	1 3/4	2 1/4
7/8	8.10	8 1/4	2	3 1/2
1	10.50	10 1/2	2 1/8	6 1/2

SWIVEL with Jaw End
DROP FORGED STEEL



Fig. 623

Size Inches	Galv. Each	Length Inches	Width Between Jaws Inches	Inside of Bail Inches	Weight Each in Lbs.
1/4	\$ 2.20	4	3/8	1 1/8 x 1 1/8	3/8
3/8	2.60	4 1/2	3/8	1 1/4 x 1	1/2
1/2	2.90	5	3/8	1 5/8 x 1 1/8	3/4
5/8	4.60	6	1 1/8	1 5/8 x 1 1/4	1 1/8
3/4	6.50	7 3/8	1 1/4	1 3/4 x 1 1/4	2 5/8
7/8	9.00	8 1/2	1 1/2	2 x 1 3/8	4 1/4
1	11.50	9	1 5/8	2 1/8 x 1 3/8	7 3/4

SWIVELS

GALVANIZED MALLEABLE IRON OR BRASS



Fig. 624

No.	Galv. Each	Plain Brass Each	Size Inches	I. D. Eye Inches	Inside Width Swivel Inches	Overall Length Inches	Weight Per 100 in Lbs.
0	\$.22	\$.48	3/8	1/4	1/4	1 1/8	2 1/4
1	.24	.48	3/8	3/8	3/8	1 3/4	4
2	.34	.66	1/2	3/4	3/8	2 1/8	7 1/2
3	.46	.84	1/2	3/8	1/2	2 1/2	10
4	.66	1.10	3/8	1/2	3/8	3 1/4	19 1/2
5	.90	1.38	3/8	3/8	3/4	3 1/2	24 1/2
6	1.15	1.66	3/8	3/4	1	4 1/4	41

SWIVELS

NICKEL PLATED BRASS



Fig. 1061

Size No.	Per Doz.	Standard Package Per Doz.	Length Inches	Diam. Eye Inches	Weight Doz. in Ounces
0	\$2.00	1	1 1/2	1/4	4 1/4
1	2.65	1	1 3/4	3/8	7 1/4
2	3.30	1	2 1/4	1/2	9



JIB SNAPS
GALVANIZED MALLEABLE IRON



Fig. 765

Size No.	Galv. Each	Extreme Length Inches	For Diam. Stay Inches	Weight Per 100 in Lbs.
0	\$.50	1 3/8	1/4	4 3/8
1	.60	2	3/8	10
2	.70	2 3/8	3/8	12 1/2
3	.90	2 3/4	1/2	21
4	1.20	3	3/8	23 3/4

BABY SNAPS
BRASS—WITH FAST EYE



Fig. 842

Diam of Eye Inches	Brass Each	Length Inches
3/8	\$.18	1 3/8

BABY SNAPS
WITH OBLONG EYE
ELECTRO GALVANIZED OR BRASS



Fig. 1041

Size of Eye Inches	Galvanized Each	Brass Each	Length Inches
3/8 x 3/8	\$.14	\$.17	1 3/8

Fast Eye BOAT SNAPS
GALVANIZED MALLEABLE IRON OR BRONZE



Fig. 612

Size No.	Galv. Each	Plain Bronze Each	Polished Bronze Each	Inside Diam. Eye Inches	Extreme Length Inches	Weight Per 100 Pounds
0	\$.50	\$.55	\$1.25	3/8	2 1/8	6 1/4
1	.60	.65	1.45	3/8	2 3/8	12
2	.65	.70	1.60	3/4	3	13 1/2
3	.80	.90	2.20	3/4	3 3/8	24
4	1.00	1.55		3/4	4 1/2	40
5	1.30	1.80		1 1/8	5	50
6	1.55			1 1/8	5 1/4	68 3/4

BABY SNAPS
WITH SWIVEL EYE
MALL. IRON, NICKEL PLATED OR BRASS



Fig. 1042

Diam. of Eye Inches	N. P. Malleable Each	Brass Each	Length Inches
3/8	\$.20	\$.22	2 3/8

Swivel Eye BOAT SNAPS
GALVANIZED MALLEABLE IRON OR 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	\$.80	\$1.05	\$1.75	3/8	3 1/4	12 1/2
2	.95	1.10	2.00	1 1/8	3 3/8	16
3	1.20	1.40	2.75	3/4	4 3/8	30
4	1.45	1.70		1 3/8	4 7/8	42
5	1.75	2.50		1 1/8	5 3/4	61

Safety MOORING HOOKS
DROP FORGED STEEL—HEAT TREATED
STAINLESS STEEL SPRING AND RIVET



Fig. 606

These hooks although light in design have exceptional strength.

Safe Working Load

No. 1 — 750 Pounds

No. 2 — 1700 Pounds

	Each	Extreme Length Inches	Inside Eye Inches	Inside Hook Inches	Weight Ounces
Iron	\$.35	3 1/2	3/4	3/8	2
Bronze	.55	4	3/4	3/8	2 1/2

Iron snap is nickel plated.
Bronze snap is burnished.

Fig. 659



Swivel Eye SNAPS
MALLEABLE IRON OR BRONZE

No.	Galvanized Each	I. D. of Eye Inches	Length Overall Inches	Throat Opening Inches	Weight Per 100 in Lbs.
1	\$.80	3/4	4	3/8	25
2	2.25	1	5 1/2	1 1/8	100



Galvanized HOOKS
DROP FORGED STEEL—LARGE EYE



Fig. 656

Size Inches	Galv. Each	Hook Length Inches	I. D. Eye of Hook Inches	Throat Opening of Hook Inches	Approx. Strength Lbs.	Approx. Weight Per 100 in Lbs.
3/8	\$.64	2 3/8	3/4	1/2	1230	12
1/2	.84	3 3/8	7/8	3/4	2620	30
5/8	1.05	5 1/8	1 1/4	3/8	3810	62
3/4	1.48	5 1/2	1 1/2	1	5710	87
7/8	2.10	6 1/2	1 3/8	1 1/8	9100	135
1	2.62	6 3/4	1 3/8	1 3/8	9700	212

Screw HOOKS
STEEL—GALVANIZED

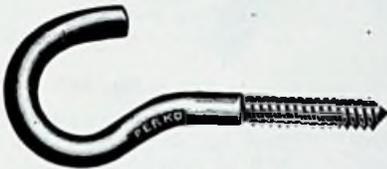


Fig. 779

Size Inches	Galvanized Per Doz.	Length Overall Inches	Weight Per Doz. Pounds
1/4	\$1.25	3 1/2	3/4
3/8	1.60	4	1
1/2	2.00	4 3/4	2 1/8
3/4	5.15	5 3/4	4 3/4

"S" HOOKS
GALVANIZED WROUGHT STEEL



Fig. 680

Nominal Size Inches	Per Dozen	Length Overall Inches	Weight Per Doz. Pounds
3/8	\$.75	1 1/2	1/4
1/2	.85	2	1/2
5/8	1.60	2 1/2	1
3/4	2.40	3	1 3/4
1	5.75	3 3/4	5

LACING EYES
GALV. MALLEABLE IRON OR CAST BRASS



Without Shoulder
Fig. 766

Size No.	Galv. Per 100	Plain Brass Per Dozen	Pol. Brass Per Dozen	I. D. of Eye Inches	Length Under Eye Inches	Wt. Per 100 in Lbs.
1	\$ 8.50	\$ 1.20	\$ 3.60	3/8	1	2 1/2
2	12.75	1.60	4.30	3/4	1 1/4	4 1/2
3	14.00	2.00	9.00	1/2	1 1/2	8
4	23.00	2.60	13.20	3/4	2	12

With Shoulder
Fig. 767

Connecting or Missing LINKS
DROP FORGED STEEL
WITH INTERLOCKING LUGS

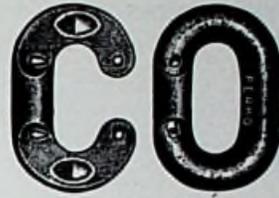


Fig. 319

Size Inches	Galv. Per Dozen	Overall Dimensions Inches	Weight Per Doz. Pounds
3/8	\$ 3.50	1 3/8 x 3/4	3/8
1/2	3.50	1 1/2 x 1	3/4
5/8	3.90	1 3/4 x 1 3/8	1 1/8
3/4	5.10	2 1/4 x 1 1/2	2 1/8
7/8	6.05	2 3/8 x 1 1/2	3 3/8
1	7.25	2 3/4 x 1 3/4	4 1/2
3/8	11.50	3 3/4 x 2 1/2	8
3/4	15.15	3 3/8 x 2 1/2	14 1/4
7/8	21.20	4 1/2 x 3	22
1	32.10	5 x 3 3/4	32

SWING LINKS
MALLEABLE IRON—WITH BRONZE RIVETS
AND INTERLOCKING LUGS



Fig. 784

Size Inches	Galv. Per Dozen	Length Overall Inches	Diam. Eye Inches	Packed Dozens In Box	Weight Per Dozen Pounds
3/8	\$ 3.50	1 3/4	1/4	2	3/8
1/2	4.00	1 3/8	3/8	2	1
5/8	4.75	2 1/8	3/8	2	1 1/2
3/4	6.50	2 1/2	3/8	2	2 1/4
7/8	9.00	2 3/8	3/8	1	3 1/4
1	11.75	3 3/8	3/8	1	5 1/4
3/8	19.00	4 1/2	1 3/8	1/2	12

LAP LINKS
GALVANIZED WROUGHT STEEL



Fig. 785

Size Inches	Per Doz.	Inside Dimensions of Link Inches	Size Inches	Per Doz.	Inside Dimensions of Link Inches
3/8	\$1.00	1 x 1/2	3/8	\$3.30	1 1/8 x 1 3/8
1/2	1.20	1 1/2 x 1/2	1/2	5.70	2 x 1
3/4	2.40	1 1/2 x 3/4			

ANCHOR CHOCKS
CAST BRONZE—BURNISHED

FOR NAVY TYPE ANCHORS

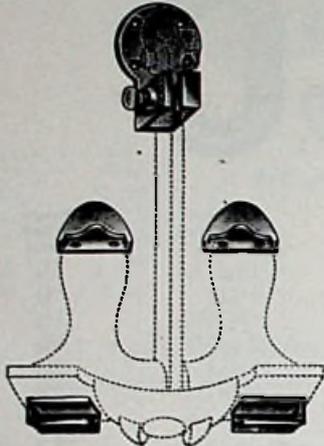


Fig. 938

Consists of five parts illustrated. Head of shank is held in place by an overhang and thumb screw arrangement. For all sizes up to 60 pounds inclusive.

