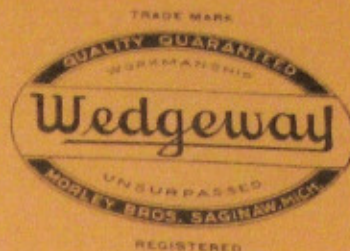


ESTABLISHED 1863

INCORPORATED



MORLEY BROTHERS

WHOLESALE JOBBERS AND MANUFACTURERS
OF

HARDWARE, CUTLERY, SPORTSMEN'S SUPPLIES, MILL SUPPLIES,
LUMBERING TOOLS, ROLLING SHELF LADDERS, STOVES
AND RANGES, PAINTS, OILS AND VARNISHES,
IRON, STEEL AND METALS, HARNESS,
SADDLERY AND HORSE COLLARS

MAIN BUILDING AND OFFICES

Nos. 115, 117, 119, 121, 123, 125, 127 and 129 NORTH WASHINGTON AVENUE

WAREHOUSE No. 1

Nos. 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134 NORTH WATER STREET

WAREHOUSE No. 2

SOUTH WATER STREET BETWEEN JAMES AND GERMANIA AVENUES

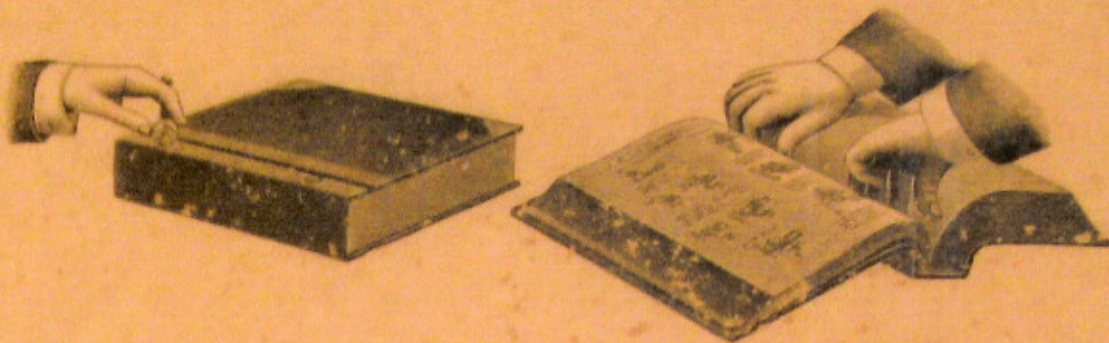
FACTORIES AND POWER HOUSE

Nos. 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133 SOUTH WATER STREET

SAGINAW, MICHIGAN

DIRECTIONS FOR OPERATING BINDER

DO NOT USE MECHANICAL FORCE, -- LOOSEN AND FASTEN SCREWS WITH A COIN ONLY.



FIRST

Loosen screws to almost their entire length, but do not remove from cover.

SECOND

Open to page desired, then spread apart as shown.

THIRD---Leaves may then be easily removed or inserted.

FOURTH---To lock the binder, place one hand under each cover and close the book. While it is resting on the back edge, press the covers together, being careful, however, to see that the LEAVES ARE IN ALIGNMENT. Then lay book on bottom cover and tighten screws firmly.

GENERAL CATALOG No. 1177 DATE 5/12/13

PRESENTED TO Wick & Carpp
Spencer Mich

| Present freight rates from SAGINAW to your City in cents per 100 pounds. | LESS THAN CAR LOTS | | | | |
|--|--------------------|----|----|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| CLASS OF FREIGHT | 33 | 27 | 22 | | |

One copy is furnished free to each of our customers. If one of our competitors asks for yours refer him to us. We will refuse no proper request.

A record of each catalog is made, so that we can keep your book up to date.

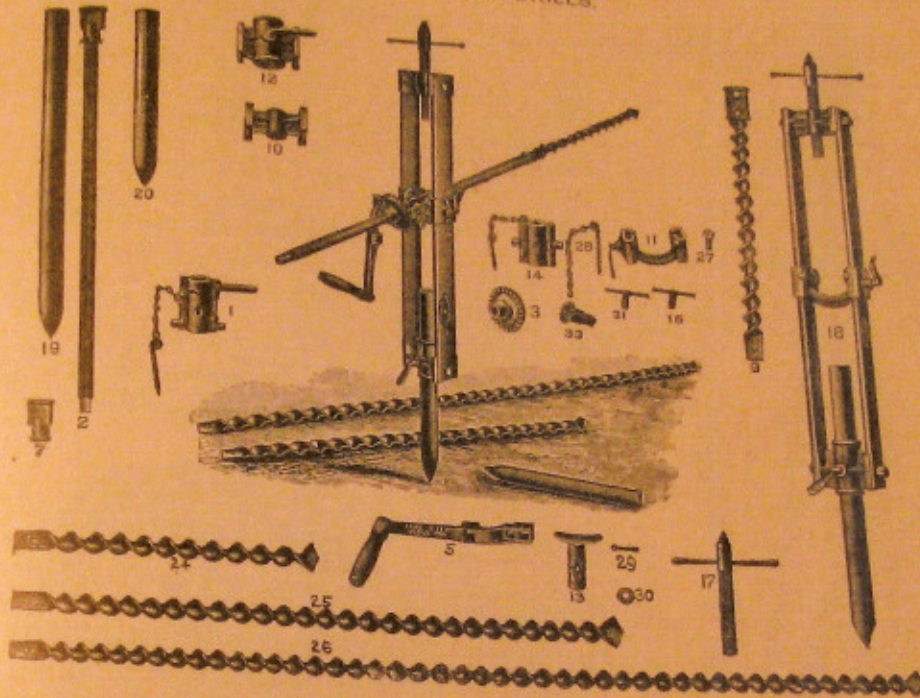
MORLEY BROTHERS

SAGINAW, MICHIGAN

COAL MINERS' TOOLS.

Wedgeway

"ALTON" POST DRILLS.



No. 20—Post Drills, Complete with Side and End Gear and Three Augers
Weight Complete, 85 Pounds.

