

CATALOG No. 52

The Mine and Smelter Supply Company

GENERAL SUPPLIES

FOR

**Mines, Mills, Smelters
Industrial Plants
Machine Shop**



MASSCO SERVICE

**Denver, Colorado
Salt Lake City, Utah
El Paso, Texas**

General Offices, New York City

Cable Address for General Offices and U. S. A. Branches, "Minterply"

INTRODUCTORY

In the preparation of this book we have steadfastly kept in view as our objective the production of a practical aid to the buyers of the products listed therein, to the end that necessary information relating to these products might be readily obtained. It being obviously impossible to include within the limited scope of a single book all of the items required and which we are able to supply, we solicit your inquiries for items not shown herein, and assure that our large and experienced organization will serve you well. We take this opportunity to thank our customers for past favors, and we hope this book will make new friends for us among the many buyers of supplies.

THE MINE AND SMELTER SUPPLY CO.

Date, December 1, 1919.

DYNAMITE, BLASTING ACCESSORIES, ETC.

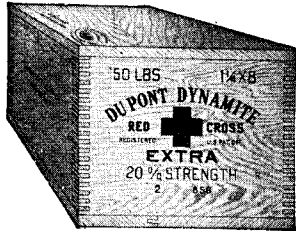


Fig. 14627A

DU PONT GELATIN

Du Pont Gelatin put up in 50-pound cases, all standard size cartridges. This is the most popular high explosive for all classes of mining. It is dense, plastic and waterproof. It gives off less objectionable fumes than any other high explosive and is low freezing. It is made in all strengths from 30 to 75 per cent. The strongest grades are used for tunneling in the hardest rock, and the 30 and 35 per cent for most metal mining operations.

DU PONT RED CROSS EXTRA DYNAMITE

This explosive is made in all strengths from 20 to 60 per cent strength, packed 50 pounds to the case in all standard size cartridges. It is the most popular explosive for quarry and for mining soft ore. Its fumes are not objectionable and it is low freezing. It is not, however, as suitable for wet work as Du Pont Gelatin.

We can furnish any of the standard brands of dynamite.

NOTE—Express companies will not receive explosives of any kind; therefore all explosives must be shipped by freight.

Prices quoted on application.

BLASTING CAPS

SAFETY FUSE

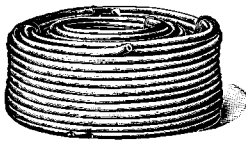


Fig. 14627B

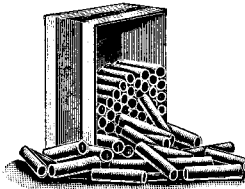


Fig. 14627C

ELECTRIC BLASTING CAP

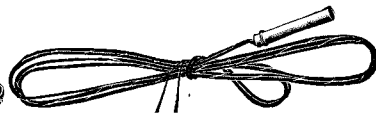


Fig. 14627D

SAFETY FUSE

Price, Cotton Fuse.....per thousand feet
 " Crescent Fuse....." "
 50 feet in a coil, 6000 feet in a barrel.
 Prices quoted on application.

DETONATING CAPS

Price, No. 6 Caps.....per thousand
 100 in a tin box, 10 boxes to a carton. Detonating caps cannot be packed and shipped with dynamite. Prices quoted on application.

ELECTRICAL BLASTING CAPS, DOUBLE INSULATION

Length of Wire.....feet	4	6	8	10	12	14	16
Price, No. 6.....per hundred	.....	.....	.....	.....	.....	.....	.....
" " 8....."	.....	.....	.....	.....	.....	.....	.....
Length of Wire.....feet	18	20	22	24	26	28	30
Price No. 6.....per hundred	.....	.....	.....	.....	.....	.....	.....
" " 8....."	.....	.....	.....	.....	.....	.....	.....

Prices quoted on application.

VICTOR



Packed 25 to the case. 30 feet.



Packed 10 to the case. No. 6 can be full strength.



Clover is prepared to Double Tap for wet work. 100 feet.

ATLAS BLASTING SUPPLIES

VICTOR ELECTRIC FUZES
Nos. 6 AND 8

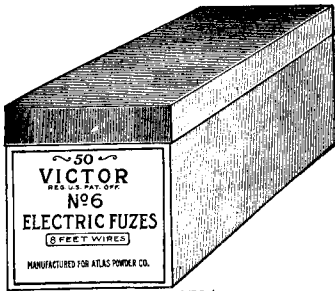


Fig. 23072A

Packed 25 and 50 in a carton, 10 cartons to the case. Insulated copper wires 4 to 30 feet.

BLASTING CAPS
Nos. 6 AND 8

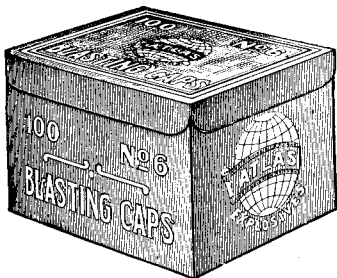


Fig. 23072B

Packed 100 to the tin box, 5 to 50 boxes to the case. No blasting cap weaker than No. 6 can be depended on to develop the full strength of high explosives.

CLOVER FUSE

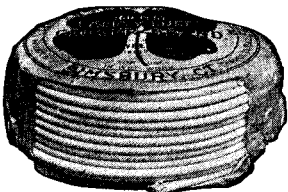


Fig. 23072C

Clover is for wet work. We are also prepared to furnish Beaver for dry work, Double Tape for wet work and Anchor for wet work. All wrapped in rolls of 100 feet. Ten to sixty rolls to the case.