Weight Per Set, 3 pounds

- Complete, per set \$9.50
- Shank support only, each 3.90
- Fluke supports only, per pair 3.35
- Arm supports only, per pair 2.80

FOR KEDGE ANCHORS

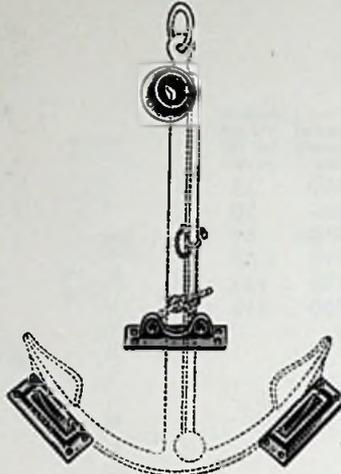


Fig. 939

Consists of four parts illustrated. The lashing piece has two eyes large enough for 3/8 inch diameter rope. For all sizes up to 75 pounds inclusive.

Weight Per Set, 2 1/2 pounds

- Complete, per set \$9.00
- Shank support only, each 2.40
- Lashing fitting only, each 2.40
- Fluke supports only, per pair 5.00

FOR NORTHILL ANCHORS

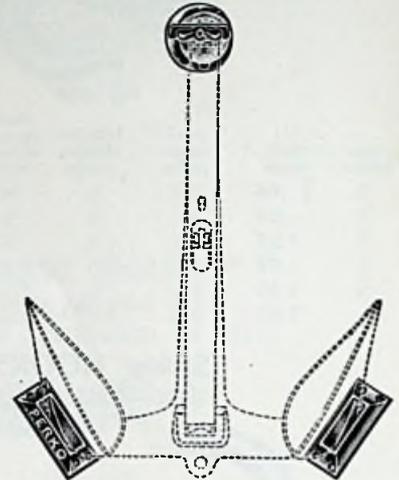


Fig. 941

Consists of three parts illustrated. Part for shank head has threaded bolt to pass through eye of shank, head is fastened down by wing nut and cross bar on bolt. For all sizes up to No. 20-R inclusive.

Weight Per Set, 2 pounds

- Complete, per set \$7.25
- Shank support only, each 3.35
- Fluke supports only, per pair 4.40

FOR DANFORTH ANCHORS

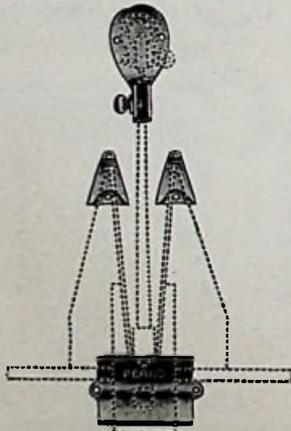


Fig. 933

Consists of four parts illustrated. Head of shank is held fast by slotted casting and thumb screw.

For all sizes up to 30 pounds inclusive.

Weight Per Set, 1 3/4 pounds

- Complete, per set \$7.00
- Shank support only, each 3.10
- Fluke supports only, per pair 2.20
- Crown support only, each 2.25

FOR DANFORTH ANCHORS
CAST MANGANESE BRONZE

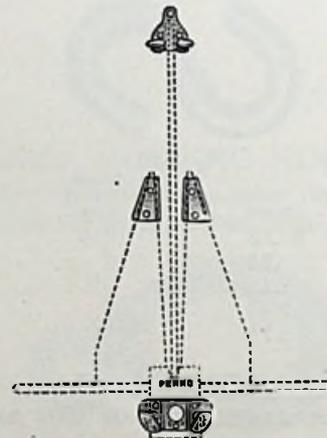


Fig. 1022

Consists of four parts illustrated. Part for shank head has integral cleat for lashing down.

- | | | |
|---|---------|----------|
| | No. 1 | No. 2 |
| Complete per set | \$9.50 | \$12.50 |
| Shank support only, each | 3.25 | 4.20 |
| Fluke supports only, per pair | 4.10 | 5.50 |
| Crown support only, each | 4.10 | 5.50 |
| For size anchor, pounds | 8 to 28 | 40 to 90 |
| Weight per set, pounds | 1 1/4 | 2 |

NOTE—All above anchor chocks can be supplied in burnished white nickel finish to order, add 15% to price.



Non-Fouling KEDGE ANCHORS
GALVANIZED DROP FORGED STEEL



Fig. 236

The result of a great deal of experimenting and testing, the flukes are designed to bite and hold on the first pull of the cable. A weldless reinforcing under each fluke will prevent bending or breaking under maximum strain.

Weight Pounds	Galvanized Each	Length Overall Inches	Width Across Flukes Inches
5	\$ 9.25	21	13
10	13.50	26	15½
15	15.75	29	18
20	18.75	32	19
25	22.00	36	20
30	26.25	36	20
35	28.25	40	22
42	35.50	40	22
50	43.00	43	24½
60	51.00	44½	27½
75	61.00	46	29
100	84.00	50	32
125	100.00	52½	32
150	115.00	59	34½

GRAPNELS
GALVANIZED DROP FORGED STEEL
FIVE PRONG



Fig. 207

Weight Pounds	Galvanized Each	Weight Pounds	Galvanized Each
4	\$ 7.30	15	\$16.50
7	9.10	20	22.00
10	11.25		

Larger sizes—prices on application.

FISHERMAN'S ANCHORS
FOR SMALL BOATS



Fig. 1028

Weight Pounds	Self Colored Each	Galvanized Each	Diam. Inches	Height Inches
7	\$2.50	\$3.60	6	8
11	3.50	5.40	7	9
15	4.60	6.75	8	10

NORTHILL UTILITY ANCHORS
HEAT TREATED DUCTILON—GALVANIZED

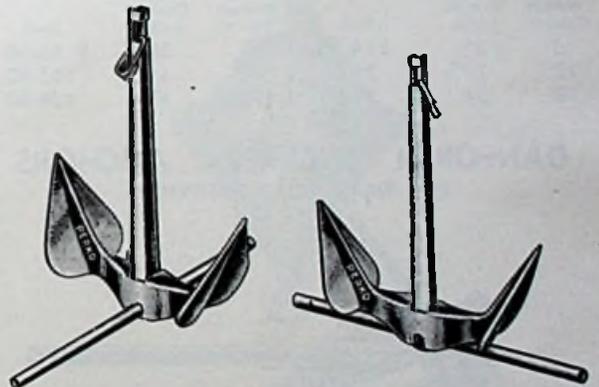


Fig. 1067

Type No.	Galv. Each	Weight Pounds	Com- parative Weight Kedge Type Pounds	Com- parative Weight Navy Type Pounds
Rowboat	\$ 4.85	3		
3R	12.50	6	30	50
6R	24.50	13	65	110
12R	40.50	25	130	225
20R	57.50	47	225	400
30R	79.50	75	350	610
50R	109.50	105	525	918

Note—Rowboat Anchor 12" long—10" wide.

NAVY TYPE ANCHORS
DROP FORGED SHANK—GALVANIZED

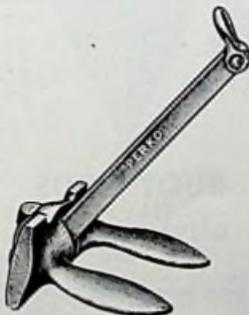


Fig. 45

Weight Pounds	Each	Weight Pounds	Each
5	\$ 3.75	25	\$13.75
10	5.90	30	16.00
15	7.90	40	23.50
20	10.00	50	27.50

Government Tolerance in Weight, Plus or Minus 5%



"DANFORTH" ANCHORS
GALVANIZED STEEL

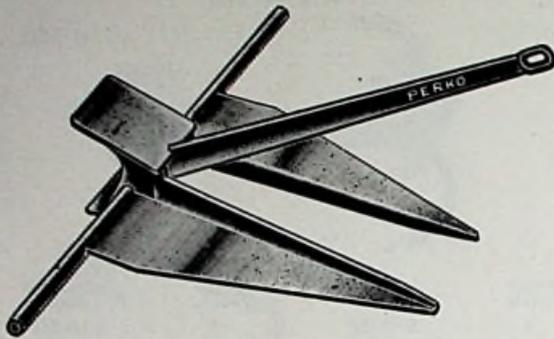


Fig. 700

Fig. 700A "STANDARD"
FLUKES FABRICATED FROM HIGH STRENGTH
ALLOY STEEL PLATE. SHANK IS DROP
FORGED STEEL

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
2½	17½	\$ 4.70	40	40¾	\$48.50
4	19	7.50	65	50	65.00
8	24	14.80	85	54	84.00
13	28½	23.50	180	52	178.00
22	35	35.00			

Larger sizes, price on application.

Fig. 700B "HIGH TENSILE"

FLUKES FABRICATED FROM ROLLED-ALLOY
STEEL SECTIONS. SHANK IS DROP FORGED
ALLOY STEEL.

Holding power equal to "Standard" anchors of about twice the weight.

Weight Pounds	Length Overall Inches	Each	Weight Pounds	Length Overall Inches	Each
5	21	\$14.50	28	39½	\$ 56.00
12	27½	28.00	60	49¾	105.00
18	34	39.50	90	53½	136.00

DANFORTH "SHEARPIN" ANCHORS
FOR SMALL BOAT FISHERMEN

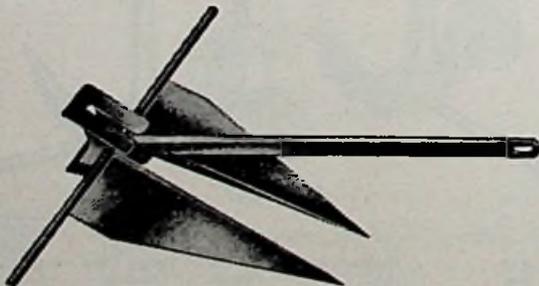


Fig. 700C

Designed to pull out backward, or crown first. Copper shearpin will allow strain of about 250 pounds at normal scope but will break at about a 30 pound pull when the boat is brought over a snagged anchor.

