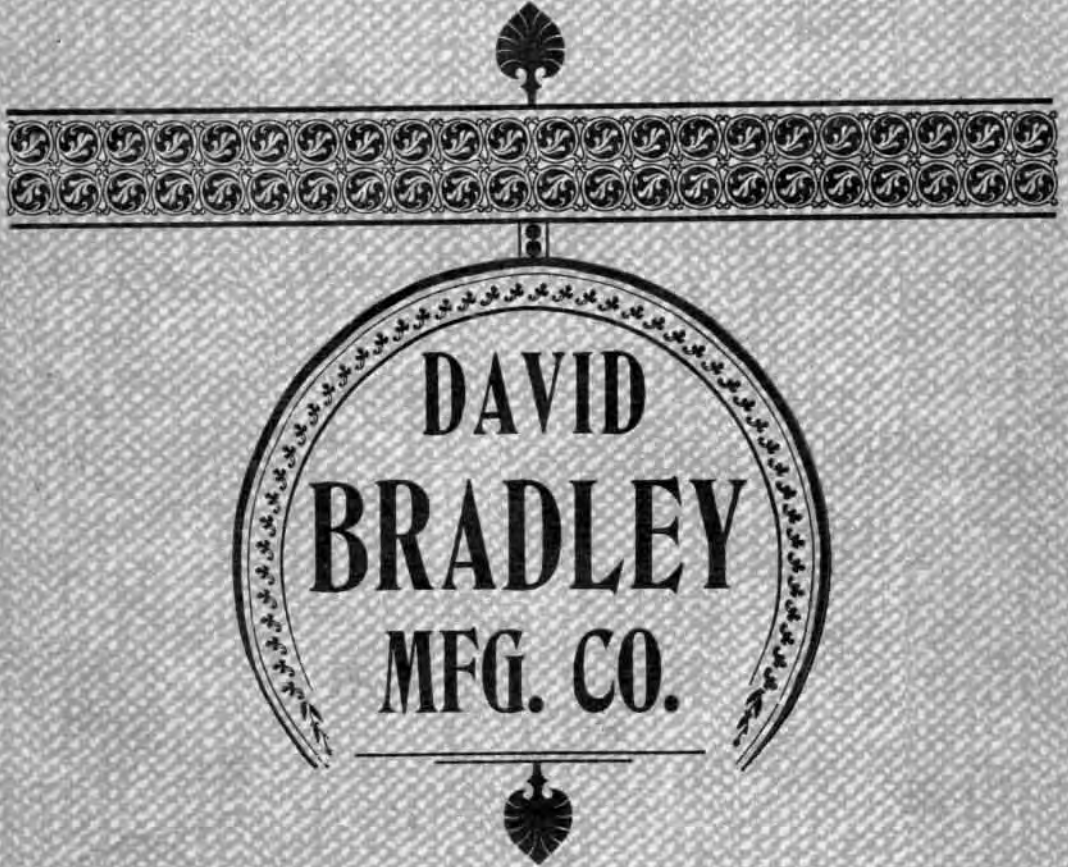


No. 8.

Illustrated Trade Catalogue



BRADLEY, ILL., U. S. A.

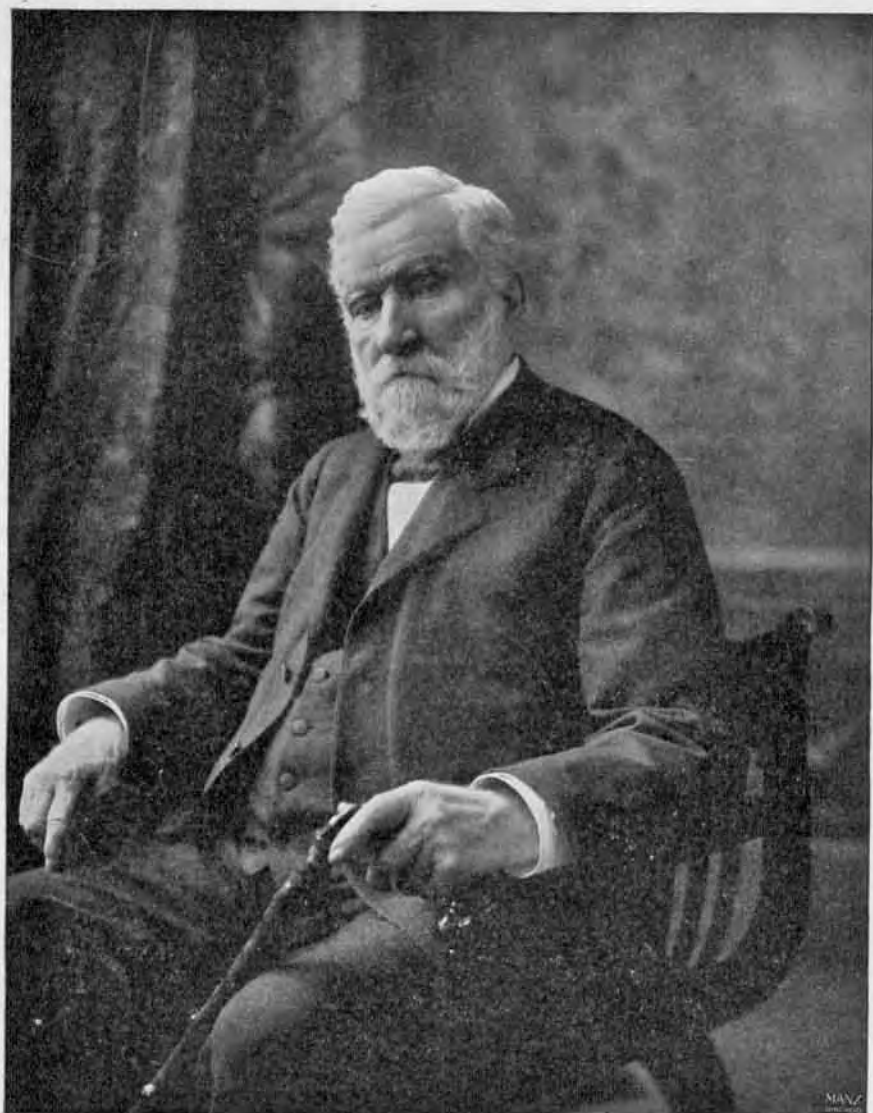


M. T. S.

MAY 31 1912

ENG. DEPT.

Donated by L. J. Reynolds ^{employed} 1952-1985



DAVID BRADLEY,

**President of the David Bradley Manufacturing Co.
and
The Oldest Plowmaker in America.**

A BIT OF PERSONAL HISTORY.

MR. DAVID BRADLEY, President of the DAVID BRADLEY MFG. Co, whose portrait occupies the opposite page, sat for the same a few days previous to the completion of his 87th year. He is now the oldest plow maker in the United States.

He worked at the plow business in Syracuse, N. Y., in 1832. In 1835 he came to Chicago, which then numbered about 2500 inhabitants and a camp of several thousand Indians, to help erect the first Foundry established there and was the first man to bring pig-iron into that city. In connection with the foundry was a machine shop and the establishment soon began, with its other business the manufacture of plows. Over half a century ago, he worked at the bench wooding "Garden City Clipper" plows whose name and fame have become world-wide. Going on from this he soon after had a plow shop of his own, and for fifty years saw it growing to larger and larger proportions, right in the very heart of Chicago, within ten minutes walk of the Court House, until it is one of the largest manufacturing establishments of agricultural implements, and until lack of room and the impossibility of getting suitable adjoining property compelled him to get larger ground space elsewhere, which he has finally done in this town, which has seen fit to honor his coming by taking upon itself his name.

He has the pleasure in these later days of reviewing a well spent life with few, if any regrets concerning business successes. He sees his sons actively engaged in the management of the Company, one as Vice-President and Treasurer and the other as Superintendent, while some of his "children's children" are growing up in a business which he founded and which he has seen grow to such agreeable proportions.

Always cheerful and happy, even under some business ordeals in the '50's" that would have made many a man give up in despair, he thus laid not only the foundations for a successful business, but also for a long life of health and contentment for himself and for a kindly and cheerful atmosphere in the household.



J. HARLEY BRADLEY,

Vice President and Treasurer of the
David Bradley Manufacturing Co.

Warehouse and Office
OF
DAVID BRADLEY & Co.,
Council Bluffs, Ia.



Cut shows the main building only, which is 75x150 feet, substantially built of brick, four stories and basement with good height between floors. This gives large and excellent storage room. In addition to this there are built upon the platforms on the north and west sides of the main building, iron covered sheds also enclosed on the sides with iron. The one on the west side extends 20 feet from the building to our joint C. B. & Q. and Milwaukee R. R. track, and is long enough to hold five cars at a time; while on the north side the shed extends 50 feet from the building, outside of which is an unloading platform 32 feet wide, reaching to our spur track from the C. B. & Q. R. R., and long enough to hold four cars at a time. Besides, there is a platform 125 feet long and 16 feet wide, west of the joint track, adjoining which are two wooden warehouses in which are kept wind mills, grinders, pumps, pipe, etc., etc.

Our Branch House:
BRADLEY, CLARK & Co.,
 Minneapolis, Minn.



This is a brick building 74x136 feet, four stories, with basement and sub-basement. It is thoroughly well built and good height between floors, giving, altogether 60000 square feet of floor space. Private tracks in the rear run along side of a large covered platform, affording first-class facilities for loading and unloading cars in all sorts of weather.

It is situated in the center of the business district, two blocks north of the West Hotel, is convenient to all the street car lines, and especially so to the electric lines between Minneapolis and St. Paul.

The sample floors are large, and are heated by steam during the winter months, making them very comfortable for those who call to look over the goods.

Our Branch House:
BRADLEY, ALDERSON & Co.,
Kansas City, Mo.



The main building is 96x110 feet, with six floors; and adjoining this a one-story annex 96x110 feet, giving altogether a little over 73000 square feet of floor space. A broad shipping platform runs the entire length of the two buildings and extends out to a side track, on which six freight cars can be loaded or unloaded from this platform at one time. A switch in the alley also runs the entire length of both buildings which will accommodate six freight cars at a time.

The building is of brick with good space between floors and substantially built.

OUR PLANT.

THE illustration on opposite page gives a very good idea of our Plant so far as the arrangement of the buildings is concerned. A better comprehension of their uses and size can be got, however, from the following figures and description :

The two main buildings are each 400x80 feet, three stories high with basement. The blacksmith shop which adjoins the north end of the west or left-hand main building is 350x80 feet; the one story building at the left of and fronting with the main buildings is 200x50 feet; the foundry 209x80 feet, and the dry house 160x80 feet. There are, besides, the paint stock house, power house, coal sheds, etc.

We are located just East of the Illinois Central R. R. tracks, a side-track from which runs into the North end of our yards, while tracks from the Indiana, Illinois & Iowa R. R. enter at the South end as shown in cut. This enables us to receive our steel, iron, lumber, coal, etc., at the very doors of our warehouses; and to load our implements from our own platforms directly into the cars, under cover—several cars at a time.

A tank holding twenty thousand gallons of water, and elevated above the highest building, together with a reservoir or cistern holding eighty thousand gallons supply a very elaborate "Sprinkler System" with which the buildings are piped, providing the best known protection against fire.

The floor space of the entire plant is about 335,000 square feet. The East building is occupied as a warehouse excepting what is set apart for Offices, while the West building and its Northern extension—750 feet in length—is filled with a complete outfit of the latest machinery for the manufacturing of our implements.

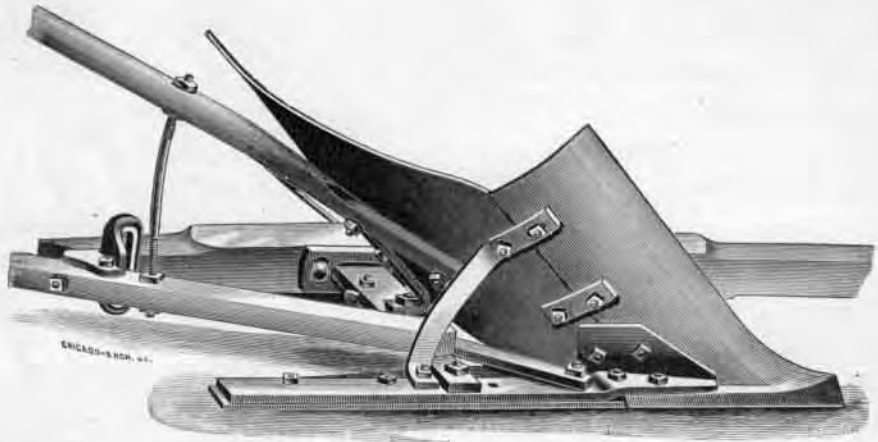
One of the pleasant things for us to think of, after being hemmed in, for years, in Chicago, is that we have plenty of room here. The ground occupied by our buildings, including yard is about ten acres, while adjoining our works we have twenty-six acres more.

With plenty of room we are able to make the best possible arrangement for quick dispatch in manufacturing, and shall be able to promptly supply the wants of our patrons.

DAVID BRADLEY MFG. CO.

Construction of the Celebrated "Garden City Clipper" Plows.

SEE DESCRIPTION ON PAGE 3.



THE cut above shows the construction of our LY45 series of stubble plows, with outside medium or tapering steel tempered landside; wrought frog welded to inner iron landside; standard braced at the bottom; and with standard cap slotted, and a slotted beam casting attached to handle which provide for adjusting the beam sideways to take more or less land. The welding of the wrought frog to the inner landside and our way of bolting it to share and moldboard, also a strap bolted to standard and running forward to the beam, a combined strap and brace connecting share, mold and landside, and our method of fastening lower end of landside handle to lower end of standard make an exceedingly strong yet light plow. The landside part of the share is broadened where it is welded to the underside of the point to give it strength and support.

BRANCH HOUSES:

DAVID BRADLEY & CO., - - - Council Bluffs, Ia.
BRADLEY, CLARK & CO., - - - Minneapolis, Minn.
BRADLEY, ALDERSON & CO., - - Kansas City, Mo.

AGENCIES:

KEATING IMPLEMENT AND MACHINE CO., - Dallas, Tex.
GEO. A. LOWE, - - - - - Ogden, Utah.
POLSON-WILTON HARDWARE CO., - - - Seattle, Wash.
E. P. BOSBYSELL, - - - - - Los Angeles, Cal.
LOUIS HOFFMAN HARDWARE CO., - - Vicksburg, Miss.

TRANSFER DEPOTS:

Chicago, Peoria, Springfield, Quincy and Bloomington, Ill.;
Des Moines, Cedar Rapids, Marshalltown and Hampton, Ia.;
Fond du Lac, Wis.; Indianapolis, Ind.; St. Louis, Mo ;
Portland, Ore.; Spokane, Wash.; Columbus, Ohio;
Baltimore, Md.

ILLUSTRATED AND DESCRIPTIVE

CATALOGUE No. 8

... OF ...

The Celebrated "Garden City Clipper"

PLOWS

Sulky Hay Rakes, Combined Check Row Planters and Drills,

Corn Shredding Fodder Huskers, Wheel Cultivators,

Harrows, Cotton Planters, Etc.

DISK HARROWS, DOUBLE CAM STEEL HAY PRESSES,

... AND OTHER ...

AGRICULTURAL IMPLEMENTS,

—MADE BY—



DAVID BRADLEY MFG. CO.

(Successors to FURST & BRADLEY MFG. Co.)

MAIN OFFICE AND
FACTORY  BRADLEY, ILL., U. S. A.

CHICAGO OFFICE:

63 North Desplaines Street.

 All Correspondence must be addressed to Bradley, Ill. 

INTRODUCTORY.

AS we said in our last catalogue, one of the principal reasons for our coming to Bradley was to get more room. Many years ago we located our factory in what is now the very heart of Chicago, within ten minutes walk of the Court House. As the years went on we added to our plant, from time to time, as long as there was any available adjoining property, until finally no more was to be had at a price which would admit of its use for factory and yard purposes. We saw that further needed enlargement of our quarters in Chicago was practically impossible, and that the premises already occupied was altogether too valuable to use for lumber yards and for buildings necessary to hold the stock of a well equipped manufactory in our line. We therefore set about finding out where we could secure larger and cheaper quarters without sacrificing good shipping facilities, which is a very important thing to think of in a business like ours. Some years were consumed in investigating the merits of various localities, finally resulting in the removal of our plant to this place. We have now been here nearly four years, and, far from having any regrets that we made this choice, we are, on the contrary, exceedingly well pleased. Room we have and plenty of it, for all prospective growth. Although our cramped condition in the Chicago works found vent in a much enlarged establishment here when we first came, we are still growing, and had to add a 50x200 feet brick building to our factory last year.

We are located 54 miles south of Chicago, at the junction of the Illinois Central, Cleveland Cincinnati Chicago and St. Louis, and the Indiana Illinois and Iowa Railroads. The Indiana Illinois and Iowa, and Illinois Central Roads intersect every railroad running out of Chicago except two, which two we connect with at Chicago. It will thus be seen that we have just as complete shipping facilities as we had in Chicago, as far as the number of railroads available are concerned, and we have VERY MUCH BETTER arrangements for loading and receiving goods, as the railroad tracks run into our yards and warehouses, thus enabling us to load several cars at a time, under cover, and directly from our platforms. So we are better prepared to serve you quickly so far as loading and transportation goes, than ever before, and our increased capacity for manufacturing and the installment of the very latest and most improved machinery and methods will, we trust, make it possible to promptly attend to the wants of our patrons in other respects.

A perusal of this catalogue will show you that we are still making the old reliables, to which have been added, from time to time, our now well known Force Drop Corn Planter, X Rays Sulky, XX Rays Gang, and several Cultivators; and later, Middlebreakers, both walking and riding, Fodder Shredding Corn Huskers and Hay Presses, all of which will be found illustrated and described herein.

As has been our policy ever since we began business, we shall spare no pains nor expense to produce goods of best quality, and suited to the latest and most advanced ideas of practical farmers and dealers.

DAVID BRADLEY MFG. CO.

THE "GARDEN CITY CLIPPER" PLOWS.

YEARS ago—over half a century—the words "Garden City Clipper" were adopted as a trade mark. Thus early they had won a name and it has grown with the years until it is a synonym of the best that can be produced in the plow line.

A CORRECT SHAPE was first thought of ; for these plows were first built with wooden moldboard and for years thereafter from untempered steel, so that hardening or tempering the steel was an after-thought. Well—as to shape, we could not always get what we wanted out of a winding tree, from which wooden moldboards were made, but when steel was substituted, ample opportunity was offered for study as to what are the best shapes for turning and pulverizing the soil, with lightest possible draft. For years we experimented with a view to getting a perfect shape. A plow enters the ground like a wedge, lifting and turning the furrow slice. How to do it and have the friction EQUALLY distributed over the moldboard so as NOT to wear in spots and not touch in others was the problem which we solved; so that to-day we have the finest shaped moldboard in the world.

Then came the idea of hardening the wearing surfaces, and it took a long time to get a perfectly hard surface. Some manufacturers have not accomplished it yet. If the tempered moldboard, share or landside is not thoroughly hardened ALL OVER ; that is to say, if there are soft spots or streaks in them, the sharp cutting soils of some localities will wear these spots away, and soon the sunken place catches and holds the clinging dirt and the plow fails to scour and rusts there, which spoils it. So when we say "uniformly hard tempered," it means a great deal. Our tempering processes are of our own devising and are exclusively ours. To sum up on these two points, we have claimed for years, and it is the general verdict with farmers, that we have the BEST SHAPED and the most UNIFORMLY HARD TEMPERED plows that are made, which means light draft and long wear, giving therefore entire satisfaction to the purchaser, and consequently to the dealer who handles them.

