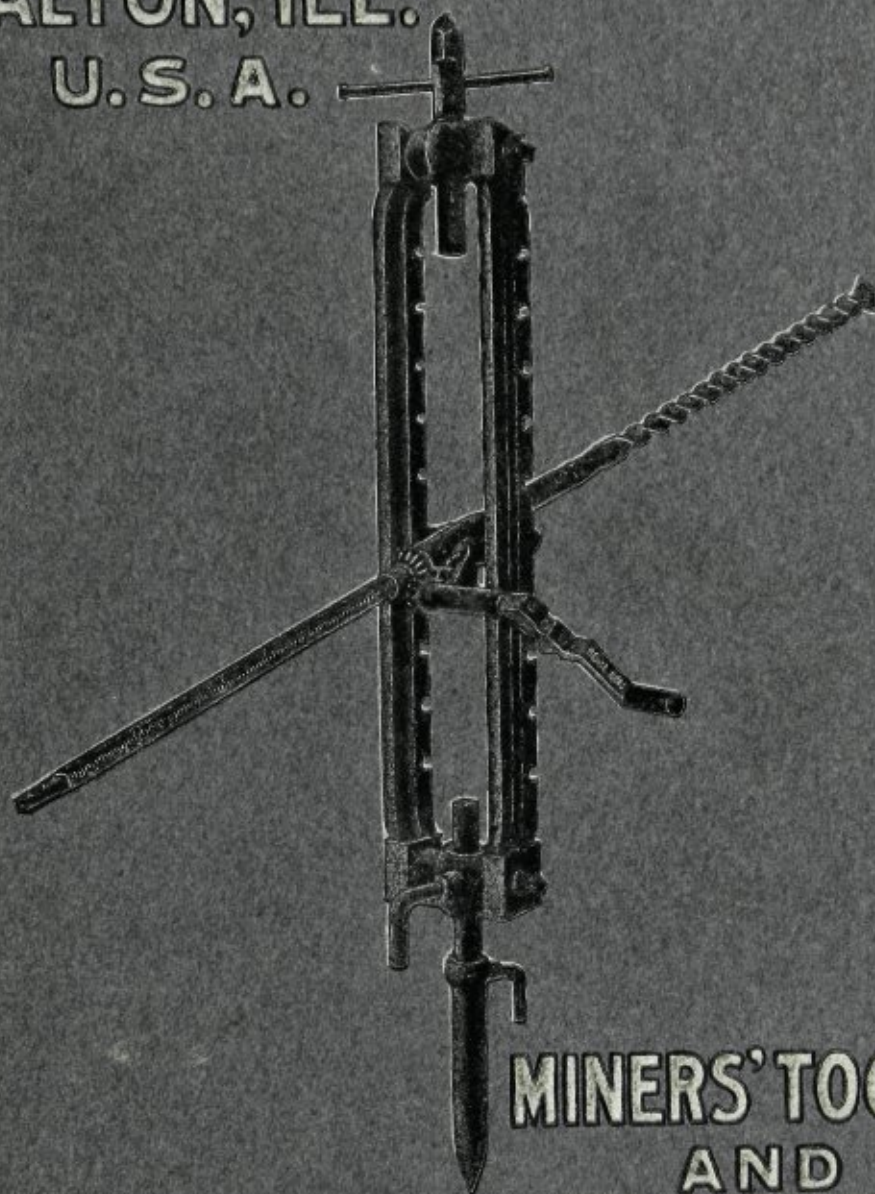


BEALL BROS.

ALTON, ILL.

U.S.A.



MINERS' TOOLS
AND
MINERS' SUPPLIES





CARNEGIE LIBRARY
PITTSBURGH, PA

ED. BEALL, PRESIDENT.
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J. W. BEALL, SECRETARY.
C. L. BEALL, TREASURER.

1909-1910

**FORTY-EIGHTH ANNUAL
ILLUSTRATED CATALOGUE**

BEALL BROS.

FACTORY No. 1.

ALTON, ILL., U.S.A.

MANUFACTURERS OF

**MINERS' TOOLS
AND MINERS' SUPPLIES**

BEALL BROS., EAST ALTON, ILL.

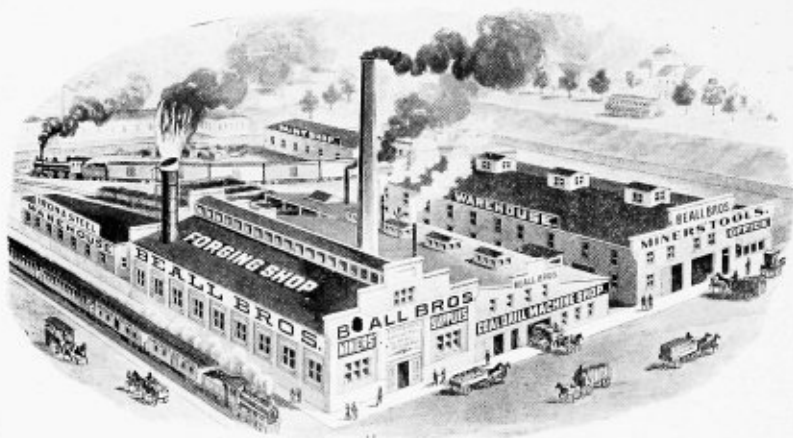
MANUFACTURERS OF

HEAVY HAMMERS, RAILROAD PICKS, TRACK TOOLS, ETC.

BEALL SHOVEL CO., ALTON, ILL.

MANUFACTURERS OF

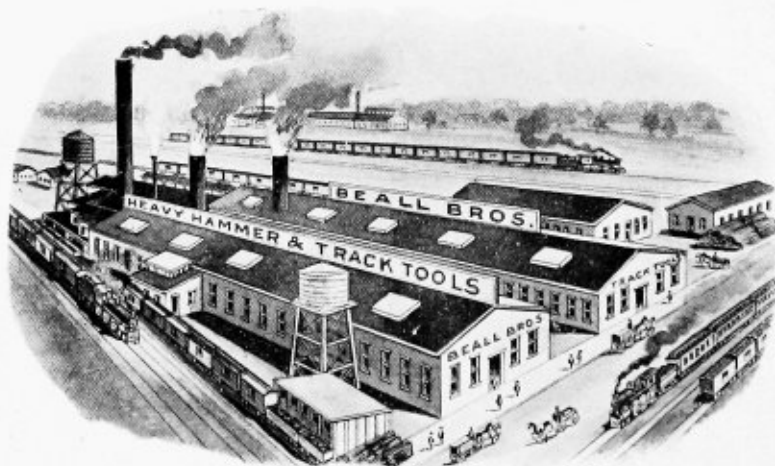
HIGH-GRADE SHOVELS, SPADES AND SCOOPS.



FACTORY NO. 1.
MINERS' TOOLS AND MINERS' SUPPLIES.



FACTORY NO. 2.
HIGH-GRADE SHOVELS, SPADES AND SCOOPS.



FACTORY NO. 3.
HEAVY HAMMERS AND RAILROAD TRACK TOOLS.

To the Trade.



IT IS WITH PLEASURE that we hand you our new catalogue. Perhaps some of our old friends will look back over the years gone by and remember the small leaflet we then issued as a catalogue. We have constantly added to our lines until we now manufacture most everything in the way of Miners' Tools and Miners' Supplies.

We have recently completed our new Heavy Hammer and Railroad Pick and Track Tool Factory, and the page opposite shows accurate engravings of the Beall Bros.' Mining Tool, Shovel and Hammer factories.

We are the largest manufacturers in our line in the United States, and perhaps in the world. We are manufacturers of some nine different patterns of Coal Drills, including the old wooden post machine, and can furnish machines complete, and parts for most all the different Drills manufactured in the United States.

We have made it a point in our business in the years gone by to buy and use nothing but the best grade of material, warranting every article we send out, and will continue this policy in the future.

We thank you very much for your past favors, and will be pleased at any time you are in the city to have you make us a call, and go through our factories, and see in detail the workings of the different departments.

Beall Bros.

“Alton” Short Ear Cutting Pick.

Regular Pattern.



Made with heavy eye, in weights 2 to 5 lb.

“Alton” Short Ear Mining Pick.

Regular Pattern.



Made straight on bottom, in weights 1½ to 3½ lb.

“Alton” Long Ear Cutting Pick.

Regular Pattern.



Made with heavy eye, in weights 2 to 5 lb.

“Alton” Long Ear Mining Pick.

Regular Pattern.



Made straight on bottom, in weights 1½ to 3½ lb.

"Alton" Adze Eye Cutting Pick.



Made in weights $2\frac{1}{2}$ to 5 lbs.

"Alton" Coal Poll Pick.

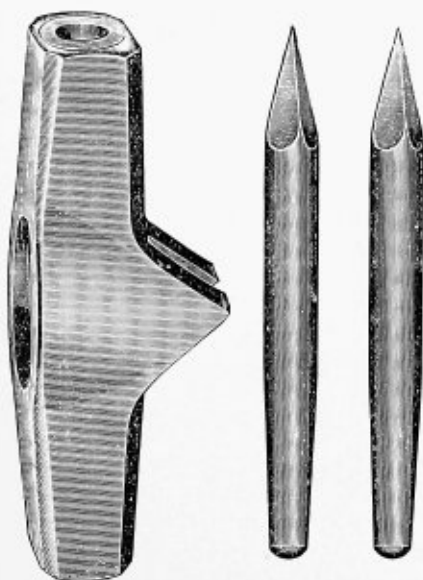


Made with heavy eye in weights $2\frac{1}{2}$ to 5 lbs.

Special Pattern Coal Picks.

Weights

No. 10 Pattern, shorter than regular Cutting Pick,	. . .	$2\frac{1}{2}$ to 4	lbs.
No. 19 Pattern, Long Drawn Cutting Pick,	. . .	$2\frac{1}{2}$ to 4	lbs.
No. 17 Pattern, Slender Drawn Cutting Pick,	. . .	$1\frac{3}{4}$ to $2\frac{3}{4}$	lbs.
Ladd Pattern, Short Drawn Mining Pick,	. . .	$1\frac{3}{4}$ to $3\frac{1}{2}$	lbs.
Braidwood Pattern, Long Slender Drawn Mining Pick,	2	to 3	lbs.



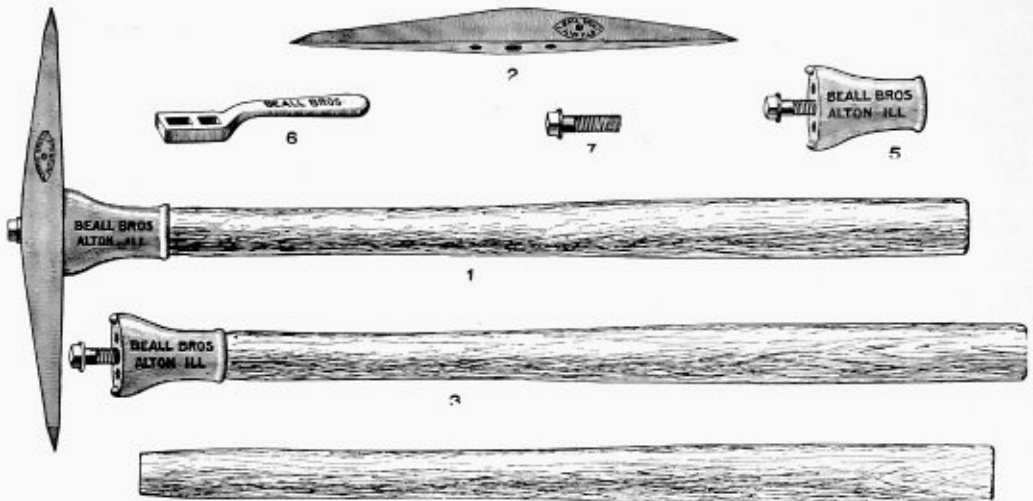
Dutch Pick Head and Points for Same.

Heads or eyes are made with taper holes drilled in ends in which the points made of a high-grade steel are fitted. This tool is very popular, as it allows the miner to carry the Points in his pocket to be sharpened.

Heads made in weight,
 $1\frac{3}{4}$ to 3 lbs.

If you have any demand for a Patent Pick, try the

"Black Diamond."



The best Patent Pick made.

Order by Name and Number.

No. 1. Pick, Handle and Wrench (complete).

No. 2. Pick (no handle).

No. 3. Pick Handle, with Ferrule.

No. 4. Handle only.