Each
\$20.00

EXTRA PARTS.

| | | | |
|---|--------|---|--------|
| No. 1—Thread Box (Alloy) | Each | No. 18—Post Complete | Each |
| No. 2—Thread Bar | \$1.65 | No. 19—Post Pipe, Long | \$4.62 |
| No. 3—Large Bevel Wheel | 2.75 | No. 20—Post Pipe, Short | 1.00 |
| No. 5—Crank | .80 | No. 24—Short Auger, 2 feet Long | .60 |
| No. 7—Auger Socket | .55 | No. 25—Medium Auger, 4 feet Long | .92 |
| No. 9—Auger Extension | .33 | No. 26—Long Auger, 6 feet Long | 1.84 |
| No. 10—Top Post Jack Screw Casting | .95 | No. 27—Set Screw for Nos. 10 and 12 | 2.76 |
| No. 11—Post Slide, Complete | 1.00 | No. 28—Steel Pin and Chain for Thread Box | .10 |
| No. 12—Lower Post End Casting, Complete | 1.25 | No. 29—Spring Key for Crank | .25 |
| No. 13—Sleeve for Breast Drill | 1.00 | No. 30—Steel Washer for Crank Pinion | .05 |
| No. 14—End Gear Thread Box (Alloy) | .40 | No. 31—Tail Screw for No. 17 | .05 |
| No. 15—Small Jack Screw for No. 11 | .80 | No. 33—Small Bevel Wheel, Long Hub | .15 |
| No. 17—Post Jack Screw | .15 | | |
| | .55 | | |

In Ordering Augers, Specify whether Same are Wanted with Square or Feather Edge. When Ordering Drills or Posts, State Thickness of the Vein of Coal in which They are to be Used.

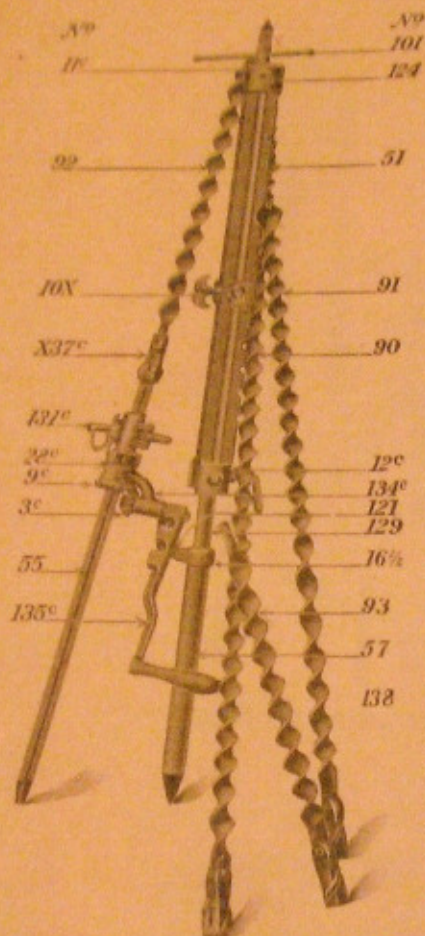
ROCK MACHINES.

We can furnish the above Machine for Drilling Hard Substances, such as Slate, Etc. The Thread Bar is 12 Threads to the inch, which is a Slow Feed, and Smaller Augers, made of The Best Tool Steel. Price of Same, \$5.00 Above Price of Regular Coal Drill.

One to a Bundle.

Wedge-way

COAL MINERS' TOOLS.



HARDSOC'S "Q" POST DRILLS.

Either V or Square Thread, Thread Bars.

| | |
|---|---------|
| Q-Post Drill, Side Gear, 2, 4 and 6 foot Augers | Each |
| Q-Post Drill, End Gear, 2, 4 and 6 foot Augers | \$25.00 |
| Q-Post Drill, Side Gear, 3, 4 and 5 foot Augers | 18.00 |
| Q-Post Drill, End Gear, 3, 4 and 5 foot Augers | 18.00 |
| Weight Each 90 Lbs. | |

EXTRA PARTS.

| | |
|--|--------|
| No. 30-Or Small Cog Wheel | Each |
| No. 90-Or Large Cog Wheel | \$9.00 |
| No. 280-Frame Only for Gearing | 75 |
| No. 370-Square Socket that Goes on Auger | 1.90 |
| No. 55-Thread Bar 1 1/4 inch Diameter | 1.50 |
| No. 90-Six foot Coal Auger (for bituminous coals) | 2.50 |
| No. 91-Four foot Coal Auger (for bituminous coals) | 2.00 |
| No. 92-Two foot Coal Auger (for bituminous coals) | 1.50 |
| No. 93-Auger Extension (two feet long) | 1.15 |
| No. 100-Pin for Open or Hinged Boxing | .95 |
| No. 112-Small Cog Wheel with Journal | 1.90 |
| No. 115-Journal Only for Small Cog Wheel | .50 |
| No. 1310-Hinged or Open Boxing | 1.15 |
| No. 1340-Gearing Only for Drill | 3.50 |
| No. 1350-Crank Only | .75 |
| No. 138-Post Complete, as Shown in Cut | 4.50 |
| No. 110-Or Casting for Post (Jack Screw 101 fits in) | 1.90 |
| No. 120-Or Casting for Post (129 fits in) | 1.90 |
| No. 16-Ring for 1 1/2 inch Boot | .15 |
| No. 16 1/2-Ring for 1 3/4 inch Boot | .15 |
| No. 51-Ribbed Side Bar for New Style Post (give No. of post) | 1.00 |
| No. 57-Small Boot (1 1/4 inch in diameter) | 1.00 |
| No. 64-Large Stem (1 1/2 inch in diameter) | .75 |
| No. 65-Large Boot (1 1/2 inch size) | 1.00 |
| No. 101-Jack Screw | .60 |
| No. 121-Tail Set Screw | .20 |
| No. 124-Bolt for Post having Ribbed Side Bars | .10 |
| No. 129-Small Sized Stem (that fits into 57) | .75 |

HEIGHT OF DIFFERENT SIZED POSTS.

No. 1 Post—Adapted to Coal Seam from 5 to 8 1/2 feet Thick. No. 3 Post—Adapted to Coal Seam from 3 to 6 1/2 feet Thick.
 No. 2 Post—Adapted to Coal Seam from 4 to 7 1/2 feet Thick. No. 4 Post—Adapted to Coal Seam from 2 to 5 1/2 feet Thick

Always Give Number of Posts when Ordering Post Drills.

IRON TAMP CHURN DRILLS.



No. 85—One inch Round Material Only, Having Bits 8 1/2 inches Long, Made of Best Cast Tool Steel, Lengths from 5 to 7 feet, Weight Per Dozen 175 Lbs. Per Dozen \$21.00

DOUBLE END SCRAPERS.



No. 86—Lengths from 5 to 7 feet, Weight Per Dozen 32 Lbs. Per Dozen \$6.00
 One Dozen in a Bundle.

COAL MINERS' TOOLS. MINING PICKS.