We double shin our plows on top, thereby gaining the wear of the entire shin piece in addition to what is usually got when shin is put underneath.

As shown by the cuts, we put a brace-rod from beam to furrow handle, on all wood beam plows cutting twelve inches or over. The points of our plows are made much heavier than formerly which makes them very strong and gives longer service.

We also make Chilled, Combination and Cast Iron Plows.

A detailed description of the sizes and styles of all of our plows will be found accompanying the cuts of same in this Catalogue.

PRAIRIE BREAKING PLOWS.

Our "BRADLEY" Breakers are made with slip share, the landside part of which is *welded on* instead of *turned down*. They have a broad share, lying nearly flat, which position improves its cutting qualities. They have not as bold a moldboard as is used by some manufacturers, consequently draw easier. The mold is shaped to lay the furrow-slice perfectly flat, with the least friction possible. They are intended for breaking up original prairie at a depth of 2 to 3 inches, for which they are amply strong, the timber being of best quality and the standard thoroughly braced, but are not suitable for timber land, nor for work where there are many stones or rocks.

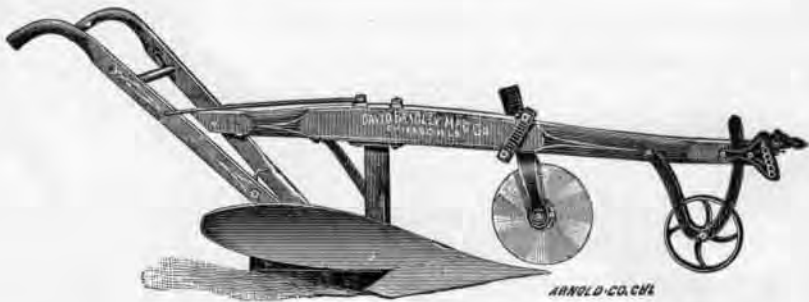


ARNOLD-CO. CHI

STEEL PRAIRIE BREAKER—Common Rigged.
With Standing Colter and Extra Share.

The cut above shows a breaker "common rigged," as we call it, except an extra share, which always goes with it. With a gauge wheel and a rolling colter instead of the standing colter shown, it would be an "extra rigged" breaker, as shown below.

WIDTH OF FURROW.	LIST PRICE.	STEEL SLIP SHARE.	STEEL MOLD-BOARD.	WEIGHT UNBOXED.	CODE WORD.		CODE WORD FOR MOLDBOARD.		CODE WORD FOR SHARE.	
					R. H.	L. H.	R. H.	L. H.	R. H.	L. H.
12 inch.	\$17.50	\$ 2.50	\$ 5.00	107 lbs.	Fleet ..	Flemish ..	Finting ..	Focus	Flesh	Fleshing
14 "	19.50	3.00	5.50	115 "	Flexible ..	Flight ..	Folding ..	Follage ..	Flimsy ..	Flinch ..
16 "	22.50	3.50	6.50	134 "	Fling	Flippant ..	Foolish ..	Footman ..	Flirt ..	Flirting ..
*18 "	26.50	4.00	8.00	182 "	Float .....	.....	Forbear ..	.....	Floating ..	.....
*20 "	30.50	4.50	8.50	238 "	Floral ..	.....	Forefend ..	.....	Flower ..	.....



ARNOLD-CO. CHI

STEEL PRAIRIE BREAKER—Extra Rigged.
With Rolling Colter, Gauge Wheel and Extra Share.

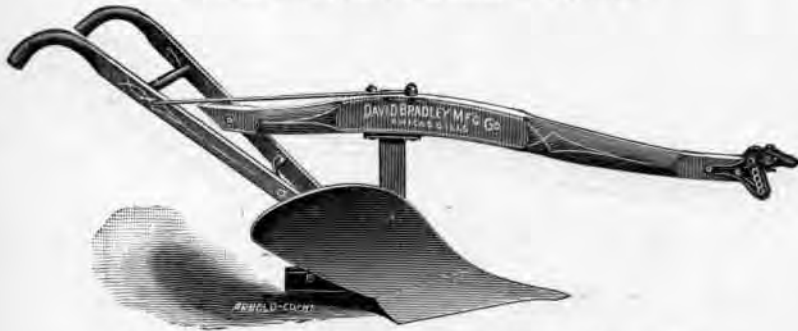
The difference between this and the "common rigged" breaker shown at top of page consists in the addition of a Gauge Wheel, and substituting a rolling for a standing colter.

WIDTH OF FURROW.	LIST PRICE.	STEEL SLIP SHARE.	STEEL MOLD-BOARD.	WEIGHT UNBOXED.	CODE WORD.		CODE WORD FOR MOLDBOARD.	CODE WORD FOR SHARE.
					R. H.	L. H.		
12 inch.	\$20.50	\$ 2.50	\$ 5.00	125 lbs.	Fodder ..	Foggy ..	Same as for Common Rigged.	Same as for Common Rigged.
14 "	22.50	3.00	5.50	134 "	Fondly ..	Fondness ..		
16 "	25.50	3.50	6.50	154 "	Foppish ..	Forage ..		

Trucks for Breakers, \$8.75—When wanted state for what size breaker.
* Not made left hand.

"GARDEN CITY CLIPPER" PLOWS.

(See Steel Beam Plow of this Series on next page.)



STEEL STUBBLE PLOW.—Wood Beam, Slip Share.
Hardened Moldboard, Share and Landside.

These Plows, as their name indicates, are intended for plowing stubble or old ground. The wearing parts are made from rolled plates of cast-steel and are highly tempered. This style has an outside "medium," or steel tapering landside, as shown in cut on next page. They have the inner landside or bar welded to the wrought frog. The price at which they are listed does not include an extra share. Chilled shares, of the steel share pattern, can be furnished for all sizes except 18 inch. A three-horse clevis is put on 16 and 18 inch plows, a two-horse on 14, 13 and 12 inch, and a one-horse clevis on plows cutting 11 inches or under.

No.	WIDTH OF FURROW	KIND.	List Price.	EXTRA STEEL SHARE	CHILLED SHARE.		STEEL MOLD-BOARD	STEEL LAND-SIDE	WEIGHT UNBOXED.
					Plain.	Cutter.			
* 14 193	10 inch.	Steel Tapering Landside.....	\$12.50	\$2.00	\$0.75	.....	\$4.50	\$1.25	68 lbs.
* 11 113	11 "	" " " " " " " " " " " "	13.00	2.75	.75	.....	4.50	1.25	71 "
31	12 "	Single Shin Steel Tapering Landside.....	13.75	3.00	.75	.....	5.00	1.25	72 "
L32	12 "	Double " " " " " " " " " " " "	14.75	3.00	.75	.....	5.00	1.25	73 "
34	13 "	Single " " " " " " " " " " " "	15.00	3.50	.80	.....	5.50	1.50	74 "
L35	13 "	Double " " " " " " " " " " " "	16.00	3.50	.80	.....	5.50	1.50	75 "
35	14 "	Single " " " " " " " " " " " "	16.25	3.50	.85	.....	5.50	1.75	88 "
L45	14 "	Double " " " " " " " " " " " "	17.25	3.50	.85	.....	5.50	1.75	90 "
71	16 "	Single " " " " " " " " " " " "	18.50	4.00	1.00	.....	6.50	2.00	99 "
L70	16 "	Double " " " " " " " " " " " "	19.50	4.00	1.00	.....	6.50	2.00	100 "
L89	18 "	" " " " " " " " " " " "	21.75	4.50	.....	.....	7.00	2.00	103 "

CODE WORDS FOR ABOVE AND FOR EXTRAS.

No.	PLOW.		MOLDBOARD.		STEEL SHARE.		CHILLED SHARE—PLAIN.		STEEL LANDSIDE.	
	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.
L15	Dabber		Dabby.....		Dacapo		Dace		Dacian	
L16	Dactyl.....		Dago		Dagoba		Dahlia.....		Dahoon.....	
31	Dally ...	Damask...	Dairy.....	Dairying ..	Damp	Dampen...	Daisy ...	Dallying ..	Dam	Damage ..
L32	Damning	Damnable.	Damnify ..	Damnific...	Dampish ..	Damper...	Dance	Dandle.....	Dander...	Dane
34	Dancing	Dandy	Dangr.....	Dandruff ..	Dangle	Darker	Dark	Darker	Darkly...	Darn
L35	Dawdle.	Dawdy	Dawning ..	Dawtish...	Day	Daybreak.	Daze	Daylight...	Dazzled ..	Daytime ..
37	Darken.	Darkness..	Dazzler...	Deanery ..	Darling	Darning ..	Dear	Dearly	Dearness ..	Deary
L45	Deathly.	Deathlike.	Debark...	Debarbed ..	Debarred ..	Debarring.	Debase	Debaser...	Debased ..	Debauch...
71	Dawn....	Dazzle....	Debater...	Debating ..	Dazzling ..	Deaden ..	Debit	Debt	Debtor	Decant
L70	Dead....	Deading ..	Deadness.	Deadening.	Decease...	Decedent..	Deceived ..	Deceiving.	Decide... ..	Deciding..
L89	Decisive	Decisively	Deck	Decker.....	Decked ...	Deckle ...	Decking ..	Declaim ..	Decline ..	Decliner..

We make right and left hand plows, of the style and sizes above named, except those marked with a "*" Right hand are always sent when orders do not call for left hand.

We do not guarantee extra moldboards to fit, when punched and tempered, therefore the party ordering must take the risk. They sometimes spring a little in tempering, in which case a perfect fit can only be made at the factory.

* Not made left hand.

"GARDEN CITY CLIPPER" PLOWS—Continued.

(See Wood Beam Plow of this Series on preceding page.)



STEEL STUBBLE PLOW.—Steel Beam, Slip Share.

Hardened Moldboard, Share and Landside.

These are identical, in all respects, with those illustrated on preceding page, except the beam and standard, and necessarily a slight change in the way of attaching the handles. A landside view is here given to show the shape of the "medium" or tapering steel landside, used on this series of plows.

When the letter "L" precedes the number, it indicates that the wrought frog is welded to the inner iron landside. All double shin plows of this series are so made.

No.	WIDTH OF FURROW	KIND.	List Price.	EXTRA STEEL SHARE	CHILLED SHARE.		STEEL MOLD-BOARD	STEEL LAND-SIDE.	WEIGHT UNBOXED.
					Plain.	Cutter.			
531	12 inch.	Single Shin Steel Tapering landside.	\$15.25	\$3.00	\$0.75	.....	\$5.00	\$1.25	81 lbs.
L533	12 "	Double " " " "	16.25	3.00	.75	.....	5.00	1.25	83 "
534	13 "	Single " " " "	16.50	3.50	.80	.....	5.50	1.50	91 "
L536	13 "	Double " " " "	17.50	3.50	.80	.....	5.50	1.50	93 "
540	14 "	Single " " " "	18.00	3.50	.85	.....	5.50	1.75	99 "
L545	14 "	Double " " " "	19.00	3.50	.85	.....	5.50	1.75	100 "
571	16 "	Single " " " "	20.50	4.00	1.00	.....	6.50	2.00	106 "
L570	16 "	Double " " " "	21.50	4.00	1.00	.....	6.50	2.00	109 "
L589	18 "	" " " "	24.00	4.50	.....	.....	7.00	2.00	110 "

CODE WORDS FOR ABOVE AND FOR EXTRAS.

No.	PLOW.		MOLDBOARD.		STEEL SHARE.		CHILLED SHARE—PLAIN.		STEEL LANDSIDE.	
	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.
531	Dean	Dearth	Declined	Declivity	Debar	Debasing	Decorate	Decorous	Decorum	Decoy
L533	Decrepit	Decreptily	Deery	Deerial	Decried	Decrier	Decrying	Decubitus	Dedicate	Dedicated
534	Decamp	Decanter	Deduce	Deduct	Decay	Decaying	Defacted	Defeated	Defect	Defended
L536	Defile	Definer	Defined	Definable	Definite	Definitely	Deflect	Deflected	Defray	Defrayed
540	Defeat	Defend	Defunct	Defy	Defense	Defence	Defied	Defying	Degraded	Deign
L545	Delaying	Delectate	Delegate	Delegated	Delicate	Delicately	Deliver	Delivered	Dell	Delph
571	Deform	Defraud	Delta	Delusion	Degrade	Degree	Demand	Demit	Demy	Den
L570	Density	Denoted	Dent	Dentagra	Dented	Dentate	Dentine	Dentition	Benude	Denuded
L589	Deploy	Deployed	Deport	Deported	Depose	Deposer	Deposed	Deposing	Deposit	Depositor

We make right and left hand plows, of the style and sizes above named. Right hand are always sent when orders do not call for left hand.

† We do not guarantee extra moldboards to fit, when punched and tempered, therefore the party ordering must take the risk. They sometimes spring a little in tempering, in which case a perfect fit can only be made at the factory.

"GARDEN CITY CLIPPER" PLOWS—Continued.



STEEL STUBBLE PLOW—Wood Beam, Slip Share. Hardened Moldboard.
Single Shln, Low Landside.

A landside view is here given to show the shape of the low landside, and our way of attaching handles to standard. This plow is wooded precisely the same as, and is identical in shape with, the one shown on preceding page, excepting the landside, which, instead of being a tapering steel plate as used on that plow, is a low iron landside. The landsides of this series of plows are not welded to the share, as are those of the plows shown below. The share is made from plates of hard rolled steel, of high natural temper.

No.	WIDTH OF FURROW	LIST PRICE	EXTRA STEEL SHARE	CHILLED SHARE.		STEEL MOLD-BOARD	OUTSIDE IRON LAND-SIDE.	WEIGHT UNBOX'D	CODE WORD.		CODE WORD FOR SHARE.	
				Plain.	Cutter.				R. H.	L. H.	R. H.	L. H.
E101	10 inch.	\$11.25	\$2.00	\$0.75	.....	\$4.50	\$0.70	64 lbs.	Discard	Disclaim..	Discover	Discuss.
E111	11 "	11.75	2.75	.75	.....	4.50	.75	67 "	Disdain	Disfavor..	Disgrace	Disguise
E121	12 "	12.50	3.00	.75	.....	5.00	.80	70 "	Disgrust	Dishonor..	Disjoin..	Dismal..
E131	13 "	13.50	3.50	.80	.....	5.50	.80	74 "	Dismiss.	Dismount..	Disorder	Disown..
E141	14 "	14.50	3.50	.85	.....	5.50	.90	87 "	Dispel...	Display...	Disprove	Dispute..



STEEL STUBBLE PLOW—Wood Beam, Long Bar Share. Hardened Moldboard.
Low Landside.

This has what is called a long-bar share, *i. e.*, the landside is welded to the share, which makes it somewhat stronger, and better adapted for use in stony or rooty ground. We do not furnish chilled shares of the long-bar pattern. We make left hand plows of this series.

No.		WIDTH OF FURROW	LIST PRICE	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.		CODE WORD FOR SHARE.	
R. H.	L. H.							R. H.	L. H.	R. H.	L. H.
10	10	11 inch.	\$11.75	\$3.50	\$4.50	The Landside of this series of plows is welded to the share, and it cannot be furnished separately.	67 lbs.	Domina	Dominance	Dominant	Dominate.
11	11	12 "	12.50	3.75	5.00		69 "	Dominator	Domine ...	Domineer..	Domineal.
12	12	13 "	13.50	4.25	5.50		75 "	Dominean.	Dominion..	Domino ...	Dominus..
13	13	14 "	14.50	4.25	5.50		85 "	Don	Donate...	Donation	Donative.
14	14	15 "	15.50	4.75	6.50		95 "	Donator	Done	Dongola...	Donkey....
15	15	16 "	16.50	4.75	6.50		96 "	Donor ...	Dont	Doodle ...	Doom.....

"GARDEN CITY CLIPPER" PLOWS—Continued.



STEEL STUBBLE PLOW—Steel Beam, Long-Bar Share. Hardened Moldboard.
Low Landside.

The only difference between this plow and the one shown at the bottom of preceding page, is in the beam; the moldboard and share being identical. Chilled shares of the long-bar pattern are not furnished.

No.		WIDTH OF FURROW	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.		CODE WORD FOR SHARE.	
R. H.	L. H.							R. H.	L. H.	R. H.	L. H.
52 107	52 108	10 inch.	\$12.50	\$2.75	\$4.50	Landside is a part of the long-bar Share.	82 lbs.	Door.....	Doorway..	Dooryard..	Dope.....
52 117	52 118	11 "	13.25	3.50	4.50		84 "	Dopper..	Dorian....	Doric.....	Doris.....
52 127	52 128	12 "	14.00	3.75	5.00		85 "	Dorize..	Dorking...	Dormancy.	Dormant..
52 137	52 138	13 "	15.00	4.25	5.50		91 "	Dormer..	Dormitive.	Dormitory.	Dormouse.
52 147	52 148	14 "	16.25	4.25	5.50		96 "	Dornick.	Dorsa.....	Dorsal....	Dorsum....
52 157	52 158	16 "	18.50	4.75	6.50		108 "	Dory....	Dosage....	Dose.....	Dosimeter.



STEEL CORN PLOW—Wood Beam, Slip Share. Hardened Moldboard.
Single Shin, Low Landside, Slip Share.

These are of the stubble or old ground pattern or shape. They are intended for light plowing, such as gardening, plowing potatoes, corn, cabbage and other crops; also for hilling up. Are mostly used with one horse.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	CHILLED SHARE.		STEEL MOLD-BOARD.	IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR SHARE.
				Plain.	Cutter.					
* R71	7 inch.	\$ 7.25	\$ 1.50	\$0.60	.....	\$ 4.00	\$0.50	42 lbs.	Diploma..	Dipping..
* R81	8 "	7.75	1.50	.60	.....	4.00	.50	43 "	Disable..	Disarm...
* R91	9 "	8.75	1.50	.65	.....	4.00	.50	44 "	Disband..	Disburse..

* Not made left hand.

"GARDEN CITY CLIPPER" PLOWS—Continued.



"MISSOURI CLIPPER" STEEL STUBBLE PLOW—Wood Beam, Long-bar Share. Hardened Moldboard. Heavy bar Landside, strong Standard, all heavily braced for stony and timbered lan'.

This style of plow derives its name from having been originally made for a certain trade, or section of country in Missouri. It differs from our regular style Old Ground Plow, in having an extra heavy long-bar landside welded to the share; also a strong standard, heavily braced at the bottom, for stony or timbered land. There is also a slight difference in the way we attach landside handle, as the cut shows. The 12 and 14 inch plows have a two and three-horse clevis, the 10 and 11 inch a one and two-horse.

NO.		WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	EXTRA MOLD-BOARD.	WEIGHT UNBOXED.	CODE WORD.		CODE WORD FOR SHARE.		
R. H.	L. H.						R. H.	L. H.	R. H.	L. H.	
17	109	*	10 inch.	\$11.75	\$2.75	\$4.50	75 lbs.	Dot.....	.....	Dotard ..	.....
17	113	*	11 "	12.25	3.50	4.50	78 "	Doté.....	.....	Doting ..	.....
17	119	17 124	12 "	13.00	3.75	5.00	81 "	Dotted... Double...	.....	Doubled... Doubling..	.....
17	149	17 144	14 "	15.00	4.25	5.50	97 "	Doublet .. Doubloon.	.....	Doubly ... Doubt.....	.....



STEEL BRUSH PLOW—Wood Beam, Wood Standard, Long-bar Share. Hardened Moldboard.

This has the same shaped moldboard as our regular Old Ground Plow, but is strongly built with wood standard, for timber and stony land, or heavy plowing. When so wanted we put wrought iron strap under the beam; also attach Quincy Cutter as shown in cut, when desired.