No. 5. Ferrules for handles.

No. 6. Wrench.

No. 7. Bolts and Washers.

We make this in the same pattern as our old style picks, but you should order them five to eight ounces lighter than the old style, as the casting on handle makes up the extra weight.

Weight, 1¾ to 3½ lbs.

We also have in stock

Scott Patent Picks and Handles for same,

in the Cutting and Mining patterns.

Weight, 1¾ to 3 lbs.

“Alton” Lead and Zinc Mining Picks.



Finished in oil.

We Invite Comparison in Quality and Prices.

These Picks are **warranted in every particular.** We are supplying nearly all the Lead and Zinc trade in Southwest Missouri. Can furnish them with handles all fit in, ready for use, or without handles, in weights 5 to 6 lbs.

We call your special attention to our Superior Pick for Lead and Zinc Mining. This Tool is made of the best material, and is Fully Warranted.

“Alton” Gold and Silver Mining Pick.



Made in weights, 3½ to 6 lbs.

These Picks are used extensively in Arizona, Colorado, California, and in fact in all the gold and silver mines in the West, and we refer you to any and all, in regard to their durability and the quality and quantity of steel used in them.

We call your especial attention to our Superior Hand-Made Drifting Pick. This Tool is made of the Best Extra Cast Tool Steel, and warranted in every particular.

ALL OUR TOOLS ARE WARRANTED in every respect, carefully tempered and thoroughly tested. We **GUARANTEE** them to be unequalled. **ALL ARE WELL BALANCED,** and made **ANY SIZE OR WEIGHT.**

Drifting Pick Eyes.



List Prices.

No. 1,	\$7.50 doz.	No. 3,	\$9.00 doz.
No. 2,	8.50 doz.	No. 4,	9.50 doz.
No. 5,			\$10.50 doz.

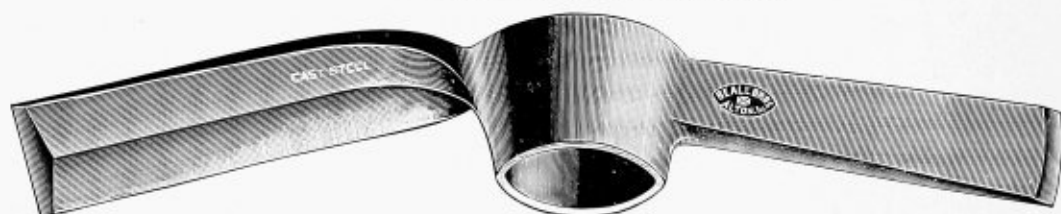
"Alton" Railroad Pick.



4 lbs.,	\$13.00 doz.	8 lbs.,	\$17.00 doz.
5 lbs.,	13.50 doz.	9 lbs.,	19.00 doz.
6 lbs.,	14.50 doz.	10 lbs.,	21.00 doz.
7 lbs.,	15.50 doz.	12 lbs.,	24.00 doz.

Mattocks.

Solid Steel. Long Cutter and Short Cutter.



Style	Weight	Dimensions of Blade	Dimensions of Cutter	List
Long Cutter,	6 lbs.	8½ x 4¼	6 x 3	\$17.00
Short Cutter,	5½ lbs.	8¼ x 4¼	4½ x 3	16.50
Long Cutter,	5 lbs.	7½ x 3½	5¼ x 2½	16.00
Short Cutter,	5 lbs.	7½ x 3½	4¼ x 2½	16.00
Short Cutter,	4 lbs.	7½ x 3½	4¼ x 2½	16.00
Short Cutter,	3 lbs.	7 x 3	4¼ x 2½	16.00

Machine Puncher Picks.



Made of $1\frac{3}{4}$ in. Octagon Steel, 16 and 18 in. long.

Shanks made to fit Sullivan, Ingersoll, Harrison and other machines.
Can furnish special patterns after drawings or samples.



Chain Machine Bits.

Bits for any Chain Machine desired.

Size of steel $\frac{1}{2} \times \frac{3}{4} \times 3\frac{3}{4}$ in. Chisel or Diamond Point.

Track Spikes.



Rails Used	Size of Spikes	Number in Keg
8 to 10	$2\frac{1}{2} \times 1\frac{1}{8}$	2200 in keg, 200 lbs.
8 to 12	$2\frac{1}{2} \times 3\frac{3}{8}$	1550 " "
12 to 16	$3 \times 3\frac{3}{8}$	1350 " "
16 to 20	$3\frac{1}{2} \times 3\frac{3}{8}$	1250 " "
20 to 25	$4 \times 1\frac{1}{8}$	820 " "
25 to 30	$4\frac{1}{2} \times 1\frac{1}{8}$	725 " "
25 to 40	$4\frac{1}{2} \times 1\frac{1}{2}$	550 " "
35 to 50	$5 \times 1\frac{1}{2}$	490 " "
45 to 52	$5 \times 1\frac{3}{8}$	400 " "
56 to 80	$5\frac{1}{2} \times 1\frac{3}{8}$	375 " "

For Mining Rails calculate One-Half Keg Spikes
for each ton of Rails.

Long Pattern Coal Sledges.

Solid Cast Tool Steel.



Made in weights, 5 to 7 lbs.

Short Pattern Coal Sledges.

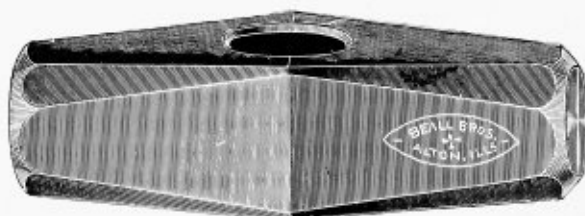
Solid Cast Tool Steel.



Made in weights, 4½ to 8 lbs.

Nevada Pattern Double Faced Striking Hammers.

Solid Cast Tool Steel.



Made in weights, 4½ to 9 lbs.

Special Patterns.

Centerville Pattern—A long slim Sledge, with a small face.

Made in weights, 5 to 7 lbs.

Coal Miners' Wedges.

Regular Pattern.



Made of cast tool steel, in weights $1\frac{1}{2}$ to 5 lbs.

Coal Miners' Wedges.

Indiana Pattern.



Made of $1\frac{1}{4}$ in. square cast tool steel, in weights $1\frac{1}{4}$ to 2 lbs.

Coal Miners' Wedges.

Kansas Pattern.



Made of $1\frac{3}{4} \times \frac{3}{4}$ in. cast tool steel, in weights $1\frac{1}{2}$ to 2 lbs.

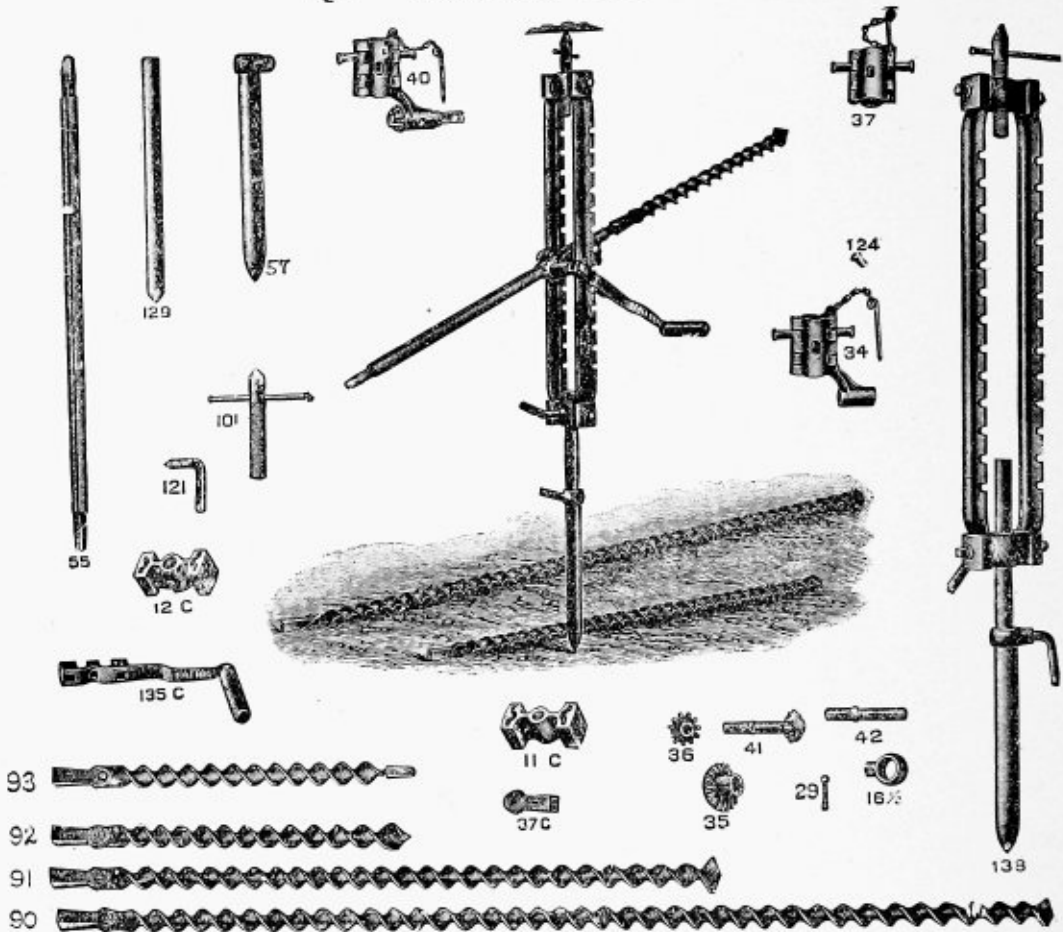
Coal Miners' Wedges.

Missouri Pattern.



Made of $1\frac{1}{4} \times \frac{7}{8}$ in. cast tool steel, in weights $1\frac{1}{2}$ to 2 lbs.

“QY” Notched Post Drill.



Post Drill, Complete, with Side and End Gear and Three Augers, \$

Post Drill, Complete, with End Gear only, and Three Augers, .. \$

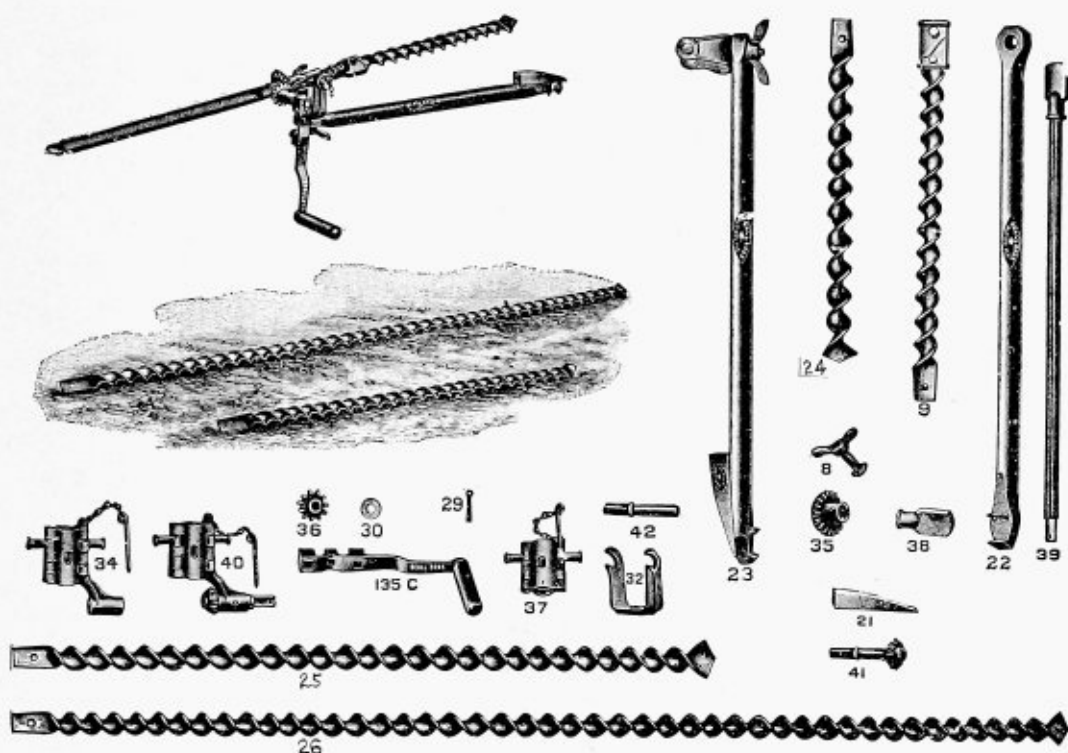
EXTRA PARTS. (Order by Name and Number.)