Wedgewood



No. 5—Regular Pattern.

| | | | | | |
|--------------|---------|-------|-------|-------|-------|
| Weight, Lbs. | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
| Per Dozen | \$9.20 | 9.20 | 9.20 | 9.70 | 9.70 |
| Weight, Lbs. | 3 | 3 1/2 | 4 | 4 1/2 | 5 |
| Per Dozen | \$10.20 | 10.70 | 11.20 | 11.70 | 12.20 |

Two Dozen in a Box.



No. 14—Patent.

| | | | | |
|--------------|--------|-------|-------|-------|
| Weight, Lbs. | 1 1/2 | 1 3/4 | 2 | 2 1/4 |
| Per Dozen | \$9.20 | 9.20 | 9.20 | 9.70 |
| Weight, Lbs. | 2 1/2 | 2 3/4 | 3 | 3 1/2 |
| Per Dozen | \$9.70 | 9.70 | 10.20 | 10.70 |

COAL SLEDGES OR MAULS.



No. 11—Taper Pattern, Oval Eye.

| | | |
|-----------------------|--------|-------|
| Weight, Lbs. | 5 | 6 |
| Length, Inches | 9 1/2 | 9 1/2 |
| Diameter Face, Inches | 1 1/2 | 1 3/4 |
| Per Lb. | \$0.32 | 32 |

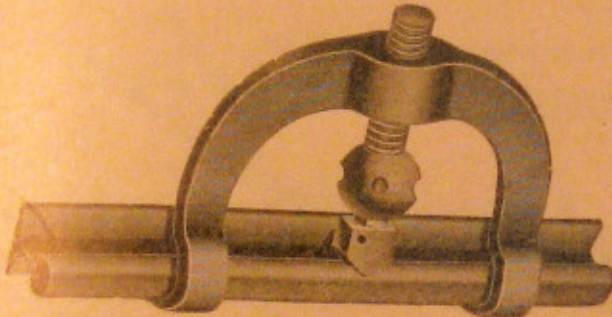
COAL MINERS' WEDGES.



| | |
|--|---------|
| No. 10—Regular Pattern, Long and Slim, Forged Crucible Steel, Oil Finish, Assorted Weights 2, 2 1/2, 2 3/4 and 3 Lbs | Per Lb. |
| | \$0.20 |

RAIL BENDERS.

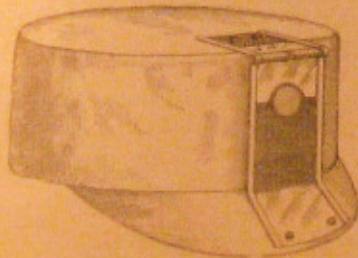
Heavy Forged Steel, Natural Finish Frame, Steel Bending Screw with Square Machine Cut Threads.



SCREW BENDER.

1 1/2 inch Holes in Head to Receive Lever Bar.

| | | | |
|------------------------|----------|----------|----------|
| Nos. | 3B | 4B | 5B |
| Run of Screw, Inches | 17 | 15 | 13 |
| Diameter Screw, Inches | 2 1/2 | 2 1/2 | 2 |
| Span, Inches | 20 | 16 | 14 |
| Bends Rails, Lbs. | 40 to 55 | 25 to 20 | 12 to 20 |
| Weight Each, Lbs. | 125 | 85 | 70 |
| Each | \$52.00 | 24.50 | 20.50 |



CAPS.

| | | |
|-----------------------------------|-----------|--------|
| No. 10—White Tin Front | Per Dozen | \$3.00 |
| No. 103—White Tin and Fibre Front | | 2.50 |

Put up in Assorted Dozens, 6 3/4 to 7 1/4, 9 3/4 to 7 1/2, and Solid Dozens of Any Size.

BELTS.

| | | |
|--|-----------|-------|
| White Duck Miners' Belts, Assorted Lengths | Per Dozen | 14.50 |
|--|-----------|-------|

MINERS' OVERALLS.

Clark's Patent Miners' Overalls have a Rubber Goring inserted in the front and running down to the crotch, thereby giving it elasticity when the wearer is in a stooping or straining position. They are made from best White Duck.



| | | |
|---|-----------|---------|
| 8 Oz. White Duck, with Rubber Goring | Per Dozen | \$16.00 |
| 8 Oz. White Duck, without Rubber Goring | | 14.50 |

MINERS' POWDER PAPER.



Heavy Fibre Rolls, 12, 14 and 16 inches Wide

Loose.

MORLEY BROTHERS

COAL MINERS' SUPPLIES.

MINERS' OIL CANTEENS.



Plain H. Tin, Screw Cap, Soldered Strap Lamps.

No. 41—1 Pint, Size 4 1/2 x 1 1/2 inches, Weight Per Dozen 2 1/2 Lbs. \$2.15
Loose.

MINERS' LAMPS.

FOR SOLID OR LIQUID OIL.



IX Heavy Tin with Deflected Bottom, Copper Spout Extending Down into Bowl, Adjustable Copper Wire Extends from Flame Down into Bowl and Provides Heat to Melt Solid Oil, Double Thick, Hinged Lid with Air Hole in Top, with Single Wire Hook.

HARDSOCC'S MINERS.

No. 4—Base 1 1/2 inches, Height of Body 1 3/4 inches, Takes 3/8 inch Wick. \$4.60
Weight Per Dozen 2 Lbs.

BLACK DIAMOND DRIVERS.

No. 6—Base 1 3/8 inches, Height of Body 2 1/2 inches, Height of Spout 3 1/2 inches, Takes 1/2 inch Wick, Weight Per Dozen 2 3/4 Lbs. \$4.60



FROSTBURG MINERS.

No. 15—Base 1 1/2 inches, Height of Body 2 1/4 inches, Height of Spout 2 1/2 inches, Takes 3/8 inch Wick, Weight Per Dozen 1 1/2 Lbs. \$3.60

FROSTBURG DRIVERS.

No. 20—Base 1 1/2 inches, Height of Body 2 1/4 inches, Height of Spout 3 inches, Takes 1/2 inch Wick, Weight Per Dozen 1 1/2 Lbs. \$3.50



DUNLAP PITTSBURG.

IX Heavy Tin, Double Seamed Body and Spout, Double-Tube Spout, Riveted Single Wire Hook, Hinged Lid, Body and Bottom Stamped from One Piece of Metal.

MINERS.

No. 101—Base 1 1/2 inches, Height of Body 2 1/4 inches, Takes 3/8 inch Wick. \$3.90
Weight Per Dozen 2 Lbs.

DRIVERS.