NO.	WIDTH OF FURROW	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	WEIGHT UNBOXED.	CODE WORD FOR PLOWS.				CODE WORD FOR SHARE.	
						WITH STRAP.		WITHOUT STRAP.		R. H.	L. H.
						R. H.	L. H.	R. H.	L. H.		
*114	7 inch.	\$ 9.25	\$ 2.00	\$ 4.00	43 lbs.	Eager.....	.....	Eating ..	.....	Earth.....	.....
*115	8 "	11.25	2.00	4.00	45 "	Edify.....	.....	Effusion..	.....	Edition..	.....
*116	9 "	12.25	2.00	4.00	47 "	Elder.....	.....	Elephant..	.....	Elegant..	.....
*117	10 "	12.75	2.75	4.50	71 "	Eluding ..	.....	Embark... Embalm ..	.....	.....	.....
127	11 "	13.25	3.50	4.50	73 "	Embrace ..	Embroil ..	Enrage... Ensign ..	.....	Empire .. Enlist ..	.....
137	12 "	14.00	3.75	5.00	75 "	Envoy.....	Equip.....	Equip.....	.....	Escape.. Epistle .. Epitaph ..	.....
138	13 "	15.00	4.25	5.50	76 "	Esteem ..	Evade.....	Exclude.. Excuse..	.....	Exalt... Exclaim ..	.....
142	14 "	16.00	4.25	5.50	88 "	Expand ..	Expel.....	Fable... Faction ..	.....	Expose.. Extract ..	.....
171 1/2	16 "	19.00	4.75	6.50	96 "	Faction ..	Faculty..	Fagging ..	Fagot ..	Fading ..	Fag.....

Quincy Cutter is not included in list price. When wanted, add \$1.00 list. If strap under beam is not wanted, deduct \$1.00 from list. * Not made left hand.

“GARDEN CITY CLIPPER” PLOWS—Continued.



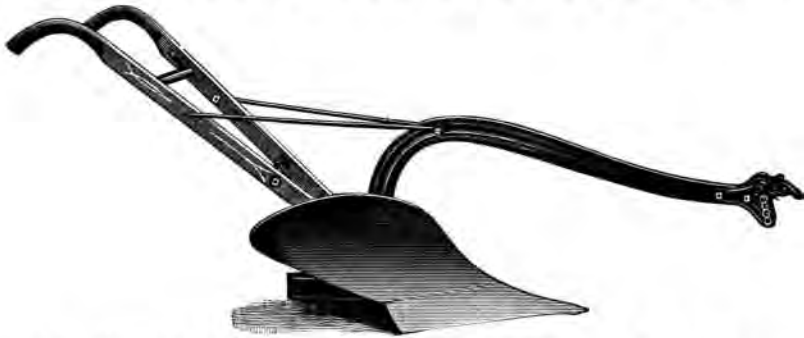
Series 15.—STEEL BRUSH PLOW.—Stubble and Sod.

Wood beam, Wood standard, Long-bar share, Hardened moldboards.

This plow is made with a stubble and sod mold shaped like those used on our Nos. 51 and Y21 Series. It has a heavy wood standard strengthened with a wrought brace, and is built strongly for use in heavy plowing, such as timber and stony lands. A wrought strap, also a Quincy cutter are attached when so ordered. Quincy cutter is not included in list price. When wanted add \$1.60 to list. Strap under beam is included; if not wanted deduct \$1.00 from list price.

No.		WIDTH OF FURROW.	LIST PRICE.	Extra Steel Share.	Steel Mold-board.	WEIGHT UNBOXED.	CODE WORD FOR PLOWS.				CODE WORD FOR SHARE.	
R. H.	L. H.						WITH STRAP.		WITHOUT STRAP.		R. H.	L. H.
							R. H.	L. H.	R. H.	L. H.		
55	1 1/4	11 inch.	\$13.25	\$3.50	\$4.50	74 lbs.	Farthing..	Fashion...	Fasten....	Fasting...	Fastness..	Fatal.....
56	1 1/2	12 "	14.00	3.75	5.00	76 "	Fatalism..	Father.	Fathom....	Fatigue ...	Fatness ...	Fault.
57	1 3/4	13 "	15.00	4.25	5.50	77 "	Favor.....	Fawn.....	Fawning ..	Fearful....	Fearless..	Feast.....
58	1 1/2	14 "	16.00	4.25	5.50	89 "	Feature...	Feebly....	Federal...	Feign	Fellow	Felony....
59	1 3/4	16 "	19.00	4.75	6.50	97 "	Female....	Fence.....	Fencing ...	Fending...	Ferment...	Fervent...

"GARDEN CITY CLIPPER" PLOWS—Continued.



STEEL STUBBLE AND SOD PLOW.—Steel Beam, Slip Share.

Hardened Moldboard, Share and Landside. Double Shin, Steel Tapering Landside.

These plows, as the name indicates, are intended to do old ground as well as tame plowing. They are a medium between the bolder or more abrupt old ground plow and the long, slow turning breaker. They work nicely in old ground, being preferred by some to the regular Stubble Plow, and they turn tame sod, such as Blue Grass, Timothy or Clover, admirably.

No.	WIDTH OF FURROW	LIST PRICE.	EXTRA STEEL SHARE	CHILLED SHARE.		STEEL MOLD-BOARD	STEEL LAND-SIDE.	WEIGHT UNBOX'D	CODE WORD.		CODE WORD FOR SHARE.	
				Plain.	Cutter.				R. H.	L. H.	R. H.	L. H.
516½	9 inch.	\$14.00	\$1.50	\$0.65	.....	\$4.00	\$1.25	82 lbs.	Final...	Finance...	Finch...	Finger...
517½	10 "	14.75	2.00	.75	.....	4.50	1.25	86 "	Finish...	Finisher...	Firkin...	Firemen...
518½	11 "	16.00	2.75	.75	.....	4.50	1.25	90 "	Fiscal...	Fishing...	Fist....	Fitful...
519½	12 "	17.25	3.00	.75	.....	5.00	1.25	96 "	Fitting...	Fixing...	Flabby...	Flag...
520½	13 "	18.50	3.50	.80	.....	5.50	1.50	98 "	Flagon...	Flagrant...	Flail...	Flake...
521	14 "	20.00	3.50	.85	.....	5.50	1.75	103 "	Flaming...	Flank....	Flannel...	Flap...
577	16 "	22.50	4.00	1.00	.....	6.50	2.00	113 "	Flapper...	Flapping...	Flash...	Flashing...
583	18 "	25.00	4.50	.....	.....	7.00	2.00	115 "	Flashy...	Flasket...	Flat....	Flatness



STEEL STUBBLE AND SOD PLOW—Steel Beam, Long-bar Share.

Hardened Moldboards, Low Landsides.

The moldboard of this plow is shaped the same as the one illustrated at top of this page. The plow, however, has a long-bar share with low landside. The share is of hard rolled steel with high natural temper. Cast or chilled shares are not furnished with this series of plows.

No.		WIDTH OF FURROW	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.		CODE WORD FOR SHARE.	
R. H.	L. H.							R. H.	L. H.	R. H.	L. H.
51	107	10 inch.	\$12.50	\$2.75	\$4.50	Landside is a part of the Long-bar Share.	83 lbs.	Falling	Fairy.....	Fairness...	Faith.....
51	117	11 "	13.25	3.50	4.50		85 "	Faithful	Falcon...	Fallacy...	Fallen....
51	127	12 "	14.00	3.75	5.00		86 "	Fallible..	Falling...	Falsify...	Falter...
51	137	13 "	15.00	4.25	5.50		92 "	Familiar	Famine...	Famish...	Famous...
51	147	14 "	16.25	4.25	5.50		96 "	Fanatic	Fanciful...	Fandango...	Fang.....
51	157	16 "	18.50	4.75	6.50		110 "	Fanning	Farm.....	Farmer...	Farrow...

"GARDEN CITY CLIPPER" PLOWS—Continued.



STEEL STUBBLE AND SOD PLOWS—Wood Index Beam, Slip Share.

Hardened Moldboards, Shares and Landsides.

We now make all of our wood beam Stubble and Sod Plows of this pattern. The beam is adjustable at the rear end, to regulate width of furrow. It is strengthened, for heavy work, when so ordered, by an iron strap on the underside, which connects with the standard. This strap is not included in the list price given below. When wanted, it adds \$1.00 to the list. The moldboards for these plows are made of steel only, but the shares and landsides are made of either steel or chilled iron, which are interchangeable, making a variety of combinations, which adapt them to a great range of work.

These prices are for the plows without strap under the beam, and without Cutters, Jointers or Gauge Wheels.			COMBINATION Z.	COMBINATION *R.	COMBINATION *N.	*Prices include extra shares on Combinations R and N only.					
No.	WIDTH OF FURROW	KIND.	ALL STEEL.	Steel Mold and Land-side, Cast Share.	Steel Mold, Cast Land-side and Share.	STEEL MOLD-BOARD	SHARE.		LANDSIDE.		WEIGHT UNBOX'D
							Steel.	Chilled	Steel.	Chilled	
LY16½	9 inch.	Db'l. Shin, Steel Tapering L'side	\$12.75	\$12.75	\$12.50	\$4.00	\$1.50	\$0.65	\$1.25	\$0.90	68 lbs.
LY17½	10 "	" " " " " "	13.50	13.00	12.75	4.50	2.00	.75	1.25	.90	74 "
LY18½	11 "	" " " " " "	14.50	13.25	13.00	4.50	2.75	.75	1.25	.90	76 "
LY19½	12 "	" " " " " "	15.75	14.50	14.00	5.00	3.00	.75	1.25	.90	79 "
LY20½	13 "	" " " " " "	17.00	15.25	14.75	5.50	3.50	.80	1.50	1.00	81 "
LY21	14 "	" " " " " "	18.25	16.50	15.75	5.50	3.50	.85	1.75	1.00	91 "
LY77	16 "	" " " " " "	20.50	18.75	18.00	6.50	4.00	1.00	2.00	1.20	105 "
LY88	18 "	" " " " " "	23.00	.....	.....	7.00	4.50	.....	2.00	.....	108 "

CODE WORDS FOR ABOVE AND FOR EXTRAS.

No.	COMBINATION Z.		COMBINATION R.		COMBINATION N.		STEEL SHARES.	CHILLED SHARES.
	With Strap.	Without Strap.	With Strap.	Without Strap.	With Strap.	Without Strap.		
LY16½ R. H.	Oak.....	Oblong...	Obscure..	Obtuse...	Octagon..	Odium....	Odor.....	Orderless.
LY16½ L. H.	Offal.....	Offense..	Offset....	Offset....	Omega....	Omit.....	Omitted..	Omitting..
LY17½ R. H.	Omnibus..	Onset....	Onward..	Opera....	Opulent..	Oracle....	Oral.....	Orally....
LY17½ L. H.	Orange...	Oration..	Orator... Orator...	Orbit....	Orchard..	Ordain...	Ordained.	Ordainer..
LY18½ R. H.	Ordeal...	Ordinal..	Organ....	Ottawa...	Other....	Outbreak.	Outgrow..	Outbound.
LY18½ L. H.	Outburst.	Outward..	Outfit...	Outrage..	Outside...	Outskirt..	Outspin..	Outstep..
LY19½ R. H.	Overstrip.	Owlish...	Over.....	Overcast.	Overcome.	Overflow..	Overpass.	Overpay..
LY19½ L. H.	Overrun..	Owlsh...	Oxford...	Oxfock...	Oxfock...	Oxfock...	Oxfock...	Oxfock...
LY20½ R. H.	Paddle...	Padding..	Paddy... Paddy...	Paddock.	Pagan....	Paging...	Page.....	Packed...
LY20½ L. H.	Paging...	Painful..	Painful..	Painless.	Painter...	Painter...	Painter...	Painter...
LY21 R. H.	Palace...	Palate... Palate...	Palatial.	Palatine.	Palayer..	Paleness.	Palings..	Palings...
LY21 L. H.	Pallside.	Pallet... Pallet...	Pallid... Pallid...	Palm.... Palm...	Palmetto.	Palpable..	Palping..	Palping...
LY27 R. H.	Pamphlet.	Panacea..	Panado... Panado...	Panama..	Pancake..	Pander... Pander...	Pane.....	Panel....
LY77 L. H.	Panic....	Panjama.	Panner... Panner...	Pant.... Pant...	Pantheon..	Panther... Panther...	Pantry...	Papal....
LY83 R. H.	Papaw...	Papist... Papist...	Parable..	Parade... Parade...	Parading.	Paradise..	Paradox..	Paragon..
LY83 L. H.	Parapet..	Parasite.	Parasol..	Parboil..	Parcel....	Pardon... Pardon...	Parent...	Parental.

"GARDEN CITY SOUTHERN CLIPPER" PLOWS.

The two styles of steel plows illustrated below, and those shown on the next page, are called "Southern Clippers" because they were originally made for use in the Southern States—more especially Texas. Years of experience in catering to the trade, preceded by an extended series of experiments to devise shapes best suited to the varying soils of that State, resulted in our adopting the models here represented. They have slip shares. The moldboards and shares or points are hardened. Extra points can be furnished at any time. They are made right hand only.



STEEL SANDY LAND PLOW—Wood Beam, Slip Share.
Low Landside, with Extra Point.

This shape is more especially adapted for sandy or loamy soils, although frequently used in black lands with good satisfaction. The beam is adjustable sideways, on the standard cap, to make the plow take a wider or narrower furrow. One extra steel point (or share) goes with each plow. Five to six inches is the usual depth of furrow for these plows, but they can be gauged to plow anywhere from three to seven inches deep. No. 79 has a one-horse clevis; the others have two-horse, as shown in cut. We make a sandy land plow with steel beam as shown below.

No.	WIDTH OF FURROW.	LIST PRICE.	STEEL SHARE.	STEEL MOLD-BOARD.	IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR SHARE.	CODE WORD FOR LANDSIDE.
79	7 inch.	\$ 8 00	\$ 1 10	\$ 2 00	\$.75	50 lbs.	Mantilla	Mantling.	Meteor
X80	8 "	8 50	1 10	2 00	.75	50 "	Mapping	Maraud...	Miasma
X82	9 "	10 00	1 35	2 50	.85	54 "	Marbling	Marching	Midday
X84	10 "	12 00	1 50	2 50	.90	55 "	Marion	Marital	Midnight
X86	11 "	13 00	1 75	3 25	1.00	61 "	Marquis	Marriage.	Midst



STEEL SANDY LAND PLOW—Steel Beam, Slip Share.
Medium Steel Landside, with Extra Point.

These plows are for the same purposes as the wood beam plow above illustrated. It differs a little in construction, having, instead of a low landside, a tapering or medium steel landside, hardened.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	OUTER STEEL LAND-SIDE.	INNER IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR SHARE.	CODE WORD FOR LANDSIDE.
V75	7 inch.	\$ 10 50	\$ 1 10	\$ 2 00	\$.75	\$.60	58 lbs.	Marsh ...	Marshall.	Mighty ...
V85	8 "	11 50	1 10	2 00	.75	.60	61 "	Marvel...	Mashing..	Mild
V95	9 "	13 00	1 35	2 50	.85	.60	66 "	Massive..	Master...	Mildness ..
V105	10 "	15 00	1 50	2 50	.85	.60	72 "	Masticate.	Mastodon.	Mimic
V115	11 "	16 00	1 75	3 25	.90	.60	75 "	Maternal.	Matron	Miller

“GARDEN CITY SOUTHERN CLIPPER” PLOW—Continued.

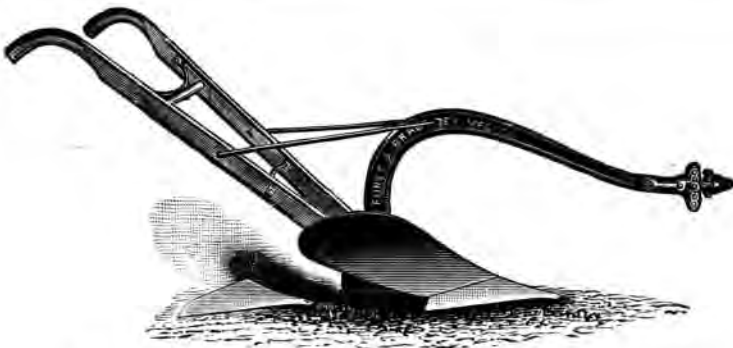
On the foregoing page will be found an explanation of why these are called “Southern” Clipper Plows. Those shown on this page are of the “blackland” series—so called because specially shaped for turning the black lands found in Texas and elsewhere. They are made with sharp angles and formed in the best possible shape for shedding such soil. Sulkies and Gang Plows for use in Texas and other places where such soil is found, are furnished with plow bottoms of this kind. We make wood and steel beam blackland plows, as shown below. An extra steel share goes with each plow.



**STEEL BLACKLAND PLOW—Wood Beam, Slip Share.
Medium Steel Landside and Extra Point.**

The above cut illustrates our wood beam Blackland Plows, except the T71, which, being a 7-inch plow, has a smaller clevis, made for use with one or two horses, while the clevises used on the rest of this series are like the one shown in cut, and are suited for two or three horses. The landside is steel, and of the medium, or tapering pattern. The moldboards are hardened cast steel; the shares and landsides are cast steel with high grade natural temper.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	STEEL LAND-SIDE.	INNER IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR POINT.	CODE WORD FOR LANDSIDE.
T71	7 inch.	\$ 9 00	\$ 1 10	\$ 2 75	\$ 1 00	\$.65	57 lbs.	Mattress.	Mature...	Mince...
T81	8 "	10 00	1 10	2 75	1 00	.75	66 "	Mead.	Meadow...	Mindful...
T91	9 "	11 50	1 35	3 00	1 10	.75	73 "	Meanness.	Medal...	Minerva...
T101	10 "	13 00	1 50	3 50	1 20	.85	86 "	Medical.	Medium...	Minister...
T121	12 "	17 00	2 50	5 00	1 35	.95	87 "	Meekness.	Melange...	Minnow...



**STEEL BLACKLAND PLOW—Steel Beam Slip Share.
Medium Steel Landside and Extra Point.**

This is identical with the plow shown at top of page, so far as the material in, and shape of, the plow bottom is concerned. The difference consists of a steel, instead of wood beam, and the necessary change in the manner of attaching the handles. The same clevis is used on all sizes of this series.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	STEEL LAND-SIDE.	INNER IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR POINT.	CODE WORD FOR LANDSIDE.
T75	7 inch.	\$ 11 50	\$ 1 10	\$ 2 75	\$ 1 00	\$.65	66 lbs.	Melon...	Melting...	Mint...
T85	8 "	12 50	1 10	2 75	1 00	.75	76 "	Memento.	Memory...	Mexican...
T95	9 "	14 50	1 35	3 00	1 10	.75	85 "	Manual.	Map...	Madriff...
T105	10 "	16 00	1 50	3 50	1 20	.85	92 "	Marauder.	Marble...	Midland...
T125	12 "	20 00	2 50	5 00	1 35	.95	99 "	Margot.	Mariner...	Midship...

**"GARDEN CITY SOUTHERN CLIPPER"
PLOWS—Continued.**



STEEL SANDY LAND PLOW—Steel Beam, Slip Share.

Medium Steel Landside, with Extra Point.