Prices upon application.

BLASTING MACHINES

U. S. STANDARD MACHINES

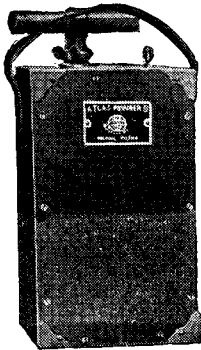


Fig. 23072D

This is of the push-down type, substantially built, and can be depended upon to develop full capacity, if kept dry and operated with full force.

No. 2, capacity 10 copper wire electric fuzes.

No. 3, capacity 30 copper wire electric fuzes.

LITTLE GIANT MACHINES

For use where not more than 4 charges are required to be fired at one time. A strong machine, brass case, with removable handle. Capacity 4 copper wire fuzes.



Fig. 23072E

ATLAS CAP CRIMPERS



Fig. 23072F

Safe, secure and reliable way to attach a blasting cap to fuse is by use of this tool.

LEADING WIRE



Fig. 23072G

For connecting electric fuzes to blasting machine. No. 14 insulated wire in 200, 250, 300 and 350-foot coils. About 50 feet to the pound.

DUPLEX WIRE

Two No. 14 insulated wires bound together with an outside covering. Same length coils as single leading wire, about 25 feet to the pound.

HARDSOGE. Z. Q. POST DRILLS

POST DRILL

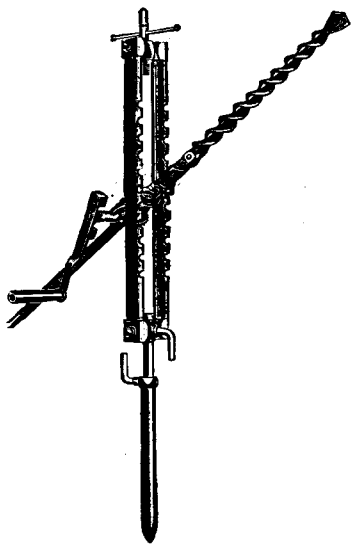


Fig. 22785A

PARTS

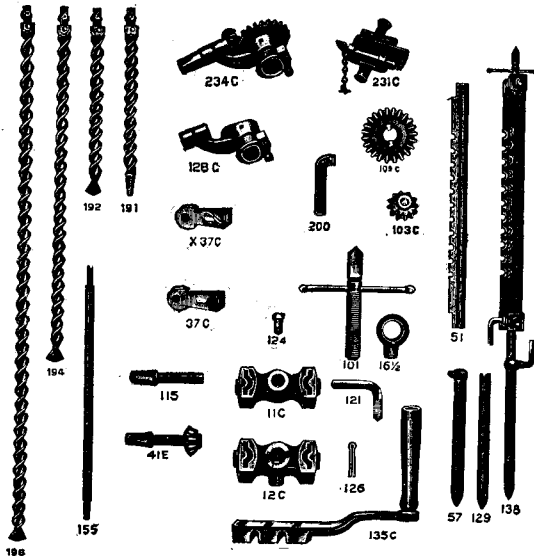


Fig. 22785B

Combines all the good features of the old Q machine with several important improvements, making it far ahead of other drills for hard service. Large gear wheel has double key and well formed teeth. The positive locking device prevents lost motion, and from the fact that the boxing fits inside the gear frame, it is impossible for it to spread. All parts machined and properly fitted together, insuring long wear. When the boxing wears out you have only a boxing to buy, not a complete gear frame as with other machines. Thread bar is reversible and if turned frequently both bar and boxing will wear longer. Furnished in 6 square and 8, 10, 12 and 14 Whitworth thread.

Unless otherwise specified, we always furnish this machine with Premier patented augers, and with thread bar and boxing having 8 threads to the inch.

PRICE LIST

E. Z. Q. Post Drill Complete	each	20.00	No. 124, Set Screw for Post Castings	each	.15
No. 110, Post Casting for Jack Screw	"	1.25	" 126, Spring Cotter	per dozen	.25
" 120, " " Boot	"	1.25	" 128C, Gear Frame	each	2.00
" 16 1/2, Ring for Boot	"	.30	" 129, Stem for Post, 1 1/4-in.	"	1.00
" 37C, Socket for Auger, Plain	"	.40	" 135C, Crank	"	1.10
" X37C, " " Spiral	"	.40	*" 138, Post Complete, 3-ft. and Under	"	7.00
" 41E, Journal and Small Wheel	"	1.25	" 155, Thread Bar	"	3.25
" 51, Corrugated Side Bar for Post	per foot	.45	" 191, 2-ft. Extension Auger	"	1.25
" 57, Boot, 1 1/4-inch	each	1.10	" 192, 2 " Premier	"	1.25
" 101, Jack Screw for Post	"	.85	" 194, 4 " " " "	"	2.50
" 103C, Small Gear Wheel	"	.60	" 196, 6 " " " "	"	3.75
" 109C, Large " " "	"	.80	" 200, Key for Boxing with Chain	"	.25
" 115, Journal only	"	.75	" 231C, Boxing	"	1.25
" 121, Tail Set Screw for No. 120	"	.25	" 234C, Side Gear	"	3.50

*Over 3-foot, add .35 for each 1/2 foot.

We can furnish these augers in 7 and 8-foot; also 2-inch regular feather edge, in all lengths.