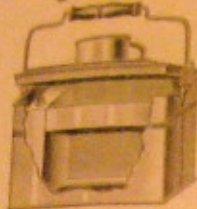
No. 102—Base 1 1/2 inches, Height of Body 3 inches, Height of Spout 4 inches, Takes 1/2 inch Wick, Weight Per Dozen 5 1/4 Lbs. \$4.40

One Dozen in a Box

Wedgewood

DINNER PAILS.

SQUARE.



With Coffee Flask, Pie Tray and Cup. IC Tin. Coffee Flask Inside of Bucket, Steel Wire Bail, Enamelled Wood Grip.

| | |
|-------------------------|---------------|
| No. | 173 |
| Quarts | 3 |
| Size, Inches | 8 1/4 x 5 1/4 |
| Height, Inches | 7 3/4 |
| Weight Dozen, Lbs. | 20 |
| Per Dozen | \$8.40 |

OBLONG.



With Pie Tray and Cup. IC Tin, Steel Wire Self-Locking Bail, Enamelled Wood Grip.

| | | | |
|-------------------------|-----------|---------------|-----------|
| Nos. | 163 | 164 | 165 |
| Quarts | 3 | 4 | 5 |
| Size, Inches | 8 3/4 x 6 | 8 3/4 x 6 1/2 | 9 1/4 x 7 |
| Height, Inches | 7 3/4 | 6 1/2 | 6 1/2 |
| Weight Dozen, Lbs. | 17 | 19 1/2 | 22 1/2 |
| Per Dozen | \$5.50 | 6.10 | 7.00 |

STAR.



With Coffee Flask, Pie Tray and Cup. IC Tin, Oblong Body, Spring Cover Fasteners, Coffee Flask in Cover, Steel Wire Bail, Enamelled Wood Grip.

| | | |
|-------------------------|---------------|---------------|
| Nos. | 193 | 194 |
| Quarts | 3 | 4 |
| Size, Inches | 8 3/4 x 5 1/4 | 8 3/4 x 7 1/2 |
| Height, Inches | 6 | 6 |
| Weight Dozen, Lbs. | 18 | 19 1/2 |
| Per Dozen | 5.20 | 6.00 |

IDEAL.



No. 803—3 Quart, Size 8 1/2 x 5 x 6 1/2 inches, Oblong Shape with Round Corners, Heavy Tin Pail and Pie Tray, Enamelled Steel Coffee Can, Tin Cup, Self-Locking Wire Bail, Enamelled Wood Grip.

| | |
|---------------------------|---------|
| Weight Dozen 25 Lbs. | \$10.00 |
|---------------------------|---------|

AURORA.



With Inset, Cup and Pie Tray. IX Tin Smooth Body, Seamless Tin Cover Over Outside, Self-Locking Steel Wire Bail, Enamelled Wood Grip.

| | | | |
|----------------------|-----------|-----------|---------------|
| Nos. | 374 | 375 | 376 |
| Quarts | 4 | 5 | 6 |
| Size, Inches | 9 x 5 1/4 | 9 x 5 3/4 | 9 1/2 x 6 1/4 |
| Height, Inches | 6 | 7 | 7 |
| Wt. Dozen, Lbs. | 25 1/2 | 27 | 30 |
| Per Dozen | \$10.00 | 11.00 | 12.50 |

AURORA.



With Inset and Pie Tray. IX Tin, Smooth Body, Seamless Tin Cover Over Outside, Self-Locking Steel Wire Bail, Black Enamelled Wood Grip.

| | | | |
|----------------------|-----------|-----------|---------------|
| Nos. | 274 | 275 | 276 |
| Quarts | 4 | 5 | 6 |
| Size, Inches | 9 x 5 1/4 | 9 x 5 3/4 | 9 1/2 x 6 1/4 |
| Height, Inches | 6 | 7 | 7 |
| Wt. Dozen, Lbs. | 25 | 26 | 29 |
| Per Dozen | \$10.25 | 10.50 | 14.50 |

MINERS' ROUND.



IC Tin, with One Inside Case, without Cup, Self-Locking Bail to Hold Case and Cover Securely.

| Wire Bail. | | | Enamelled Grip. | | |
|-----------------------------|--------|-------|-----------------------------|--------|--------|
| Nos. | 44 | 45 | Nos. | 31 | 41 |
| Quarts | 4 | 5 | Quarts | 3 | 4 |
| Diameter, Inches | 6 3/4 | 7 | Diameter, Inches | 6 | 6 1/2 |
| Height, Inches | 7 3/4 | 8 3/4 | Height, Inches | 8 | 8 1/2 |
| Weight Per Dozen, Lbs. | 25 | 27 | Weight Per Dozen, Lbs. | 13 1/2 | 14 3/4 |
| Per Dozen | \$5.50 | 6.00 | Per Dozen | \$4.50 | 5.50 |

All Above, One Dozen in a Box.
All Tinware is Arranged Alphabetically.

Wedgeaway

POWDER.
BLACK SPORTING.



For Shot Guns, Rifles and Revolvers, FFG is Usually Used for Shot Guns and FFFG for Rifles. Kegs, Half-kegs and Quarter-Kegs are Put up in Metal Canisters. Pounds are Put up in Round Paper Canisters. This is a Convenient and Saleable Package. 25 One Lb. Packages in a Case, Balance Shipped Loose.



| | | |
|--------------------------------------|------|--------|
| Kegs—Containing 25 Lbs. | Each | \$7.50 |
| Half-kegs—Containing 12½ Lbs. | | 3.75 |
| Quarter-kegs—Containing 6¼ Lbs. | | 2.00 |
| Pounds—Containing 1 Lb. | | .40 |

SMOKELESS.



Smokeless Powder is lighter in weight than black and is sold by bulk rather than weight. A 25 Lb. Can actually weighs only about 12 Lbs. but contains the same amount in bulk as the can of black. Dupont, Dead Shot, E. C. and Schultze can be loaded with an ordinary powder measure but the dense powders, Ballistite, Infallible and Walsrode must be loaded by weight. Do no experiment with dense powders as they contain high explosives and an overload will frequently burst the best gun barrel.

| | | |
|--|------|---------|
| Kegs—Dupont Shot Gun Smokeless, Equal to 25 Lbs. Black | Each | \$25.00 |
| Half-kegs—Dupont Shot Gun Smokeless, Equal to 12½ Lbs. Black | | 12.50 |
| Quarter-kegs—Dupont Shot Gun Smokeless, Equal to 6¼ Lbs. Black | | 6.50 |
| Canisters—Dupont Shot Gun Smokeless, Equal to 1 Lb. Black | | 1.00 |
| Canisters—Dead Shot Shot Gun Smokeless, Equal to 1 Lb. Black | | 1.00 |
| Canisters—Ballistite Shot Gun Smokeless, Equal to 1 Lb. Black | | 1.00 |
| Canisters—Infallible Shot Gun Smokeless, Equal to 1 Lb. Black | | 1.00 |

Above are Suitable for Shot Guns Only.

| | | |
|---|------|--------|
| Canisters—30 Caliber Dupont Rifle Smokeless Equal to 1 Lb. Black, for Sporting and Military High Power Cartridges | Each | \$2.50 |
|---|------|--------|

BLASTING.