This differs from the "V" series in having a point and landside of the blackland pattern with a quicker turning or sandy land moldboard. It has a hardened cast steel mold and an outer steel tapering landside; an extra point goes with each one.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	OUTER STEEL LAND-SIDE.	INNER IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR SHARE.	CODE WORD FOR LANDSIDE.
VX75	7 inch.	\$10.50	\$1.10	\$2.00	\$1.00	\$.85	65 lbs.	Mulatto	Mulberry	Mulch
VX85	8 "	11.50	1.10	2.00	1.00	.75	67 "	Mule	Muldoon	Mulish
VX95	9 "	13.00	1.35	2.50	1.10	.75	76 "	Mullet	Mullock	Multum
VX105	10 "	15.00	1.50	2.50	1.20	.85	80 "	Mumble	Mumbling	Mumps
VX115	11 "	16.00	1.75	3.25	1.30	.90	87 "	Mummy	Mundane	Munford
VX125	12 "	19.00	2.50	4.25	1.35	.95	89 "	Murder	Mariate	Murmur



STEEL BLACKLAND PLOW—Steel Beam, Slip Share.

Medium Steel Landside and Extra Point.

This series of plows has been made to suit the requirements of some farmers who prefer a moldboard with a somewhat more abrupt turn than the "T" series shown on preceding page. This plow raises the dirt quicker and higher and carries it further over. It is the same grade of plow, having a hardened cast steel moldboard and an outer steel tapering landside. An extra point goes with each plow, although not shown in cut.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	STEEL LAND-SIDE.	INNER IRON LAND-SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR SHARE.	CODE WORD FOR LANDSIDE.
TX75	7 inch.	\$11.50	\$1.10	\$2.75	\$1.00	\$.85	58 lbs.	Meteoric	Meter	Method
TX85	8 "	12.50	1.10	2.75	1.00	.75	67 "	Methodist	Metrical	Metropolis
TX95	9 "	14.50	1.35	3.00	1.10	.75	79 "	Mettle	Mew	Microscope
TX105	10 "	16.00	1.50	3.50	1.20	.85	83 "	Middle	Middling	Midwife
TX115	11 "	17.00	1.75	4.00	1.30	.90	87 "	Might	Migrant	Mikado
TX125	12 "	20.00	3.00	5.00	1.35	.95	91 "	Mildly	Mileage.	Milesian

SMALL PLOWS.



SMALL STEEL PLOWS ("O" Series)—Wood Beam, Slip Share.
Medium Steel Landside and Extra Point.

This is a light steel plow, ranging in sizes from one to two-horse, and is a great favorite in many States. It is well adapted for gardening, cultivating and hilling up crops and for various other purposes.

No.	WIDTH OF FURROW.	LIST PRICE.	STEEL SHARE.	STEEL MOLD-BOARD.	STEEL LAND-SIDE PLATE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR POINT.	CODE WORD FOR LANDSIDE.
Pony.	7 inch.	\$ 4.80	\$.80	\$ 2.50	\$.70	45 lbs.	Meagre ...	Meander ..	Mincing ...
AO	7½ "	5.30	.90	2.50	.80	46 "	Meddling..	Mediator..	Miming.....
BO	8 "	6.20	1.00	2.75	.90	48 "	Medley...	Meekly...	Mingle.....
CO	8½ "	9.00	1.10	3.55	1.00	65 "	Mellow...	Melody...	Minority....
DO	9½ "	11.00	1.40	4.40	1.00	75 "	Member ..	Membrane	Minstrel....



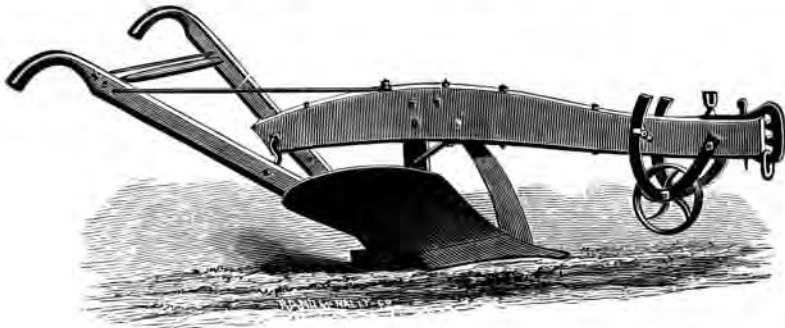
SMALL CAST PLOW "DAISY" (New Series)—Wood Beam with Extra Point.

A small cast plow, which can be used for the same purposes as the steel plow shown at the top of this page. It is particularly well adapted for sandy soils.

No.	WIDTH OF FURROW.	LIST PRICE.	CAST SHARE.	CAST MOLD-BOARD.	CAST LAND SIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR POINT.	CODE WORD FOR LANDSIDE.
*B61	6 inch.	\$ 2.80	\$.20	\$.70	\$.25	86 lbs.	Maturing .	Maxim....	Minuet

*Neither of the plows above shown are made left hand.

RAILROAD PLOWS.

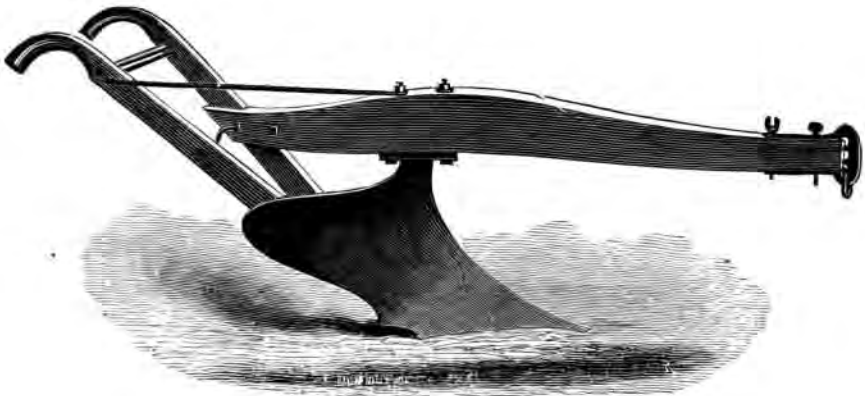


STEEL RAILROAD PLOW—Wood Beam, Long-bar Share.

Size, 10 Inches.

We make these plows extra strong and heavy, for railroad work, grading highways, and any heavy plowing where great strength is required. They have a strong wrought-iron strap under the beam, and will stand any reasonable strain.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	EXTRA STEEL SHARE.	STEEL MOLD-BOARD.	WEIGHT UNBOXED.	CODE WORD.
Steel Railroad Plow with Colter and Gauge Wheel, but no Ex. Share.	\$ 28.00	\$ 4.50	\$ 4.50	160 lbs.	Lounge ...
The same, with handles ironed.....	30 50	.....	.....	165 "	Lounging.



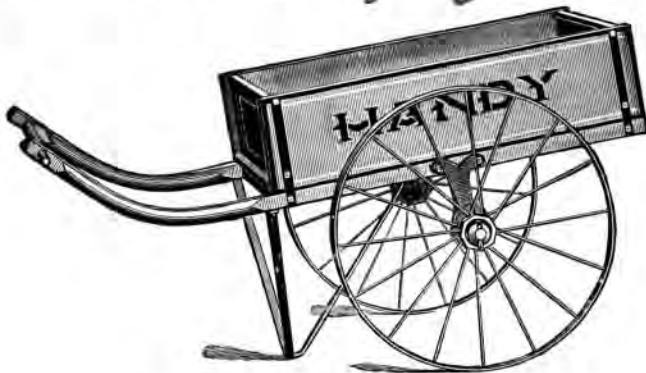
CAST-IRON RAILROAD PLOW No. 8—Wood Beam.

Size, 10 Inches.

This plow is made for use on railroads and in timber land; can also be used in gravelly or clay soils. Its price is considerably less than the one made of steel.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	CAST POINT.		CAST MOLD-BOARD.	WEIGHT UNBOXED.	CODE WORD.
		Plain.	Colter.			
No. 8 Cast-iron Railroad Plow with Extra Point, but with no Gauge Wheel nor Colter	\$ 13.50	\$.90	\$ 1.10	\$ 6.00	142 lbs.	Lustful ...

"HANDY" HAND CART.



With WOOD OR STEEL WHEELS.

This is one of the most useful articles which can be kept about an establishment. It is indeed "handy" to "have in the house," or at least about the house. They can be used for a thousand and one purposes, and for "doing chores" are as good as a boy. They are cheap to begin with, and, being well made, will last a lifetime with proper usage.

We make only one size box (23 x 36 x 8 inches). The wheels are 30 inches in diameter, of which we furnish either wood or steel.

It weighs 85 pounds. When knocked down for shipment it takes up but little space, and goes at second-class rates all thought as a rule.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
"Handy" Hand Cart, with 30 inch wood wheel.....	\$ 7.00	85 lbs.	Laugh
"Handy" Hand Cart, with 30 inch steel wheel.....	7.50	85 "	Laughter.



STEEL SUBSOIL PLOW.

This has a steel shoe and is provided with draft-rod and dial clevis, as shown in cut. It is intended to follow a common plow, loosening the ground in the bottom of the furrow, to a depth of twelve inches or more.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Subsoil Plow, without Gauge Wheel.....	\$ 12.50	72 lbs.	Mack.....
Gauge Wheel for same, when wanted.....	2.00	.....	Maculate..

“BRADLEY” CHILLED PLOWS.

(See Cut on following page.)

THIS shows our present style “Bradley” Chilled Plow. Its shape is one which has become very popular throughout the country, and embodies all the desirable features which conduce to light draft and perfect work, including the complete pulverization of the soil, ease and rapidity with which it can be adjusted, and the perfection of hardness to which its wearing parts have been brought.

We will repeat here, as applicable to chilled plows, what we have hereinbefore said about steel plows, which is, that two things are absolutely necessary to make a good plow, viz.: correct shape and extreme hardness of the wearing parts. However well shaped a plow may be, it must also be **EXTREMELY HARD** or it **WILL NOT SHED THE DIRT** in sticky soils, nor will it scour, if ever so hard tempered, unless it is properly shaped.

As to shape we have had an experience of over half a century in manufacturing steel plows, during which time we have made many experimental and practical tests to prove which **ARE** the very best models for light draft and good scouring qualities. The result of these trials was the adoption of our present shape for moldboards. That our experiments and tests were not in vain is shown by the fact that our plows stand to-day in advance of all others, in their scouring qualities, perfect temper and ease of draft.

In this Chilled Plow the two great essentials of correct shape and extreme hardness of the wearing parts, are most effectually combined, and satisfactory service can be relied on by those who purchase them.

The share and shin—the parts which receive the brunt of the wear—are in one piece, so that the renewing of one renews the other.

The material from which they are cast consists of such brands of iron as will produce, when used in correct proportions, a mixture susceptible of being chilled to the very extreme of hardness, at the same time retaining uncommon toughness and strength. Points made of this material will stand double the wear and strain that common “pot-metal” points will endure. The beams are of first-class material, nicely finished and covered with two coats of good paint and one of varnish.

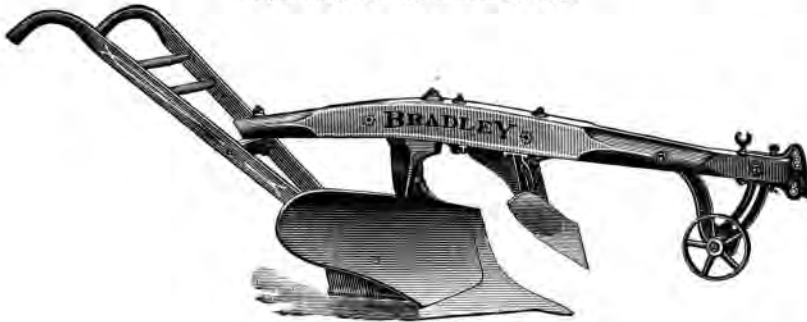
We make different styles and a great variety of sizes, all of which are given in our chilled plow Price List on next page.

OUR WARRANTY.

The “Bradley” Chilled Plow is warranted to do as good work in all soils, as any other chilled plow can do. If a purchaser fails to make it work as above mentioned, after a trial of two days, and if, after notice to manufacturers, they or the dealer who sold the plow fail to make it work as warranted, it may be returned; but it will be considered sold if no complaint is made immediately after two days use.

"BRADLEY" CHILLED PLOWS.

(See description on preceding page.)



CHILLED PLOW—Wood Beam, Chilled Moldboards, Shares and Landsides.

This is the only shape we make in chilled plows, and we make them with wood beams only. The beams are fastened at the rear end, to a slotted iron brace, and can be adjusted sideways to give the plow more or less land. The Jointer shown attached is used when plowing weedy or trashy ground. It turns a small furrow, removing the trash from the land edge of the main furrow slice so that when turned, the weeds are more deeply covered, and none left sticking out between the furrows.

The list prices given below are for the plows with extra share, clevis and wrench, but without Jointer, Colter or Gauge Wheel.

No.	LIST PRICE.	SHARES.		MOLD-BOARD.	LAND-SIDE.	STAND-ARD.	BRACE.	HANDLES, Complete, per set.	BEAM Dressed and Painted.	CLEVIS No. 31.	*WEIGHT UNBOXED.
		Plain.	Cutter.								
DA2	\$ 4.50	\$.25	\$.30	\$ 1.25	\$.40	\$ 1.25	\$.25	\$ 1.25	\$ 1.00	\$.30	53 lbs.
DB	6.00	.25		1.75	.60	1.50	.30	1.25	1.00	.30	61 "
D10	7.00		.35	2.00	.60	2.00	.30	1.25	1.00	.30	68 "
D13	8.00		.35	2.25	.65	2.25	.30	1.50	1.25	.30	80 "
D19	8.50		.40	2.50	.75	2.25	.50	1.75	1.25	.30	100 "
D20	9.00		.40	2.75	.75	2.25	.50	1.75	1.25	.30	118 "
D40	9.50		.40	3.00	.75	2.50	.50	1.75	1.25	.30	132 "

Fine polished plows \$1.00 extra. * Weights are for plows with extra shares only.

CODE WORDS FOR CHILLED PLOWS AND EXTRAS.

No.	PLOW.		SHARES.		MOLDBOARD.		LANDSIDE.		STANDARD.	
	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.	R. H.	L. H.
DA2	Tabby	Tailor	Tailoring	Taint	Talent	Talisman	Talking	Tamable	Tambour	Taming
DB	Tabor	Tamper	Tandem	Tangent	Tangle	Tank	Tankard	Tanner	Tansy	Taper
D10	Tabular	Tapster	Tardy	Target	Tariff	Tarnish	Tarquin	Tarsus	Tartar	Tartish
D13	Tabling	Tartness	Tassel	Tattling	Taunt	Taunting	Tavern	Tawny	Taxable	Taxation
D19	Tackle	Taxing	Teacher	Tedious	Tedium	Tempest	Templar	Temple	Tempt	Tempted
D20	Tackling	Tempting	Tenant	Tendon	Tenable	Tendril	Tenor	Tension	Tent	Tenting
D40	Tadpole	Terminal	Tepid	Terrace	Terrapin	Terrible	Testator	Testing	Texas	Texture

† Plain Shares only. ‡ Cutter Shares only.

EXTRAS.

JOINTERS.

Chilled Jointer for one-horse plow \$ 1.50
" " " two-horse " 2.00

GAUGE WHEEL.

Bradley Patent Caster Gauge Wheel \$ 1.50
Straight Standard Gauge Wheel, complete 1.00

LIST PRICE.	CODE WORD.	
	R. H.	L. H.
	Pottage	Poverty
	Powder	Prank
	Postage	
	Potash	

HANDLES, NOT PUT TOGETHER.

All numbers, per pair, dressed, not painted.....\$.60
" " " " " and painted..... 1.00
Rounds long, painted......06
" short, "04

WRENCHES.

For one-horse Plow\$.08
" two-horse "12

BRADLEY NEW GROUND PLOW.

With JUMPING COLTER.



TWO SIZES—7 and 9 inches.

This plow is constructed with special reference to use in rooty ground, where plows of the ordinary type do not work to advantage as they catch under the roots and often break either the plow, the harness or the singletrees. The slanting cut of the lower end of the colter either severs the root, or, in passing over it carries the plow with it, hence the name "jumping colter." The shape of the plow is such that it immediately takes the ground again after passing an obstruction. The moldboard is solidly welded to a narrow landside which is bolted to the beam. The lower end of the beam curves forward and conforms to the shape of the mold, which rests upon it, giving great strength to the plow. The moldboard and share are one piece.

No.	WIDTH OF FURROW.	LIST PRICE.	COMB'N MOLD, SHARE AND LANDSIDE.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR MOLD AND SHARE.
.....	7-inch.	\$ 13.00	\$ 3.50	80 lbs.	Mention.....	Mentor.....
.....	9 "	14.00	4.00	84 "	Merciful.....	Mercury.....

BRADLEY MIDDLEBREAKER.

STEEL BEAM.



These plows are used mainly for the breaking or bursting of cotton ridges. They are also used for making draining ditches and for opening furrows in which to plant corn, potatoes, etc. The curved rudder, shown in cut, steadies the plow and tends to make it run in a straight line, besides, being adjustable up and down, it regulates the depth of plowing to a certain extent.

No.	WIDTH OF FURROW.	LIST PRICE.	EXTRA DOUBLE SHARE.	EXTRA DOUBLE MOLD.	WEIGHT UNBOXED.	CODE WORD.	CODE WORD FOR DOUBLE SHARE.	CODE WORD FOR DOUBLE MOLD.
.....	12-inch.	\$ 19.50	\$ 2.25	\$ 3.00	90 lbs.	Mercy.....	Merely.....	Meridian...
.....	14-inch.	22.00	2.50	4.00	95 "	Merino.....	Merrily....	Merriment.
.....	16-inch.	25.00	3.00	5.00	105 "	Message....	Messenger..	Metal.....

BRADLEY STEEL LISTING PLOWS.

(See cuts below and on next page.)

POSITIVE GEARED MOTION.

The cuts represent our latest series of Listing Plows which consists of a Wood Beam and a Steel Beam Single Lister, and a Combined Lister and Drill made by putting a Drill Attachment on the Steel Beam Single Lister. The main drive shaft is propelled by flat drive wheels with notched edges, or with curved arms, as may be preferred.

A **One-Horse Drill** can be made by adding to the drill attachment a beam, gauge wheel and handles, which we furnish for that purpose when wanted.

The single lister can be used without the subsoiler, for hilling up potatoes, and for similar work, and is a splendid implement for such purposes.

When the single lister is used for drilling it is followed with a one-horse drill, which drops the corn into the mellow earth which the subsoiler has loosened, and covers it. Ten acres or more a day can be planted in this way by two men and three horses.

The **DROP** is varied by changing plates, four of which go with each drill attachment. No. CP111 drops 18 inches; CP113 14 inches; and CP114 12 inches apart. The blank plate can be drilled to suit small seed or grain.

We also furnish on order for same, the following named special plates, viz.: No. CP110, 4-hole, which drops 22 inches, and No. CP112, 6-hole, which drops 16 inches apart. We charge extra for these.

There is plenty of clearing space under the dog so that corn cannot accumulate there and interfere with its action.

Some of its good points are as follows:

1st.—The dropper plates are driven by a geared connection with the shaft of the drive wheels, which gives a **POSITIVE** steady motion and a uniform drop.

2d.—**It will not break the seed.** The construction of our cut-off prevents the breaking of the seed and secures a uniformity of dropping which has never been reached before.

3d.—It is **very compact.** Owing to the manner of its construction, we are able to get our drill attachment close to the moldboard, which adds to the ease of handling and makes the draft lighter.