Weight Pounds	Each	Length Inches
4	\$ 7.50	19
8	14.80	24

Pick Up Buoys
GALVANIZED SHEET IRON

FLAT TOP



Fig. 234

Pick up handle is riveted to body. Eye on bottom for rope. All double seamed and soldered.

Length shown does not include eye and handle.

No.	Each	Diam. Inches	Length Inches	Weight Pounds
1	\$12.60	9	14	4
2	14.75	12	18	5

CONE TOP



Fig. 235

No.	Each	Diam. Inches	Length Inches	Weight Pounds
0	\$ 8.40	7	11	3
1	11.60	13	22	5
2	13.75	16	24	6½

BUOY RODS

GALVANIZED STEEL



Fig. 166

No.	Each	Diameter Inches	Length Under Eye Inches	Weight Pounds
1	\$5.80	½	18	2¾
2	6.05	½	20	2¾
3	7.45	¾	26	5¼
4	8.00	¾	30	5¼
5	8.80	¾	36	7



Round Steel MOORING BUOY

17" DIAM.—18 GAUGE—WELDED—GALVANIZED
STEEL ROD THROUGH CENTER—EYE ON TOP
SWIVEL ON BOTTOM WITH 1 3/4" DIAM. RUBBER
BUMPER—ORANGE FINISH



Fig. 1068

Body of buoy is grooved to firmly hold rubber bumper in place. The buoy rod passes through a length of pipe and is not attached to body of buoy. All strain is on the rod.

Load capacity, half submerged is 60 pounds, dead weight, equal to 75 feet of 1/4 inch chain or 32 feet of 3/8 inch chain.

Each	Diameter Rod Inches	Size Inside Swivel Inches	Weight Pounds
\$40.00	3/4	3 1/2 x 2	17

Hold Fast MOORING BUOY

WITH RUBBER BUMPER
GALVANIZED SHEET IRON



Fig. 445

A heavy gauge galvanized sheet iron body, a 3/8 inch forged rod through a galvanized pipe in the body, large eye on top, large heavy swivel on bottom, a substantial rubber bumper set in groove of body, will not mar or scratch hull of boat.

No. 1 Load Capacity, dead weight — 60 pounds

No. 2 Load Capacity, dead weight — 100 pounds

No.	Each	Diam. Body Inches	Length Body Inches	Length Overall Inches	Inside Diam. Eye Inches	Weight Pounds
1	\$26.50	13	22	33 1/2	3	15
2	34.75	17	27	38 1/2	3	24

Junior MOORING BUOY

FOR RUNABOUTS AND ALL SMALL BOATS
GALVANIZED SHEET IRON



Fig. 318

Made of sheet iron with 1/2 inch forged steel galvanized rod through a galvanized pipe in body. Rod has eye on top and swivel on bottom. All the strain is on the rod.

Load capacity, half submerged, 25 lbs., dead weight. Equal to 35 feet of 1/4 inch chain.

No.	Each	Diam. Body Inches	Length Body Inches
1	\$16.75	12	15

Cone MOORING BUOY

WITH RUBBER BUMPER
GALVANIZED SHEET IRON



Fig. 370

Heavy galvanized iron, iron pipe running all the way through buoy, heavy galvanized 3/8 inch buoy rod through pipe allowing body to swivel, eye on top, swivel on bottom, body grooved for bumper which is of heavy 1 1/2 inch outside diameter rubber hose.

No.	Each	Body Size Inches	Load Capacity Dead Weight Pounds
1	\$40.00	16x24	35
2	50.00	20x30	60
3	61.00	24x36	90
4	72.50	30x36	115

Size does not include swivel or eye.

LETTERS and FIGURES
CAST BRONZE—REGULAR PATTERN



Fig. 348

Height Inches	Burnished Bronze Each	For Screw No.	Weight Per 100 in Lbs.
3	\$.60	8	24½

GOTHIC PATTERN



Fig. 313

Height Inches	Burnished Bronze Each	For Screw No.	Weight Per 100 in Lbs.
3	\$.60	8	18

Brass AXE BRACKETS
18 GAUGE—POLISHED



Fig. 325

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

Complete Sets Per Dozen	Blade Sockets Only Per Dozen	Handle Brackets Only Per Dozen	For Blade Width Inches	Weight Per Set Ounces
\$29.00	\$18.00	\$11.00	6	8

Sword Fish DARTS
CAST BRONZE
POINT GROUND AND SHARPENED



Fig. 805

Burnished Each	Length Inches	Weight Ounces	Packed Per Box
\$1.00	5	5	10

DART SHANKS
IRON SHANK—CAST BRONZE SOCKET

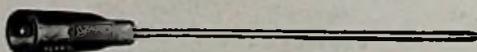


Fig. 655

Length overall, 24 inches; Weight, 1¼ pounds.
Each \$3.25

Sail Makers PALMS
HIDE MOUNTED



Fig. 411

No.	Right Hand Per Doz.	Left Hand Per Doz.
2 Seaming—Half Hide	\$14.50	\$15.00

"Right Hand" supplied unless otherwise specified.

Quarter Round RUBBER MOULDING
BLACK



Fig. 471

Generally used as trim or moulding around cabin windows and windshields.

Size ¾ x ¾ inches
Per Foot — \$.19

Supplied only in lengths of 25 feet.

DRIP MOULDING
WHITE SYNTHETIC RUBBER
NOT EFFECTED BY SUN OR WEATHER



Fig. 192

Per Foot	Height Inches	Extension Inches	Weight Per Foot Ounces
\$.25	¾	¾	1½

Supplied only in standard lengths of 10 feet.

Rubber FENDER MOULDING
HALF ROUND—WHITE

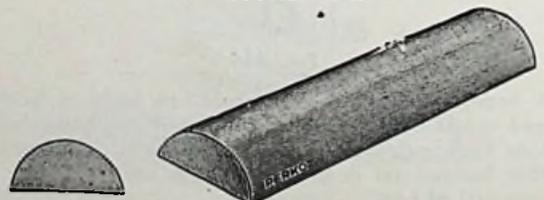


Fig. 158

Width Inches	Per Foot	Thickness Inches	Weight Per 100 Ft. Pounds
1	\$.27	½	22
1¼	.38	⅝	44
1½	.46	¾	61

Supplied only in 50 foot lengths.



Continuous HINGE

WROUGHT BRASS OR
18-8 STAINLESS STEEL



Fig. 211

For use on hatch covers, locker doors, windshields, etc. Holes are two inches apart, center to center.

Width Open Inches	Length Inches	Polished Brass Each	Brass Chromium Plated Each	Polished Stainless Steel Each	Thickness Inches
1 1/4	60	\$5.00	\$6.50	\$7.50	.045
1 1/4	72	6.00	7.80	9.00	.045
1 1/2	60	5.35	6.75	8.75	.045
1 1/2	72	6.45	8.10	10.50	.045
2	60	6.35	7.75		.045
2	72	7.65	9.30		.045

All sizes drilled for No. 6 F.H. Wood Screw.

Flat Hatch TRIM

WROUGHT BRASS OR
18-8 STAINLESS STEEL



Fig. 243

For finishing around edges of hatch. Drilled and countersunk off center for No. 6 flat head screws.

Width Inches	Length Inches	Brass Chromium Plated Each	Polished Stainless Steel Each	Thickness Inches
1 1/4	60	\$3.90	\$3.40	.040
1 1/4	72	4.70	3.90	.040
1 1/2	60	4.10	3.90	.040
1 1/2	72	4.85	4.70	.040

Aluminum Fender MOULDING

ANODIZED ALUMINUM—POLISHED FINISH
DRILLED FOR WOOD SCREWS, 6 INCH CENTERS



Fig. 193

Width Inches	12 Foot Lengths Each	16 Foot Lengths Each	Thickness Inches	Drilled For Screw No.	Weight Per Foot Ounces
1/2	\$3.00		1/8	4	1
3/8	3.70		1/8	5	1 1/4
3/4	4.50	\$6.00	3/16	6	1 1/2

1/2 and 3/8 inch sizes supplied only in 12 foot lengths.

3/4 inch size supplied in 12 or 16 foot lengths. Please specify.

Stainless Steel Fender MOULDING

18-8 QUALITY—POLISHED FINISH
DRILLED FOR WOOD SCREWS, 6 INCH CENTERS



Fig. 199

Width Inches	16 Foot Lengths Each	Thickness Inches	Drilled For Screw No.	Weight Per Length Pounds
3/4	\$18.00	3/16	6	8

Fender MOULDING

18-8 STAINLESS STEEL .045" THICK
POLISHED

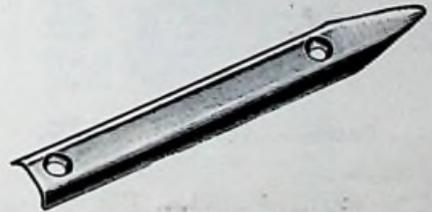


Fig. 110

Punched and countersunk 8 inch centers for No. 7 oval head wood screws.

6 foot length has both ends pointed.

12 foot length has one end pointed.

16 foot length has both ends pointed.

6 Foot Lengths Each	12 Foot Lengths Each	16 Foot Lengths Each	Width Outside Inches	Width Inside Inches	Weight Per Ft. Ounces
\$3.95	\$7.90	\$12.00	3/8	3/4	3

MOULDING ENDS

CAST BRONZE—CHROMIUM PLATED



Fig. 111

For finishing cut end of moulding Fig. 110.

Each	Length Overall Inches	Length Head Inches	Width Neck Inches	Weight Ounces
\$1.50	2 3/8	1 1/8	3/4	1 1/2

MOULDING COUPLINGS

STAINLESS STEEL



Fig. 38

For inside of Fig. 110 moulding at joint.

Each \$.40

Mortise LOCK SETS
CAST BRONZE

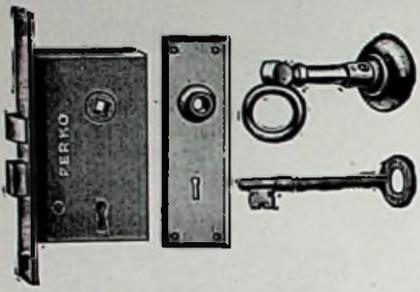


Fig. 945-A or B

Set A—With two combination escutcheons, round knob and drop handle, one key.