HARDSOGE

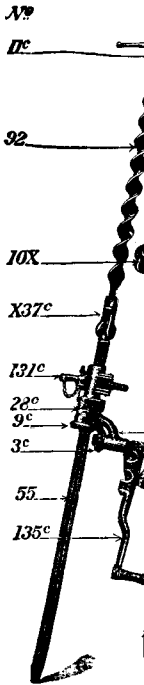


Fig. Q
Number
Price, End Ge
" " Ge
" Side Ge
" " Posts on

For mach
90 cents.

HARDSOEG HEAVY COAL DRILLING MACHINES

END GEAR AND SIDE GEAR

Q AND Q E Z

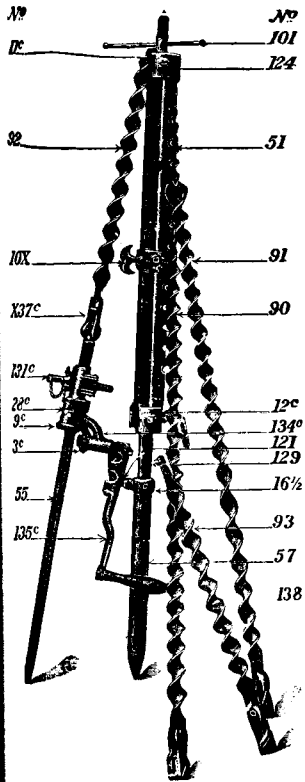


Fig. 25998A

Price, No. 54, Thread Bar for End Gear, not Slotted.....each	2.25
“ “ 37B, Boxing for End Gear..... “	1.00
“ “ 92, 2-foot Auger, 1 1/2-inch F.E.... “	1.15
“ “ 91, 4 “ “ “ “ “ “ “ “	2.30
“ “ 90, 6 “ “ “ “ “ “ “ “	3.45
“ “ 90, 2 “ “ 1 3/4 “ “ “ “	1.30
“ “ 90, 4 “ “ “ “ “ “ “	2.60
“ “ 90, 6 “ “ “ “ “ “ “	3.90
“ “ 135C, Cranks..... “	.85
“ “ 11C, Casting for Jack Screw..... “	1.00
“ “ 12C “ “ Stem..... “	1.00
“ “ 101, Jack Screw..... “	.65
“ “ 129, Stem 2 Feet Long, 1 1/4-inch Diameter.....each	1.00
Price, No. 57, Boot 20-Inches Long..... “	1.00
“ “ 121, Tail Screw..... “	.20
“ “ 124, Set Screw..... “	.15
“ “ 16 1/2, Ring for Boot..... “	.20
“ “ 37C, Socket for Augers..... “	.50

Q SIDE GEAR PARTS

Price, No. 55, Thread Bar for Side Gear Slotted.....each	2.50
“ “ 131C, Boxing for Side Gear..... “	1.00
“ “ 134C, Gearing..... “	3.20
“ “ 28C, Frame (Babbitted)..... “	1.50
“ “ 9C, Large Cog (Machined)..... “	1.00
“ “ 3C, Small “..... “	.50
“ “ 115, Journal..... “	.50

Q E Z SIDE GEAR PARTS

Price, No. 155, Thread Bar (Slotted).....each	2.50
“ “ 234C, Gearing..... “	3.00
“ “ 231C, Boxing..... “	1.00

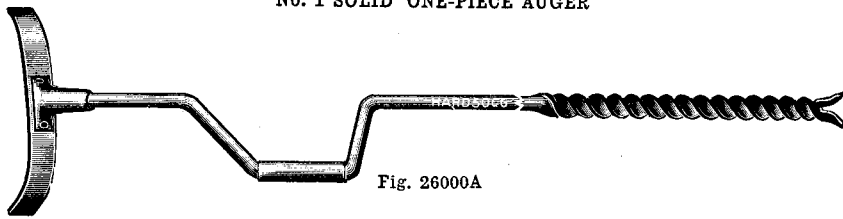
Q AND Q E Z MACHINES COMPLETE WITH 1 1/2-INCH FEATHER EDGE AUGERS

Number.....	1	2	3	3 1/2	4
Price, End Gear with 2, 4 and 6-foot Augers..each	14.60	14.00	13.50	13.25	13.00
“ “ “ 2, and 4-foot “ .. “	12.60	12.00	11.50	11.25	11.00
“ Side Gear “ 2, 4, and 6-foot “ .. “	16.60	16.00	15.50	15.25	15.00
“ “ “ 2 and 4foot “ .. “	14.60	14.00	13.50	13.25	13.00
“ Posts only..... “	8.00	7.20	6.40	6.00	5.60

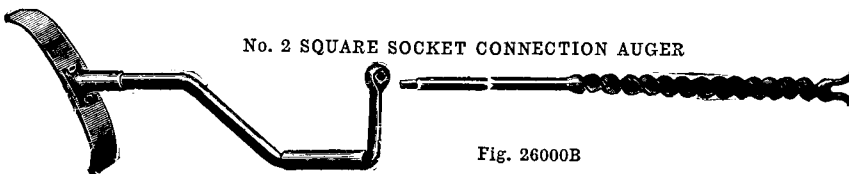
For machines with 1 3/8 or 1 3/4-inch augers, add to list with 2, 4 and 6 foot augers, 80 cents.