In addition to the above specially mentioned points we would call attention to the following:

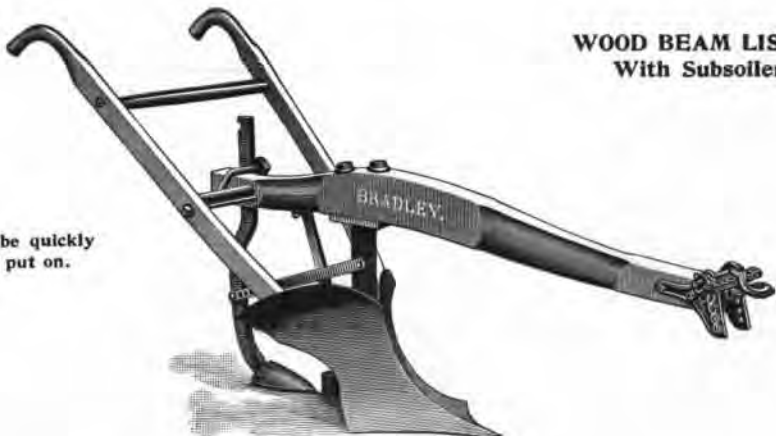
The subsoiler and drill frame are adjustable up or down for deep or shallow planting.

Dirt cannot get into the top of the spout, consequently no clogging can occur on that account.

Steel Guards above the moldboard prevent clods and trash from falling over it into the furrow to interfere with the operations of the Drill.

Steel handles with malleable hand-pieces are now furnished.

The drill attachment can be removed from the combined machine, leaving a lister with subsoiler only. The subsoiler can then be taken off, leaving a steel beam lister without attachments.



**WOOD BEAM LISTER
With Subsoiler.**

Subsoiler can be quickly
removed or put on.

BRADLEY STEEL LISTING PLOWS—Continued.

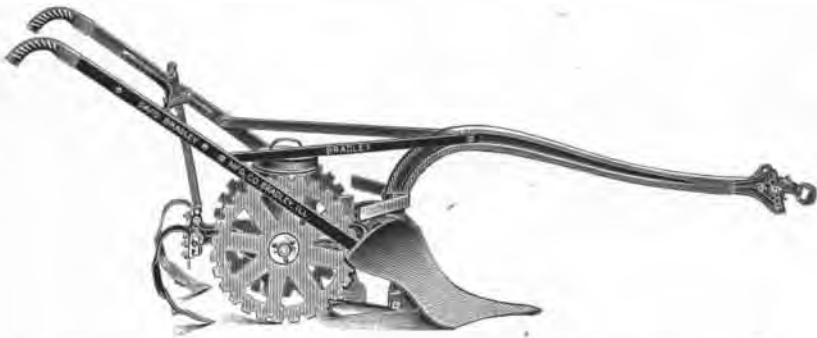
WITH IRON HANDLES.



STEEL BEAM SINGLE LISTER, WITH SUBSOILER—Hardened Mold.

The subsoiler can be removed, when wanting to use the plow for hilling up or for other purposes where the subsoiler is not needed.

A Drill Attachment can be put on this, to make a Combined Lister and Drill as shown below.



BRADLEY COMBINED LISTER AND DRILL—With Positive Gear Motion.

See detailed description on preceding page. The Drill Attachment can be removed, leaving a steel beam lister with subsoiler.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	DOUBLE STEEL SHARE.	DOUBLE STEEL MOLD.	WEIGHT UNBOXED.	CODE WORD.
Wood Beam Listing Plow with Subsoiler, 14 in.....	\$ 21.00	\$ 5.00	\$ 8.00	85 lbs.	Lowland..
" " " " " " 16 ".....	23.00	6.00	8.00	90 "	Loyal.....
" " " " " " 14 ".....	22.00	5.00	8.00	105 "	Luggage..
" " " " " " 15 ".....	24.00	6.00	8.00	110 "	Lunar.....
Combined Lister and Drill, 14 in.....	35.00	5.00	8.00	150 "	Loom.....
" " " " " " 16 ".....	37.00	6.00	8.00	160 "	Loop.....
Drill Attachment only.....	12.50			50 "	Loosen....
One-Horse Detachable Drill.....	18.00			75 "	Lotion....

BRADLEY SULKY LISTER.

WITH SPRING LIFT AND CLEVIS.



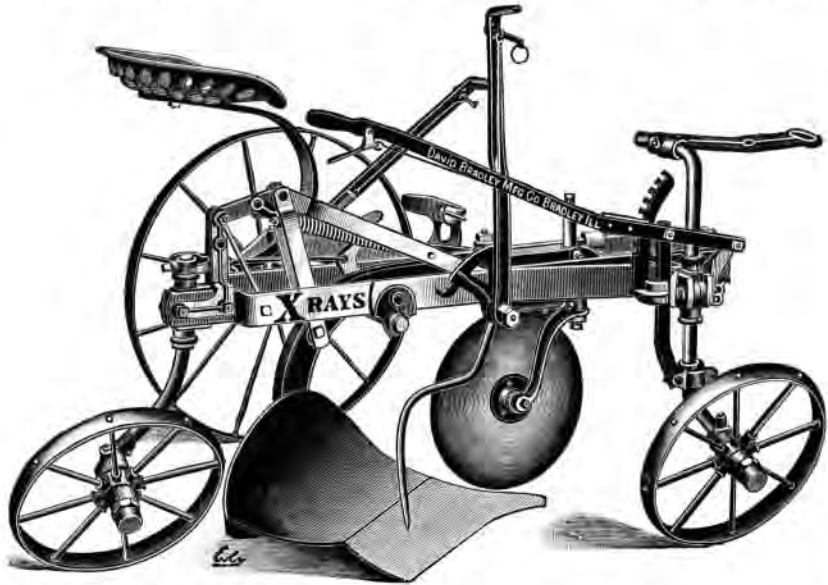
This can be used with three or with four horses. It has a spring clevis, which reduces the force of the shock resulting from striking fixed obstructions and almost invariably prevents breakage besides saving the operator from jar and chance of being thrown from the plow, when suddenly stopped. It also makes it easier for the team, and is besides a good dynamometer or indicator of the power which is required to draw the plow and shows whether in the varying kinds and conditions of the soil, three or four horses should be used. It has our X Rays spring lift, rendering it entirely practical and not at all overburdensome for the youngest person who can manage a team, to operate the plow all day long.

There is great range in adjustment of subsoiler and seed spout which can be raised or lowered independently of each other. It has a pair of covering shovels which are adjustable up and down and which enable the operator to plant the seed at the bottom of the furrow, or at any desired distance above it. The dropping mechanism which has a most positive action and is the most simply constructed of any in use, is driven by a gear attached to one of the main or ground wheels. This gear is automatically thrown out of mesh whenever the plow is raised for transportation or for turning at the end of the row. Distance between drops is regulated by using different plates as is understood by all farmers:—An 8-hole plate drops 12 inches apart, a 7-hole plate drops 16 inches apart, a 6-hole plate drops 20 inches apart.

The plow bottoms used are made with "lap" moldboards and are put together with wrought steel frog and thoroughly bolted and secured in all their joints. That they are stronger than any bottom put together with a cast frog, goes without saying. A hand lever as made by us is one of our "Trade Marks" so to speak. Anyone who tries it readily sees that it handles very much easier and a great deal more conveniently for the operator than the old, straight lever used by others. Strongly made and on the latest plan that up-to-date experience in methods of listing and the use of listers have suggested to thinking and ingenious farmers, it stands as a model for Strength, Lightness, Simplicity, Durability, the ease with which it can be handled and the results that can be obtained by its use. It has been thoroughly tested and perfected as we never make and send out experimental machines for the farmers to be to the expense of trying and experimenting with.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Sulky Lister with spring lift and spring clevis, 14-inch	\$ 57.00	.....	Lion.....

"X RAYS" SULKY PLOW.



This embraces all the latest ideas that are practical and valuable, and is fully up to the requirements of the most critical and exacting. It has a high lift which is now generally demanded, and which is considered ONE of the essentials to a good sulky or gang plow. Some manufacturers have gone TOO far, and have sacrificed desirable features to the one idea of high lifting, until they have a plow which lifts higher than it should and higher than is at all necessary, and at a cost of a **weakened** plow because of the extra length of the connections between frame and plow. We have avoided the over doing of it by making our plow to raise **high enough** for **all conditions** that are ordinarily met with, yet **without** too long cranks and braces. Our plow has a lifting spring which helps to raise it and which is attached in such a way as to exert great power when brought into action. This is why our sulky handles the easiest. A twelve-year-old boy of average weight and strength can easily raise the plow out of the ground with a man standing upon the wing of the moldboard. The bottoms used are the well known "Garden City Clipper" shapes, which have won the reputation of having the most UNIFORMLY HARD TEMPERED and PERFECTLY SHAPED moldboards and shares

A **Patented Stop** holds the beam solidly to the frame when the lever is latched; so that the frame is practically an extension of the beam, and gives therefore all the advantages of a **BEAM HITCH**; at the same time it possesses the good features of a frame hitch, in that the operator does not have to lift the doubletree or equalizer nor pull against the draft of the team when raising the plow out of the ground. This construction also carries the plow on the wheels, avoiding bottom friction and securing

Light Draft.—Nowhere, in all that pertains to farming, is true economy more noticeable or more quickly appreciated than in the **saving of horse power**. Quick results follow. Less team; less to keep them; more work done, and done much more satisfactorily to man and beast. We are pleased to be able to say that we have incorporated into the construction of our X Rays Sulky those features that have heretofore made ours the lightest draft sulky plows in the World; and we coolly and confidently assert that the plows above named save from 50 to 75 lbs. draft over any other sulkies yet produced. We have proved it over and over again with a dynamometer.

A large comfortable seat set on a steel seat-spring makes it very easy riding for the largest person.

PRICE OF AND CODE WORDS FOR "X RAYS" SULKY PLOW With Caster Colter and Three-Horse Equalizer.

SIZE.	LIST PRICE.	BOTTOMS ONLY.	WEIGHT UNBOXED.	STUBBLE BOTTOM.		ST. AND SOD BOTTOM.		BREAKER BOTTOM.	
				R. H.	L. H.	R. H.	L. H.	R. H.	L. H.
14 inch.....	\$ 59.00	\$ 15.00	429 lbs.	Grinning	Gripe.....	Gripping	Grist.....	Groan.....	Grog.....
16 inch.....	60.00	17.00	441 "	Groin.....	Groom.....	Ground...	Group....	Grow.....	Growing..

Breaker Bottoms have an extra share.

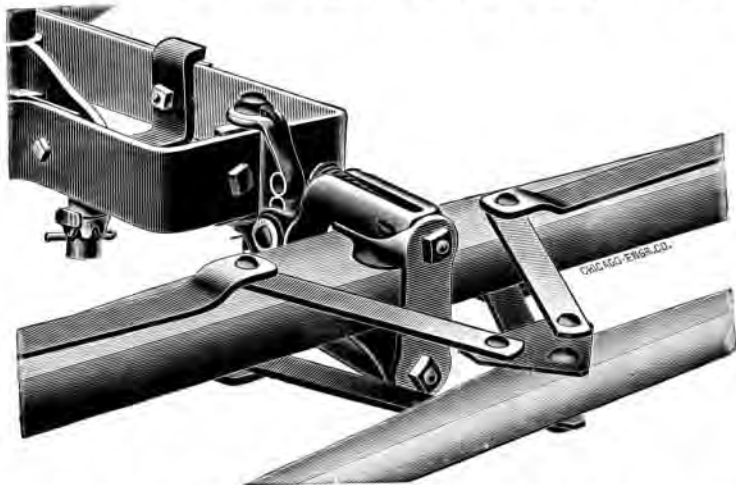
"X RAYS" SULKY PLOW CRATED FOR SHIPPING.

(SEE PRECEDING PAGE.)



It is a source of great satisfaction to dealers to have their sulky plows ready for immediate work when received. This saves time in setting up, and avoids any possibility of getting them together wrong. They are in compact shape ready for loading into the customer's wagon, and are adjusted for work, so that by uncrating, putting on the wheels, colter, equalizer and pole they can be hitched to at once, and will run right. Below will be seen a cut of our

PATENTED SPRING CLEVIS.



This eases the shock whenever the plow strikes an obstruction, and gives, at all times, a more even and therefore less fretting draft to the team. It also acts as a sort of dynamometer, indicating very clearly whether the plow is pulling light or heavy.

"CHAMPION" TWO OR THREE-WHEEL SULKY PLOW.



SHOWN HERE WITH THREE WHEELS. SOLD WITHOUT REAR OR THIRD WHEEL WHEN SO ORDERED.

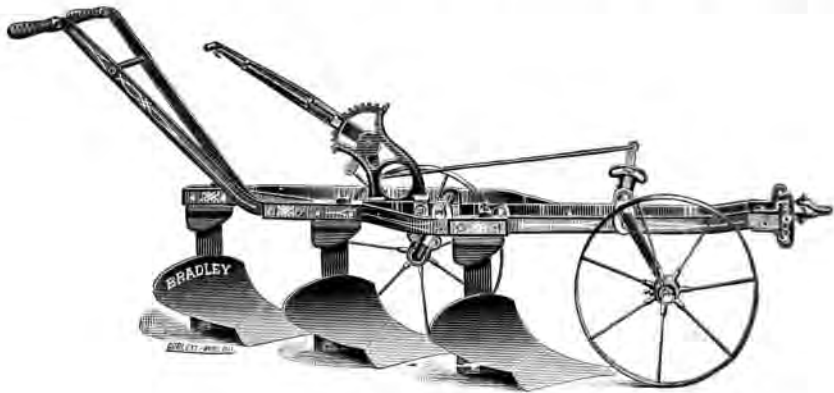
This plow is suited for use in all kinds of soil, doing good work wherever any sulky plow can be used, by selecting the appropriate bottom, any style of which can be attached to this frame. It is extremely simple in construction and can be operated by a boy as well as by a man, since the operation is rendered very easy by lifting-springs on each lever. Being made almost wholly of iron and steel it is very durable. The width of cut can be changed by moving the beam on the axle. In this way a wide cut plow can be used to cut only as wide a furrow as the condition of the soil and the size of the team may make appropriate. We furnish 10, 12, 14 or 16 inch bottoms, as wanted. When rigged with our "Garden City Southern Clipper" bottoms they are specially adapted for Texas and other Southern States.

KIND OF IMPLEMENT.			LIST PRICE.	STEEL BOTTOMS.	WEIGHT UNBOXED.
"Champion" Single Furrow 2-Wheel Sulky Plow with Caster Colter, 3-horse Equalizer and Neckyoke, and with	10 in. Blackland Bottom with Extra Point.		\$ 48.00	\$ 15.00	358 lbs.
	12 " " " " " " " "		50.00	15.00	360 "
	14 " " " " " " " "		52.00	18.50	369 "
	12 " St. and Sod " " " " "		52.00	16.00	366 "
	14 " " " " " " " "		53.00	18.50	373 "
	14 " St. or St. & Sod " without " " "		49.50	15.00	361 "
"Champion" Single Furrow 3-Wheel Sulky Plow with Caster Colter, 3-horse Equalizer and Neckyoke, and with	16 " " " " " " " "		50.50	17.00	373 "
	10 in. Blackland Bottom with Extra Point.		53.00		395 "
	12 " " " " " " " "		55.00		397 "
	14 " " " " " " " "		57.00	See	406 "
	12 " St. and Sod " " " " "		57.00	above.	403 "
	14 " " " " " " " "		58.00		410 "
	14 " St. or St. & Sod " without " " "		54.50		393 "
	16 " " " " " " " "		55.50		410 "

CODE WORDS FOR ABOVE.

KIND AND STYLE.	TWO WHEEL.		THREE WHEEL.		
	R. H.	L. H.	R. H.	L. H.	
"CHAMPION" Single Furrow Sulky Plow with Caster Colter, 3-horse Equalizer and Neckyoke, and with ...	10 in. Blackland Bottom and Ex. Point	Goodness	Goose	Gordian	Gore
	12 " " " " " " " "	Gorging	Gormand	Gossamer	Gosling
	14 " " " " " " " "	Gospel	Gossip	Gothic	Govern
	12 " St. and Sod " " " " "	Grace	Graceful	Gracious	Grading
	14 " " " " " " " "	Granting	Granville	Grape	Graphic
	14 " " " " " no " " "	Graduate	Graft	Grafting	Graham
	16 " " " " " no " " "	Grainng.	Grammar	Grampus	Grand
14 " Stubble " no " " "	Grandly	Granness	Grandson	Grange	
16 " " " " no " " "	Granite	Granny	Grant	Granted	
Rear Wheel, complete, for "Champion" Sulky Plow				Grasp	

"BRADLEY" VINEYARD GANG PLOW.



STEEL BOTTOMS—8 inch cut.

Its Uses:—To cultivate in Vineyards, Hopyards and Orchards—in short to plow between and close up to trees or vines without injuring them or their roots; also for plowing stubble fields, corn fields, and summer fallow, and for putting in small grain, etc., etc.

Size and Capacity:—Each bottom cuts a furrow 8 inches wide. It is intended for plowing from 2 to 4 inches deep.

Two or Three Furrow:—The rear bottom and that portion of the frame which holds it in position, can be removed from the three-furrow Gang, leaving a two-furrow plow.

The removal of the rear bottom does not in any way interfere with the handles or other mechanism by which the plow is operated.

Adjustability:—It is desirable, when cultivating in Vineyards (as well as at some other times) to throw the dirt away from the vines, at some seasons of the year, and at other seasons to ridge up—i. e. to throw the dirt towards them. To do this without injuring the vines, the plow must set so that the bottom nearest to them will cut shallow while the others go deeper. This can be done by "winging" the plow as it is called.

The slotted crank-arm holder on the forward wheel axle, together with a second pin projecting from the lever butt, to which the connecting-rod can be changed, provide for an adjustment which will wing the plow sufficiently to meet the requirements above mentioned.

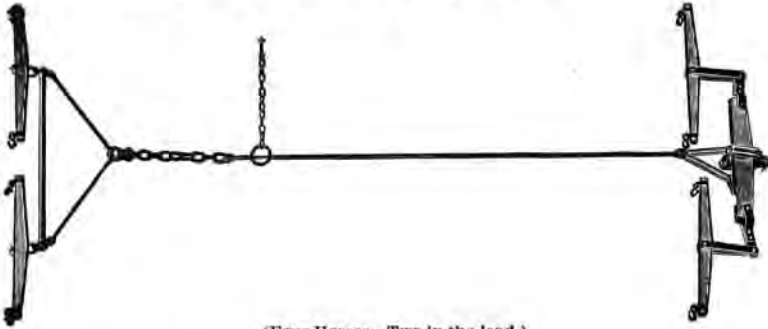
Material and Construction:—It is made entirely of steel and iron. The frame is light, yet being of wrought iron, is amply strong for all purposes to which the plow will be put. The bottoms are the celebrated "Garden City Clipper" shapes—well known the world over as the most uniformly hard tempered and the finest shaped plows for light draft and cleaning qualities, of any yet made.

One lever only operates the gang. The clevis is sufficiently wide to give any side adjustment necessary for the landing of the plow.

Light Draft:—With no superfluous weight to haul, and with bottoms so shaped as to turn the soil with least possible friction and consequent resistance, the draft of this Gang is exceedingly light.

KIND AND STYLE.	LIST PRICE.	EXTRA STEEL SHARP.	WEIGHT UNBOXED.	CODE WORD.
Vineyard Gang—three-furrow—cuts 24 inches.....	\$ 45 00	\$ 1.10	233 lbs.	Grayson.
Vineyard Gang—two-furrow " 16 "	35 00	1.10	183 "	Greatness.

FOUR-HORSE EQUALIZERS.



(Four Horses—Two in the lead.)