Set B—With two combination escutcheons and two round knobs, one key.

No.	Size Case Inches	Thickness Case Inches	Size Facing Inches	Backset Inches
1	2 3/8 x 2	1/2	4 x 3/4	1 1/2
2	3 x 2 1/4	1/2	4 1/2 x 1 1/8	1 5/8

No.	Size Escutcheon Inches	Diameter Knob Inches	Size Spindle Inches	Weight Pounds
1	4 x 1 3/8	1 3/4	3/8	1 1/4
2	5 x 1 1/2	1 3/4	3/8	1 1/2

No.	Complete		Knobs Only		Escutcheons Only	
	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Each	Chrom. Plated Each
1	\$13.50	\$16.00	\$6.75	\$8.50	\$2.40	\$3.00
2	16.00	18.75	6.75	8.50	2.80	3.70

Rim LOCK SETS
CAST BRONZE

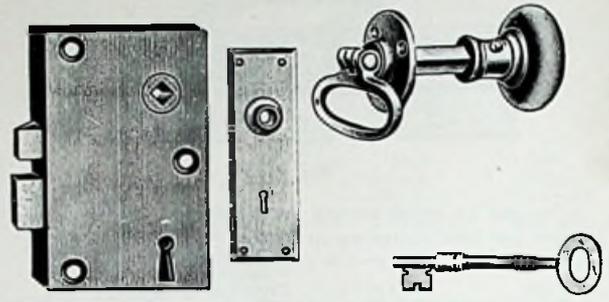


Fig. 1046-A or B

Set A—With one combination escutcheon, round knob and drop handle, one key.

Set B—With one combination escutcheon and two round knobs, one key.

No.	Size Case Inches	Thickness Case Inches	Backset Inches
1	2 3/8 x 2	1/2	1 1/8
2	3 1/2 x 2 1/4	3/8	1 1/2

No.	Size Escutcheon Inches	Diameter Knob Inches	Size Spindle Inches	Weight Pounds
1	4 x 1 3/8	1 3/4	3/8	1 1/8
2	5 x 1 1/2	1 3/4	3/8	1 1/2

No.	Complete		Knobs Only		Escutcheons Only	
	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Per Set	Chrom. Plated Per Set	Polished Bronze Each	Chrom. Plated Each
1	\$12.75	\$15.50	\$6.75	\$8.50	\$2.40	\$3.00
2	15.50	18.25	6.75	8.50	2.80	3.70

Be sure to specify style A or B and size No. 1 or No. 2.

Extra keys for above locks furnished to order.

Mortise LATCH SETS
CAST BRASS

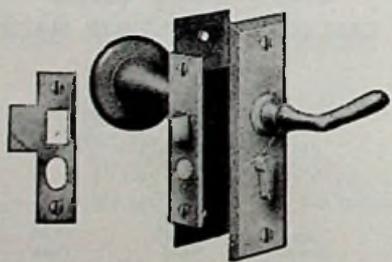


Fig. 960

Rim LATCH SETS
CAST BRASS

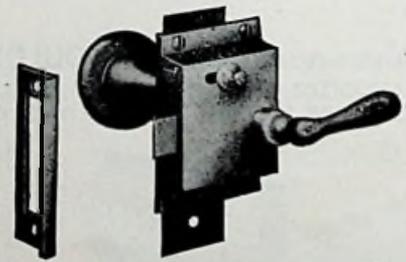


Fig. 1057

Polished Brass Per Set	Chromium Plated Per Set	Size Case Inches	Combination Escutcheon Inches	Facing Inches
\$7.35	\$9.80	1 3/8 x 1 3/8 x 3/8	4 x 1 1/2	3/8 x 3 3/8

Backset Inches	Spindle Hub Inches	Diameter Round Knob Inches	Door Thickness Min. Inches
1 1/4	1/4	1 3/4	3/8

Polished Brass Per Set	Chromium Plated Per Set	Size Case Inches	Escutcheon Size Inches
\$9.50	\$13.20	3 x 2 x 3/8	4 x 1 1/2

Backset Inches	Spindle Hub Inches	Diameter Round Knob Inches	Door Thickness Min. Inches
1 1/2	1/4	1 3/4	3/8

Knob outside, drop handle inside, locked by thumb lever inside, no keys. Complete with screws.

Knob outside, drop handle inside, locked by slide stop inside, no keys. Complete with screws.



Tubular LATCH SETS

ALL BRASS—FOR SMALL CABIN DOORS
POLISHED OR CHROMIUM PLATED

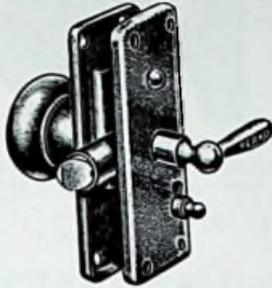


Fig. 567

Polished Brass Each	Chromium Plated Each	For Thickness Doors Inches	Size Escutcheon Inches	Size Knob Inches	Back-set Inches
\$5.35	\$7.15	3/8 to 1 1/8	4 3/8 x 1 3/8	1 3/4	1 3/8

New Push-Pull LATCH SETS

DIE CASTINGS—CHROMIUM PLATED

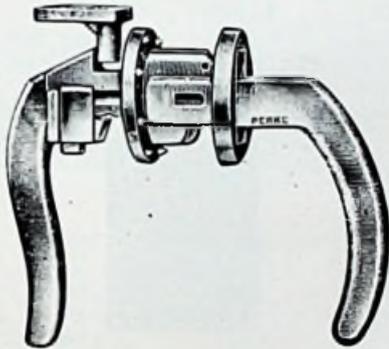


Fig. 584

Factory pre-assembled for fastest installation. Just bore a single one-inch hole. Self adjusting for various door thicknesses, minimum thickness 3/4 inch.

Positive locking—stainless steel springs.

Per Set \$3.75

Sliding Door LATCHES

CAST BRASS

HALF MORTISE—REVERSIBLE

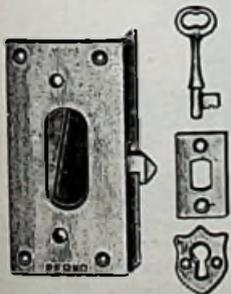


Fig. 573

Operated from inside by finger lever, from outside by key.

Complete with strike, key and shield escutcheon for keyhole.

No.	Size Case Inches	Width Face Inches	Weight Ounces
1	3 1/2 x 1 3/4	3/8	6
2	5 x 3	1/16	20

No.	Polished Brass Per Set	Chromium Plated Per Set
1	\$7.50	\$9.50
2	10.20	12.25

Anti-Rattle DOOR FASTENER

CAST BRASS

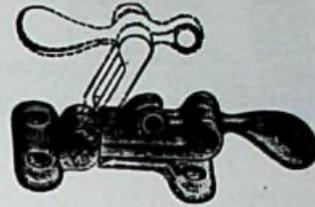


Fig. 1108

Has 1/4 inch hole in lever for padlock.

Polished Brass Each	Chromium Plated Each	Size Base Inches	Weight Ounces
\$3.00	\$3.75	3x2	6

DOOR BUTTONS

CAST BRASS BUTTON—WROUGHT BRASS PLATE

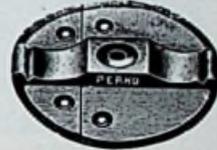


Fig. 948

No.	Diam. Inches	Polished Brass		Chromium Plated	
		Complete Per Dozen	Without Plate Per Dz.	Complete Per Dozen	Without Plate Per Dz.
1	1 1/2	\$5.75	\$2.20	\$10.00	\$4.00
2	1 3/4	6.50	2.75	11.00	4.50
3	2	8.00	3.40	12.50	5.30

Friction CATCHES

ALL BRASS—ADJUSTABLE TENSION

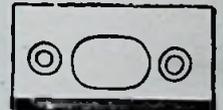


Fig. 178

Above cuts are full size. Supplied complete with either round or oblong strike. Please specify.

Per Gross — \$22.50

Elbow CATCHES

CAST BRASS

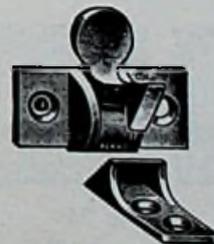


Fig. 1056

Plain Brass Each	Polished Brass Each	Chromium Plated Each	Size Base Inches	Weight Ounces
\$.65	\$.90	\$1.25	1 3/16 x 3/8	1

CUPBOARD CATCHES

CAST BRASS

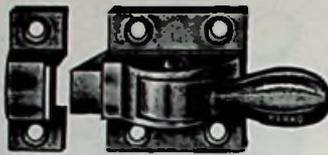


Fig. 1102

Furnished complete with screws.

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$2.10	\$2.65	1½x1½	1½
2	2.10	2.65	1½x1½	1½

No. 2 has ⅜ inch offset.

CUPBOARD BOLT

CAST BRASS

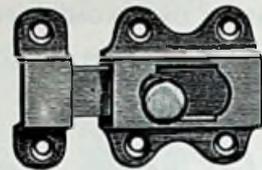


Fig. 1101

Emery Finish Each	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
\$1.45	\$1.70	\$2.25	1¾x1¾	1½

CUPBOARD TURNS

WROUGHT BRASS

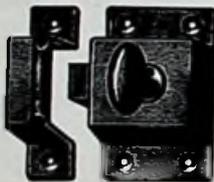


Fig. 1105

Furnished complete with screws.