No.	Each	No.	Each
11-C.	Casting for Post (Jack Screw No. 101 fits in).....	42.	Thread Box Shaft.....
	\$1.00	55.	Thread Bar.....
12-C.	Casting for Post (No. 129 fits in).....	57.	Small Boot, 1 1/4 in. in diameter.....
	1.00	90.	Long, or 6 foot Auger.....
16 1/2.	Ring for 1 1/4 in. Boot.....	91.	Medium, or 4 foot Auger.....
	.15	92.	Short, or 2 foot Auger.....
29.	Small Spring Key or Shaft.....		.92
	.50	93.	Auger Extension, 2 feet long.....
34.	Thread Box (Alloy Metal).....		.95
	1.65	101.	Jack Screw.....
35.	Large Gear Wheel.....		.55
	.80	121.	Tail Set Screw.....
36.	Small Gear Wheel.....		.15
	.55	124.	Set Screw for No. 11-C and No. 12-C.....
37.	End Gear Thread Box.....		.10
	.80	129.	Small Size Stem that fits in No. 57.....
37-C.	Square Socket for Augers.....		.75
	.35	135-C.	Crank.....
40.	Thread Box, complete with No. 42 Shaft and No. 36 Small Pinion.....		.55
	2.30	138.	Post, complete, as shown in cut 4.62
41.	Thread Box Shaft, with No. 36 Small Pinion, complete.....		1.10

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.

Average weight of Drills, 70 lbs.

“QY” Arm Box Grip Drill.



Each

Grip Drill, Complete, with Side and End Gear and Three Augers, \$.....

EXTRA PARTS.

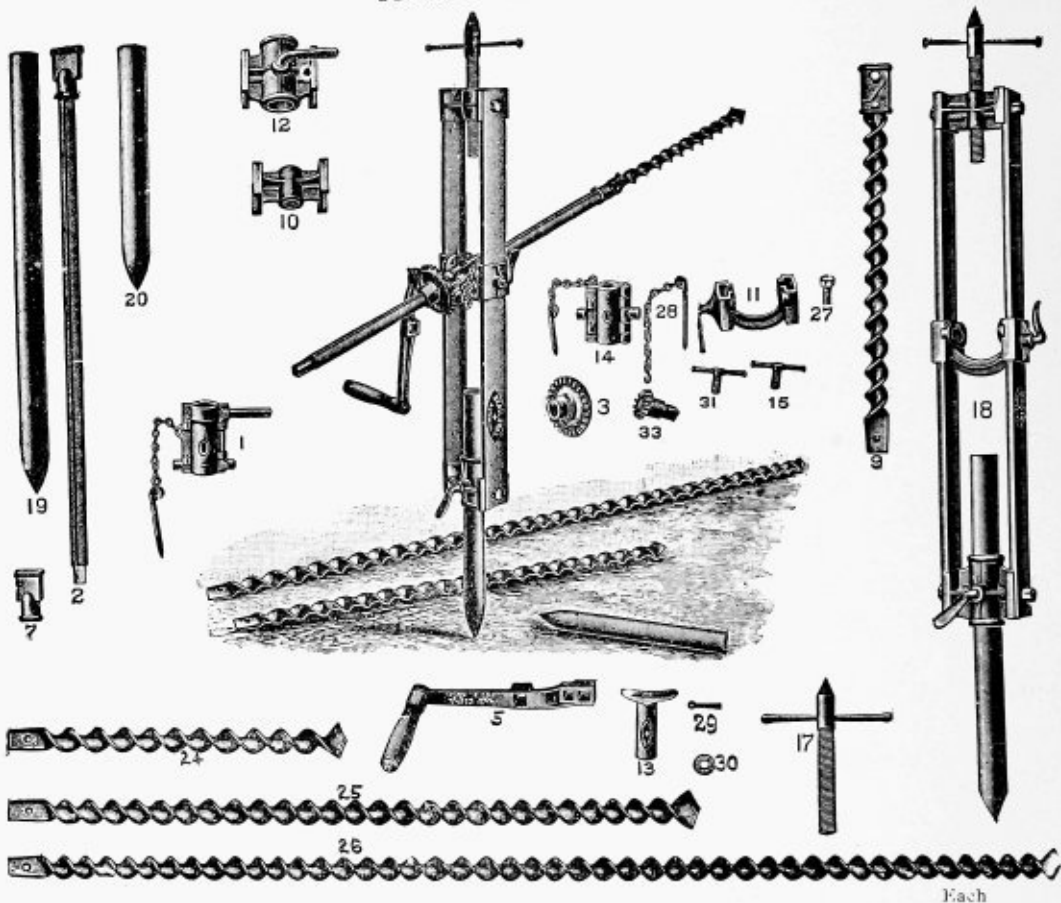
(Order by Name and Number.)

No.		Each	No.		Each
8.	Bolt and Thumb Nut for Chair.....	.25	36.	Small Gear Wheel.....	\$.55
9.	Auger Extension, 2 feet long....	.95	37.	End Gear Thread Box (Alloy Metal).....	.80
21.	Steel Wedge for Grip.....	.25	38.	Auger Socket.....	.35
22.	Grip Bar.....	1.75	39.	Thread Bar.....	2.75
23.	Grip Bar, complete.....	2.75	40.	Boxing Complete (Alloy Metal) with No. 42 Shaft and No. 36 Pinion.....	2.30
24.	Short Auger, 2 feet long.....	.92	41.	Thread Box Shaft with No. 36 Pinion complete.....	1.10
25.	Medium Auger, 4 feet long....	1.84	42.	Thread Box Shaft.....	.55
26.	Long Auger, 6 feet long.....	2.76	135-C.	Crank.....	.55
29.	Spring Key for Crank.....	.05			
30.	Steel Washer for Crank Shaft... .05				
32.	Open Chair for Grip.....	.55			
34.	Thread Box (Alloy Metal).....	1.65			
35.	Large Gear Wheel.....	.80			

In ordering Augers, specify whether same are wanted with Square or Feather Edge.

Average Weight of Drills, complete, 60 pounds.

“Alton” Post Drill.



Post Drill, Complete, with Side and End Gear and Three Augers, \$-----
 Post Drill, Complete, with End Gear Only, and Three Augers, . \$-----

EXTRA PARTS. (Order by Name and Number.)

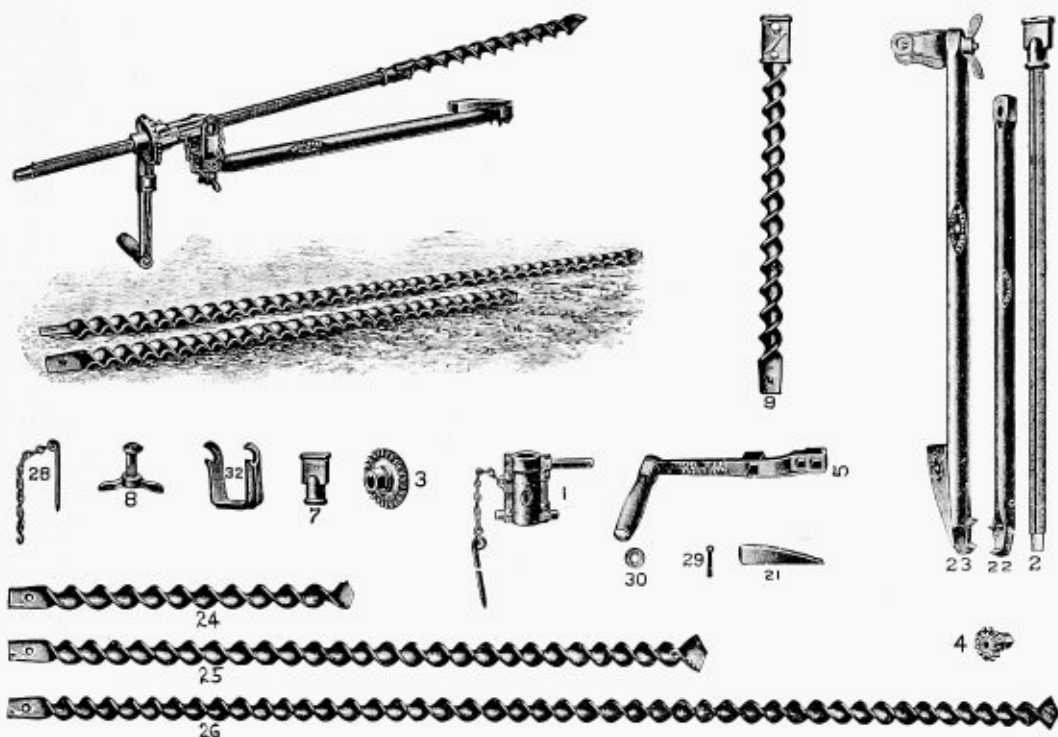
No.	Each	No.	Each
1.	Thread Box (Alloy).....\$1.65	18.	Post Complete .....\$4.62
2.	Thread Bar.....2.75	19.	Post Pipe, long .....1.00
3.	Large Bevel Wheel......80	20.	Post Pipe, short ..... .60
5.	Crank......55	24.	Short Auger, 2 feet long......92
7.	Auger Socket......35	25.	Medium Auger, 4 feet long.....1.84
9.	Auger Extension......95	26.	Long Auger, 6 feet long.....2.76
10.	Top Post Jack Screw Casting..1.00	27.	Set Screw for Nos. 10 and 12... .10
11.	Post Slide, complete.....1.25	28.	Steel Pin and Chain for Thread Box......25
12.	Lower Post End Casting, com- plete.....1.00	29.	Spring Key for Crank......05
13.	Sleeve for Breast Drill......40	30.	Steel Washer for Crank Pinion.. .05
14.	End Gear Thread Box (Alloy).. .80	31.	Tail Screw for No. 12......15
15.	Small Jack Screw for No. 11... .15	33.	Small Bevel Wheel, Long Hub.. .55
17.	Post Jack Screw......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. Average Weight of Drills, complete, 85 pounds.

Rock Machines.

We manufacture 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, \$1.50 above price of regular Coal Drill.

"Alton" Grip Drill.



Each

Grip Drill, Complete, with Side and End Gear and Three Augers, \$.....

EXTRA PARTS. (Order by Name and Number.)

No.	Each	No.	Each
1.	Thread Box (Alloy) \$1.65	23.	Grip Bar, complete \$2.75
2.	Thread Bar 2.75	24.	Short Auger, 2 feet long ..... .92
3.	Large Bevel Wheel ..... .80	25.	Medium Auger, 4 feet long 1.84
4.	Small Bevel Wheel (Short Hub) ..... .55	26.	Long Auger, 6 feet long 2.76
5.	Crank ..... .55	28.	Steel Pin and Chain for Thread
7.	Auger Socket ..... .35		Box ..... .25
8.	Bolt, complete for Chair ..... .25	29.	Spring Key for Crank ..... .05
9.	Auger Extension ..... .95	30.	Steel Washer for Crank Pinion. .... .05
21.	Steel Wedge for Grip ..... .25	32.	Open Chair for Grip Drill ..... .55
22.	Grip Bar 1.75		

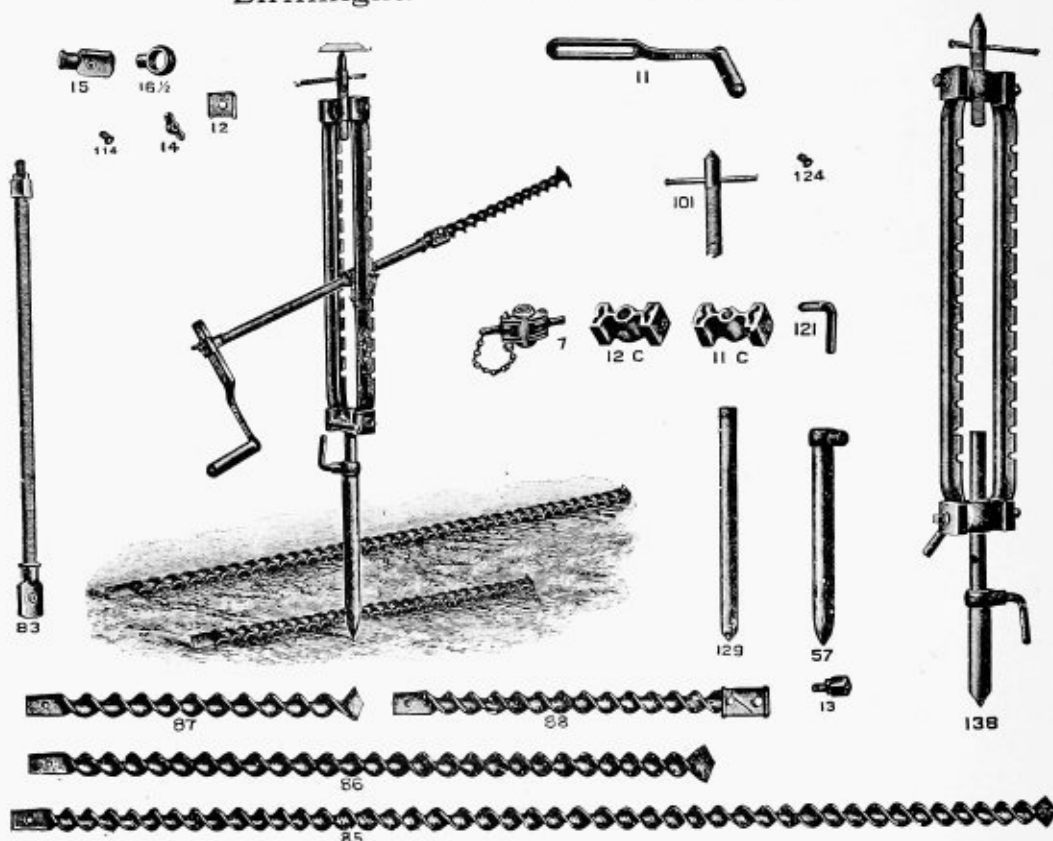
In ordering Augers, specify whether same are wanted with Square or Feather Edge. Average Weight of Drills, complete, 62 pounds.