When four horses are used to draw a gang plow, or to haul a load of any kind, the draft is of necessity unequally distributed when hitched in the usual way, each span drawing the entire load at times, causing a good deal of jerking on the horses' shoulders, often making them sore, and making it much harder on the team, on the harness and on the implement or vehicle drawn. Our Equalizer with its spring clevis obviates this "wear and tear" entirely, saving its cost over and over again in a few years, besides MAKING IT MUCH EASIER FOR THE TEAM. Its construction and operation can readily be seen by reference to cut. A description of the spring clevis will be found on page 29.

A lead-rod, spread-bar and two front whiffletrees, as shown in cut, go with the Equalizer, to which a team can be hitched ahead of the other.



(Four Horses abreast.)

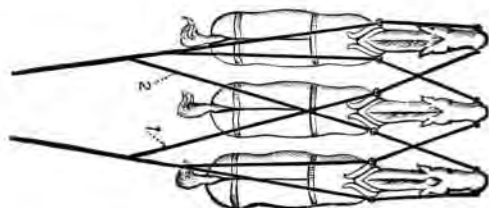
Some prefer to hitch four horses abreast instead of two in the lead, claiming that the team is nearer the work and that lighter draft results; while champions of "two in the lead" claim that in warm weather it makes it too hot work for the inside horses when hitched four abreast. We are prepared to suit either, and believe we have the very best of the two kinds. Hitched with our four-horse evener above shown, one horse travels in the furrow and three on the unplowed land.



(Four Horses abreast for Sulky Lister.)

This is made especially for use on our Sulky Listing plow (see page 26). It can be changed to use with three horses by detaching one of the end eveners and putting a singletree in its place; then moving the spring clevis to a point on main evener which equalizes the draft.

DIRECTIONS FOR ARRANGING LINES FOR THREE HORSES.



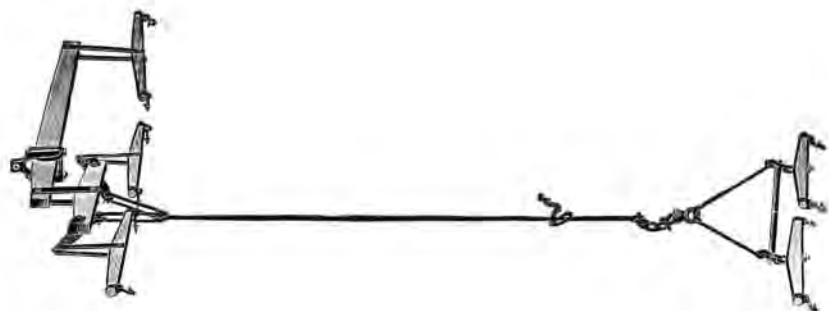
The above cut shows how to arrange lines for three horses. When so arranged the horses are under better control than when using a jockey stick. Figures 1 and 2 indicate the extra lines that are to be added to a common pair to make lines for three horses.

THREE-HORSE EQUALIZER.



This will be found a perfect equalizer for the draft of three horses. The cut gives a very clear idea of its construction. A main wooden evener, on each end of which are mounted wrought equalizer bars, with the fulcrums so placed as to equalize the draft. A spring-clevis is attached, the merits of which are given on page 29.

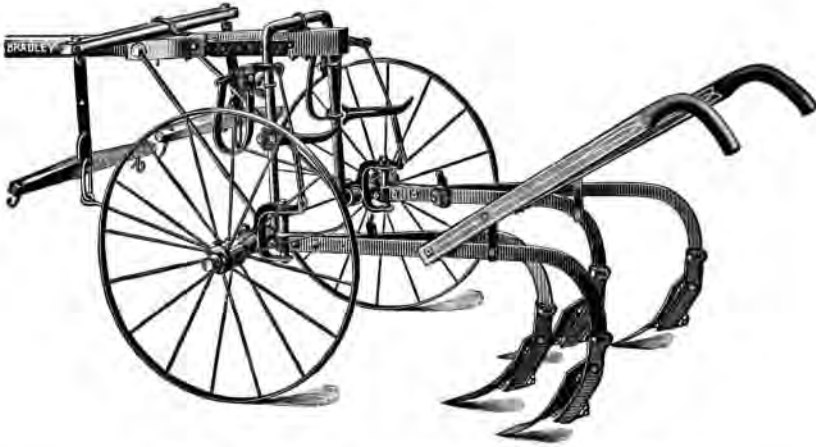
FIVE-HORSE EQUALIZER.



This is for use on gang plows when the width of furrow cut, the character of the soil or the size of the horses make it advisable to use five.

WHEEL CULTIVATORS.

The term "Wheel Cultivator" is applied to those having two wheels, mostly used with two horses, and which straddle the row when cultivating it, one wheel and one horse traveling on each side of the row. It embraces Walking, Riding, Combined and Tongueless Cultivators.



"BRADLEY" WALKING CULTIVATOR—Steel Beam.

This shows our "Bradley" Walking Cultivator with Steel Beams, Steel Wheels, Single Pole, Spring Attachment, Improved Couplings and Malleable Shovel Sleeves. It is made for cultivating corn, cotton, potatoes or anything grown in rows far enough apart to admit of its use. The frame is made of wrought iron, thoroughly braced in such a manner as to make it very strong, and at the same time light. Double poles are attached to this frame when wanted. Wood Beam, Combination Beam, Parallel Beam and Eagle Claw Beams can also be attached in place of the Steel Beams shown, when preferred, they being interchangeable.

The shovel sleeves are now made of malleable iron and are held in position by a wooden break-pin. The sleeves have a series of bolt-holes at the top for changing the pitch of the shovels.

They can be gauged to plow any desired depth. The spring attachment is so constructed that when the plows are in the ground the springs have just sufficient lift to bring them back to their proper position after being forced down by the hand for the purpose of cultivating in dead furrows or other low places. When raising the plows out of the ground the operation is made so easy by the action of the springs that a boy can easily do it. These are much used for cultivating fallow ground, for which purpose a fifth or center shovel is attached. It then moves and cultivates all the surface over which it passes. It is also well adapted for putting in small grain, giving the soil a more vigorous stirring than a harrow. Shovel shapes of various kinds can be used on it. The four shovels shown in cut constitute the "regular" outfit. When others are wanted, they are extra.

The blocks on the shovels are steel, fastened on with bolts, so they can be taken off if necessary.

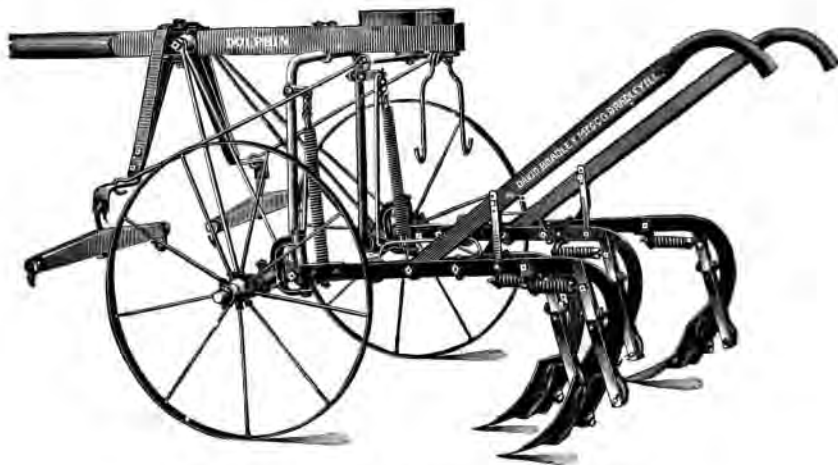
The very best quality of material is used in the construction of these cultivators and they are finished in excellent style.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
"Bradley" Walking Cultivator with Springs, wood or iron beam, wood wheels, shields and four 5 or 5 1/4 in. shovels	\$22.00	211 lbs.
"Bradley" Walking Cultivator with Springs, wood or iron beam, steel wheels, shields and four 5 or 5 1/4 in. shovels	22.75	215 "
"Parallel Movement" Beams, complete with four shovels, per pair	14.50	
Eagle Claws, with four mild tempered shovels, per pair, without couplings	10.00	
Eagle Claws, with four hard tempered shovels, per pair, without couplings	12.00	
Center or Fifth Shovel for Bradley Walking Cultivator	3.20	
Extra for Parallel Movement Beams on Bradley Walking Cultivator, in place of regular beams, per pair	2.00	
Extra for Spring-Break Attachment in place of regular beams	3.00	
Gopher Blades, per pair	2.00	
Scraper Blades, per pair	2.50	
"Dixon" Sweeps, 12 inch, per pair	2.50	
5 or 5 1/4 inch Shovels, with block, for Bradley Walking Cultivator, each	1.50	
2 1/2 inch Shovels, with or without block, for Bradley Walking Cultivator, each	.60	
6 or 7 in. Moldboard Shovels, diamond pointed, for Bradley Walking Cultivator, right and left, per pair	4.00	

Shields to prevent the dirt covering the corn when small, go with each cultivator, although not shown in cut.

See index for Code Words for Cultivators and Cultivator Attachments.

WHEEL CULTIVATORS—Continued.



“DOLPHIN” WALKING CULTIVATOR.

With Compound Lifting Springs.

This Cultivator, like the Bradley, has a continuous solid wrought arch the ends of which form the axles. This arch is clipped and double braced to the pole, which construction forms a strong substantial frame to which any of the several popular styles of gangs made by us can be attached. The cut shows it with two-shovel wrought beams, having our latest spring-break attachment. We make two-shovel, three-shovel, eagle-claw, gaspipe, spring-tooth and spring-break gangs, which can all be used on this frame, thus suiting the cultivator to a wide range of work which will doubtless embrace the preferences of every farmer, no matter what style of cultivation he may prefer.

Compound Lifting Springs—the newest and best invention yet for the purpose intended. They are adjustable to suit the weight of any gang. The tension can be quickly increased or lessened at the top of the spring, while at the bottom its leverage can be graded to suit the kind of gangs used. Their action is simply perfect—no spasmodic jerking of an over-stretched spiral spring whose lifting force gets gradually less and less until finally the operator has to do all the lifting, but an easy, continuous lift that makes it pleasant work for even a boy to handle the gangs.

Depth of Cultivation can be nicely regulated by the adjustment of the springs, by raising or lowering the front ends of the beams on the coupling sleeve and by the setting of the shovels. It has

A Double Steel Evener with low slope which brings the whiffletrees into line of draft and prevents any downward pressure upon the necks of the team.

The Old Reliable Bradley Coupling is used, the malleable jaw of which is adjustable sideways upon a long sleeve which gives a long bearing on the frame and prevents wobbling.

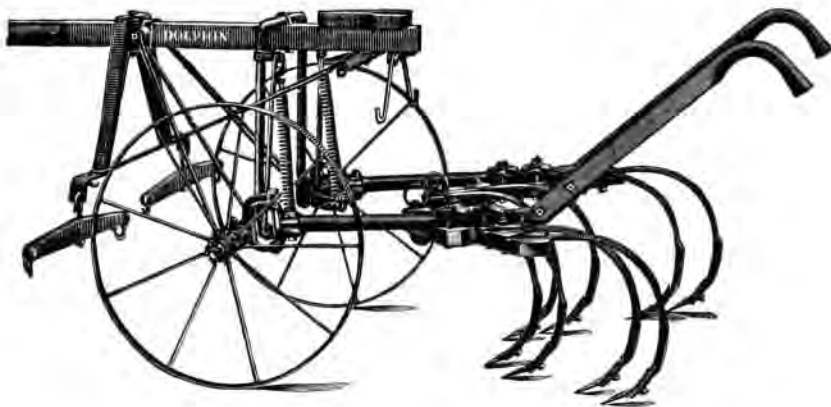
Steel Wheels with straight spokes are used. They have a renewable boxing which can be easily replaced at slight cost, thus repairing any wear that may occur in the hub box.

Shovels of Various Shapes and Sizes, Scrapers, Gopher Attachments, and all the attachments usually made for cultivators can be used on the Dolphin.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
“Dolphin” with compound lifting springs, iron beams, steel wheels and four 5 or 5¼ in. shovels...	\$ 22.75.	227 lbs.

All of the Gangs and Attachments named under “Bradley Walking Cultivator,” page 35, can be used on this. See Code Words for “Cultivators and Attachments” on another page.

WHEEL CULTIVATORS—Continued.



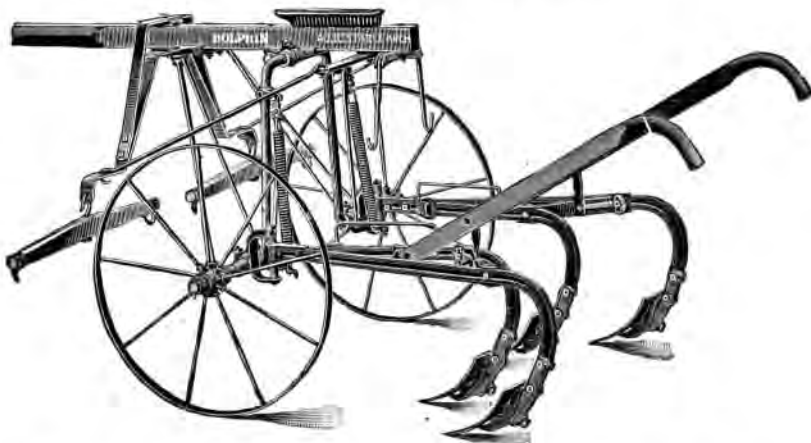
DOLPHIN SPRING TOOTH CULTIVATOR.

Pole is now put above the Arch, although cut shows it underneath.

Excels any yet produced in the fewness of parts necessary to make the required changes, and in the ease and quickness with which these changes can be made.

Great variety of Adjustment.—The front ends of the beams can be rotated in the couplings into which they fit, by doing which the teeth nearest the plant can be raised higher than the outer ones, or VICE VERSA. The wood cross-heads (see cut) to which the teeth fasten, are in two sections, each section carrying two teeth. They can be attached to the gaspipe beam as shown in cut, with inner teeth on each beam set furthest forward; or, the front or inside sections of cross-heads can be transferred from one beam to the other and set at right angles with the outer section, thus putting the inner teeth in position to throw some of the dirt towards the crop.

They can be attached to any of our Walking Cultivators.



DOLPHIN ADJUSTABLE ARCH WALKING CULTIVATOR.

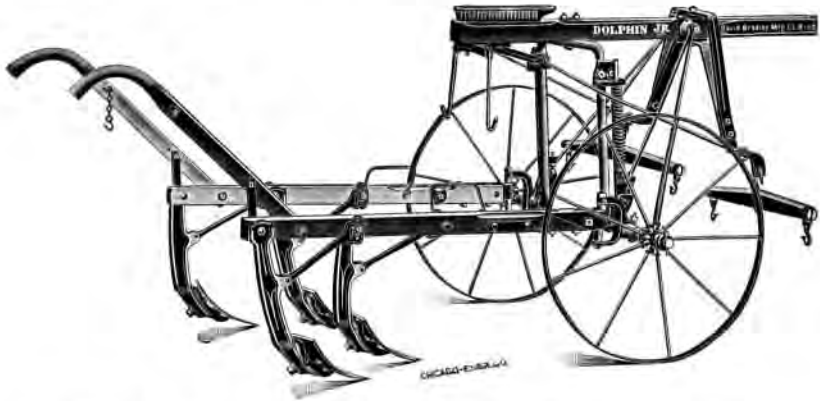
With Regular 2-Shovel Gangs.

The arch on this cultivator is in two sections which can be set in or out, to vary the distance between wheels or gangs; otherwise it is the same as the Single-Arch Dolphin shown on preceding page, and takes all the different styles of gangs which can be used on that cultivator.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
Dolphin Spring-Tooth Cultivator with Gaspipe Beams, wood cross-heads, steel wheels.....	\$24.75	224 lbs.
Dolphin Adjustable Arch Cultivator with regular 2-shovel gangs, steel wheels.....	22.75	227 "

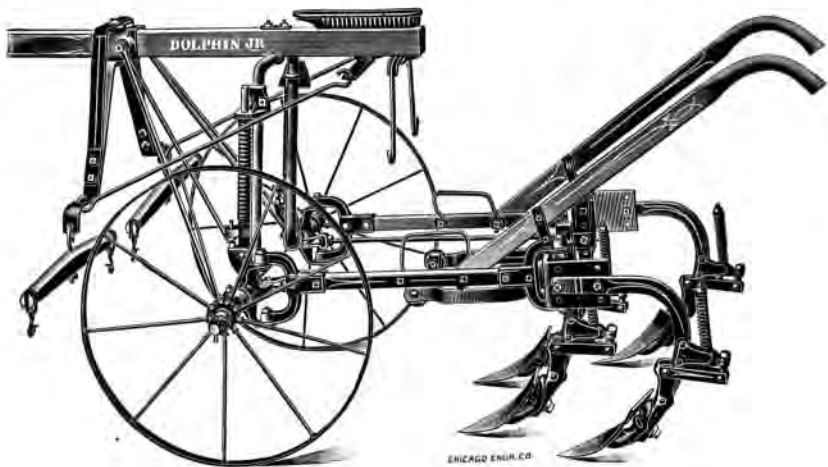
See Index for Code Words for "Cultivators and Attachments."

WHEEL CULTIVATORS—Continued.



DOLPHIN JR. WALKING CULTIVATOR, With Combination Beams.

The Dolphin Jr. is identical with the Dolphin shown on preceding pages, excepting the lifting springs and the way in which they are attached. The casting which compresses the spring at the top is adjustable up and down on the arch which admits of a greater range of adjustment of the spring for lifting force, and is therefore better adapted for handling the lighter and the heavier gangs. The same of styles gangs can be used on this as on the Dolphin. Depth of cultivation can be regulated by set-screws in the bracket at bottom of spring-rod. See cut of springs on next page. Below we show it with parallel beam gang, having rear spring break and adjustable front standards.



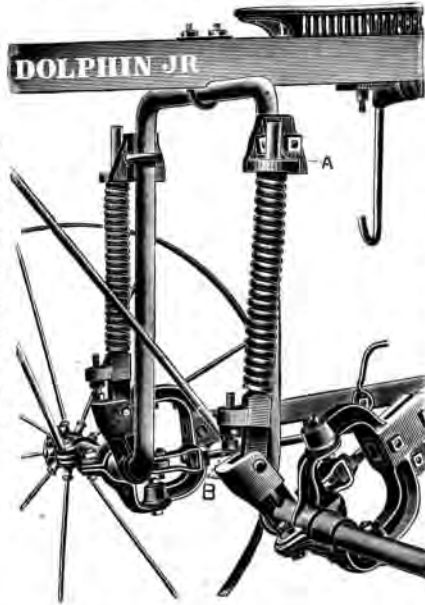
**DOLPHIN JR. WALKING CULTIVATOR,
With Parallel Beams, Front Adjustable Standards and Rear Spring-Break.**

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
Dolphin Jr., with combination beam gangs, four-shovel.....	\$22.75	245 lbs.
" " parallel beam gangs, front adjustable standards and rear spring-break.....	27.75	312 "

See Index for Code Words for Cultivators and Attachments.

SPRING FOR DOLPHIN JR. CULTIVATOR.

This shows one gang up and one down. Casting "A" which compresses the spring at the top is adjustable up and down on the arch, thus providing for more or less lifting force, as the weights of the different gangs may require. The set-screw "B" is used to vary the depth of cultivation.



As will be seen, turning the set-screw up lets the beam go lower and the shovels deeper; while turning it down carries the beam higher, and makes the shovels run shallower.

When the desired depth is obtained, a check-nut firmly fastens the set-screw in position.

GOPHER CULTIVATOR.