No.	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$1.90	\$2.40	2¼x1½	3

Flush RING CATCHES

CAST BRASS

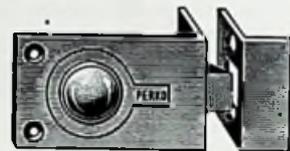


Fig. 1051

Size Inches	Polished Brass Each	Chromium Plated Each	Weight Ounces
1½x1¼	\$1.60	\$2.10	1½

CUPBOARD TURNS

CAST BRASS

U. S. GOVT. TYPE NO. 1082-1083

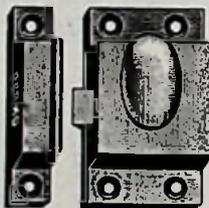


Fig. 949

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Per Dozen Pounds
1	\$2.10	\$2.20	\$2.75	1¾x1½	2½
2	2.20	2.55	3.10	2¼x1¾	3¾

Flush RING PULLS

CAST BRASS

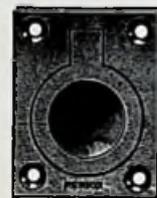


Fig. 841

No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$.85	\$1.15	1¼x1½	1
2	1.00	1.35	1¼x1½	1½

Flush RING PULLS

CAST BRASS

WITH ROUND STOCK IN RING



Fig. 1103

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Without Strike Inches	Weight Ounces	No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Weight Ounces
1	\$1.35	\$1.50	\$1.90	1½x1	1¼	1	\$1.10	\$1.60	1¼x1½	1¼
2	1.45	1.60	2.00	1½x1¼	2	2	1.35	1.90	1½x2½	2¾
3	1.60	1.75	2.15	1½x1½	2½	3	2.10	2.75	2 x2¾	3¾
4	1.65	1.85	2.30	1½x1¾	2½					

CUPBOARD CATCHES

CAST BRASS



Fig. 950



BARREL BOLTS
CAST BRASS

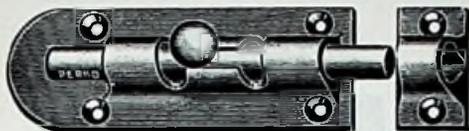


Fig. 947

No.	Polished Brass Each	Chromium Plated Each	Length Rod Inches	Size Base Without Strike Inches	Weight Per Dozen Pounds
1	\$1.40	\$2.00	2 1/4	2 x 1	1 1/2
2	1.80	2.50	3	3 x 1 1/8	2
3	2.15	3.00	4	3 1/2 x 1 1/4	3

FLUSH BOLTS
CAST BRASS—POLISHED



Fig. 1052

No.	Each	Size Inches	Weight Ounces
1	\$2.05	5/8 x 2 1/2	1 1/2
2	2.30	3/8 x 3	2

SHIP BOLTS
CAST BRASS

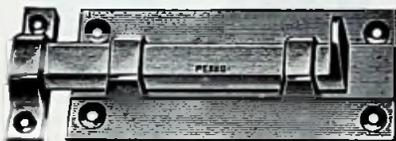


Fig. 1053

No.	Polished Brass Each	Chromium Plated Each	Size Without Strike Inches
1	\$1.30	\$1.65	2 3/8 x 1 1/8
2	1.75	2.30	3 3/8 x 1 3/8
3	2.60	3.20	4 3/4 x 1 3/8

SQUARE NECK BOLTS
CAST BRASS

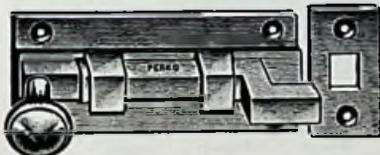


Fig. 1054

No.	Polished Brass Each	Chromium Plated Each	Size Inches
1	\$1.80	\$2.30	3 x 1 1/4
2	2.20	2.75	4 x 1 3/8

WINDOW BOLTS
CAST BRONZE
SPRING TYPE

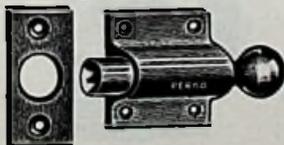


Fig. 1055

Base Inches	Polished Bronze Each	Chromium Plated Each
1 1/2 x 1 1/4	\$1.60	\$2.05

Cabin DOOR HOOKS
CAST BRASS



Fig. 956

Lgh. Hook In.	Polished Brass Each	Chromium Plated Each	Wt. Ozs.	Lgh. Hook In.	Polished Brass Each	Chromium Plated Each	Wt. Ozs.
1 1/2	\$.90	\$1.25	1	3 1/2	\$1.20	\$1.55	2 1/2
2	.90	1.25	1 1/2	4	1.35	1.80	3
2 1/2	1.00	1.35	1 3/4	5	1.50	1.90	3 1/2
3	1.05	1.50	2	6	1.60	2.15	4

Cabin DOOR HOOKS
DOUBLE JOINTED
CAST BRASS



Fig. 957

Length Overall Inches	Polished Brass Each	Chromium Plated Each	Length Overall Inches	Polished Brass Each	Chromium Plated Each
2	\$1.85	\$2.25	4	\$2.30	\$2.90
2 1/2	1.90	2.30	5	3.20	3.90
3	1.95	2.35	6	3.30	4.20

Cabinet LATCHES
CAST BRASS

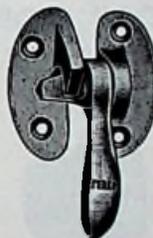


Fig. 1064

With flush striking plate and brass pin, spring closing. Made either right or left hand.

Polished Brass Each	Chromium Plated Each	Length Overall Inches	Length Lever Inches
\$1.35	\$1.60	2 1/2	2

Specify right or left hand.

Refrigerator FASTENERS
CAST BRASS



Fig. 1063

Made either right or left hand with flush striking plate. Holds doors without strain on the rivet. Has brass pin.

Illustration shows right hand.

No.	Chromium Plated Each	Length Overall Inches	Size Lever Inches
1	\$3.75	5	4

Specify right or left hand.



Cupboard DOOR HOLDERS

BRASS PLATED



Fig. 1178

A useful little friction catch for use on cabinets, closets, cupboards and all small doors, size overall — $1\frac{1}{2} \times 1\frac{1}{8}$ inches.

Per Dozen \$1.20

DOOR HOLDERS

SIDE PATTERN
CAST BRONZE



Fig. 1065

Polished Bronze Per Set	Chromium Plated Per Set	Base of Holder Inches	Base of Clip Inches	Projection Inches
\$1.80	\$2.30	$1\frac{3}{8} \times \frac{3}{4}$	$2\frac{1}{8} \times \frac{3}{4}$	2

DOOR STOPS

CAST BRONZE
RUBBER TIP



Fig. 1109

Furnished complete with screws.

Polished Bronze Each	Chromium Plated Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$1.65	\$2.40	2	$1\frac{1}{8}$	4

DOOR STOP and HOLDER

CAST BRASS



Fig. 574

Polished Brass Each	Chromium Plated Each	Diam. Base Inches	Projection Inches	Weight Ounces
\$4.00	\$4.80	$1\frac{1}{8}$	$3\frac{1}{4}$	$7\frac{1}{4}$

Security HINGED HASPS

WROUGHT BRASS—14 B. & S. GAUGE



Fig. 979

A lightweight but strong hasp. Ideal for lockers, cupboards, chests, etc.

Length Closed Inches	Polished Brass Each	Chromium Plated Each	Width Inches	Weight Ounces
$2\frac{1}{2}$	\$.90	\$1.15	1	$1\frac{1}{4}$

Security HINGED HASPS

CAST BRONZE



Fig. 955

Length Closed Inches	Emery Finish Each	Polished Bronze Each	Chromium Plated Each	Width Inches	Weight Ounces
2	\$1.10	\$1.40	\$1.90	1	$1\frac{1}{2}$
3	1.20	1.55	2.00	1	$2\frac{1}{2}$
$3\frac{3}{4}$	1.45	1.85	2.35	$1\frac{1}{8}$	$4\frac{1}{2}$

SAFETY HASPS

EXTRA HEAVY CAST BRONZE



Fig. 1060

Emery Finish Each	Polished Bronze Each	Chromium Plated Each	Length Inches	Width Inches	Weight Ounces
\$3.40	\$3.80	\$4.50	$4\frac{1}{2}$	$1\frac{3}{4}$	13

TABLE LEG FASTENERS

CAST BRASS

For fastening table leg to deck.

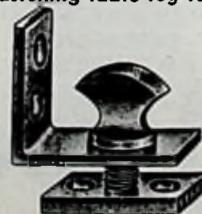


Fig. 719

Plain Brass Each	Polished Brass Each	Chromium Plated Each	Length Angle Inches	Width Angle Inches	Weight Ounces
\$2.00	\$2.40	\$3.00	$1\frac{3}{4}$	$\frac{7}{8}$	4



Flush Hatch LIFTING RING
CAST BRASS—SAFETY TYPE



Fig. 575

No recess to catch heels, chair or table legs, etc.

No.	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Inside Ring Inches	Weight Ounces
1	\$1.40	\$1.85	2½x1½	1½	3¼
2	2.15	2.75	2¾x2¼	1¾	6

Flush Hatch LIFTING HANDLE
CAST BRONZE—SAFETY TYPE



Fig. 774

No recess to catch heels, chair or table legs, etc.

No.	Polished Bronze Each	Chromium Plated Each	Size Plate Inches	Inside Handle Inches	Weight Ounces
1	\$2.80	\$3.20	3x2¼	1¾x1	6

DRAWER PULLS
CAST BRASS



Fig. 958

No.	Polished Brass Each	Chromium Plated Each	Width Overall Inches	Width Inside Inches	Weight Ounces
1	\$.60	\$.85	3¾	2½	2
2	.80	1.10	4	2¾	3

Flush DROP HANDLES
CAST BRASS

RECESSED TYPE—FOR CHESTS, HATCHES, ETC.



Fig. 1111

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Size Plate Inches	Width Inside Handle Inches	Weight Ounces
1	\$2.45	\$2.70	\$3.35	3 x 2¼	1¾	4
2	2.55	2.85	3.55	3½x2½	2¾	6½
3	5.00	5.60	6.30	4¾x4	2¾	19

FLUSH PULLS
CAST BRASS

FOR DRAWERS, SASH OR SLIDING DOORS

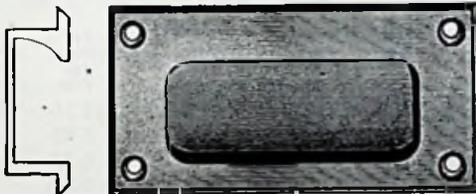


Fig. 1110

Inside recessed for finger grip as illustrated.