HARDSOCC BREAST AUGERS

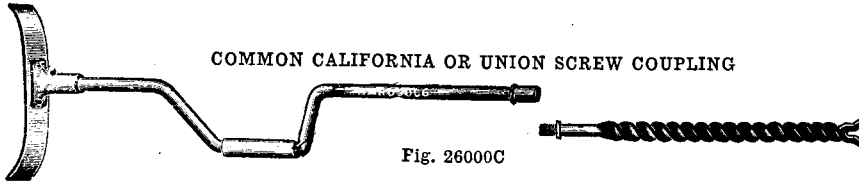
No. 1 SOLID ONE-PIECE AUGER



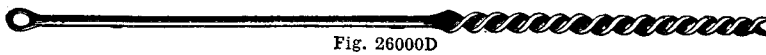
No. 2 SQUARE SOCKET CONNECTION AUGER



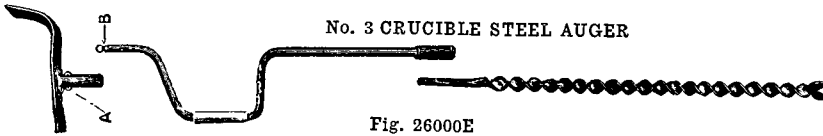
COMMON CALIFORNIA OR UNION SCREW COUPLING



WELDED EYE, ONE PIECE-DIRT AUGER, ALSO SCREW JOINT



No. 3 CRUCIBLE STEEL AUGER



The No. 3 crucible steel auger has the same patent breast plate and coupling as furnished on the No. 4.

GREAT No. 4 PATENT AUGER



Iron tamper
Length.....
Price.....

No drill.
copper on tamper
Length.....
Price.....

Made of
Length.....
Price.....

Length.....
Price.....

E
Length of Wire
Price, Standard
" Double

Length of Wire
Price, Standard
" Double

A high-grade
5-pound rolls,
can furnish di
Prices up

MINERS TOOLS, ETC.
DRILLS—SINGLE BIT



Fig. 22957A

Iron tamp, 8½ inches, best cast tool steel on bit end, 1-inch round rod, 2½-inch bit.

Length.....	feet	5	6	6½	7	7½	8	8½	9
Price.....	per dozen								

COPPER TIPPED TAMPING BARS



Fig. 22957B

No drill. To be used with double bit or machine drills. 1-inch round iron, 6 inches of copper on tamp end.

Length.....	feet	6	7	8	9
Price.....	per dozen				

SCRAPERS—DOUBLE END



Fig. 22957C

Made of ¾-inch round Norway iron.

Length.....	feet	5	6	7	8
Price.....	per dozen				

STEEL NEEDLES—POLISHED



Fig. 22957D

Length.....	feet	5	6	7	8
Price.....	per dozen				

ELECTRICAL FUSES—DOUBLE-WOUND INSULATION

Length of Wire.....	feet	4	6	8	10	12	14	16
Price, Standard Strength.....	per hundred							
" Double.....	" "							
Length of Wire.....	feet	18	20	22	24	26	28	30
Price, Standard Strength.....	per hundred							
" Double.....	" "							

E. S. CO. WATERPROOF BLASTING PAPER

A high-grade paper in every respect for shooting in coal mines. Stock width, 12 inches. 4-pound rolls, 5 rolls to a bundle. We can also furnish this in 1, 2, 3 and 4-pound rolls. We can furnish different widths.

Prices upon application.

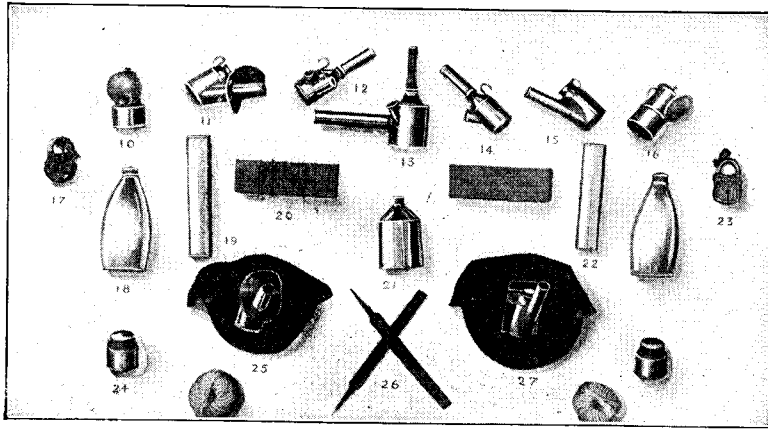
MINERS' SUPPLIES

Fig. 27162A

- No. 10—Acetylene Lamp.
 No. 11—Coffee-pot Lamp with Shade.
 No. 12—Surveyors' and Foreman's Lamp. Made of brass or copper with detachable side handle.
 No. 13—Surveyors', Mine Bosses' and Foreman's Lamp. Made of brass, copper or tin, with detachable side handle.
 No. 14—Surveyors' or Foreman's Lamp. Made of tin with detachable side handle.
 No. 15—Coffee-pot Lamp without Shade.
 No. 16—Acetylene Foreman's Lamp.
 No. 17—Miners' Padlock.
 No. 18—Oval Oil Bottle or Cadger.
 No. 19—New Style Squib Boxes.
 No. 20—Black Diamond Safety Squibs. Made in either gas or sulphur.
 No. 21—Small Carbide Carrier.
 No. 22—Common Squib Boxes.
 No. 23—Miners' Padlock.
 No. 24—Bottoms for Acetylene Lamps.
 No. 25—Miners' Caps with Leather Peaks or Visors.
 No. 26—8-inch and 12-inch Mill Files.
 No. 27—Miners' Caps with Patent Leather Peaks or Visors.
 No. 28—Owl Brand Miners' Cotton. We offer two grades of this cotton, the Owl Brand being the best, and the Star Brand being the next best.