Square or Sliding Grip Bar Parts to Fit Any Grip Machine Made.

No.	Each	No.	Each
79.	Square or Sliding Grip, complete. \$2.75	20-C.	Casting that fits on Square Grip Bar (supports 107) \$.60
68.	Square Steel Grip Bar only 1.75	141.	Tail Screw (that secures castings 20-C to Grip Bars) ..... .15
71.	Plain Wedge that fits on Square Bar ..... .25		

107. Complete Chair which supports Boxing 55 cents.

Birmingham Notched Post Drill.



Each

Post Drill, Complete, with End Gear Only, and Three Augers, . \$-----

EXTRA PARTS. (Order by Name and Number.)

No.	Each	No.	Each		
7.	Thread Box (Alloy Metal).....	\$0.80	83.	Thread Bar	\$2.75
11.	Crank .....	.55	85.	Long Auger, 6 feet long.....	2.76
11-C.	Casting for Post that Jack Screw		86.	Medium Auger, 4 feet long....	1.84
	No. 101 fits in.....	1.00	87.	Short Auger, 2 feet long.....	.92
12.	Clamp.....	.05	88.	Two-foot Auger Extension.....	.95
12-C.	Casting for Post that No. 129		101.	Jack Screw.....	.55
	fits in	1.00	114.	Set Screw for Auger Socket....	.05
13.	Square Thread Bar Socket.....	.35	121.	Tail Set Screw.....	.15
14.	Thumb Nut .....	.10	124.	Set Screw for No. 11-C and 12-C	.10
15.	Auger Socket.....	.35	129.	Small Size Stem that fits in	
16 1/2.	Ring for 1 1/4-inch Boot.....	.15		No. 57.....	.75
57.	Small Boot 1 1/4 inches in diameter	1.00	138.	Post complete as shown in cut.	4.62

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.

Average Weight of Drills, complete, 65 lbs.

"Alton" Ratchet Rock Drill.

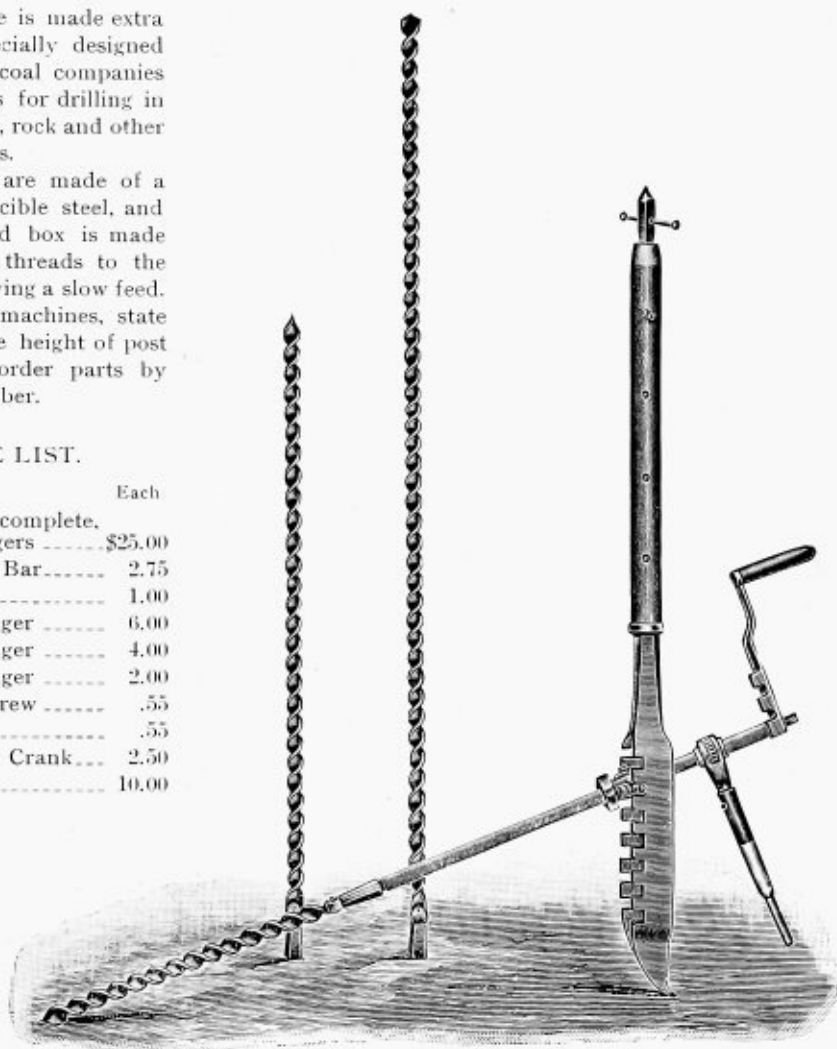
This machine is made extra heavy and specially designed for the use of coal companies and contractors for drilling in limestone, slate, rock and other hard substances.

The Augers are made of a high-grade crucible steel, and thread bar and box is made with 10 or 12 threads to the inch, thus allowing a slow feed.

In ordering machines, state particularly the height of post wanted, and order parts by name and number.

PRICE LIST.

No.	Each
Machine, complete, with Augers	\$25.00
55. Thread Bar	2.75
131-C. Box	1.00
90. 6 ft. Auger	6.00
91. 4 ft. Auger	4.00
92. 2 ft. Auger	2.00
101. Jack Screw .....	.55
135-C. Crank .....	.55
254. Ratchet Crank	2.50
Post, complete	10.00



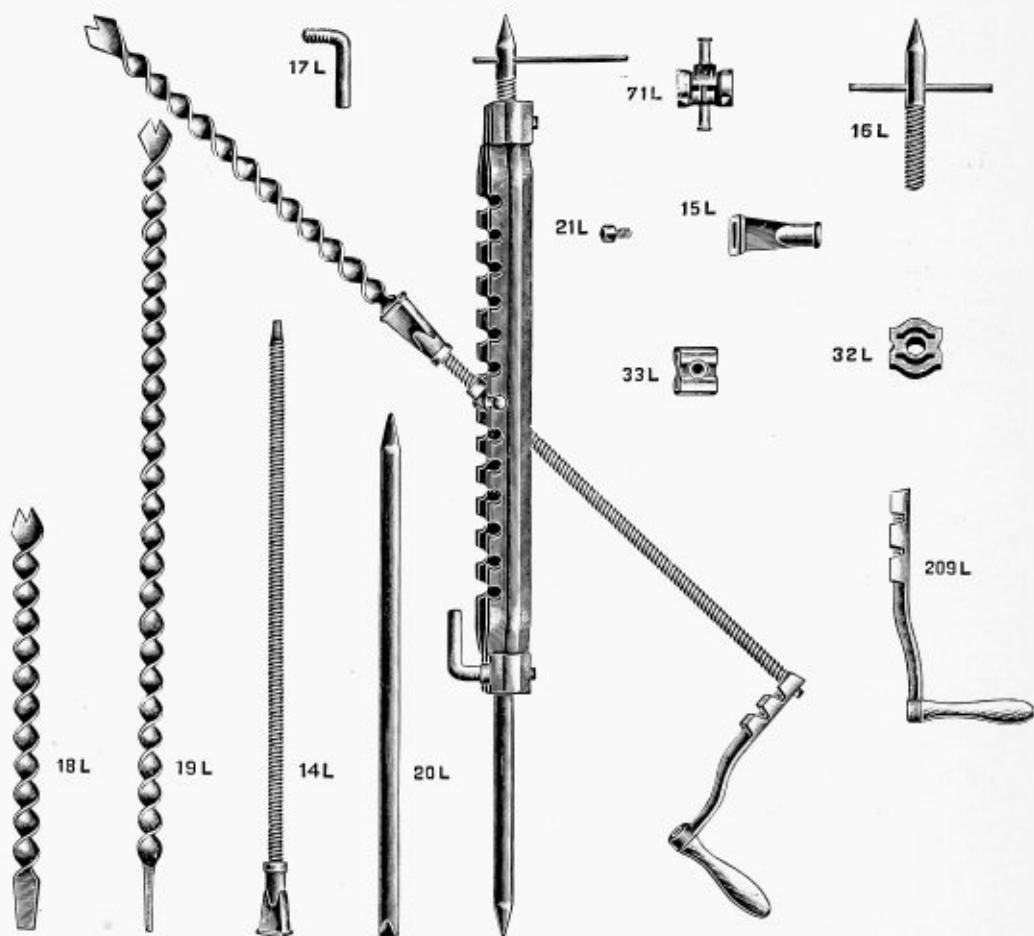
Cyclone Grip Drills.

We also manufacture the Cyclone Grip Drill, complete, with starter brace and bit. This machine is a very light and durable machine, weighing only 40 pounds.

Same is made with Detachable Bit Cutters, which can be carried in the pocket of the miner to be sharpened.

Write us for further information.

Our Latest.
 Cheap, Durable and Light "End Gear."
 "B. L." Notched Post Drill.



Post Drill, Complete End Gear only with 2 and 4-ft. Auger.

EXTRA PARTS. (Order by Name and Number.)

No.	Each	No.	Each
71-L.	Thread Box \$.80	19-L.	4-ft. Auger, 1½ in. dia. \$1.84
5-L.	Box Clamp ..... .25	20-L.	Post Extension Stem ..... .75
14-L.	Thread Bar 2.75	21-L.	Set Screw ..... .10
15-L.	Thread Bar Socket ..... .35	32-L.	Top Post Casting ..... .80
16-L.	Jack Screw ..... .55	33-L.	Bottom Post Casting ..... .80
17-L.	Tail Screw ..... .15	209-L.	Crank ..... .55
18-L.	2-ft. Auger, 1½ in. dia. .... .92		

In ordering above machine if 6-ft. Auger is wanted, so specify, as otherwise only 2 and 4-ft. Augers will be included.

Also state thickness of vein of coal in which they are to be used.
 Average weight, 56 pounds.

Peoria Grip Drill, with Linings and Large Cog, No. 8.

Sometimes called T. & J. Grip Drills. Has lining in boxing, and has extra large cogs. Large cog No. 8 has 24 teeth.