Emery Finish Each	Polished Brass Each	Chromium Plated Each	Dimensions Inches	Mortise Depth Inches	Weight Ounces
\$1.50	\$1.60	\$2.10	3½x1¾	½	4

DRAWER KNOBS

BRASS—FOR DRAWERS UP TO 1/8" THICK



Fig. 925

No.	Polished Brass Per Dozen	Chromium Plated Per Dozen	Diameter Inches	Weight Per Dozen Ounces
1	\$ 7.20	\$10.10	1	12
2	9.60	11.55	1½	18

Surface DROP HANDLES

CAST BRASS
SWINGS HALF WAY ONLY

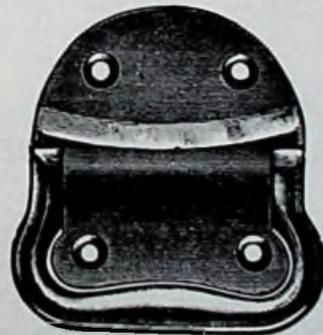


Fig. 1115

No.	Emery Finish Each	Polished Brass Each	Chromium Plated Each	Dimensions Inches	Width Inside Handle Inches	Weight Ounces
1	\$1.75	\$2.15	\$2.75	2¾x2¾	2¼	4½
2	2.00	3.00	3.65	3¾x3¾	2¾	8
3	2.45	4.20	4.75	3¾x3¾	3¾	10



STRAP HINGES

GALVANIZED MALLEABLE IRON OR BRASS BRASS PINS



Fig. 120

Length Open Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Weight Per Pair Pounds
4	\$1.25	\$2.30	\$4.00	\$4.90	5/8
6	2.00	2.80	5.10	6.40	5/8
8	2.90	4.10	6.90	8.50	7/8
10	3.60	6.00	8.80	10.70	1 1/8
12	5.30	8.00	11.50	14.30	1 3/8

PORT HINGES

GALVANIZED MALLEABLE IRON OR BRASS BRASS PINS

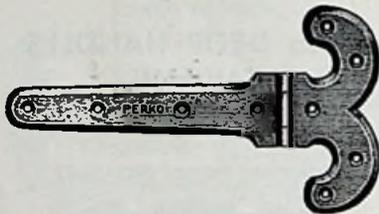


Fig. 109

Length Open Inches	Galvanized Per Pair	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair	Weight Per Pair Pounds
4	\$2.00	\$3.40	\$5.40	\$6.60	1/2
6	2.60	4.50	7.35	8.80	3/8
8	4.85	7.00	10.70	12.45	1 1/2
10	7.00	9.70	14.65	16.85	2
12	9.30	12.90	18.60	21.50	2 3/4

CUDDY DOOR HINGES

WROUGHT BRASS—THICKNESS .060 INCHES

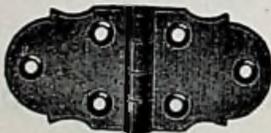


Fig. 924

Length Open Inches	Extreme Width Inches	Polished Brass Per Doz. Pairs	Chromium Plated Per Doz. Pairs
2 1/2	1 3/8	\$15.30	\$19.85

Packed one dozen pairs per box.

CUDDY DOOR HINGES

CAST BRASS

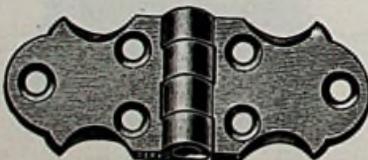


Fig. 951

Length Open Inches	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
3	\$1.45	\$1.95	\$2.45
3 1/2	1.70	2.15	2.80
4	1.90	2.40	3.15
5	2.40	3.00	4.00

Fast Pin BUTT HINGES

CAST BRASS—BRASS PINS

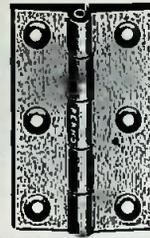


Fig. 952

Size Open Inches	Emery Finish Per Dz. Pairs	Polished Chromium Plated Per Dz. Pairs	Size Open Inches	Emery Finish Per Dz. Pairs	Polished Chromium Plated Per Dz. Pairs
1 1/2 x 1 1/4	\$15.00	\$29.65	2 1/2 x 2 1/2	\$30.00	\$65.80
1 1/4 x 1 1/2	15.00	29.65	3 x 2	32.30	58.10
2 x 1 1/4	17.25	34.10	3 x 2 1/2	34.00	59.40
2 x 1 1/2	17.25	34.10	3 x 3	37.70	66.00
2 x 1 3/4	19.35	38.00	3 1/2 x 3	45.00	79.45
2 x 2	19.85	39.65	3 1/2 x 3 1/2	49.75	88.10
2 1/2 x 1 3/4	25.90	49.80	4 x 3	58.80	95.75
2 1/2 x 2	27.60	51.45	4 x 4	69.90	115.60

Loose Pin BUTT HINGES

BRASS WITH BRASS PINS

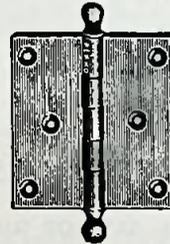


Fig. 953

Size Open Inches	Pol. Brass Per Pair	Chromium Plated Per Pair	Size Open Inches	Pol. Brass Per Pair	Chromium Plated Per Pair
1 1/2 x 1 1/2	\$2.80	\$3.70	3 x 2 1/2	\$5.10	\$6.70
2 x 1 1/2	3.30	4.30	3 x 3	5.25	6.90
2 x 2	3.75	4.90	3 1/2 x 3	6.10	8.00
2 1/2 x 2	4.30	5.70	3 1/2 x 3 1/2	6.70	8.90
2 1/2 x 2 1/2	4.75	6.30	4 x 3	6.90	9.20
3 x 2	4.90	6.50	4 x 4	8.10	10.70

Butterfly HINGES

WROUGHT BRASS—PLAIN



Fig. 1058

No.	Plain Brass Per Pair	Polished Brass Per Pair	Chromium Plated Per Pair
1	\$.25	\$.35	\$.60
2	.40	.50	.80

No.	Length Open Inches	Width at Pin Inches	Weight Per Pair Ounces	Thickness Inches
1	2 1/4	3/4	1/2	.040
2	3 1/2	1 1/8	1 1/2	.045



SASH HINGES
CAST BRONZE

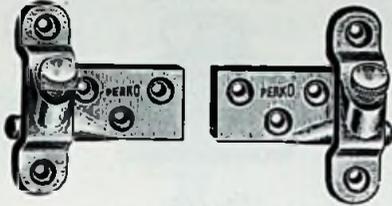


Fig. 418

A set consists of two brackets with adjusting screws and two hinge plates, right and left hand.

No.	Size of Hinge Plates Inches	Size of Bracket Base Inches	Weight Per Set Ounces	Length of Pin Inches
1	1 7/16 x 7/8	2 1/2 x 1 1/8	6	7/8
2	1 7/16 x 7/8	3 1/4 x 1 1/8	7	7/8

No.	Polished Bronze Per Set	Chromium Plated Per Set
1	\$3.25	\$4.50
2	3.85	5.00

LADDER HINGES
CAST BRONZE



Fig. 556

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Open Inches	Width Inches	Weight Per Pair Ounces
\$7.25	\$8.25	5 3/4	3/4	9

FLAP HINGES

WROUGHT BRASS—THICKNESS .050 INCHES



Fig. 929

Polished Brass Per Pair	Chromium Plated Per Pair	Length Open Inches	Extreme Width Inches	Weight Per Pair Ounces
\$.65	\$.80	2	3/8	1 1/4

CABINET HINGES

BRASS—POLISHED OR CHROMIUM PLATED
FLUSH OR OFFSET

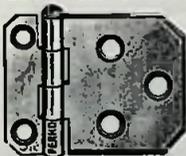


Fig. 772

Packed one dozen pairs per box, complete with screws.
Offset is 3/8 inch.

	Polished Brass Per Doz. Pairs	Chromium Plated Per Doz. Pairs	Size Open Inches	Gauge	Weight Per Pair Ounces
Offset	\$18.90	\$20.00	2 x 1 1/2	14	2
Flush	20.50	27.50	2 x 1 1/2	14	2

SPRING HINGES
WROUGHT BRASS—PLAIN



Fig. 1059

No.	Per Pair	Length Inches	Width Open Inches	Weight Per Pair Ounces
1	\$1.05	2 3/8	1 1/4	3
2	1.40	3	2 3/8	5

HATCH HINGES
CAST BRONZE

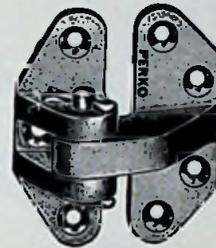


Fig. 773

For use with flush hatch cover.

Polished Bronze Per Pair	Chromium Plated Per Pair	Length Inches	Width Overall Inches	Weight Per Pair Pounds
\$8.75	\$11.00	3 3/8	2 3/8	1 3/4

Illustration shows one half pair.

WARDROBE HOOKS
CAST BRASS



Fig. 635



Fig. 1106

Fig.	Chromium Plated Each	Projection Inches	Width Inches	Weight Ounces
635	\$.75	2	1 1/4	1
1106	.75	7/8	2 5/8	1 1/4

COAT AND HAT HOOKS
CAST BRASS



Fig. 959

Polished Brass Each	Chromium Plated Each	Projection Inches	Width Base Inches	Weight Ounces
\$.65	\$.85	2 3/8	1 3/8	1 3/4



HATCH SUPPORT HINGES
CAST BRASS



Fig. 758

Cut shows left hand hinge.

Length Open Inches	Polished Brass Per Pair	Chromium Plated Per Pair	Drilled for Screw No.	Weight Ounces Per Pair	Packed Per Box Pairs
8	\$4.30	\$5.50	5	4	12
10	4.75	6.00	6	6	12
12	5.20	6.60	6	8	12
18	8.15	10.50	6	16	6

HEAVY DUTY TYPE

10	8.10	10.40	6	10	12
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HATCH ADJUSTERS
CAST BRONZE

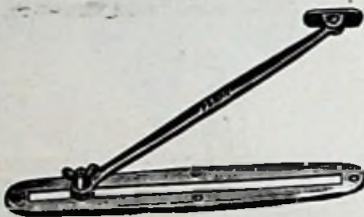


Fig. 797

Polished Bronze Each	Chromium Plated Each	Length Arm Inches	Length Adjustment Inches	Length Plate Inches	Weight Ounces
\$5.50	\$6.75	10	9½	10¾	13

CASEMENT ADJUSTERS
ALL BRASS—HEAVY PATTERN



Fig. 1179

A non-slip adjuster with powerful grip to stay put in position desired.