Owing to the continual change in prices of these articles, we are not able to make any fixed price. However, we shall be glad to quote you our lowest prices upon application. We have enumerated the articles so that your inquiries may be answered quickly and intelligently.

P

PROS

Highly
in a paperNo. 311
312Highly
in a paperNo. 470
471

MIL

Size of
to point,
Size....
Price....
Prices

PROSPECTORS' HAMMERS, PICKS AND MINERS' SUPPLIES

**PROSPECTING HAMMERS
No. 311**

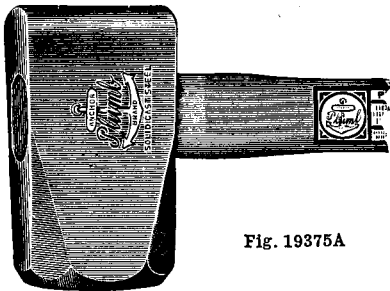


Fig. 19375A

Highly polished; packed one-third dozen in a paper box.

No.	Size	WEIGHT		Price per Doz.
		Pounds	Ounces	
311	1	1	6	.....
312	2	1	12	.....

PROSPECTING PICKS

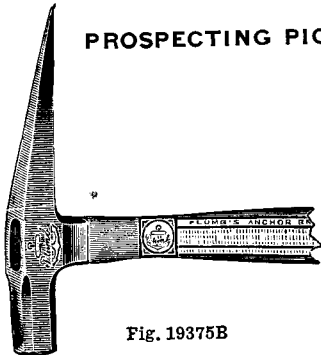


Fig. 19375B

Highly polished; packed one-half dozen in a paper box.

No.	Size	WEIGHT		Price per Doz.
		Pounds	Ounces	
470	1	1	..	.....
471	2	1	8	.....

MINERS' CANDLESTICKS



Fig. 19375C

Size of candlestick measures from hook to point; packed one dozen in a box.

Size.....inches	5	6½	7
Price.....per dozen	.....	.....	.....

Prices upon application.

**MINERS' GOLD WASHING PANS
No. E-1650**



Fig. 19375D

Made of copper in sizes as listed below.

Diameter.....inches	12	16
Depth....."	2	2½
Price.....each	.....	.....

No. E-1655



Fig. 19375E

Made of steel with copper bottom; 16 inches in diameter; 2½ inches deep.

Price.....each

MINERS' CANDLES



Fig. 19375F

GRANITE MINING CANDLES

Size	Ounces per Set	Sets, per Case
Sixes	16	20
"	16	40
"	14	20
"	14	40
Eights	14	40

EXTRA HARD GRANITE MINING CANDLES

Sixes	16	20
"	16	40
"	14	20
"	14	40
Eights	14	40

The above packed in layers.
Prices upon application.

JUSTRITE MINERS' LAMPS

No. 124

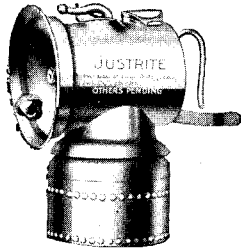


Fig. 26645A

No. 124 lamp is made of polished brass, with spiral feed and is a miner's cap lamp. Deep concave reflector is part of the lamp, cannot get loose or be broken off. Height of lamp, 4 inches; diameter of bottom, 2 inches; water tank, 1 3/4-inch diameter; 2 1/4 inches long; 16.7 candle power. Capacity, 2 ounces. 1/4-inch carbide.

Price.....each

X-RAY

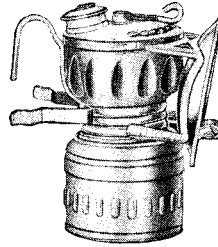


Fig. 26645C

Equipped with round hook, spring cap holder, and enclosed chamber water door. The water feed is regulated by a valve controlled by a lever fitting tightly over raised notches. The lever will not work loose and the valve cannot be opened or closed by bumping against the roof. The valve can be adjusted to permit the water to flow freely. The reflector is 2 5/8 inches in diameter. Sparker attached.

Price.....each

No. 85

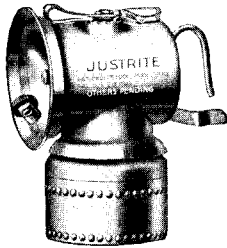


Fig. 26645B

Drawn from seamless brass. Attached parts are riveted and soldered inside. Equipped with lighter attachment. Height of lamp, 4 inches; diameter of bottom, 2 inches; water tank, 1 3/4 inches in diameter; 2 1/4 inches long. Weight, 5 ounces; 16.7 candle power. Capacity, 2 ounces. 1/4-inch carbide.

Price.....each

Nos. 101 AND 103

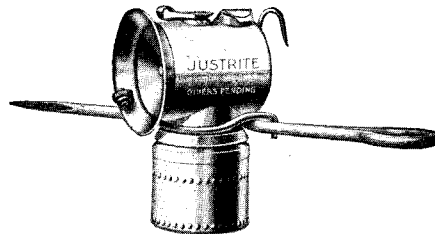


Fig. 26645D

For metal miners' half-shift lamp. Equipped with lever valve water feed, lighter attachment, adjustable candlestick and steel hook; height, 4 3/4 inches; diameter, bottom, 2 inches; weight, 5 1/2 ounces; diameter of reflector, 2 1/2 inches. Charge, 3 ounces. 1/4-inch carbide.