		Each																												
Grip Drill, Complete, for 6-ft. Hole,		\$-----																												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Two-foot Extension for Augers.....</td> <td style="width: 10%;">\$.95</td> </tr> <tr> <td style="padding-left: 20px;">Linings, per pair.....</td> <td style="padding-left: 10px;">.80</td> </tr> <tr> <td>No. 4. Chain Bolt and Tail Nut.....</td> <td>.25</td> </tr> <tr> <td>5. Journal for Small Cog.....</td> <td>.55</td> </tr> <tr> <td>6. Socket for Thread Bar.....</td> <td>.35</td> </tr> <tr> <td>7. Small Cog.....</td> <td>.55</td> </tr> <tr> <td>8. Large Cog.....</td> <td>.80</td> </tr> <tr> <td>9. Chair for Gear Support.....</td> <td>.55</td> </tr> <tr> <td>10. Wedge for Grip Bar.....</td> <td>\$.25</td> </tr> </table>	Two-foot Extension for Augers.....	\$.95	Linings, per pair.....	.80	No. 4. Chain Bolt and Tail Nut.....	.25	5. Journal for Small Cog.....	.55	6. Socket for Thread Bar.....	.35	7. Small Cog.....	.55	8. Large Cog.....	.80	9. Chair for Gear Support.....	.55	10. Wedge for Grip Bar.....	\$.25		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">No. 11. Crank.....</td> <td style="width: 10%;">.55</td> </tr> <tr> <td>12. Grip Bar.....</td> <td>1.75</td> </tr> <tr> <td>13. Thread Bar.....</td> <td>2.75</td> </tr> <tr> <td>15. Boxing, complete with Linings to fit the Large Cog Drill.....</td> <td>2.30</td> </tr> <tr> <td>2. Boxing, without Journal and Cog.....</td> <td>1.65</td> </tr> </table>	No. 11. Crank.....	.55	12. Grip Bar.....	1.75	13. Thread Bar.....	2.75	15. Boxing, complete with Linings to fit the Large Cog Drill.....	2.30	2. Boxing, without Journal and Cog.....	1.65
Two-foot Extension for Augers.....	\$.95																													
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Iowa Grip Drill.

Sometimes called T. & J. Drills. The boxing has no lining, and large cog has 24 teeth, and is smaller than large cog for Peoria Drill.

		Each
Grip Drill, Complete,		\$-----
Grip Drill, Less Augers,		\$-----

EXTRA PARTS. (Order by Name and Number.)

No.	Each		No.	Each	
00.	Split Key for Crank.....	\$.45	6.	Chair.....	\$.55
0.	Side Gear Boxing, complete, with journal and small cog.....	2.30	7.	Nut for Chair Bolt (with No. 10).....	.25
1.	Side Gear Boxing, without journal and cog.....	1.65	8.	Socket for Thread Bar.....	.35
24.	End Gear Thread Box.....	.80	9.	Thread Bar.....	2.75
2.	Journal for Small Cog Wheel..	.55	10.	Chair Bolt (see No. 7).....	.25
3.	Small Cog Wheel.....	.55	11.	Grip Bar.....	1.75
4.	Large Cog Wheel.....	.80	12.	Wedge for Grip Bar.....	.25
5.	Crank.....	.55		2-ft. Auger Extension.....	.95
				Augers, Feather or Square Edge, per foot.....	.46

Breast Drills.



The above illustrates one of the simplest styles of Breast Augers, one that is adapted for soft coal. We can furnish these Drills with any desired length or shape of Auger.

"Alton" Scrapers.



Single End.



Double End.

Made of $\frac{3}{8}$ in. round.

Lengths 5 to 8 feet.

Blasting Barrels.

We wish to call special attention to our Blasting Barrels, which are made specially for that purpose. They are made of spring steel, and are not liable to bend or break.

5 to 8 feet long.

We can furnish the above in two styles, $\frac{1}{4}$ or $\frac{5}{8}$ in. hole, but we recommend the $\frac{5}{8}$ in. opening, as the smaller the hole the better the shot. Copper wire needles for above furnished on application.

Chargers.



Made of tin, zinc, galvanized iron and copper. Any length and diameter wanted.

IRON BLASTING TOOLS.

Iron Needles.



Made of $\frac{1}{2}$ in. round.

Lengths 5 to 8 feet.

Single Bit Drills.



Made of 1 in. round, with $8\frac{1}{2}$ in. of tool steel in bit end, with $2\frac{1}{2}$ in. bit.
Iron tamp on other end.

Lengths, 5 to 9 feet.

Double Bit Drills.



Made of 1 in. round, with $8\frac{1}{2}$ in. tool steel in each end, with $2\frac{1}{2}$ in. bit.

Lengths, 5 to 9 feet.

Iron Spoon Scraper.



Made of $\frac{3}{8}$ and $\frac{7}{8}$ in. round iron, with scraper on one end and spoon on the other, in lengths 5 to 8 feet.

Iron Funnel Scraper.



Made of $\frac{3}{8}$ and $\frac{7}{8}$ in. round iron, with scraper on one end and funnel on the other, in lengths 5 to 8 feet.

Combination Iron Tamp and Scraper.

This tool is made with a tamp on one end and a scraper on the other.

Lengths, 5 to 7 feet.

COPPER BLASTING TOOLS.

Copper Needles.



Made of $\frac{1}{2}$ in. copper, tapered and highly polished.
Lengths, 5 to 7 feet.

Copper Tamp Drills.



Made of 1 in. round iron, with $8\frac{1}{2}$ in. of tool steel in bit end; $2\frac{1}{2}$ in. bit; copper tamp on other end.
Lengths, 5 to 7 feet.

Copper Tipped Tamping Bar.



Made of 1 in. round iron, with copper tamp on end.
Lengths, 5 to 7 feet.

Combination Copper Tamp and Scraper.



This tool is made with a copper tamp on the end and a scraper on the other.
Lengths, 5 to 7 feet.

Regular Copper Tamp End.



Combination copper tamp end.

All the above copper tools are made to comply with the State laws in which they are to be used.

"Alton" Coal Pick Handles.



All our Coal Pick Handles are made with either large or medium sized eye, and are packed 2 dozen to each crate. We make them in several grades:

Gilt Edge Grade,
Blue Label Grade,

Beall's Best Grade,
No. 1 Grade,

Rival Grade.

Sledge Handles.



Packed 2 dozen in case.

Lengths, 32, 34 and 36 inches.

Drifting Pick Handles.

For Gold and Silver Mining.



Packed 2 dozen in case.

Our Poll Pick Handles.



Packed 2 dozen in case.

Surface and Railroad Pick Handles.



Packed 2 dozen in case.

Cartridge Pins.



Packed one dozen in case.
Any length and diameter desired.

Shovel Handles.



Cleveland or Hollow Back Pattern.



Chisholm's Pattern.

Axe Handles.



Packed 2 dozen in case.
We also furnish the Short Axe Handles for Miners' Axes.

Patent Pick Handles.

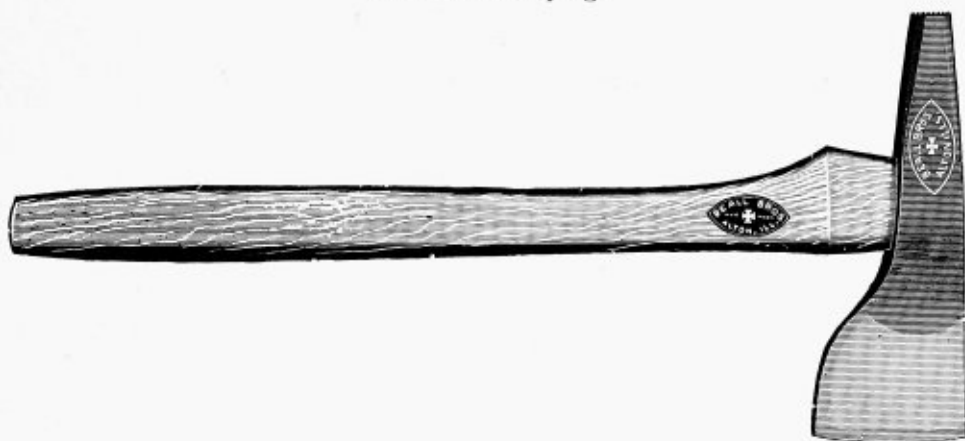


Packed 2 dozen in case.

We can also furnish Hatchet and Hammer Handles in any grade.

Spiking Hatchets.

For Track Laying.



Weights, $2\frac{1}{2}$ to $3\frac{1}{2}$ lbs. each.

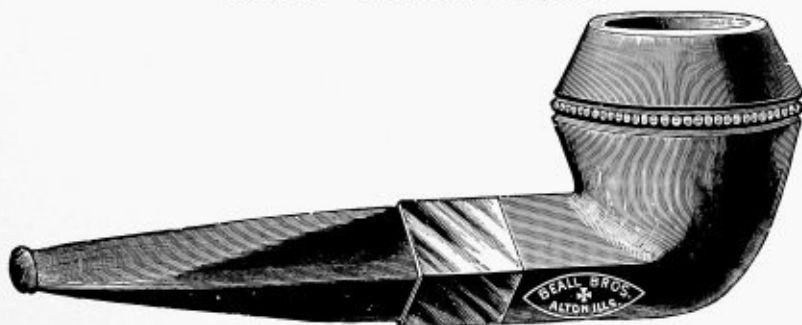
We also manufacture a Spiking Adze, in weights $2\frac{1}{2}$ to 3 lbs. each.



Coal Miners' Riddles.

We furnish these in any mesh desired. Heavy Oak Hoops, three-quarter to one and one-half inch mesh, eighteen, twenty and twenty-two inch diameter.

"Alton" Miners' Pipes.



We carry this Pipe especially for the miners. It is short and can be carried in the vest pocket. The bowl is the usual size. The above cut is full size of Pipe.

Made of brier, bone mouth-piece and nickel trimmings.

Geo. Anton "Star" Lamps.



This is the only genuine Anton Star Lamp, of which there are many imitations.

Made in three sizes:

No. 1, Anton Star Miners' Lamp.

No. 2, Anton Star Miners' Lamp.

No. 1, Anton Star Drivers' Lamp.

The No. 2 Miners' size is $\frac{1}{4}$ in. taller than the No. 1, and spout is $\frac{1}{8}$ larger at the top.

Beall Star Lamps.

Made in five sizes:

No. 1, Beall Star Miners' Lamps, same size as No. 1 Anton Miners' Lamp.

No. 2, Beall Star Miners' Lamps, same size as No. 2 Anton Miners' Lamp.

No. 3, Beall Star Miners' Lamps.

No. 5, Beall Star Drivers' Lamps, same size as No. 1 Anton Drivers' Lamp.

No. 6, Beall Star Drivers' Lamps.

Anton Miners' and Drivers' Brass Lamps.

Sides and bottom all one piece.

Miners' Lamps, double spout.

Drivers' Lamps, double spout.

Anton Miners' and Drivers' Copper Lamps.

Miners' Lamps, double spout.

Drivers' Lamps, double spout.

Miners' and Drivers' Lamps.

Genuine Frostburg Drivers' Lamps.

Our Own Make.



Genuine Frostburg Drivers' Lamps.

Made with large, small and long single spout, and double spout.

Shield, drivers'.

This lamp is the best made Lamp in the market; is made of the heaviest and best tin that is manufactured. It is called by many the Coffee Pot Lamp. It is the old Genuine Frostburg pattern. They are put up 1 dozen in a box. See that each Lamp is stamped with our trade mark, same as cut.

Eagle Miners' and Drivers' Lamps.



Miners' Size.

This Lamp we can furnish in either brass or tin.



Drivers' Size.

Dunlap Lamps.



Drivers' Lamp.

Made of one piece. Not a drop of solder used.

Dunlap Miners' Lamps, packed one dozen in a box.

Dunlap Drivers' Lamps, packed one dozen in a box.

Dunlap Shield Drivers', reinforced spout; packed one-half dozen in a box.



Miners' Lamp.

Other Brands.

No. 2, Sunshine Miners' Lamps.

No. 4, Sunshine Drivers' Lamps.

Frostburg Common Miners' Lamps.

Frostburg Common Drivers' Lamps.

Common Miners' Lamps.

Blasting Paper.



We carry in stock this Paper in 9 and 12 in. widths, in 2½ to 6 lb. rolls.

Five rolls to each bundle, securely tied.

Each roll bears our own label.

Blasting Fuse.



Best made.

Single Tape.

Double Tape.

Cotton.

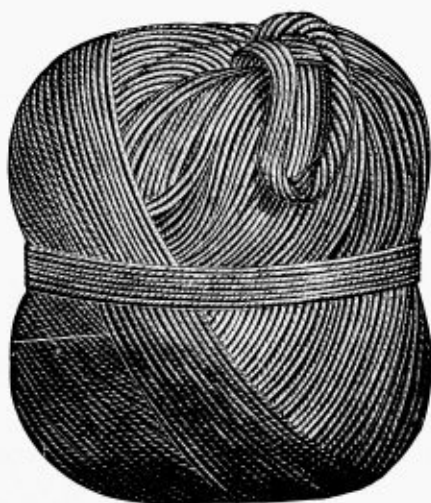
Put up 100 feet to each roll; 6,000 feet to each case.