Illustration shows swivel base on left side and swinging base on right.

No.	Chromium Plated Each	Length Closed Inches	Length Open Inches	Diam. Outside Tube Inches	Weight Ounces
1	\$7.75	10	17	½	9
2	8.00	12	20	½	11

CASEMENT or WINDSHIELD ADJUSTERS
CAST BRASS

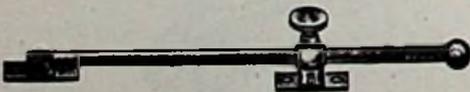


Fig. 1116

No.	Machine Polished Each	Chromium Plated Each	Length Inches	Diam. Rod Inches	Weight Ounces
1	\$4.75	\$6.30	8	¾	11
2	5.00	6.80	10	¾	12
3	5.30	7.25	12	¾	13

SASH LIFTS
CAST BRONZE



Fig. 776

No.	Size of Plate Inches	Chromium Plated Each	Weight Ounces
1	½x1½	\$.80	½
2	¾x1½	.85	¾

SASH ANTI RATTLERS
CAST BRONZE

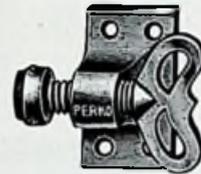


Fig. 839

Furnished with leather tip to prevent defacing of wood-work. Size of base 1½"x1".

Polished Bronze, Each	\$2.50
Chromium Plated, Each	2.75

SASH or SKYLIGHT FASTENERS
CAST BRONZE



Fig. 770

Size Inches	Burnished Finish Each	Polished Bronze Each	Chromium Plated Each
¾x4	\$3.50	\$4.25	\$4.90

SASH FASTENERS
LEFT OR RIGHT HAND
CAST BRONZE



Fig. 777

No.	Polished Bronze Each	Chromium Plated Each	Size Mounting Plate Inches	Weight Ounces
1	\$1.00	\$1.25	1¾x1	1½

Please specify left or right hand.



PAINT SCRAPER SET

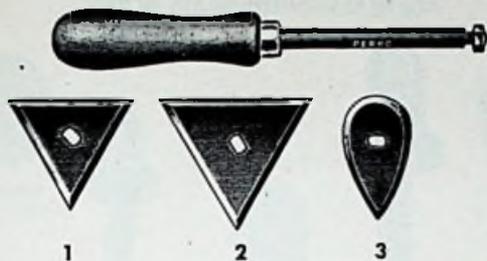


Fig. 1015

Per Set — \$3.10

Set consists of handle with 3 blades illustrated, and nut to change and attach blades.

Packed, 1 set to a box.

No. 1 Blade, Triangular— $2\frac{3}{8} \times 2\frac{3}{8}$ inches.

No. 2 Blade, Triangular—3x3 inches.

No. 3 Blade, Oval— $2\frac{1}{2} \times 1\frac{1}{4}$ inches.

Length Handle— $8\frac{1}{2}$ inches.

DOUBLE END SCRAPERS

FINE GRADE TOOL STEEL
HEAT TREATED

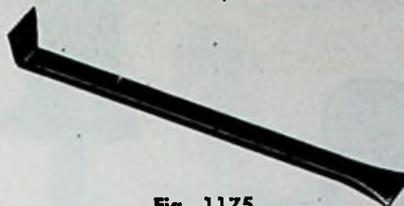


Fig. 1175

Per Dozen	Length Inches	Width Inches	Thick-ness Inches	Width Blade Inches	Weight Per Dozen Pounds
\$14.00	15	1	$\frac{1}{4}$	$1\frac{1}{4}$	13

PAINT SCRAPERS



Triangular
Fig. 626

Oval
Fig. 918

Fig.	Complete Per Doz.	Size Blade Inches	Length Inches	Weight Per Doz. in Lbs.
626	\$12.00	3 x 3	9	6
918	15.00	$2\frac{1}{2} \times 1\frac{1}{2}$	9	$5\frac{1}{2}$

MARLINE SPIKES

POLISHED STEEL
FOR WIRE ROPE



Fig. 921

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
8	\$43.70	6
10	46.90	10
12	51.00	$12\frac{1}{4}$
14	54.00	$16\frac{1}{2}$
16	62.80	25
18	72.40	30

SHIP SCRAPERS

GIBBS PATTERN—TEMPERED STEEL BLADES



Fig. 920

Each	Blades Only Each	*Handles Only Each	Size Blade Inches	Length Inches
\$5.20	\$2.30	\$3.60	$4\frac{1}{2} \times \frac{1}{2}$	17

*Handle complete with socket and bolt.

FOR MANILA ROPE



Fig. 922

Length Inches	Per Dozen	Approx. Weight Per Dozen in Pounds
6	\$22.50	$5\frac{1}{2}$
8	22.50	$7\frac{1}{2}$
10	25.00	12
12	31.25	17
14	38.00	$23\frac{1}{2}$
16	54.00	27
18	65.00	$34\frac{1}{2}$

CAULKING IRONS

MALLEABLE IRON



Fig. 307

Size No.	Per Dozen	Thickness Inches	Length Inches	Width Blade Inches	Weight Per Dozen in Lbs.
00	\$19.80	$\frac{1}{2}$	5	2	$3\frac{1}{2}$
0	19.80	$\frac{1}{8}$	$5\frac{3}{8}$	$2\frac{1}{2}$	$4\frac{1}{2}$
1	21.50	$\frac{1}{4}$	5 $\frac{1}{2}$	$2\frac{1}{4}$	5 $\frac{1}{4}$

HAND FIDS

MAPLE



Fig. 923

For use in splicing ropes and light flexible cables, has a rounded end for hand use; varnished finish.

No.	Per Dozen	Size Inches
0	\$11.50	$12 \times 1\frac{3}{4}$
1	14.00	$14 \times 1\frac{3}{4}$
2	15.00	16×2
3	17.80	18×2
4	26.20	$20 \times 2\frac{1}{4}$
5	52.60	24×3



CURTAIN FASTENERS

ALL BRASS—WITH BRASS SCREW



FLANGED STUD
Single Fig. 994
Double Fig. 995



SCREW STUD
Single Fig. 991
Double Fig. 998



Eyelet
Fig. 996



Washer
Fig. 997

Stud Figs. 991, 998 has brass 5/8" No. 7 wood screw.
Single Studs are used with one Fig. 996 and one Fig. 997.
Double Studs are used with two Fig. 996 and two Fig. 997.

Fig.	Brass Finish Per 100	Nickel Plated Per 100	Chromium Plated Per 100
991	\$26.50	\$27.00	\$29.75
994	20.50	21.00	23.50
995	22.50	23.00	25.75
996	3.00	3.25	5.50
997	1.60	1.85	4.20
998	28.50	29.00	32.00

HAND PUNCH

FOR ABOVE CURTAIN FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 284 Each \$8.50

HAND SCREW DRIVER

FOR "LIFT THE DOT" STUDS
STEEL WITH WOOD HANDLE



Fig. 290 Each \$2.90

"Lift The Dot" FASTENERS

ALL BRASS—WITH BRASS SCREW



STUD
With Wood Screw
Single Fig. 114
Double Fig. 115



STUD
For Machine Screw
Single Fig. 156



SOCKET
Single Fig. 116
Double Fig. 117



Clinch Plate
Fig. 118



Clinch Stud
Single Fig. 60
Double Fig. 61



Clinch Washer
Fig. 62



STUD
With Tapping Screw
Single Fig. 90

Stud Figs. 114, 115 has brass 1/2" No. 8 wood screw.
Stud Fig. 156 is tapped for No. 8-32 screw.
Stud Fig. 90 has steel 3/8" No. 8 self-tapping screw.
Single Studs are used with one Fig. 116 and one Fig. 118.
Double Studs are used with two Fig. 117. and two Fig. 118.

Fig.	Nickel Plated Per 100	Brass Finish Per 100	Chromium Plated Per 100
61	12.20	12.50	15.00
60	\$5.75	\$6.00	\$8.25
62	1.65	1.85	4.10
90	6.50	6.75	9.00
114	14.65	15.00	17.15
115	15.85	16.20	18.35
116	8.25	8.50	11.50
117	8.50	8.75	12.00
118	1.70	1.90	4.20
156	14.00	14.50	16.50

Note—Price of Fig. 156 does not include machine screw, just the tapped stud only.



"Durable Dot" FASTENERS
ALL BRASS—WITH BRASS SCREW



Button
Fig. 896



Socket
Fig. 898



Eyelet
Fig. 907



STUD
With Wood Screw
Fig. 900



STUD
With Tapping Screw
Fig. 906



STUD
For Canvas
Fig. 901

Stud Fig. 900 has brass 1/2" No. 6 wood screw.
Stud Fig. 906 has steel 3/8" No. 7 self-tapping screw.
For canvas to wood, use Figs. 896, 898 and 900.
For canvas to canvas, use Figs. 896, 898, 901 and 907.

Fig.	Brass Finish Per 100	Nickel Plated Per 100	Chromium Plated Per 100
896	\$2.40	\$2.65	\$5.00
898	1.85	2.10	4.50
900	5.90	6.20	8.50
901	1.10	1.30	3.75
906	4.90	5.25	7.50
907	1.10	1.30	3.75

HAND SET TOOL

FOR ABOVE BUTTONS AND EYELETS
STEEL



Fig. 905 Each \$1.70

HAND PUNCH

FOR "LIFT THE DOT" FASTENERS
CAST IRON WITH STEEL CUTTERS



Fig. 285 Each \$3.75

NEW LASHING HOOK

FOR BOAT COVERS
ZAMAK DIE CASTING—CHROMIUM PLATED



Fig. 1249

Chromium Plated Each	Length Overall Inches	Width Overall Inches	Inside Hook Inches	For Screw No.	Packed Per Box	Weight Ounces
\$2.25	1 1/4	1/2	1/4	6	50	1/2

CURTAIN or GROMMET HOOKS

CAST BRASS



Fig. 1000

Plain Brass Per Dozen	Diam. Flange Inches	Length Screw Inches
\$2.70	3/4	1/2

GROMMET HOLE CUTTERS

FORGED STEEL



Fig. 903

No.	Each	Diam. Hole Inches	No.	Each	Diam. Hole Inches
0	\$2.10	1/4	5	\$5.00	3/4
1	2.10	5/16	6	5.00	3/4
2	2.10	1/2	7	6.00	3/4
3	2.10	3/4	8	6.00	1 1/4
4	2.50	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	\$ 5.60	\$ 5.60	1 1/4
1	5.90	5.90	1 3/4
2	6.10	6.10	1 3/4
3	6.25	6.25	1 3/4
4	7.00	7.00	2 3/4
5	8.90	8.90	2 3/4
6	17.00	17.00	3 1/2
7	25.00		3 3/4
8	25.00		5

Use a wooden mallet with above dies.