Our Stock is Regularly F.F., which is generally used. Write for prices on other grains for special work.

| | | |
|--|---------|--------|
| Blasting Powder—25 Lb. Kegs Only | Per Keg | \$5.00 |
|--|---------|--------|

Notice—Powder of Any Kind Cannot be Shipped with Hardware. See "Information on Explosives" on Next Page Before Ordering.

MORLEY BROTHERS

1743



DUPONT DYNAMITE.

| | | |
|-------------------------------|--------------|---------|
| 40% Hercules, Nitro Glycerine | Per 100 Lbs. | \$29.00 |
| 50% Hercules, Nitro Glycerine | | 21.50 |
| 60% Hercules, Nitro Glycerine | | 23.98 |
| Red Cross Extra (40%) | | 17.50 |
| Red Cross Triple Extra (60%) | | 19.50 |

Case 1 Contains 50 Lbs., Packed Loose. Case 2 Contains 50 Lbs. in 10 Lb. Cartons.
Case 3 Contains 25 Lbs., Packed Loose.

Specify Case Wanted when Ordering. We carry only 1 1/4 x 5 inch sticks which weigh about 1/2 lb. each. Other sizes can be furnished from nearby Magazines. We can ship from Saginaw, Monroe, Marquette, Grand Rapids and Barkadaite in Michigan, as Magazines are maintained at these points.
Red Cross is a "Low Freezing Dynamite" which is rapidly superseding other grades. It does not freeze readily, is equally effective with Nitro-Glycerine, and is also somewhat cheaper. Write us for Special Explosive Booklets describing grades to use for various purposes.

EXPLOSIVE MATERIALS. DYNAMITE CAPS.

All Explosive Manufacturers Agree that Strong Caps are Essential if the Full Strength of the Dynamite is to be Developed. We therefore recommend No. 6 for the best results, while weaker than No. 5 should never be used. See "Information on Explosives" before ordering Caps.

| | | |
|----------------------------------|----------|--------|
| No. 4 Caps (Formerly Gold Medal) | Per 1000 | \$3.00 |
| No. 5 Caps (Formerly Quintuple) | | 5.75 |
| No. 6 Caps (Now Red Label) | | 9.50 |

100 in a Metal Box; No Less Sold. 500 or 1000 in a Case.
Weight Per 1000 3 3/4 Lbs.



ELECTRIC EXPLODERS, (FUZES).

| | | | |
|--|------------|---------|--------|
| 4 foot, Double Strength, Weight Per 100 | 3 1/2 Lbs. | Per 100 | \$4.00 |
| 5 foot, Double Strength, Weight Per 100 | 5 1/4 Lbs. | | 4.50 |
| 8 foot, Double Strength, Weight Per 100 | 6 3/4 Lbs. | | 5.00 |
| 10 foot, Double Strength, Weight Per 100 | 8 Lbs. | | 5.50 |
| 12 foot, Double Strength, Weight Per 100 | 9 3/4 Lbs. | | 6.00 |

We carry only Double Strength, as Weaker Grades do not give satisfactory service. All Exploders are Packed 50 in a Carton (No Less Sold) and 500 in a Case.



Copper Wire Exploders.

LEADING WIRE.

| | | |
|---|----------|--------|
| 14 Gauge (B. & S.)—Put up 200 feet in a Coil, No Less Sold, for Use from Blasting Machine to First Exploder | Per Coil | \$2.50 |
|---|----------|--------|



Leading Wire.

ELECTRIC BLASTING MACHINES.

For Use with Electric Exploders.

| | | |
|---|------|---------|
| No. 2—Reliable, Capacity 10 Holes, 2 Posts, Weight Each 25 Lbs. | Each | \$12.00 |
| No. 3—Reliable, Capacity 30 Holes, 2 Posts, Weight Each 30 Lbs. | | 18.00 |
| No. 4—Reliable, Capacity 50 Holes, 3 Posts, Weight Each 50 Lbs. | | 35.00 |



CONNECTING WIRE.

| | | |
|--|---------|--------|
| 20 Gauge (R. & S.)—Put up on 1 Lb. Spools, for Connecting Exploders where a Number are to be Used at One Blast | Per Lb. | \$0.50 |
|--|---------|--------|

INFORMATION ON EXPLOSIVES. READ CAREFULLY BEFORE ORDERING.

The Minimum Freight Charges on Explosives is \$1.00 and Railroads are Allowed to Make this Charge on Any Shipment, no Matter How Small. This is regardless of whether or not Explosives are Shipped with Other Goods. There is a severe penalty attached to Packing Caps, Exploders or Powder in boxes with other goods and this cannot be done. Caps and Exploders must be packed alone and boxes specially marked.

If you order Caps or Exploders with Hardware the Freight on the Explosives Alone will be \$1.00. Therefore the most economical way is to order your Caps and Exploders with your Dynamite or Powder. Do not order one Keg of Powder or One Hundred Caps with Hardware, but make it a point to order your Explosives in one lot, combining Powder, Dynamite, Caps and Exploders. Loaded Shells, Cartridges and Fuse are not classed as explosives and can be packed with hardware. Dynamite, Powder, Dynamite Caps and Dynamite Exploders cannot be sent by Express or Mail, or on Boats engaged in Public Service.

Dynamite is brought in from our magazine each day and with very few exceptions is delivered to depots shortly after noon of the day the order is received. Points near Saginaw will find our shipments delivered much quicker than from other magazines.

Dynamite is "delivered" in 200 lb. lots and less should not be ordered as freight is high on this commodity. Write us for special prices in ton lots.

Wedgehead

BLASTING FUSE.