Miners' Ball Lamp Wick.

This Wick is made especially for miners' use.

Packed in bales of 5 lbs.

We have it in extra fine and medium fine.



Miners' Dinner Buckets.



Made of good quality Tin, High Tray, High Bail ;
Lids fit tightly. Chime on
Lid, $\frac{7}{8}$ in. wide.

- 4 qt. Tin Bucket, 1 doz. to crate.
- 5 qt. Tin Bucket, 1 doz. to crate.
- 6 qt. Tin Bucket, 1 doz. to crate.
- 4 qt. Granite Bucket, 1 doz. to case.
- 5 qt. Granite Bucket, 1 doz. to case.
- 6 qt. Granite Bucket, 1 doz. to case.
- 4 qt. Retinned Bucket, 1 doz. to case.
- 5 qt. Retinned Bucket, 1 doz. to case.
- 6 qt. Retinned Bucket, 1 doz. to case.

Miners' Powder Can.

Air Tight.

- 1 gal. Tin.
- $\frac{1}{2}$ gal. Tin.
- 1 gal. Galvanized.
- Special Galvanized, holds $\frac{1}{2}$ keg powder.

We can furnish the above with either Bails
or Handles, or with both,
if so desired.



Miners' Belt Oil Cans.

A handy article for miners to carry a day's supply of oil for lamp, and so arranged with two straps for belt that they can be carried on the belt.



- 1½ pt. Heavy Tin.
- 1 pt. Heavy Tin.
- ½ pt. Heavy Tin.
- 1½ pt. Galvanized.
- 1 pt. Galvanized.
- 1 pt. Copper.

1 pt. Galvanized Combination Oil Can and Match Box.

Miners' Pocket Oil Cans.

Can be carried in the pocket.

- 1 pt. Tin, oval shape.
- ½ pt. Tin, oval shape.

A handy article.



Coffee or Water Canteens.



- 1 qt. Tin, heavy.
- 2 qt. Tin, heavy.

Miners' Oil Can.

1 gal. Tin.

$\frac{1}{2}$ gal. Tin.

1 gal. Galvanized.

Made especially for
miners' use.



"Alton" No. 1 Miners' Oil

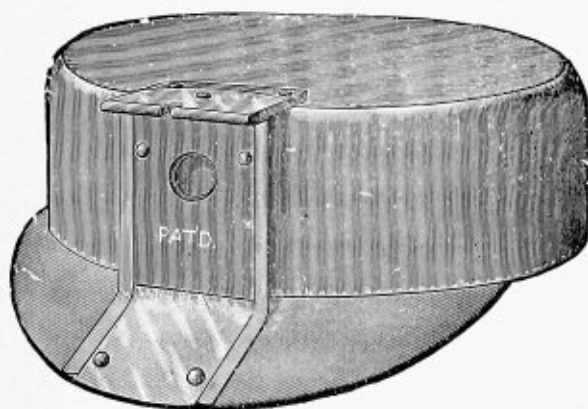
This Oil is made especially for miners' use, and is the best for the purpose.

File Cases.



Made of Heavy Block Tin. A handy case for miners to carry files in. We manufacture them to hold 8, 10, 12 and 14 in. files.

New Coal Miners' Cap.



Our Latest No. 9 Attachment, Fiber and Tin Front.

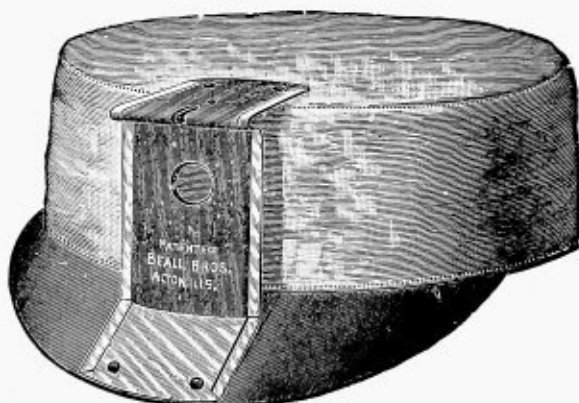
We make them in White or Brown Duck, Oil Cloth and Leather Visor.

1 doz. in each box.

No. 1 Miners' Cap.

We make them in either White or Brown Duck. Cheaper than No. 9 Cap on account of attachment, but of the same grade Duck.

1 doz. in each box.



No. 3 Miners' Cap.

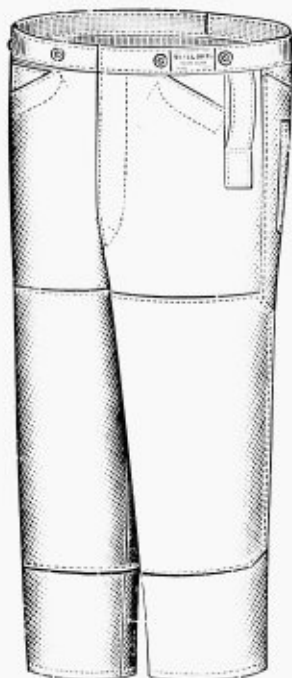
This is a cheaper Cap than either No. 9 or No. 1.
Made in Brown only.

Take Notice.—Our No. 9 Cap is put up in solid sizes, from $6\frac{1}{2}$ to $7\frac{1}{2}$, but when you don't state sizes we will send them assorted from $6\frac{3}{4}$ to $7\frac{1}{4}$.

No. 1 we carry put up in boxes of one dozen, sizes ranging from $6\frac{3}{4}$ to $7\frac{1}{4}$.

No. 3 carried only in Brown, put up in one dozen lots, ranging from $6\frac{3}{4}$ to $7\frac{1}{4}$.

Miners' Overalls.



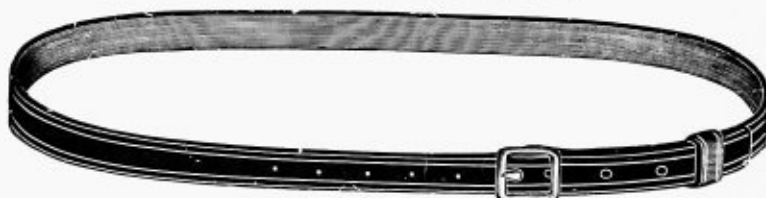
Beall's Best, made from eight ounce White, Blue, or Brown Duck, Double Kneed, Double Seated, a good fit, Patent Buttons, with straps on for Duck or Leather Belts.

XX Grade, made in White only; same as above, excepting the knee and seat patches are smaller.

No. 4150. A cheap Blue Overall for ordinary usage.

Any sizes wanted.

Miners' Leather Belts.

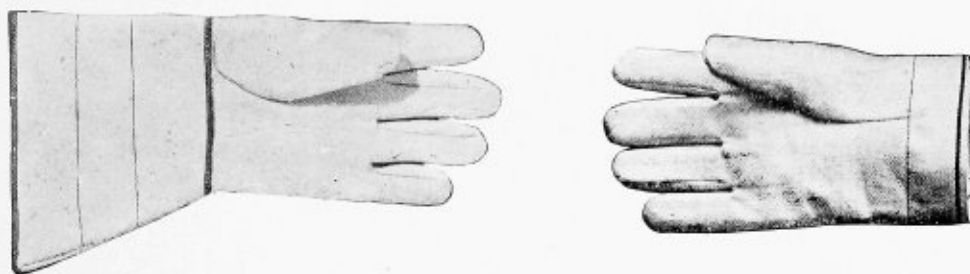


Made of best selected leather, with extra strong buckle in 1 and 1¼ in. widths; any size.

Miners' White Duck Belts.

This Belt is made of 8 oz. White Duck, with leather ends. Any size.

Miners' Gloves.



We carry in stock a full line of Canvas Gloves for miners' use, in both the short and gauntlet wrist.

Waste.

We carry in stock White and Colored Waste in 50 lb. bales.

No. 1 White. No. 2 White. No. 3 Colored.

Match Boxes.



Round Match Box.

We carry in stock two styles of Match Boxes for miners' use,
Round and Flat Boxes.

"Alton" Miners' Squibs.



A Test of This Squib will Satisfy Any Miner of Its Good Qualities.

The new "Alton" Miners' Improved Squib consists of a tube having an inner match coated or saturated with a rapidly burning substance, and an outer match secured to the tube over the inner match. The match on this Squib cannot be blown off.



You do not have to **pinch** or **bite** off the **end** of this **squib** as with many other makes. It is a matter of fact, and has been proven, that pinching or biting off the end often makes them shoot back.

We guarantee one-third more powder and of better quality than any other Squib on the market. One hundred Squibs to one box, 100 boxes to one case.

We also keep on sale American, Dadow & Beadle, and Powell's Squibs, which we will furnish at lowest prices.

Gas Squibs of any of the above brands in stock.

Squib Boxes.

Oval Pattern. Made of Heavy Tin.



We have a full line of Squib Boxes, holding 100 Squibs.

A handy article to carry Squibs in to keep them from the damp or getting lost.

Miners' Hand Saws.

Beech Handles, Polished Edges, Brass Screws.

A very desirable tool for miners.



We have them from 5 to 9 points to the inch. In ordering, give number of teeth to the inch wanted.

One-Man Saws.

We carry a complete stock of the above in lengths from 2½ to 3 feet.

Miners' Files.



We carry a full stock of the leading brands of Files for special use of miners for sharpening Drills, etc., etc.

8, 10, 12 and 14 in. Flat Mill Saw Files.

Also keep in stock all sizes and makes, but the above are mostly used by our customers in mining districts. A discount furnished on other sizes on application.

Hollow Back Coal Shovels.

"D" or Long Handle.



Our first-grade Shovels all bear the "**Beall's Xtra**" brand labels, and we use the best of handles and crucible steel in making them.

Our second-grade Shovels bear the "**Piasa Bird**" brand label.

The third-grade Shovels bear the "**Bluff City**" label.

The fourth-grade has on the label, "**Made by Beall Shovel Co.**"

Our "**Beall's Xtra,**" first-grade, "**Piasa Bird,**" second-grade, have "*Beall Bros., Crucible Steel,*" stamped on the socket part of Shovel, and they are fully guaranteed.

LIST PRICES.

First Grade. Black. Size.	Per Doz.	Second Grade. Black. Size.	Per Doz.	Third Grade. Black. Size.	Per Doz.	Fourth Grade. Black. Size.	Per Doz.	Size.	Dimensions.	
									Width.	Length.
1	\$14.00	1	\$11.50	1	\$ 9.00	1	\$ 8.00	1	13½ in.	14 in.
2	14.50	2	12.00	2	9.50	2	8.50	2	14¼ in.	14½ in.
3	15.00	3	12.50	3	10.00	3	9.00	3	14¾ in.	15 in.

Half or Full Polished, add 50 cents
per dozen to list price.

Hollow Back Ore Shovels.

"D" or Long Handle.



This Shovel bears the same labels as our other Shovels, and are made from 16 gauge steel, which makes them very light, and we make them with a low lift for the low coal veins of Illinois, Iowa and Kansas, and without you order otherwise they will be sent in the 16 gauge with low lift, but we can make them in heavy steel to handle ore or heavy materials. We also make them with short handles for use in thin veins of coal, and in ordering state clearly the length and lift of handle wanted.

LIST PRICES.

First Grade. Black.		Second Grade. Black.		Third Grade. Black.		Fourth Grade. Black.		Dimensions.	
Size.	Per Doz.	Size.	Per Doz.	Size.	Per Doz.	Size.	Per Doz.	Width.	Length.
4	\$14.50	4	\$12.00	4	\$ 9.50	4	\$8.50	4	10 $\frac{3}{8}$ in. 13 $\frac{1}{8}$ in.
5	15.00	5	12.50	5	10.00	5	9.00	5	11 $\frac{3}{8}$ in. 13 $\frac{1}{2}$ in.
6	15.50	6	13.00	6	10.50	6	9.50	6	12 in. 14 in.

Half or Full Polished, add 50 cents
per dozen to list price.



Plain Back Mining Machine Shovel.

Long Handle, with Malleable "D."
Black.

LIST PRICES.