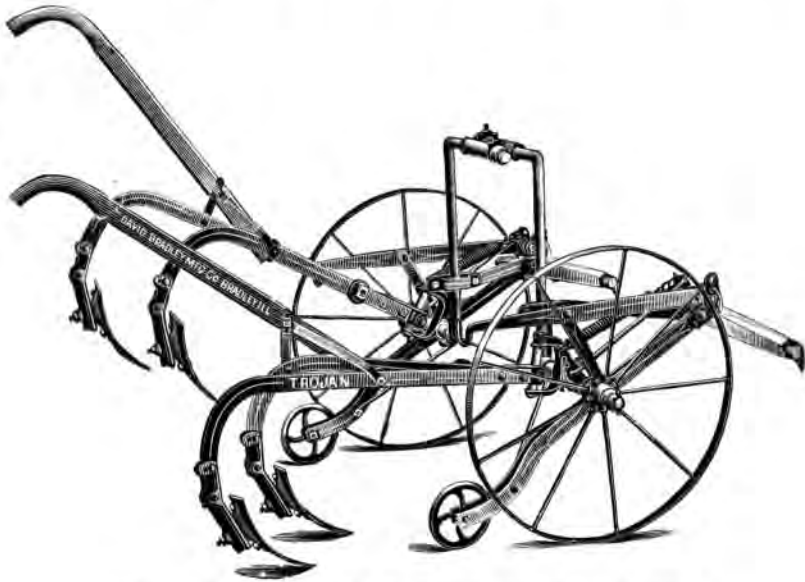
This implement is popular in many places, especially so where shallow cultivation is preferred. The shovels are rigidly set, at a pitch which gives proper depth of cultivation; and, as they are long and set on a slant, they thoroughly cut all weeds and grass, and pulverize the top soil. Having no wheels they can be sold cheaper than wheel cultivators.

They have a pendant equalizer on which an adjustment for draft can be made. A pair of scrapers (not shown in cut) used for hilling up, go with each cultivator.

KIND AND STYLE OF ATTACHMENT.	LIST PRICE.	WEIGHT UNBOXED.
Gopher Cultivator, with four blades and two scraper blades	\$17.00	134 lbs.
Gopher Blades, per pair	2.00	.....
Scraper Blades, per pair	2.50	.....

See Index for Code Words for Cultivators and Attachments.

WHEEL CULTIVATORS—Continued.



TROJAN SPRING-LIFT TONGUELESS CULTIVATOR.

With Patent Compound Lifting Springs.

This is a Tongueless Cultivator with Lifting Springs which, until lately, have been put only on pole cultivators. These springs are our patented compound springs, the same as are put on our Dolphin cultivator and give a continuous steady lift which makes the handling and lifting of the gangs so easy that a boy can handle them without trouble. A small wheel on the foot of the drag-bar that forms a part of the trussed gang support does away with the friction of the old-style drag-bar and lightens the draft.

The Arch is adjustable so that the wheels and gangs can be spread further apart or worked closer to each other, thus adapting them for cultivating crops planted at differing distances apart; it also obliges each horse to do his part of the work, as each section of the arch, with its attached wheel and plow can oscillate forward and backward independently of the other.

The Bradley Couplings are used on this. They admit of great adjustment of the front ends of the beams (where it couples to the frame) either sideways or up and down, thus helping to regulate the depth of cultivation by changing the pitch of the shovels; also varying the distance between the plows. The pitch of the shovels can also be changed by changing the position of the malleable shovel sleeves, in the top of which are bolt-holes for that purpose.

The cultivator is shown in cut with our regular two-shovel gangs, but we furnish three-shovel, eagle-claw, spring-tooth and spring-break gangs when wanted.

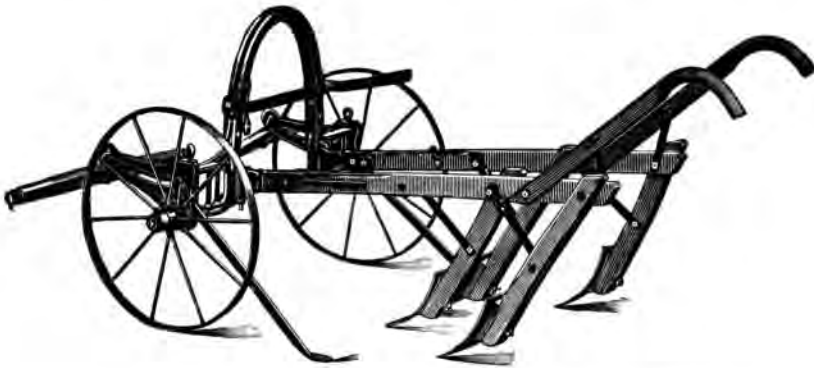
The shovels, except on spring-break gangs, are attached to malleable sleeves, which are held to their position and work by wooden breakpins. The shovels have side adjustment for throwing the dirt TO or FROM the crop.

Steel wheels only are used on the Trojan.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
"Trojan" Spring-lift Tongueless Cultivator, adjustable arch, iron beams, with four 5 or 5¼ inch shovels	\$ 22.00	235 lbs.

All of the Gangs and Attachments named under "Bradley Walking Cultivator," on page 36, can be used on this. See Code Words for Cultivators and Attachments on another page.

WHEEL CULTIVATORS—Continued.



"COMMON SENSE" TONGUELESS CULTIVATOR.

Very simple, very effective and therefore very popular.

Has Double Wrought Steel Arch, wood beams, steel wheels and twisted shovels either mild or hard tempered.

Adjustable Drag Bars keep the arch in position when the Gangs are hung up for going to or from the field, but they can be fastened up out of the way when not in use.

The Gangs Draw in Line at all Times being hinged to the frame. The Draw Arms to which the axles and wheels attach are pivoted to the frame so that the wheels, also, draw in line should one horse travel ahead of the other. On side hill where a cultivator naturally inclines to work down hill a little, the draft of the team would incline the wheels to run up hill somewhat and thus overcome the downward inclination.

Each Horse is Obligated to do his Share of the Work.

It is Easy to Handle and Very Light Draft.

The shovel standards on the wood beam gangs are held in position by wrought braces in which a series of holes permit the pitch of the shovels to be varied to suit the work being done.

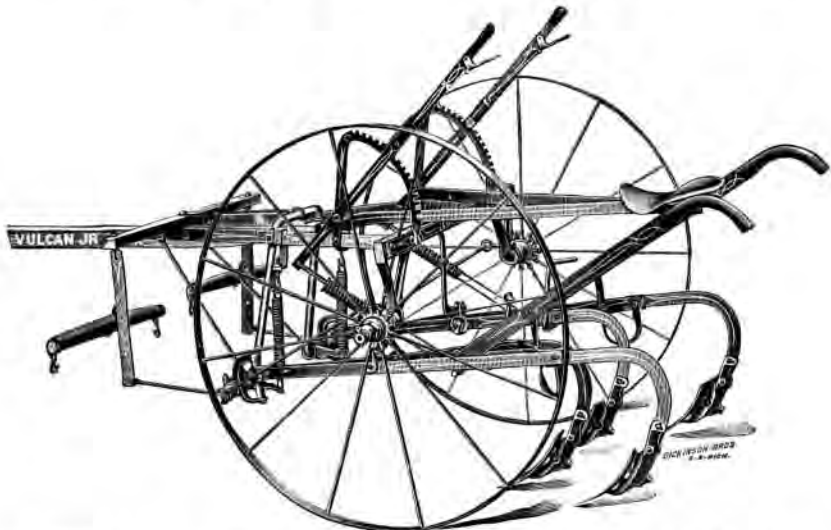
Wooden Safety Pins prevent the breakage of shovels. The dirt can be thrown to or from the crop by transposing the shovels from one gang to the other.

Depth of Cultivation can be varied by inverting the coupling head; also by changing the pitch of the shovels.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
"Common Sense" Tongueless Cultivator, wood beam, steel wheels and four 5 inch shovels.....	\$ 21.00	181 lbs.

See Code Words for Cultivators and Attachments on another page.

WHEEL CULTIVATORS—Continued.



VULCAN JR. COMBINED RIDING AND WALKING CULTIVATOR.
With Raising Springs and Foot Treadles.

The Vulcan Jr. has all of the best features of the old Vulcan Cultivator, made by us for many years, to which have been added late improvements which make it an ideal implement.

The frame is all steel and iron, thoroughly braced, making it strong yet light and durable. It is adjustable, so that distance between wheels and gangs can be changed, to adapt it to the cultivation of various crops, the rows of which differ as to distance apart. The coupling jaws to which the gangs attach can also be moved sideways on the sleeves, which gives additional variation.

It has Foot Lifts and Lever Lifts for raising the gangs out of the ground. The foot lifts are generally used when the operator is on the cultivator, but for going to and from work the hand levers raise the gangs and hold them up until again ready for work; they also help to regulate depth of cultivation.

Lifting Springs are so applied as to make it easy work to raise the gangs. The leverage of the springs can be changed to suit gangs of different styles and weights. A spiral spring in the connections between the hand levers of the gangs permits forcing the shovels down with the feet into dead furrows and other depressions, the recoil of the springs bringing the gangs back to their proper position again whenever the foot pressure is removed.

A Center or Fifth Shovel is furnished when wanted, by using which the entire surface of the ground can be cultivated.

The draft is equalized by an evener on top of the pole. Upright equalizer bars hang from the evener, and are connected by rods at their lower ends with the wrought arch at the point where the plows attach. The whiffletrees can be hooked to the upright equalizer bars at different heights. When used as a Walking Cultivator they are put at lowest point of hitch to take the weight of pole off the horses' necks. With these adjustments it can be perfectly balanced, so that when at work the pole does not fly up, neither is there any pressure on the necks of the horses.

It has an adjustable seat which can be moved forward or backward to suit the operator.

We use long beams which run steadier and handle easier than shorter ones. They are attached well forward on the frame which enables us to use the longer beams without carrying the shovels too far to the rear.

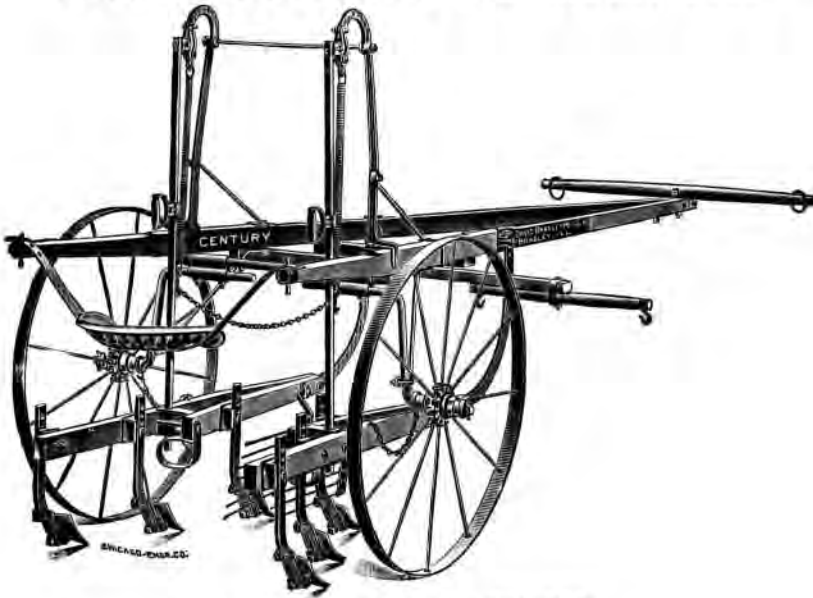
Several styles of gangs are made by us which can be used on the Vulcan Jr., viz.: four shovel, six-shovel, gaspipe beam with spring break, same with friction-break, parallel beam with pin-break and same with spring-break.

For cultivating listed corn and on ridges we have added to our parallel beam gangs a device whereby the outer and inner shovels can be raised or lowered at will, to adapt them to the shape of the ground to be cultivated, whether it be trench or ridge.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
"Vulcan Jr." Combined Riding or Walking Cultivator, iron frame, steel wheels, shields, and four 5 or 5½ inch shovels	\$33.00	330 "
Fifth or Center Shovel for Vulcan Combined Cultivators	3.20	
Shovels and Attachments, same as for Walking Cultivators. See under "Bradley Walking Cultivator" for description of same.		

See Index for Code Words for Cultivators and Attachments.

WHEEL CULTIVATORS—Continued.



CENTURY RIDING CULTIVATOR.

This is one of our late Riders and is a thoroughly up-to-date Cultivator in every respect. Cut shows it with double pole, but we also make it with a single pole. Three shovel gangs are shown in cut but we also furnish it with two shovel and with spring-tooth gangs when wanted; also furnish a spring-tooth center attachment for use with the spring-tooth gangs when it is desired to cultivate all the ground, or to harrow in grain. Some of its points of excellence are as follows:

Raising Springs so made and connected that when the gangs are raised they are held until the hand or foot again presses them down beyond the balancing point, when they will go the rest of the way of their own weight. When down the position of spring connections is such as to hold the gangs to their work until it is desired to raise them again.

An Expansion Arch provides for varying the distance between wheels, while the distance between gangs or plows can be changed by moving the front ends of the beams out or in.

The long beams run very steadily and are more easily moved sideways by the feet for dodging corn hills than shorter ones. They are attached to the frame well forward which brings the shovels directly in view of the operator so he can watch their operations at all times.

Ample provision is made for the adjustment of shovels, both up and down and sideways. There is a series of bolt-holes in the upper part of the shovel standards for raising and lowering them on the beams, while the shovels can be turned on the sleeve either to the right or left to throw the dirt towards or away from the crop.

Our Malleable Adjustable Shovel Sleeve is provided with a wooden breakpin which prevents breakage of shovels. It is adjustable on the foot of the shovel shank to give more or less PITCH to the shovels, as the condition of the soil or the work to be done may require.

It has a **Hammock Seat** adjustable for height and attached to movable side-bars which can be set forward or back as the weight of the driver may make necessary in order to balance the frame and keep the neckyoke from pressing upon the necks of the team.

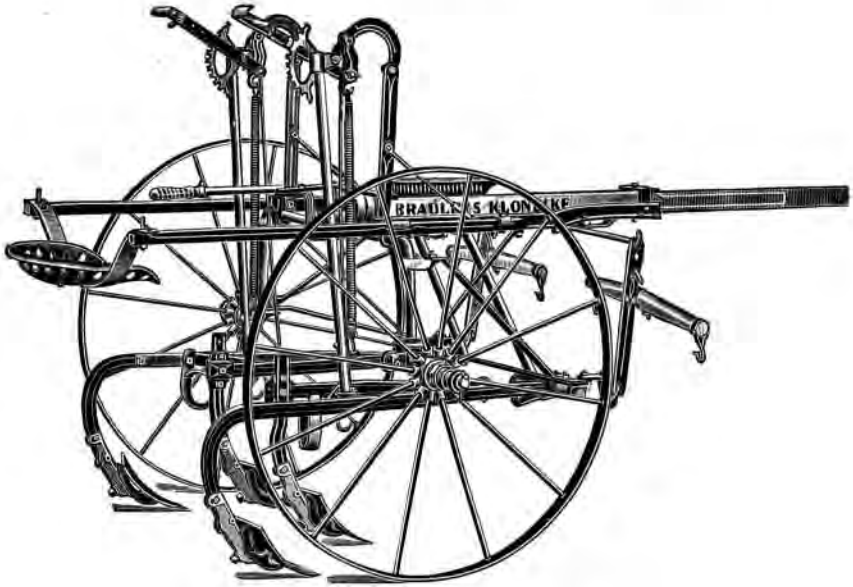
Steel Wheels are used, they being preferred by almost every one.

In the operating of this Cultivator it is optional with the driver to raise and lower the gangs either with his hands or with his feet. The exertion necessary is so small, in either case that a person old enough to manage a team properly in a corn field can easily handle the Cultivator.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
"Century" Riding Cultivator with patent lifting springs, double wood beam, steel wheels, shields and six 3 inch shovels.....	\$ 41.00	385 lbs.
Same with four 5 or 5 1/4-inch shovels.....	40.00	.....
Same with spring-tooth gangs.....	44.00	.....
Same with spring-tooth gangs and center attachment with 8 spring teeth.....	48.00	.....

See Index for Code Words for Cultivators and Attachments.

WHEEL CULTIVATORS—Continued.



**KLONDIKE PIVOTAL POLE CULTIVATOR,
With Two-Shovel Gangs.**

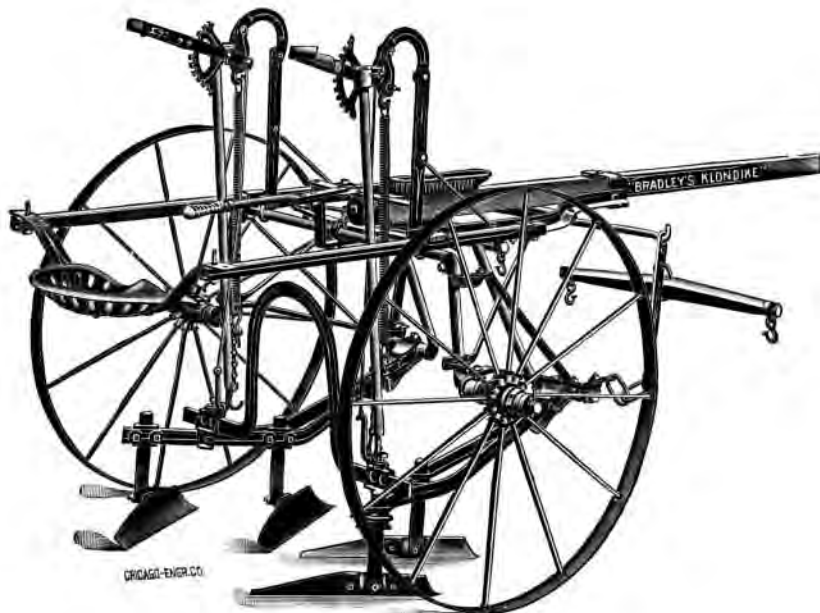
This Cultivator is so constructed that it can be made to dodge quickly any corn or cotton growing out of line. This is accomplished by pivoting the pole, about 3 feet from its rear end, to the front end of the frame and also by pivoting the arch to the pole. The rear end of the pole is then moved sideways at the will of the operator, by means of a hand lever, the effect of which is to immediately change the course of the wheels to the right or to the left according to which way the lever is moved, and also moves the arch to the right or left in its relation to the frame, the effect of which is to give an additional side movement to the shovels, carrying them quickly to one side or the other and with the greatest ease, as the effort required to operate the hand lever is very slight indeed, while the *immediate* response of the cultivator is wonderful. The same result can be obtained with the feet by pressing down upon the right or the left hand gang, the frame quickly turning to that side on which is the gang pressed down upon. The rear end of the pole can be locked fast, so that when the rows are straight and no occasion for dodging exists, a stiff pole cultivator can be had, if desired. The entire implement is made of iron and steel except the pole and whiffletrees, and is thoroughly braced. The hammock seat can be raised or lowered and can be set forward or backward so that the weight of the driver can be made to balance the cultivator. The same Lifting Springs are used on this as on our Century Cultivator, which are so adjusted as to hold the gangs up, when raised, until again pressed down by the hands or feet, beyond the balancing or turning point, when their own weight carries them the rest of the way. Depth of cultivation can be varied by means of the small hand levers at the top of the pipe standards, which are within easy reach of the operator. Additional braces from main to front arches are now put on, making it amply strong for heaviest work.

The styles of Gangs furnished for the Klondike are: two-shovel, three-shovel and Gopher attachment, as shown above and on succeeding pages.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
Klondike, with 2-shovel gangs, front adjustable standard, pin break, with shields	\$40.00	402 lbs.
" " 2- " " " " " " rear spring-break, with shields	43.00	420 "

See Index for Code Words for this Cultivator and Attachments.