- Single Tape Fuse—For Use in Damp Work..... \$6.50
 Double Tape Fuse—For Use in Wet Work, Suitable for
 Stamp Blasting, Etc..... 7.00
 Heaver Brand—For Use in Wet Ground, a Double
 Wound and Yellow Finished Fuse Combining the
 Waterproof Qualities of Single Tape with a Neat-
 er and More Attractive Appearance..... 8.00
 Stag Brand Gutta Percha—For Use in Very Wet Ground
 and Under Water, the Gutta Percha is Protected
 by a Coat of Tape and White Countering Intend-
 ed to protect Oxidation and the Cracking of the
 Gutta Percha, Also Giving Strength to Resist
 Hard Tamping..... 10.00

In Cases of 1,000 or 6,000 Feet.
 Average Weight Per 1,000 Feet 22 Lbs.



Blasting Fuse.

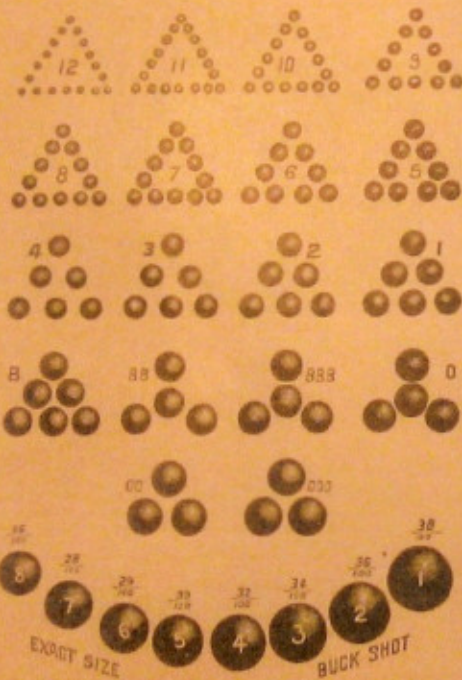
CAP CRIMPERS AND FUSE CUTTERS.



- No. 55—Round End Handle for Punching Cap Hole in
 Dynamite, End Cutter for Crimping Cap on
 Fuse, Side Cutter for Cutting Fuse, Avoids the
 Dangerous Method of Crimping Caps with the
 Teeth, Nickel Plated, 5 3/4 Inches Long, Weight
 Per Dozen 3 Lbs..... \$5.00

SHOT.

SHOT TABLE.



| Nos. | Inch | Number to Oz. | Nos. | Inch | Number to Oz. |
|-------|------|---------------|-----------|------|---------------|
| 12 | .05 | 2328 | B | .17 | 59 |
| 11 | .06 | 1346 | Air Rifle | .175 | 55 |
| 10 | .07 | 848 | BBB | .19 | 42 |
| 9 | .08 | 568 | 0 | .20 | 36 |
| 8 | .09 | 399 | 00 | .21 | 31 |
| 7 1/2 | .095 | 338 | 000 | .22 | 27 |
| 7 | .10 | 291 | 8 Buck | .26 | 16 |
| 6 | .11 | 218 | 7 Buck | .28 | 14 1/2 |
| 5 | .12 | 168 | 6 Buck | .29 | 13 |
| 4 | .13 | 132 | 5 Buck | .30 | 11 |
| 3 | .14 | 106 | 4 Buck | .32 | 9 |
| 2 | .15 | 86 | 3 Buck | .34 | 7 1/2 |
| 1 | .16 | 71 | 2 Buck | .36 | 6 1/2 |
| | | | 1 Buck | .38 | 5 1/2 |

We Carry the Following in Stock:

- 25 Lb. Sacks No. 12 Drop to Air Rifle.
 - 25 Lb. Sacks No. 8 Buck to 3 Buck.
 - 25 Lb. Sacks 3 Chilled to 8 Chilled.
 - 5 Lb. Sacks Air Rifle, 0, 00, 000 and 10 Chilled.
- We Carry Air Rifle instead of BB, as it is more satisfactory for use in Air Rifles. Four 25 Lb. Sacks in Burlap Bag.
- | Item | Each |
|--|--------|
| 25 Lb. Sacks Drop Shot | \$3.00 |
| 25 Lb. Sacks Chilled Shot | 3.40 |
| 25 Lb. Sacks B and Larger | 3.40 |
| 5 Lb. Sacks Chilled, Air Rifle, 0, 00 or 000 | .85 |

AIR RIFLE SHOT IN PAPERS.

This method eliminates waste in weighing, also the "down weight" usually given when weighing shot. No paper or string necessary.

Put up 25 One Lb. Packages in a Wood Case. Weight Per Case 30 Lbs.

Air Rifle Shot in 1 Lb. Papers..... \$6.00



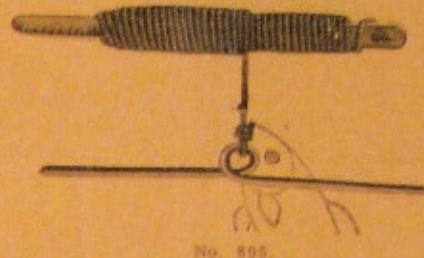
MORLEY BROTHERS

1871

FISH STRINGERS.

Wedgewood

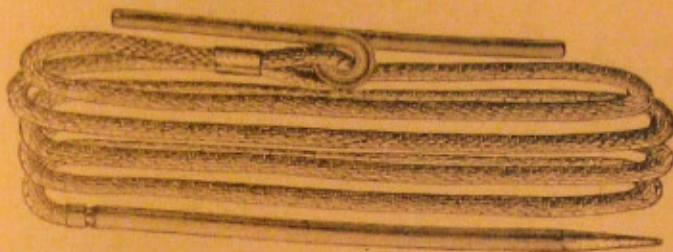
No. 805—20 inch Braided Cotton Line, Steel Needle and Disgorger
and Wire Cross Bar. Weight Per Dozen $\frac{1}{2}$ Lb. \$9.50
One on a Card; One Dozen in a Box.



No. 805.

Per Dozen

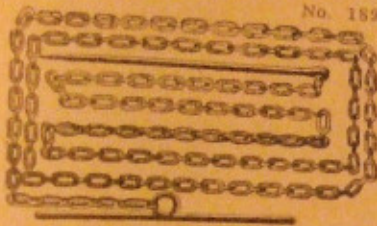
No. 1890—6 foot Heavy Braided Cord, Securely Fastened to a Heavy Pointed Brass Needle. Brass Cross Bar. A Serviceable Stringer. Weight Per Dozen 1 Lb. \$5.00
One Dozen in a Box.



No. 1890.

Per Dozen

No. 1384—4 foot Nickel Plated Brass Chain, Needle and Cross Bar, Weight Per Dozen $1\frac{1}{2}$ Lbs. \$2.00
One Dozen in a Box.



No. 1384.