	Grade: A-1 Extra, Brand: Illinois.	A-1. Beall's Extra.	B-2. Piassa Bird.
Size 2, .	\$18.00	\$16.50	\$14.00
Size 3, .	18.50	17.00	14.50
Size 4, .	19.00	17.50	15.00

Silver King, Solid Socket.

Square Point, "D" or Long Handle, Polished.
Round Point, "D" or Long Handle, Polished.
Spades, "D" or Long Handle, Polished.
Moulder's, "D" or Long Handle, Polished.
Irrigating, "D" or Long Handle, Polished.

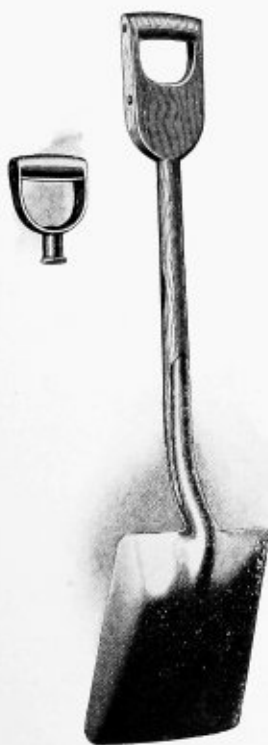




**Hollow Back
Shovels
and
Spades.**

"D" or Long Handle.

Write us for
prices.



**Plain Back Shovels
and Spades.**

"D" or Long Handle.

‡ This style Shovel is generally used for handling macadam, etc., where a high-grade Shovel is necessary,

All our high-grade Shovels are made of best cast tool steel.

Solid Cast Steel Scoops.

Eastern Pattern or Locomotive Scoops,
narrow mouth.

"D" or Long Handle.

Made in sizes
2 to 8.

Warranted.



Western Pattern Grain Scoops.

Wide mouth.

Made in sizes
4 to 12.

Warranted.

Crow Bars.



Wedge or Pinch Point. Solid Steel.

Any weight, 12c per lb.

Mine Claw Bar.



With or Without Heel.

Any Weight.

Solid Steel.

Wrecking or Carpenter Bars.



Crucible tool steel.

Size of steel $\frac{3}{4}$ in.; length 22 to 30 in.

Made with claw on one end, and with round or chisel point on the other.

"Alton" Coal and Coke Forks.



We use the best CRUCIBLE STEEL in the manufacture of Forks, and they can be relied upon to endure the most severe service required of them. Each fork is tested before shipment, and no pains spared to make them the best in the market.

	Per Doz.		Per Doz.
8 Tine,	\$20.00	14 Tine,	\$33.00
10 "	25.00	16 "	40.00
12 "	28.00	18 "	48.00

Mine Hames.

We carry in stock a complete line of the Beagle brand low top Mine Hames, in all sizes.

Trace Chain Pipes.

We also carry Trace Chain Pipes for mine mule harness.

Soldering Coppers.



We manufacture a complete line of Soldering Coppers, including Bottoming, Roofing and Diamond Pointed Copper.

3 lbs. per pair and heavier, base	
2½ lbs. per pair,	1c per lb. extra
2 lbs. per pair,	2c per lb. extra
1½ lbs. per pair,	3c per lb. extra
1 lb. per pair,	6c per lb. extra

Mine Track Jacks.



A Two-Ton Single Acting Jack.

No. 502B Ratchet Jack. Particularly adapted for mine use, being of ample capacity for the work for which it is intended, and is very convenient for use in cramped locations. It is single acting, operating on the downward stroke of the lever. Very simple and nothing to get out of order, and no springs to become rusted out by mineral waters.

It is useful also on narrow gauge roads, and for use in connection with wagons.

The 502B is more substantial than the usual jack of this type. It is well constructed throughout and particularly high grade for a small capacity jack.

Capacity. Tons.	Height Bar Down. Inches.	Rise of Bar. Inches.	Height Bar, Raised. Inches.	Weight. Pounds.	Code Word.	List Price.
2	18½	10	28½	28	Digger	\$10.00

Vulcan Patent Drop Forged Chain Pipe Wrench.



With Flat Link Chain.

PRICE LIST.

Size.	No. 10	No. 11	No. 12	No. 13	No. 13½	No. 14	No. 15	No. 16
Price, with Flat Link Chain, each, . . .	\$2.50	\$3.50	\$5.00	\$7.00	\$9.00	\$11.00	\$18.00	\$40.00
Price, with Cable Chain, each, . . .	2.25	3.25	4.50	6.25	7.75	9.50	16.00	40.00
Capacity, size pipe, inches, . . .	¼ to ¾	¾ to 1½	¾ to 2½	¾ to 4	1 to 6	1½ to 8	2 to 12	4 to 18

Discount.....

Stillson Patent Wrench.



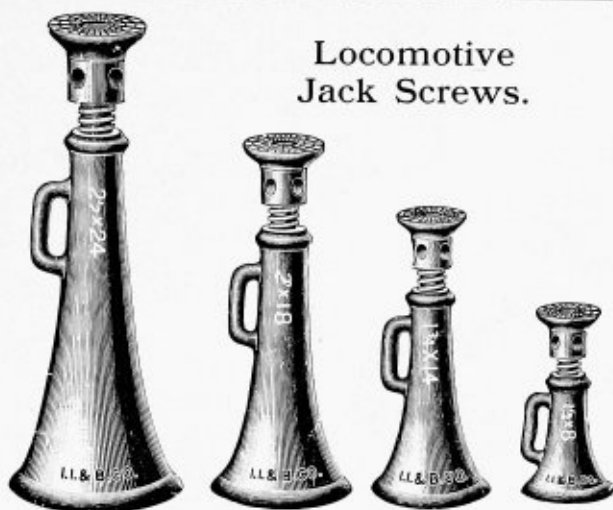
PRICE LIST.

Length, inches.	6	8	10	14	18	24	36	48
Price, each, . . .	\$2.00	\$2.00	\$2.25	\$3.00	\$4.00	\$6.00	\$12.00	\$18.00
Jaw, . . . . .	.75	.75	.80	1.00	1.33	2.10	4.75	7.25
Frame, . . . . .	.35	.35	.40	.50	.55	.80	1.30	1.50
Steel Handle, . . .	.95	.95	1.10	1.45	2.10	3.20	6.40	9.25
Nut, . . . . .	.11	.11	.14	.17	.22	.35	.55	.95
Wood Handle, . . .	.16	.16	.18	.25	.28	----	----	----

Bolts.

We are prepared to furnish Bolts of all descriptions.
In ordering, state clearly style and size Bolt wanted.

Locomotive Jack Screws.



PRICE LIST.

Diameter of Screw.	Height of Stand.	Price.	Diameter of Screw.	Height of Stand.	Price.
1 1/4 in.	4 in.	\$ 2.90	2 1/4 in.	8 in.	\$ 7.50
1 1/4 in.	6 in.	3.10	2 1/4 in.	10 in.	8.25
1 1/4 in.	8 in.	3.40	2 1/4 in.	12 in.	9.00
1 1/4 in.	10 in.	3.80	2 1/4 in.	14 in.	10.00
1 1/4 in.	12 in.	4.20	2 1/4 in.	16 in.	11.00
1 1/4 in.	14 in.	4.60	2 1/4 in.	18 in.	12.00
1 1/2 in.	4 in.	3.25	2 1/4 in.	20 in.	13.25
1 1/2 in.	5 in.	3.50	2 1/4 in.	22 in.	14.50
1 1/2 in.	6 in.	3.75	2 1/4 in.	24 in.	15.75
1 1/2 in.	8 in.	4.25	2 1/2 in.	6 in.	7.75
1 1/2 in.	10 in.	4.75	2 1/2 in.	6 1/2 in.	8.00
1 1/2 in.	12 in.	5.25	2 1/2 in.	8 in.	8.75
1 1/2 in.	14 in.	6.00	2 1/2 in.	10 in.	9.75
1 1/2 in.	16 in.	6.75	2 1/2 in.	12 in.	10.75
1 3/4 in.	6 in.	4.50	2 1/2 in.	14 in.	12.00
1 3/4 in.	8 in.	5.00	2 1/2 in.	16 in.	13.25
1 3/4 in.	10 in.	5.75	2 1/2 in.	18 in.	14.50
1 3/4 in.	12 in.	6.25	2 1/2 in.	20 in.	15.75
1 3/4 in.	14 in.	6.75	2 1/2 in.	22 in.	17.00
1 3/4 in.	16 in.	7.50	2 1/2 in.	24 in.	18.25
1 3/4 in.	18 in.	8.50	2 1/2 in.	26 in.	20.00

Discount.....	Capacity.	For height over all add to height of stand.	Capacity.	For height over all add to height of stand.	
1 1/4 in. screws	10 tons	2 1/4 in.	2 1/4 in. screws	24 tons	3 1/4 in.
1 1/2 in. screws	12 tons	2 1/2 in.	2 1/2 in. screws	28 tons	4 in.
1 3/4 in. screws	16 tons	2 3/4 in.	3 in. screws	36 tons	4 1/2 in.
2 in. screws	20 tons	3 1/4 in.			

Lever will be sent only when ordered, and will be charged extra. For any size not mentioned write for prices.

"Trimo" Monkey Wrench.



PRICE LIST.

Inches.....	8	10	12	15	18
Per doz.....	\$10.00	\$12.00	\$14.00	\$24.00	\$30.00

Other sizes to follow.

All Drop-Forged Steel-Case Hardened. Guaranteed the Strongest Monkey Wrench Made.

A new feature in Monkey Wrenches. The leverage is increased in proportion to the size of the nut, as the jaw is extended forward to adjust. The larger the nut, the longer the leverage.

MINERS' SHOES.



No. 1.

No. 1 Grade, Extra Brand.

Men's Split, Outside Sole Leather Counter, Double Sole, Miners' Cone Headed Nailed, Heel Plate, Gusset, Dom Pedros.

Sizes 6 to 11.

No. 2 Grade, Royal Brand.

Same as No. 1 Grade, without the Leather Counter and Heel Plate.

No. 3 Grade, Blue Label Brand.

Men's Split, Double Sole, Miners' Hungarian Nailed, Gusset, Dom Pedros.

Sizes 6 to 11.



No. 3.

No. 4 Grade, Rival Brand.

Men's Split, Outside Leather Counter, Double Sole, *unnailed*, Gusset, Dom Pedros.

Sizes 6 to 11.



No. 4.

MINERS' SHOES.

No. 5 Grade, Climax Brand.



No. 5.

Men's Split, Double Sole, *unnailed*, Gusset Dom Pedros.

Sizes 6 to 11.

No. 6 Grade, Excelsior Brand.

This Shoe is made with Cone Headed Nails, with Steel Heel Counter and with Steel Toe and Heel Plates.

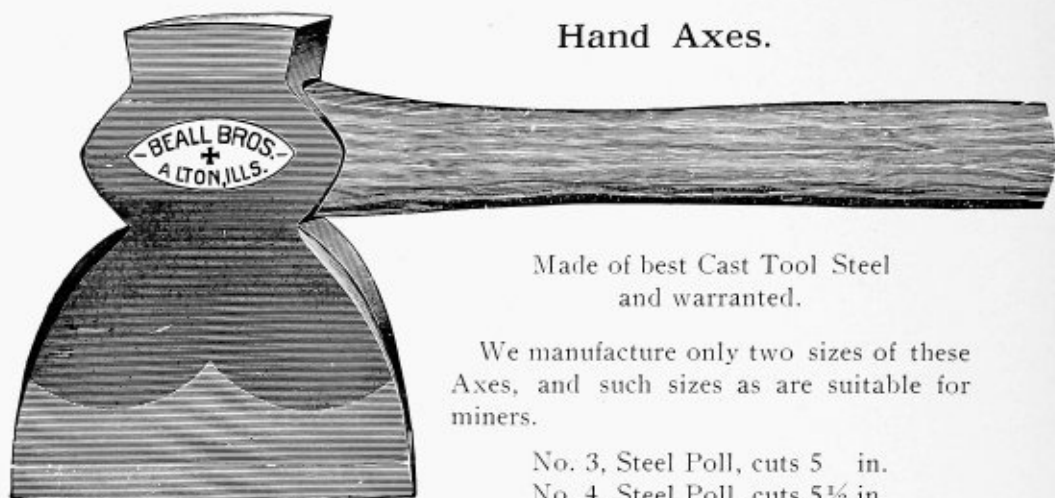
Sizes 6 to 11.

Russet Shoes.

No. 446, Outside Sole Leather Counter, *unnailed*.