United States Coast Guard

New Revised Motor Boat Rules & Regulations Governing Navigation Lights.

Effective June 4, 1956 — Public Law No. 522

OPTION No. 1

(a) Inboards, outboards, and auxiliaries under 26 feet in length, carry, as before, a combination red and green lantern forward and an all around white light aft; show, as before, both lights when running under power alone. Auxiliaries, if running under both sail and power, show both lights instead of just the all around white light. Also, auxiliaries, if running under sail alone, show the combination lantern instead of the all around white light.

(b) Inboards, outboards, and auxiliaries of 26 feet or more, but not more than 65 feet, in length, and under 40 gross tons in weight, carry, as before, a 20 point white light forward, an all around white light aft, and separate red and green sidelights; show, as before, each of these lights when running under power alone. Auxiliaries, if running under both sail and power, show each of these lights instead of just the sidelights. If running under sail alone, auxiliaries show, as before, the red and green sidelights and turn off the white lights.

OPTION No. 2

In the case of Option 2, inboards, outboards, and auxiliaries, under or over 26 feet in length, but not more than 65 feet in length, and under 40 gross tons in weight, carry either a combination lantern or separate red and green sidelights, a 20 point white light forward, and a 12 point white light at the stern; show each of these lights when running under power alone or both sail and power. Auxiliaries, if running under sail alone, turn off the 20 point white light and show the sidelights (or combined lantern) and the 12 point white stern light.

Pertinent details for inboards, outboards, and auxiliaries subject to the Motorboat Act which exercise Option 2 are to be found in Rules 2 (a), 7 (a), 7 (b), and 10 (a) of the Regulations for Preventing Collisions at Sea, 1948, commonly referred to as International Rules. When checking the characteristics of the lights and their required separation, if the boat is less than 40 gross tons, Rules 7 (b), 7 (a), and 10 (a) should be read and applied in the order listed in this sentence, and Rule 2 (a) omitted.

Option No. 1 Lights are Legal on Inland Waters, Western Rivers, and The Great Lakes only. Visibility requirements, Sidelights 1 Mile. Bow and Stern Lights 2 Miles.

Option No. 2 are New International Rule Lights legal anywhere, Inland Waters, Lakes, or High Seas. Visibility requirements, Sidelights 1 Mile. Bow and Stern Lights 3 Miles.

SAFETY EQUIPMENT

VESSELS	0 to less than 16 feet	16 to less than 26 feet	26 to less than 40 feet	40 to not more than 65 feet
WHISTLE	NONE	1 — hand, mouth, or power-operated. Audible at least ½ mile.	1—hand or power-operated. Audible at least 1. mile.	1 — power-operated. Audible at least 1 mile.
BELL	NONE	NONE	1 — which produces, when struck, a clear bell-like tone of full round characteristics.	
LIFESAVING DEVICES	1 — approved life preserver, buoyant vest, ring-buoy, or buoyant cushion for each person on board.			1—approved life preserver or ring buoy for each person on board.
FLAME ARRESTERS	1 — on each carburetor of all gasoline engines installed after April 25, 1940, except outboard motors. (Approved)			
VENTILATION	At least 2 ventilators with cowls or equivalent capable of removing gases from the bilges in engine and fuel tank compartments of boats constructed or decked after April 25, 1940, using gasoline or other fuel of a flashpoint less than 110° Fahrenheit.			
FIRE EXTINGUISHERS	Any one of the following types of extinguishers: 1 quart vaporizing liquid 1½ gallon foam 4 pound CO ₂ 4 pound dry chemical None required on pleasure outboard motorboats of open construction.	Any two of the following types of extinguishers: 1 quart vaporizing liquid 1½ gallon foam 4 pound CO ₂ 4 pound dry chemical		Any three of the following types of extinguishers: 1 quart vaporizing liquid 1½ gallon foam 4 pound CO ₂ 4 pound dry chemical



CLOUD FORMATIONS AND SYMBOLS

1. **Cirrus, (Ci.)**—Detached clouds, delicate and fibrous looking, taking the form of feathers, generally of a white color, sometimes arranged in belts which cross a portion of the sky in great circles, and, by an effect of perspective, converging toward one or two opposite points of the horizon.
2. **Cirro-Stratus, (Ci-S.)**—A thin, whitish sheet, sometimes completely covering the sky and only giving it a whitish appearance, or at others presenting, more or less distinctly, a formation like a tangled web. This sheet often produces halos around the sun and moon.
3. **Cirro-Cumulus, (Ci-Cu.)**—Small globular masses or white flakes, having no shadows, or only very slight shadows, arranged in groups and often in lines.
4. **Alto-Cumulus, (A-Cu.)**—Rather large globular masses, white or grayish, partially shaded, arranged in groups or lines, and often so closely packed that their edges appear confused. The detached masses are generally larger and more compact at the center of the group; at the margin they form into finer flakes. They often spread themselves out in lines in one or two directions.
5. **Alto-Stratus, (A-S.)**—A thick sheet of gray or bluish color, showing a brilliant patch in the neighborhood of the sun or moon, and which, without causing halos, may give rise to coronae. This form goes through all the changes like the Cirro-Stratus, but its altitude is only half as great.
6. **Strato-Cumulus, (S-Cu.)**—Large globular masses or rolls of dark cloud, frequently covering the whole sky, especially in winter, and occasionally giving it a wavy appearance. The layer of Strato-Cumulus is not, as a rule, very thick, and patches of blue sky are often visible through the intervening spaces. All sorts of transitions between this form and the Alto-Cumulus are noticeable. It may be distinguished from Nimbus by its globular or rolled appearance and also because it does not bring rain.
7. **Nimbus, (N.)**—Rain clouds; a thick layer of dark clouds, without shape and with ragged edges, from which continued rain or snow generally falls. Through the openings of these clouds an upper layer of Cirro-Stratus or Alto-Stratus may almost invariably be seen. If the layer of Nimbus separates into shreds or if small loose clouds are visible floating at a low level underneath a large Nimbus, they may be described as Fracto-Nimbus (*Fr.-N.*), the "scud" of sailors.
8. **Cumulus, (Cu.)**—Woolpack clouds; thick clouds of which the upper surface is domeshaped and exhibits protuberances, while the base is horizontal. When these clouds are opposite the sun the surfaces usually presented to the observer have a greater brilliance than the margins of the protuberances. When the light falls aslant, they give deep shadows; when, on the contrary, the clouds are on the same side as the sun, they appear dark with bright edges. The true Cumulus has clear superior and inferior limits. It is often broken up by strong winds, and the detached portions undergo continual changes. These may be distinguished by the name of Fracto-Cumulus (*Fr.-Cu.*).
9. **Cumulo-Nimbus, (Cu.-N.)**—The thunder-cloud or shower-cloud; heavy masses of clouds rising in the form of mountains, turrets, or anvils, generally having a sheet or screen of fibrous appearance above, and a mass of clouds similar to Nimbus underneath. From the base there usually fall local showers of rain or of snow (occasionally hail or soft hail).
10. **Stratus, (S.)**—A horizontal sheet of lifted fog; when this sheet is broken up into irregular shreds by the wind or by the summits of mountains, it may be distinguished by the name of Fracto-Stratus (*Fr.-S.*).
11. **Fracto-Stratus, (Fr.-S.)**—A horizontal sheet of lifted fog broken into irregular shreds by wind or the summits of mountains.
12. **Fracto-Cumulus, (Fr.-Cu.)**—Cumulus, when broken up by strong winds, undergo continual changes. These are distinguished by the name of Fracto-Cumulus (*Fr.-Cu.*).

RULES OF THE ROAD

- A power boat gives way to a sail boat except when being overtaken.
- Power boats meeting head on pass portside to portside, unless signaled otherwise.
- Any vessel being overtaken by another has the right of way.
- Any vessel having right of way shall hold her course and speed, unless such action would cause a collision.
- The danger zone is from dead ahead to two points abaft the starboard beam.
- Any power boat having another in its danger zone shall give way to the other and shall, if necessary, alter course, slacken speed, stop or reverse.
- A vessel (under 65 ft.) using both sail and power, acts as a power boat by day, but as a sail boat by night.
- A sail boat running free gives way to the one close hauled.
- A sail boat running free with the wind on the port, gives way to one running free with the wind on the starboard.
- A sail boat close hauled with wind on the port, gives way to one close hauled with wind on the starboard.
- When two sail boats are running alike, the one to the windward gives way.

WHISTLE SIGNALS FOR POWER BOATS

- A vessel's rights cannot be altered by whistle signals, the one which whistles first gains no rights over another, cross signals are unlawful.
- If the signal is correct for the circumstances, answer it, if it is not give the danger signal, stop, and come to an understanding.
- 1—Short blast—I wish to leave you on my port.
 - 2—Short blasts—I wish to leave you on my starboard.
 - 3—Short blasts—My engines are going astern. I am doing my best to stop.
 - 4—Short blasts—Danger, stop, your signals are not clear or are not satisfactory to me.
 - 4—Long blasts—Raise the bridge.
- Whistle signals are never given to or by a sail boat.

FOG SIGNALS FOR POWER BOATS

- 1—Long blast— I am under way.
- 1—Long and 2 Short blasts—I am towing something.

FOG HORN SIGNALS FOR SAIL BOATS

- 1—Short blast—I am on the starboard tack.
- 2—Short blasts—I am on the port tack.
- 3—Short blasts—I am running free.
- 1—Long and 2—Short blasts—I am being towed (any vessel).
- Rapid bell—I am at anchor (any vessel).



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