Price.....each

CA

Air-ti
hip poe
Price, N
"

Mac
strong
Price,

Pri
"
"

**JUSTRITE MINERS' LAMPS
ACCESSORIES AND REPAIR PARTS**

CARBIDE CONTAINERS

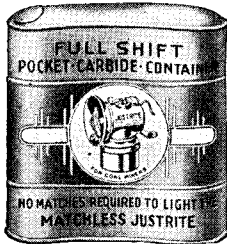


Fig. 26282A

Air-tight, concaved to fit the boot or hip pocket.

Price, No. 76, Capacity 7 oz.each .30
 " " 77, " 10 " " .30

CARBIDE FLASKS

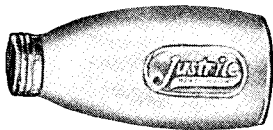


Fig. 26282B

Made of heavy tin, double seamed, strong, durable.

Price, Capacity 1 Pound.each .50

TIP REAMERS

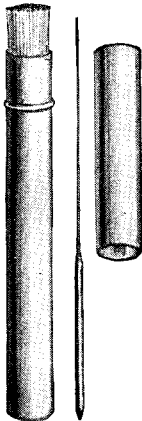


Fig. 26282C

Price, Reamers. each .10
 " Tubes. " .10
 " in Metal Tubes. per doz. 1.30

REPAIR OUTFITS

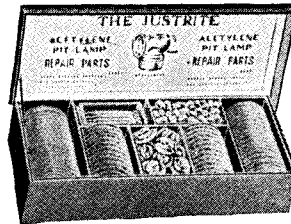


Fig. 26282D

Made in three sizes, Nos. 1, 2 and 3.

The No. 1 outfit contains: 6 doz. No. 60 gaskets; 6 doz. No. 62 felts; 1 doz. No. 64 felt holders; 3 doz. No. 66 lava tips; 3 doz. No. 28 metal tips; 3 doz. No. 172 flints; 1 doz. No. 173 springs; 1 doz. No. 174 screw caps; 1 doz. No. 182 hexagon nuts; 1/2 doz. No. 177 lighters, complete; 2 doz. No. 37 tip cleaners.

The No. 2 outfit contains the same as the No. 1 box, approximately one-half quantity.

The No. 3, metal case, glass top, contains a larger assortment and a larger quantity than the No. 1.

Price, No. 1.each 13.00
 " 2. " 7.50
 " 3. " 35.00

MINERS' CAPS

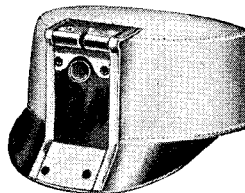


Fig. 26282E

Price.each .50

WATERPROOF MATCH BOXES

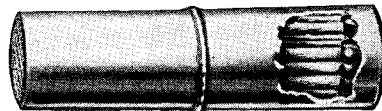


Fig. 26282F

Price.each .30

JUSTRITE MINERS' LAMPS

ACCESSORIES AND REPAIR PARTS

No. 62 FELT PACKING

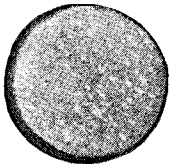


Fig. 26283A

Price.....each .05

No. 60 RUBBER GASKETS

Price.....each .05

No. 64 FELT HOLDERS

Price.....each .10

No. 66 LAVA TIPS



Fig. 26283B

Price.....each .05

No. 28 JEWEL METAL TIPS



Fig. 26283C

Shell made of brass with an imported lava burner insert, combining the best qualities of the metal and lava tip—will not break or crack—easy to put in and take out.

Price.....each .10

No. 78 VALVE STEMS

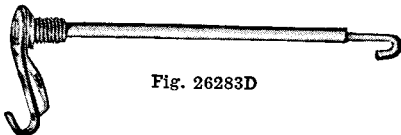


Fig. 26283D

Price.....each .50

No. 16 WIRE

Used for No. 78 valve stems.

Price.....each .05

No. 22 WIRE BRUSH CLEANERS



Fig. 26283E

Price.....each .10

EXTRA BOTTOMS



Fig. 26283F

Price, Polished Brass.....each .40
 " Nickel-plated..... " .50

LIGHTER PARTS

No. 172 FLINTS



Fig. 26283G

Price.....each .05

No. 173 SPRINGS



Fig. 26283H

Price.....each .05

No. 174 CAPS



Fig. 26283J

Price.....each .10

No. 175 WHEELS



Fig. 26283K

Price.....each .10

No. 176 NUTS AND FORKS



Fig. 26283L

Price.....each .20

No. 182 HEXAGON NUTS



Fig. 26283M

Price.....each .04

No. 177 LIGHTERS

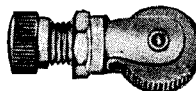


Fig. 26283N

Price.....each .30

The
 internal
 Ma
 Lan
 Pri

No.
 1 am.
 4 am.
 6 am.
 7 am.
 8 am.
 9 am.
 10 am.
 11 am.
 12 am.
 13 am.
 14 am.
 15 am.
 16 am.
 19 am.
 20 am.
 21 am.
 22 am.
 23 am.
 24 am.
 25 am.