No. 447, Outside Sole Leather Counter, *nailed*.

Hand Axes.



Made of best Cast Tool Steel
and warranted.

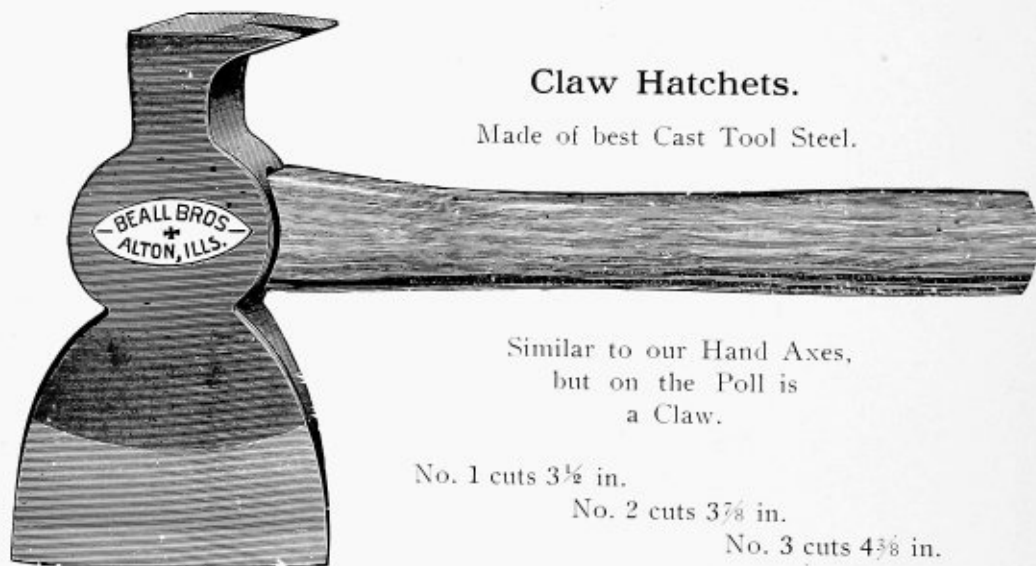
We manufacture only two sizes of these
Axes, and such sizes as are suitable for
miners.

No. 3, Steel Poll, cuts 5 in.

No. 4, Steel Poll, cuts 5½ in.

Claw Hatchets.

Made of best Cast Tool Steel.



Similar to our Hand Axes,
but on the Poll is
a Claw.

No. 1 cuts 3½ in.

No. 2 cuts 3¾ in.

No. 3 cuts 4¾ in.

Miners' Axes.

Made of best Tool Steel.

Put up one dozen in a crate, and we can furnish
them in any weight from 3 to 5 pounds.

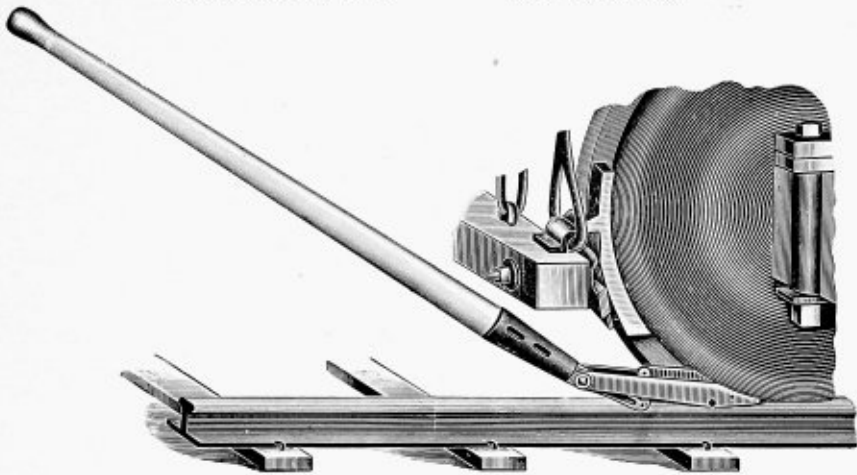
Axes, 3 to 5 pounds, handled, ready for use.



Atlas Car Mover.

Our Own Pattern.

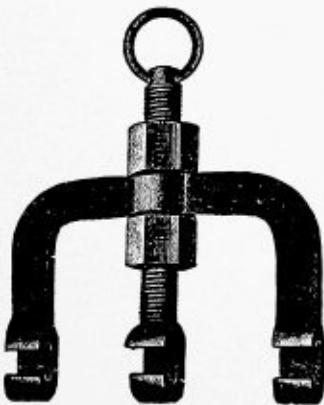
One-Piece Bar.



Before Using.

Compound Leverage. Try One.

Beall Bros'. Rail Benders.



Will Bend from 16 to 24 Pound Rails.



Will Bend from 8 to 16 Pound Rails.

Can Furnish Above to Bend Any Weight Rail.

We manufacture the above for 16 to 24 lb. Rails, either *Single* or *Double* Acting.
The illustration shows the *Double Acting* Rail Bender.

Manufacturers' Standard List of Wrought or Steel Plate Washers.



Adopted October 10th,
1895.

Diameter.	Size of Hole.	Thickness Wire Gauge No.	Size of Bolt.	Price per Pound.	Average Number in 100 lbs.
$\frac{3}{16}$	$\frac{1}{4}$	18 ($\frac{3}{16}$)	$\frac{3}{16}$	14.0	44,075
$\frac{1}{4}$	$\frac{5}{16}$	16 ($\frac{1}{8}$)	$\frac{1}{4}$	12.2	13,845
$\frac{7}{8}$	$\frac{3}{8}$	16 ($\frac{1}{8}$)	$\frac{5}{16}$	11.4	11,220
1	$\frac{7}{8}$	14 ($\frac{5}{16}$)	$\frac{3}{8}$	10.5	6,573
$1\frac{1}{4}$	$\frac{1}{2}$	14 ($\frac{5}{16}$)	$\frac{7}{8}$	9.7	4,261
$1\frac{3}{8}$	$\frac{9}{16}$	12 ($\frac{3}{16}$)	$\frac{1}{2}$	9.2	2,683
$1\frac{1}{2}$	$\frac{5}{8}$	12 ($\frac{3}{16}$)	$\frac{9}{16}$	9.1	2,249
$1\frac{3}{4}$	$1\frac{1}{16}$	10 ($\frac{1}{8}$)	$\frac{5}{8}$	9.0	1,315
2	$1\frac{3}{16}$	10 ($\frac{1}{8}$)	$\frac{3}{4}$	8.8	1,013
$2\frac{1}{4}$	$1\frac{1}{8}$	9 ($\frac{5}{16}$)	$\frac{7}{8}$	8.8	858
$2\frac{1}{2}$	$1\frac{1}{16}$	9 ($\frac{5}{16}$)	1	8.8	617
$2\frac{3}{4}$	$1\frac{1}{4}$	9 ($\frac{5}{16}$)	$1\frac{1}{8}$	8.8	516
3	$1\frac{3}{8}$	9 ($\frac{5}{16}$)	$1\frac{1}{4}$	9.0	403
$3\frac{1}{4}$	$1\frac{1}{2}$	8 ($\frac{1}{4}$)	$1\frac{3}{8}$	9.0	280
$3\frac{1}{2}$	$1\frac{5}{8}$	8 ($\frac{1}{4}$)	$1\frac{1}{2}$	9.2	240
$3\frac{3}{4}$	$1\frac{3}{4}$	8 ($\frac{1}{4}$)	$1\frac{5}{8}$	9.2	245
4	$1\frac{7}{8}$	8 ($\frac{1}{4}$)	$1\frac{3}{4}$	9.5	220
$4\frac{1}{4}$	2	8 ($\frac{1}{4}$)	$1\frac{7}{8}$	9.5	190
$4\frac{1}{2}$	$2\frac{1}{8}$	8 ($\frac{1}{4}$)	2	9.5	170
$4\frac{3}{4}$	$2\frac{1}{4}$	6 ($\frac{3}{16}$)	$2\frac{1}{4}$	10.0	100
5	$2\frac{3}{8}$	5 ($\frac{7}{32}$)	$2\frac{1}{2}$	10.0	90

When ordering, state number of *pounds* wanted.

INDEX.

A	Page	O	Page
Axes, Hand.....	52	Oil Cans, Belt.....	33
Axes, Miners'.....	52	Oil Cans, Miners'.....	34
		Oil Cans, Pocket.....	33
B		Oil, Miners'.....	34
Belts, Miners' Leather.....	36	Overalls, Miners'.....	36
Belts, Miners' White Duck.....	36		
Bits, Chain Machine.....	11	P	
Blasting Barrels.....	22	Patent Picks, Black Diamond.....	8
Blasting Fuse.....	31	Patent Picks, Scott.....	8
Blasting Paper.....	31	Picks, "Alton" Adze Eye Cutting.....	7
Buckets, Miners' Dinner.....	32	Picks, "Alton" Coal Poll.....	7
		Picks, "Alton" Gold and Silver Mining.....	9
C		Picks, "Alton" Lead and Zinc Mining.....	9
Canteens, Coffee or Water.....	33	Picks, "Alton" Long Ear Cutting.....	6
Caps, Miners'.....	35	Picks, "Alton" Long Ear Mining.....	6
Carpenters' Bars.....	45	Picks, "Alton" Railroad.....	10
Car Movers, Atlas.....	53	Picks, "Alton" Short Ear Cutting.....	6
Chargers.....	22	Picks, "Alton" Short Ear Mining.....	6
Claw Bars.....	45	Picks, Dutch Pick Head and Point.....	7
Crow Bars.....	45	Pick Eyes, Drifting.....	10
		Picks, Special Pattern Coal.....	7
D		Pipes, "Alton" Miners'.....	27
Drills, "Alton" Grip.....	17	Powder Cans.....	32
Drills, "Alton" Post.....	16	Puncher Picks, Machine.....	11
Drills, "Alton" Ratchet Rock.....	19		
Drills, Breast.....	22	R	
Drills, "B. L." Notched Post.....	20	Rail Benders.....	53
Drills, Birmingham Notched Post.....	18	Riddles, Coal Miners'.....	27
Drills, Copper Tamp.....	24		
Drills, Double Bit.....	23	S	
Drills, Iowa Grip.....	21	Saws, Miners' Hand.....	39
Drills, Peoria Grip.....	21	Saws, One Man.....	39
Drills, "QY" Arm Box Grip.....	15	Scoops.....	44
Drills, "QY" Notched Post.....	14	Scrapers.....	22
Drills, Single Bit.....	23	Scrapers, Combination Iron Tamp.....	23
		Scrapers, Combination Copper Tamp.....	24
F		Scrapers, Iron Spoon.....	23
File Cases.....	34	Scrapers, Iron Funnel.....	23
Files, Miners'.....	39	Shoes, Miners'.....	50-51
Forks, "Alton" Coal and Coke.....	46	Shovels, Coal.....	40
		Shovels, Mining Machine.....	42
G		Shovels and Spades, Hollow and Plain Backs.....	43
Gloves, Miners'.....	37	Shovels, Ore.....	41
		Shovels, "Silver King".....	42
H		Sledges, Long Pattern Coal.....	12
Hames, Mine.....	46	Sledges, Short Pattern Coal.....	12
Hammers, Double Faced Striking.....	12	Soldering Coppers.....	47
Hammers, Special Patterns.....	12	Spikes, Track.....	11
Handles.....	25-26	Squibs, "Alton" Miners'.....	38
Hatchets.....	27	Squib Boxes.....	38
Hatchets, Claw.....	52		
		T	
J		Tamping Bars, Copper Tipped.....	24
Jack Screws, Locomotive.....	49	Tamp Ends.....	24
		Trace Chain Pipes.....	46
L		Track Jacks, Mine.....	47
Lamps, Anton Miners' and Drivers'.....	28		
Lamps, Beall "Star".....	28	W	
Lamps, Dunlap.....	30	Washers.....	54
Lamps, Eagle Miners' and Drivers'.....	29	Waste.....	37
Lamps, Genuine Frostburg Drivers'.....	29	Wedges.....	13
Lamps, Other Brands.....	30	Wick, Lamp.....	31
		Wrecking Bars.....	45
M		Wrench, Chain Pipe.....	48
Match Boxes.....	37	Wrench, Stillson Patent.....	48
Mattocks.....	10	Wrench, "Trimmo" Monkey.....	49
N			
Needles, Copper.....	24		
Needles, Iron.....	23		



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