BRILLIANT ACETYLENE LAMPS. HEAVY BRASS, BLACK ENAMELED.

ACME.

EXTRA HEAVY BRASS. POLISHED.



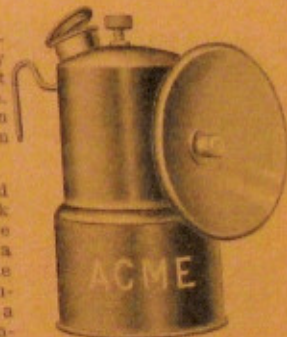
For Hunting, Camping, Boating or Driving. Works equally well when used as a camp light or carried from place to place. Throws a strong light over an average range. Can be hung on any convenient twig.

For Hunting, Fishing, Boating, Cycling, Driving, Mining, Watching, Millwrights, etc. Also invaluable about the Home, Camp, Stable, Garage, etc.

Throws a strong, bright, centered light, is not affected by wind, rain, heat or cold. Base and burner may be removed making an excellent table lamp and also giving access for cleaning. The lamp may be carried on the head and the generator in the pocket, thus giving free use of both hands. A rubber tube, with spiral wire inserted to prevent kinking, forms the connection. Has hinged joint so that when carried with the head in a natural position the light may be thrown at any angle. One filling, $4\frac{1}{2}$ oz. of Carbide, will burn 8 hours. Each

No. 18—Single Lens, Desirable Where a Large Spread of Light is Wanted. \$8.00
No. 28—Double Lens, has Extra Bulls-Eye for Concentrating the Light. 9.00
Weight Each $\frac{1}{2}$ Lbs.
One in a Wood Box.

The valve does not extend down into the carbide and block the water supply. The valve stem is extra large. Has a Ground seat and shuts off the water absolutely. Can be regulated to any amount, giving a steady light of the desired quantity of the best quality. Each Lamp Tested and Warranted Perfect. An Extra Fount is Furnished with Each Lamp.



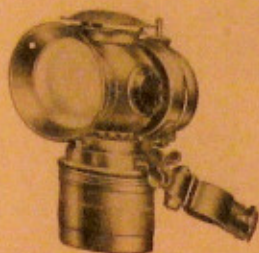
Per Dozen

No. 508—With Flat Hook, Weight Per Dozen $19\frac{1}{2}$ Lbs. \$20.00

One Dozen in a Box.

BICYCLE GAS LAMPS

SOLAR



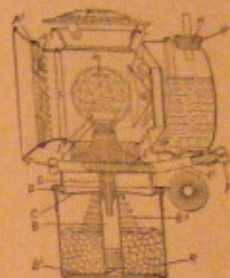
Made of Special Heavy Gauge Brass, Nickel Plated, and Polished, 7 inches High, Straight Carbide Pot, with False Bottom, 2 1/2 inch Double Convex Lens, with Snap Line Catch. Red and Green, Jewel Side Lights, Lava Tip, Capacity 3 Oz. Carbide and 1/4 pint of water. Uses Lump Carbide.

No. 111—Each \$ 4.50
Per Dozen 51.30

Weight Each 2 Lbs.

Price List of Parts of Solar Lamps.

| | | | |
|--------|------------------------------|----|----|
| No. B | —Screen Tube | 30 | 22 |
| No. B1 | —Screen Tube Plate | 22 | |
| No. B2 | —Carbide Spring | 22 | |
| No. D | —Rubber Washer | 12 | |
| No. C | —Washer Plate | 12 | |
| No. C1 | —Washer Plate Nut | 12 | |
| No. E | —Fibre Wick | 12 | |
| No. F | —Wick Tube Cap | 22 | |
| No. F1 | —Wick Tube | 22 | |
| No. G | —Water Valve | 84 | |
| No. G1 | —Water Valve, Washer and Nut | 12 | |
| No. H | —Filler Cap | 22 | |
| No. H1 | —Filler Cap Washer | 04 | |
| No. I | —Tip Holder | 22 | |
| No. J | —Tip | 22 | |
| No. K | —Ratchet Screw | 22 | |
| No. L | —Reflector | 22 | |
| No. M | —Jewel, Red or Green | 22 | |
| No. M1 | —Lens Doors | 42 | |
| No. M2 | —Lens | 42 | |
| No. N | —Bracket Complete | 1 | 40 |
| No. O | —Bracket Side R. H. | 22 | |
| No. O1 | —Bracket Side L. H. | 22 | |
| No. P | —Clamp Thumb Screw | 22 | |
| No. Q | —Clamp Thumb Screw Nut | 12 | |
| No. R | —Carbide Tank | 1 | 06 |
| No. S | —Ratchet Screw Thumb Nut | 12 | |
| No. T | —Pivot Bolt | 22 | |
| No. U | —Pivot Bolt Nut | 12 | |
| No. V | —Ratchet Arm | 22 | |
| No. W | —Bracket Lining | 12 | |



Note Above Cut Carefully in Ordering Solar Parts.

Always Order Parts by Number. All Weigh Less than 1 Lb., so can Easily be Sent by Mail.

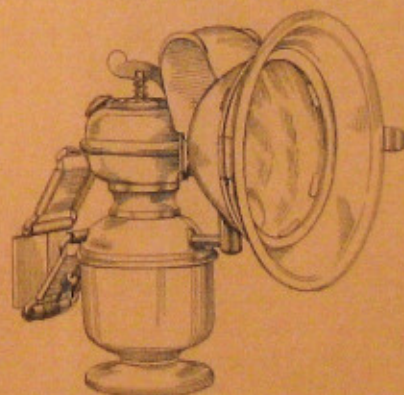
SEARCH LIGHT



Made of Heavy Sheet Brass, Polished, Nickel Plated. Height 8 inches, 2 1/2 inch Convex Lens. Red and Green Side Jewels, Straight Carbide Pot, Lava Tip, has Carbide and Water Capacity Sufficient to burn Six Hours.

No. 222 Each \$3.50
Weight Each 2 Lbs.

STEVENS

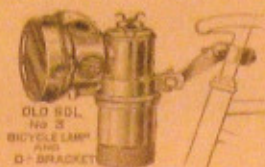


No. 8—Stevens. Made of Nickel Plated Brass, Aluminum and Steel, 6 1/2 inches High, 3 inch Single Convex Lens, Hinged Lens Door, Burns Four Hours. Complete with Stevens Head Bracket. Weight Each 1 1/2 Lbs. Each \$3.00

All Above, One in a Box with Bracket.
36 in a Case.