W
 alumin

MINERS' LAMPS

No. 150 I. T. P. LAMPS

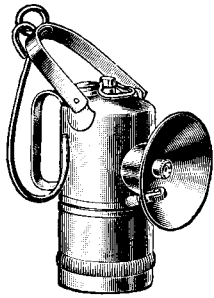


Fig. 19704A

Has rigid removable reflector, lava burner, weight 12 ounces; height to top of bail, 7 inches; burns 6 hours on 1 charge. Made of seamless drawn brass, heavily nickel-plated, equipped with wind shield and I. T. P. float feed. It burns with an even, steady flame and never has to be raked or regulated.

Price, Complete.....each 3.00

No. 130 PIONEER LAMPS

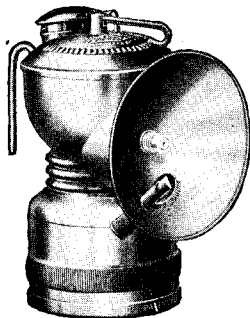


Fig. 19704B

Has no-trouble valve and embodies all advantages of the old reliable Baldwin straight wire feed, plus a strong water valve and water shut-off.

If dirt clogs the water tube, simply pump the water up and down a few times or close the valve, pull out the wire, scrape it clean, and slide it back again.

Also has non-leaking water cap, unbreakable hook, strongly re-enforced on inside and reflector brace soldered to tank.

Price, Lamp only.....each 1.00
 " Windshield..... " .10

No. 15 SUN RAY LAMPS

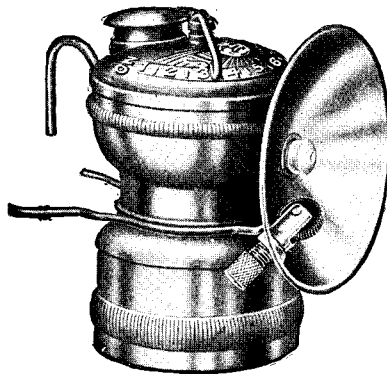


Fig. 19704C

Has a non-leakable water cap. A diaphragm inside the cap holds any water forced into the cap due to excess pressure until the pressure is relieved, when the water drips back into the tank.

The hook is turned at a sharp right angle inside the water tank and lies in a recess. This makes it possible to very securely fasten the wire inside the water tank.

The reflector brace and spreader wires are made in combination. This reduces weight and strengthens as well.

The knurling on the carbide container is made extra wide, affording a better grip as well as stiffening and strengthening the container.

The numbered notches on the top of the water tank aid the user in determining the position of the regulating lever.

The reflector collar is riveted. It cannot break loose and weighs less than a soldered collar.

The lamp is equipped with the Kra-Ker-Jack burner, which can be replaced without tools in half a minute and in the dark.

The gasket lies flat and will not curl out of place.

To reduce the weight of the lamp the tank has been cut down so that it holds just enough water to run the lamp for an hour and a half.

Price, Complete..... 1.00

Has
lava b
5 1/4 in
made
nickel-
Bur
be rak
Price,
No

Ha
2 1/2 p
hours
wind
Br
wood
in di
red
at gr
It
steel
whic
Price

MINERS' LAMPS

No. 160 I. T. P. LAMPS

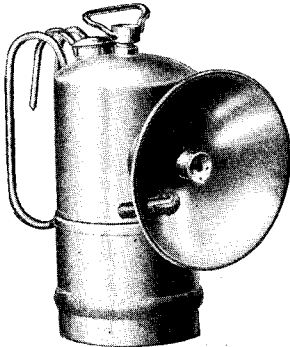


Fig. 19529A

Has float feed, rigid removable reflector, lava burner, weight, 11 ounces, height, 5¼ inches, burns 6 hours on one charge, made of seamless drawn brass, heavily nickel-plated, equipped with wind shield.

Burns steady and even. Never has to be raked or regulated.

Price, Complete.....each **3.00**

No. 200 I. T. P. TRIP LAMPS

SHOWS A RED LIGHT

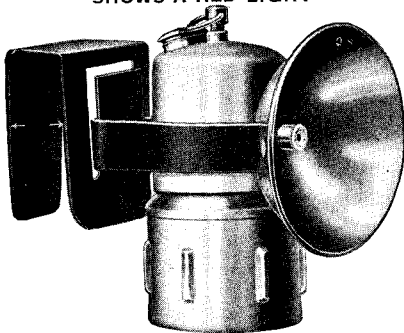


Fig. 19529B

Has deep reflector, lava burner, weight, 2½ pounds, height, 6½ inches, burns 10 hours on one charge, equipped with wind shield.

Bracket furnished to fit any steel or wooden mine car. Reflector, 4½ inches in diameter, 1½ inches deep, finished in red enamel. Shows a strong red light at great distance without the use of glass.

It is held in place by a 1-inch heavy steel band welded to body of the lamp which slides into a tongue on car bracket. Price, Complete.....each **5.50**

No. 203 I. T. P. LAMPS

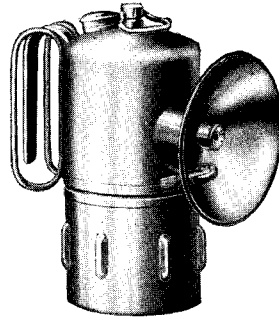


Fig. 19529C

Has float feed, rigid removable reflector, weight, 19 ounces, height, 6½ inches, burns 10 hours on one charge.

Equipped with hinged handles, sparker lighter, wind shield and one container.

A substantial inspector's lamp that requires no attention while burning and never has to be raked or regulated.

Price, Complete.....each **3.25**

No. 205 I. T. P. LAMPS

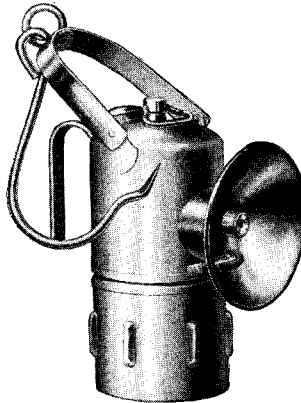


Fig. 19529D

Has float feed, rigid removable reflector, lava burner, weight, 19 ounces, height of lamp, 6½ inches, height to top of bail, 9¾ inches, burns 10 hours on one charge.

Equipped with sparker lighter and wind shield.

Price, Complete.....each **3.50**

MINERS' CAPS

No. 103

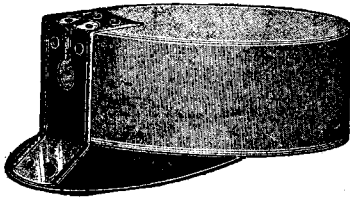


Fig. 15661A

No. 106

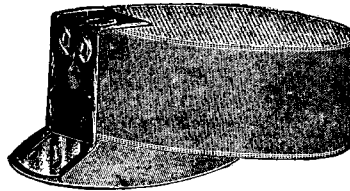


Fig. 15661B

No. 101, 10-ounce White Duck, assorted sizes	.....	per dozen	....
" 102, 10 " Brown " " " "	.....	"	....
" 103, 8 " White " " " "	.....	"	....
" 104, 8 " Brown " " " "	.....	"	....
" 106, 12 " White " " " "	.....	"	....

Nos. 101, 102, and 106 have patent butterfly and stirrup attachment.

No. 1 A

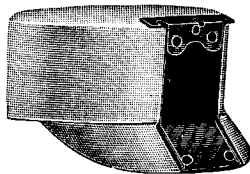


Fig. 15661C

Nos. 1 and 2 B

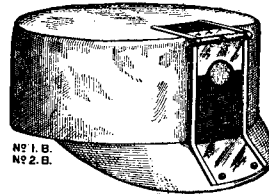


Fig. 15661D

No. 1A, 12-ounce White Duck, assorted sizes	.....	per dozen	....
" 10A, 10 " " " " " " "	.....	"	....
" 2A, 12 " Brown " " " "	.....	"	....
" 1B, 10 " White " " " "	.....	"	....
" 12B, 12 " " " " " " "	.....	"	....
" 2B, 10 " Brown " " " "	.....	"	....

Nos. 1 and 2A have Lattimore attachment.

Nos. 50 and 51

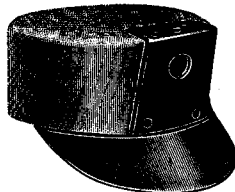


Fig. 15661E

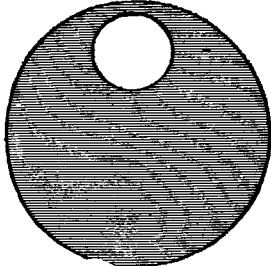
No. 50, 8-ounce Brown Duck, assorted sizes	.....	per dozen	....
" 51, 8 " White " " " "	.....	"	....

These are the old style leather attachment.

M
Price.
This
put
pound
and r
8 to 9
pound
Price,
"
For
drum
Price

MINERS' CHECKS, LAMP WICK AND CARBIDE

MINERS' CHECKS



Made in three sizes; $1\frac{3}{8}$, $1\frac{1}{2}$ and $1\frac{3}{4}$ inches in diameter with $\frac{3}{8}$ -inch hole.

Fig. 23994A

Price.....per pound

BALL LAMP WICK

This wick is put up in 5-pound bales, and runs from 8 to 9 balls to a pound.

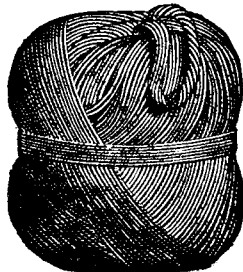


Fig. 23994B

Price, Best Grade.....per pound
 " Medium Grade... "

**UNION CARBIDE
100-POUND DRUMS**

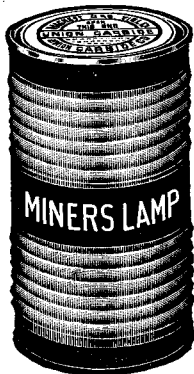


Fig. 23994C

For use in miners' lamps. Packed in drums of 100 pounds.
 Priceper pound

**UNION CARBIDE
2-POUND CANS**



Fig. 23994D

Packed in blue and gray cans consisting of $\frac{1}{2}$ -inch lump, 24 cans in a case.

Price, per pound

10-POUND CANS

Packed in gray cans with blue bands consisting of 1-inch lump, 6 cans in a case.

Price, per pound

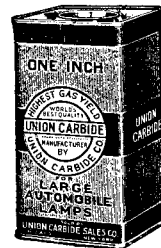


Fig. 23994E

25-POUND DRUMS



Fig. 23994F

Packed in blue and gray drums for use in miner's lamps.

Price, per pound

100-POUND DRUMS

Put up for special use in miners' lamps and packed in gray drums with blue bands.

Weight.....pounds 100
 Price.....per pound