Wedgeaway

BICYCLE GAS LAMPS



A Large, Handsome Bicycle Lamp suitable for the Rider who wishes a Bicycle Lamp of High Candle Power. Height Over All 7 inches, Diameter of Door 1 inches, Carbide Capacity 6 ounces, Diameter of Reflector 3 inches, Lighting Efficiency About 100 Candle Power. Complete with "O" Bracket as illustrated.

No. 3—Old Sol. Each \$3.00
Weight Each 2 Lbs.
One in a Box.

Is of Novel Design and Embodies the Same Features as No. 3, excepting the Carbide and Water Capacity is Less, and the Lamp is Smaller in Size. Remarkable for Beauty of Design, Penetration of Light, Strength and Construction. Total Height 6 1/4 inches, Carbide Capacity 5 Ozs., burns 6 to 7 Hours. Complete with Bracket "O" as illustrated.

No. 10—Old Sol. Each \$2.50
Weight Each 1 1/2 Lbs.
One in a Box.

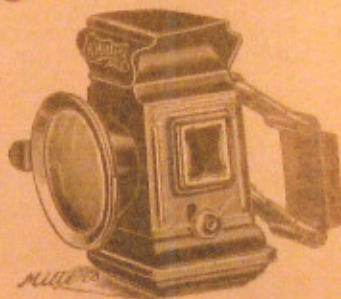
BICYCLE OIL LAMPS



Height 6 inches. Burning Capacity 10 Hours. Lens, 2 1/2 inch Plano-Convex, Hinged. Spring Back, Adjustable Clamp Side Lights, Green and Ruby Jewels. Illuminant, Kerosene Oil Only. Full Bright Nickel Finish.

A Popular Lamp at an Easy Price. Positively Will not Jolt or Jar Out.

No. 28—Light Weight Oil Lamp Each \$1.50
Weight Each 14 Ozs.
One in a Box.



"A Marvel in Finish and Value." This is an Apt Description oft applied to This, Our Lowest Priced Oil Lamp. It is supplied in Black Finish Only. Height, 4 1/2 inches. 2 1/2 inch Dome Lens. Detachable Plated Reflector. 3/4 inch Burner. Four Hours' Oil Capacity.

No. 58—Cyclist Oil Lamp Each \$1.00
Weight Each 9 Ozs.
One in a Box.

SOLAR MOTORCYCLE TAIL LAMPS

Both These Tail Lamps are the Same Size, being 3 inches in Height and 3 inches in Depth. Have Removable 2 1/2 inch Rear Ruby Semaphore, 1 1/2 inch White Lens in Back to show License Number and Adjustable Bracket to fasten on Rear Wheel Mud Guard.

FOR GAS

Model 102G is a Gas Tail Lamp with a Hinged Ventilating Hood for Lighting and Valve in Gas Tube for Regulating. Is fitted with 1/2 foot Fish Tail Flame Tip, Gas to be supplied from Generator or Tank.

No. 102G—Nickel with Bracket Each \$1.50
Weight Each 1 Lb.



FOR ELECTRIC

Model 102E is an Electric Tail Lamp regularly fitted with Type G6, 1 c. p. 2 volt Ediswan Mazda Bulb, unless Other Candle Power and Voltage Bulb is specified. Double Wiring is connected Directly to Socket Connector. Current to be supplied by Battery or Generator.



No. 102E—Nickel with Bracket Each \$2.00
Weight Each 1 Lb.

MORLEY BROTHERS

1991

ACETYLENE LAMP BURNERS

Wedgewood



No. 17AL

For Automobile and House Lighting System. Made of Very Hard Composition, Not Affected by Heat and Will Not Carbonize. Proper Size for All Acetylene Lamps. Nickel Plated Metal Shank with Inside Screen. Threaded End. Size Over All $1\frac{3}{4}$ inches.

No. 17AL—Alco De Luxe. $\frac{3}{4}$ and $\frac{1}{2}$ Foot \$3.50



No. 19

No. 19—Ambo. $\frac{3}{4}$ and $\frac{1}{2}$ Foot, \$2.00
One Dozen in a Box.



No. 12

No. 12—Alco. $\frac{3}{4}$ and $\frac{1}{2}$ Foot.... \$2.00



For Motorcycle, Nickel Plated Shank with Inside Screen. Threaded End. Fits All Lamps.

No. 12HM— $\frac{3}{4}$ and $\frac{1}{2}$ Foot..... \$3.50
One Dozen in a Box.



Lava Tips that are Not Affected by Heat and Will Not Carbonize. For Use in Bicycle Lamps.

No. 99AB—Fits Nearly All Bicycle Lamps..... \$0.70
Three Dozen in a Box.

$\frac{1}{4}$, $\frac{3}{4}$ and $\frac{1}{2}$ foot indicate the Number of Cubic Feet of Gas consumed Per Hour. The $\frac{3}{4}$ foot is most commonly used

CARBIDE UNION BRAND

We carry only the Genuine Union Carbide as we have found Other Brands Less Satisfactory and No Cheaper when Gas Capacity is considered.



No. 2— $\frac{1}{2}$ inch in 2 Lb. Round Friction Top Cans..... \$0.34



No. 2C—As Above, 24 Cans in a Case \$7.20
Weight of Case 65 Lbs.
For Bicycle and Motorcycle Lamps.

No. 10 $\frac{1}{2}$ — $\frac{1}{2}$ inch in 10 Lb. Square Friction Top Cans..... \$1.40
No. 10—As Above, 1 inch..... 1.40
No. 10 $\frac{1}{2}$ C—Per Case of 6 Cans... \$7.80
No. 10C —Per Case of 6 Cans... 7.80



The Following Sizes are Packed in Steel Drums Containing 100 Lbs. Each: Lamp, $3\frac{1}{2} \times 2$ inches; Egg, $2 \times \frac{1}{2}$ inches; Nut, $1\frac{1}{4} \times \frac{3}{8}$ inches; Quarter, $\frac{1}{2} \times \frac{1}{12}$ inch; Automobile, About 1 inch; Miners Lamp, About $\frac{1}{4}$ to $\frac{1}{2}$ inch.

No. 100—Union in 100 Lb. Metal Drums, for Automobile Lamps and Lighting Systems \$8.00
No. 100M—Union Miners' 8.50

CAMEO

Cameo is placed on the Market to meet a Demand for a Cheaper Carbide than Union Carbide.
Cameo Carbide will yield as Much Gas as Any Carbide on the Market, Other than Union Carbide.

100 Lb. Drums. Each

No. 100C—Cameo \$7.00
No. 100CM—Cameo Miners' 8.00

In Ordering 100 Lb. Drums Specify Size of Carbide Wanted