WHEEL CULTIVATORS—Continued.



KLONDIKE PIVOTAL POLE CULTIVATOR.

With Gopher Attachments.

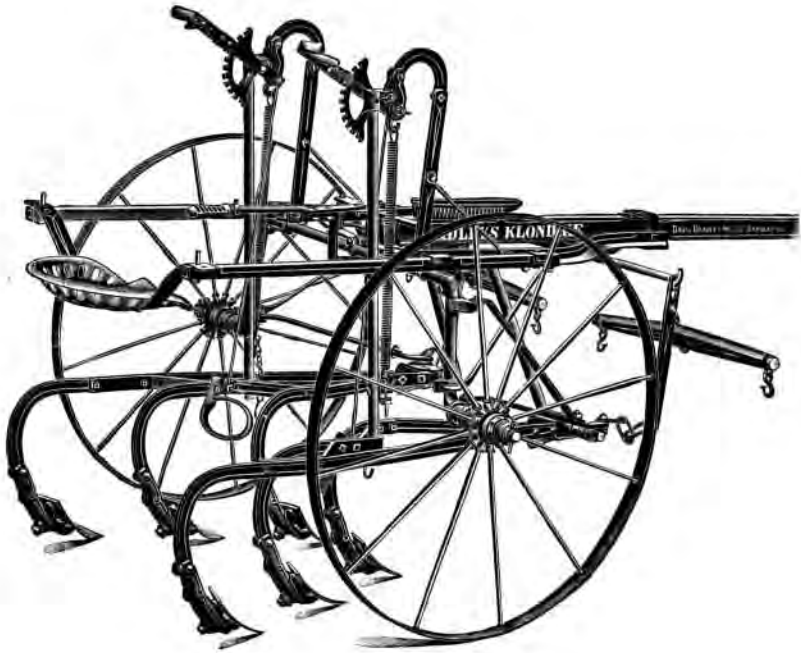
The Gopher Attachment, as used on this cultivator, is a gem. The perfect ease with which the blades can be handled enables the operator to catch all weeds and to thoroughly cultivate the surface of the ground, without injuring the roots of the corn. The shanks which carry the blades are adjustable up and down, and the blades can be slanted to adapt them to flat cultivation or to hilling up. Distance between gangs can be changed by moving coupling heads on the sleeves, and distance between wheels can be varied by setting them out or in on the axle. The gangs can be purchased at any time, so that any one having a Klondike Cultivator originally purchased with another style of gangs, can buy these, and thus have practically two cultivators.

For surface cultivation and for cutting up morning-glories and other weed pests they are splendid. You can dodge more quickly and further to one side than with other cultivators.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
"Klondike" Cultivator with steel beam gopher attachment	\$41.00	408 lbs.

See Index for Code Words for this Cultivator and Attachments.

WHEEL CULTIVATORS—Continued.



See description on preceding pages.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
Klondike Cultivator with three-shovel gangs, regular curved beams.....	\$41.00	406 lbs.

See Index for Code Words for this Cultivator and Attachments.

WHEEL CULTIVATORS—Continued.



“STEM WINDER” PIVOTAL POLE CULTIVATOR.

With Two-shovel Front Adjustable Standard Gangs.

This is all steel and iron and so constructed that it can be quickly turned to the right or left to dodge hills out of line, and also to keep it from inclining downward when cultivating on side hill.

Gangs can be raised with the hands or the feet. When going to work they can be locked up by means of the hand levers, which also regulate depth of cultivation. Although locked to run at a given depth, there are springs which allow the gangs to be pressed down by the feet so the shovels will cultivate in low places, but they will immediately regain their position when pressure is removed. When on the cultivator the gangs are raised by foot levers provided for that purpose. It can be made a stiff pole cultivator by locking the pole, which can be done quickly. The dodging device is constructed and operated as follows: The pole is pivoted three feet from its rear end to the frame, and 93 $\frac{3}{4}$ inches from the rear end it is also pivoted to the arch to which gangs attach. The rear end of the pole is moved sideways with a lever; or, by pressing upon either of the gangs with the foot, when at work in the ground, which turns the wheels and the arch to one side or the other as desired. It dodges quicker than cultivators whose wheels *only* are turned, because in addition to the turning of the wheels, the arch and the rear ends of the beams are also further moved the same way, giving a double side movement to the shovels. Width between gangs can be varied, also distance between wheels. Raising springs help to lift the gangs, making it very easy work even for a boy. Different styles of gangs can be used on the Stem Winder. Cut shows it with two-shovel break-pin gangs with front adjustable standard, but we can also furnish two-shovel and three-shovel regular gangs. Can also furnish the two-shovel gang with spring-break. Adjustable inner shovel standards (shown in cut) which we furnish on the two-shovel gangs only, can be raised or lowered to adapt them for cultivating listed corn. Seat can be raised or lowered and can be set forward or back to suit the operator. An evener and upright draft-bars to which the whiffletrees hook equalize the draft. The whiffletrees can be hitched at proper height to take weight of pole off the horses' necks.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.
“Stem Winder” with two-shovel steel beam gangs, front adjustable standard, steel wheels, shields and four 5 or 5 $\frac{1}{4}$ -inch shovels	\$40.00	402 lbs.
Same, except with spring-break	43.00	417 “
“Stem Winder” with three-shovel steel beam gangs, steel wheels, and six 5 or 5 $\frac{1}{4}$ -inch shovels	41.00	406 “

See Index for Code Words for this Cultivator and Attachments.

LISTED CORN CULTIVATOR.



This is an implement for cultivating listed corn. It is made with knives which can be raised for turning at the ends of rows, and which can also be fastened to cut either shallow or deep while cultivating. The distance of the knives from the plant can be varied. It does excellent work, and can be sold at a price considerably less than a wheel cultivator.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Listed Corn Cultivator, with runners.....	\$ 12 00	140 lbs.	Lobster...
Listed Corn Cultivator, with steel-shod runners.....	13 50	145 "	Lockjaw ..
Steel Knives or Blades, each.....	1 25		

POTATO DIGGER.



We make a Potato Digger, such as is shown by the accompanying illustration. The depth is regulated by the gauge wheel which is set to let the shoe go beneath the potatoes. The fingers separate them from the dirt, leaving them on top, and allowing the earth to fall through and fill the trench made by the shoe, which leaves the ground level. It has a steel beam and steel shoe; is substantially made and will do the work of several men with hoes.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Potato Digger, with gauge wheel.....	\$ 10 00	68 lbs.	Lashing..
Extra Shoe or Blade for same.....	3 50		Latching..
Gauge Wheel.....	1 50		Latent...

WHEEL CULTIVATOR GANGS.

Below and on the three following pages are shown several styles of Cultivator Gangs. Some slight changes have to be made on some of them to adapt them to riding cultivators instead of walkers, or VICE VERSA, but practically they are as shown, and give a very good idea of the various kinds made by us. Handles are attached when for walking or combined cultivators.

See pages 84 and 85 for description and code word.



No. 8 1/2. List, per pair, \$12.50.



No. 50. List, per pair, \$13.50.



No. 42 1/2. List, per pair, \$15.50.



No. 51 1/2. List, per pair, \$14.50.



No. 59 1/2. List, per pair, \$13.50.



No. 63 1/2. List, per pair, \$13.00.




No. 64 1/2. List, per pair, \$14.00.



No. 65 1/2. List, per pair, \$13.50.

WHEEL CULTIVATOR GANGS—Continued.

 See pages 84 and 85 for description and code word.



No. 66½. List, per pair, \$16.00.



No. 67½. List, per pair, \$16.00.



No. 68½. List, per pair, \$17.00.



No. 70. List, per pair, \$16.50.



No. 71½. List, per pair, \$13.50.



No. 76. List, per pair, \$16.00.



No. 77. List, per pair, \$14.50.



No. 44. List, per pair, \$15.50.

WHEEL CULTIVATOR GANGS—Continued.

See pages 84 and 85 for description and code word.



No. 53. List, per pair, \$16.00.



No. 80. List, per pair, \$16.50.



No. 78. List, per pair, \$12.00.



No. 74. List, per pair, \$12.00.



No. 62. List, per pair, \$18.00.



No. 46 1/2. List, per pair, \$18.00.



No. 48. List, per pair, \$12.00.



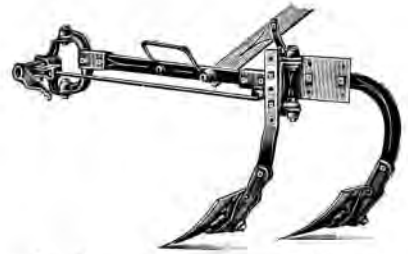
No. 52 1/2. List, per pair, \$13.50.

WHEEL CULTIVATOR GANGS—Continued.

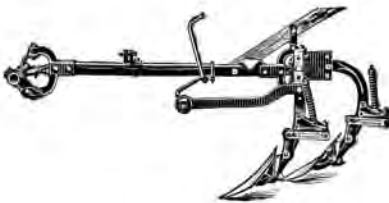
See pages 84 and 85 for description and code word.



No. 54 $\frac{1}{2}$. List, per pair, \$12.50.



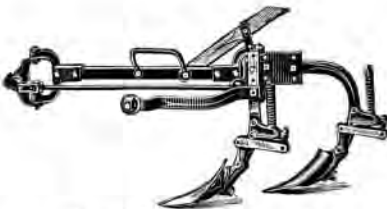
No. 57 $\frac{1}{2}$. List, per pair, \$14.50.



No. 60 $\frac{1}{2}$. List, per pair, \$18.00.



No. 61 $\frac{1}{2}$. List, per pair, \$15.00.



No. 73. List, per pair, \$17.50.



No. 75. List, per pair, \$17.50.

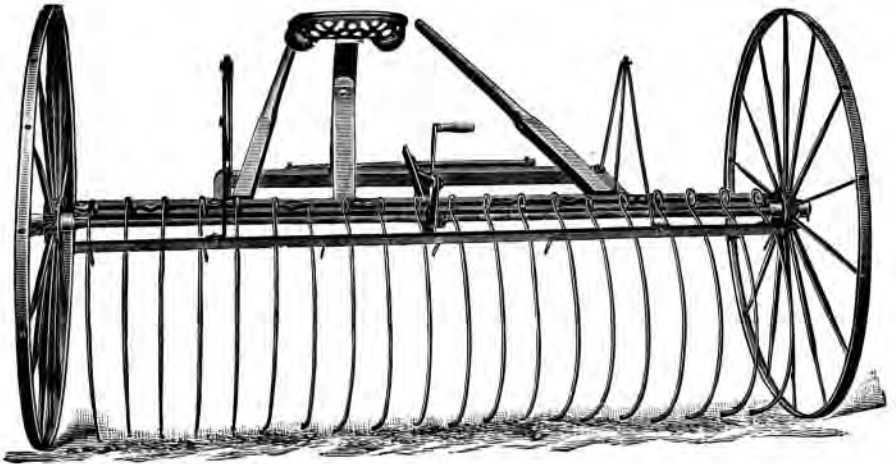


No. 69. List, per pair, \$14.50.



No. 59 $\frac{1}{2}$ with Gopher Attachment.
List, per pair, \$13.50.

SULKY HAY RAKES.



"QUEEN" ALL STEEL SULKY RAKE—Hand Dump.

Made 8, 10 and 12 Feet Wide.

See Queen Self-Dump on next page.

Head is of Angle Steel—one of the strongest shapes that can be produced from a given weight of metal. Underneath it is

A Continuous Solid Steel Axle, which supports the head and prevents sagging.

A Lock Lever holds the teeth to their work automatically. A slight upward motion of one hand releases the lock and the load is dumped—the operation being aided by the weight of the driver.

20 Spring-tempered Steel Teeth are furnished with 8 feet Rakes; 26 with 10 ft. and 30 with 12 ft. Rakes. The lower ends of the teeth are flattened on the sides, which makes the rake draw lighter, prevents injury to the meadows and raises less dust.

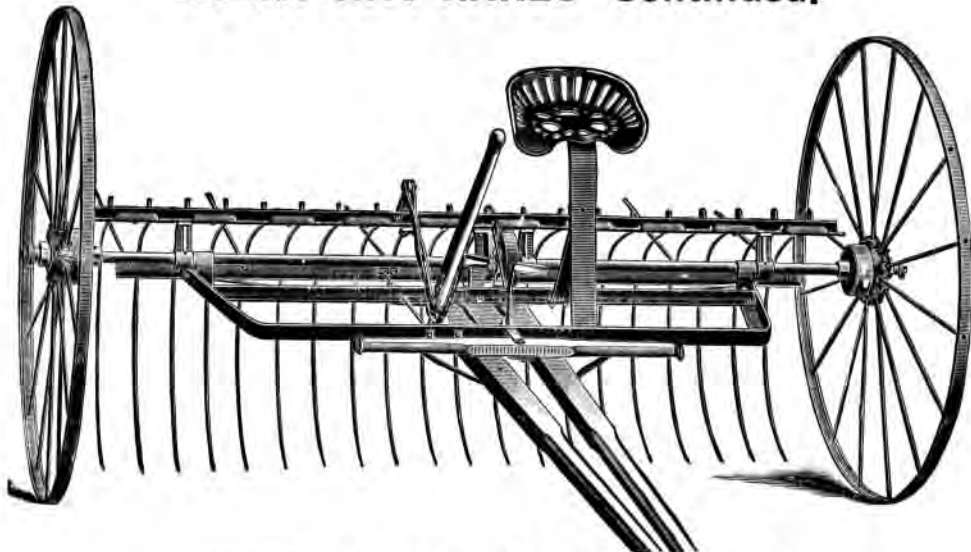
Combination Pole and Shafts go with 8 and 10 ft. Rakes, fitting them for use with one or with two horses. The 12 ft. has pole only.

A Large, Comfortable Seat is held by a double steel seat spring which insures easy riding.

KIND OF IMPLEMENT.	LIST PRICE.		WEIGHT UNBOXED.	CODE WORD.	
	*COMB'D POLE AND SHAFTS	POLE ONLY.		WITH POLE AND SHAFTS.	WITH POLE ONLY.
"Queen" all steel, Hand Dump, Sulky Rake, 8 ft., 20 teeth....	\$ 27.00	.....	313 lbs.	Hamper ..	.....
"Queen" " " " " 10 ft., 26 teeth....	31.00	.....	365 "	Hampton..	.....
"Queen" " " " " 12 ft., 30 teeth....	.....	\$ 32.00	392 "	.....	Hancock ..
Teeth for Hand Dump "Queen" Rake, each.....	.40	.....	.....	Handcuff.	.....

*We furnish Evener and Neckyoke with two-horse rakes *except* when combination pole and shafts are taken.

SULKY HAY RAKES—Continued.



“QUEEN” ALL STEEL SULKY RAKE—Self Dump.

Made 8, 10 and 12 feet wide.

See Queen Hand Dump Rake on preceding page.

The description under Queen hand dump rake, on preceding page is also applicable to the above. In addition, however, we will say that the self dump rake can be dumped by hand or by pressing the foot against a treadle.

The wheels are independent of each other, working on the axle with a ratchet, so that either wheel will dump it, when the other is standing still, as when turning a corner.

The teeth for this rake are made right and left hand—one of each being held by the teeth holder castings. The right hand teeth bend to the *left* at the top, as you stand behind the rake, while the left hand teeth bend to the *right*. Care must be taken when ordering teeth, to say whether right or left hand are wanted.

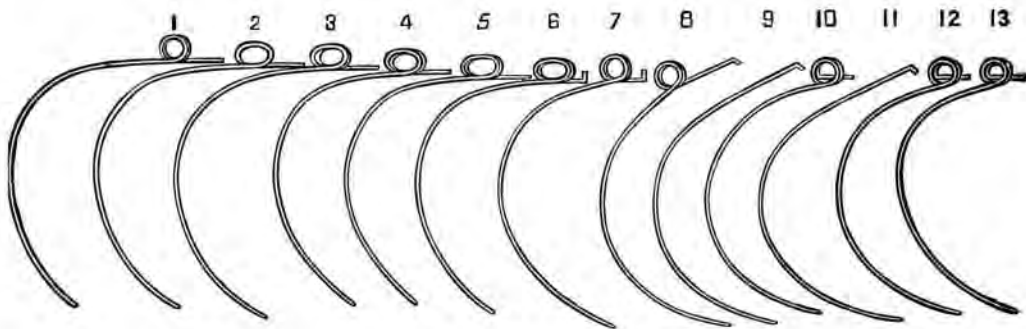
KIND OF IMPLEMENT.	LIST PRICE.		WEIGHT UNBOXED.	CODE WORD.	
	*COMB'D POLE AND SHAFTS.	POLE ONLY.		WITH POLE AND SHAFTS.	WITH POLE ONLY.
“Queen” all steel, Self Dump, Sulky Rake, 8 ft., 20 teeth....	\$ 27.00	.....	313 lbs.	Handful .....	.....
“Queen” “ “ “ 10 ft., 26 teeth....	31.00	.....	365 “	Handling .....	.....
“Queen” “ “ “ 12 ft., 30 teeth....	.....	\$ 32.00	392 “	.....	Handsome
Teeth for Self Dump Queen Rake, R. hand, each.....	.40	.....	.....	.....	Hank
“ “ “ L. hand, each.....	.40	.....	.....	.....	Hannah.....

*We furnish Evener and Neckyoke with two-horse rakes *except* when combination pole and shafts are taken.

SULKY RAKE TEETH.

THE CUTS BELOW show the kinds of teeth we have used in our Sulky Rakes at different times. By taking the description in connection with the cut you can at once determine which tooth is wanted.

ALWAYS ORDER BY NUMBER.



DESCRIPTIONS.	LIST PRICE.	CODE WORD.
No. 1 was used in rakes in 1862 and 1863; it is a ROUND DOUBLE coil WIRE tooth.....	\$.40	Hapless...
No. 2 was used in part of rakes made in 1864, and is a SINGLE OVAL coil STEEL tooth. This we cannot furnish, but the No. 4 can be used in its stead, or we can furnish the single coil WIRE tooth.....	.40	Harass...
No. 3 was also used for part of rakes made in 1864, and is a DOUBLE OVAL coil WIRE tooth 6 inches longer than any used since that date.....	.40	Harbor...
No. 4 was used in rakes made in 1865, 1866 and 1867, and is a DOUBLE OVAL coil wire tooth, shorter than No. 3.....	.40	Harden...
No. 5 was used in 1869 and 1869, and is a DOUBLE OVAL coil CAST STEEL tooth.....	.40	Hardness...
No. 6 was used in 1870 and 1871, and is a DOUBLE OVAL coil CAST STEEL tooth with end turned up.....	.40	Hardship...
No. 7 was used in "Bradley No. 1" Rake from 1871 to 1888 inclusive, and was put in No. 2 Rake when wanted and later used in the "Bradley No. 2." It is a DOUBLE ROUND coil CAST STEEL tooth, with end turned up.....	.40	Harelip...
No. 8 was used on our Friction Dump Rake made in 1877, 1878, 1879, 1880 and 1881, and is a round double coil CAST STEEL tooth, with end turned sideways.....	.40	Harem....
No. 9 was used on our Improved Friction-Dump Rake made in 1882, and is a straight CAST STEEL tooth, with end turned sideways.....	.35	Harm....
No. 10 was used on our Improved Friction-Dump Rake made in 1882, and is a round double coil CAST STEEL tooth.....	.40	Harmful...
No. 11 was used on our "Bradley" Self-Dump Rake, which we made from 1883 to 1888 inclusive. It was also used on the "Chicago" Self-Dump, beginning with the season of 1889, and is a straight CAST STEEL tooth, with end turned sideways.....	.35	Harmless...
No. 12 was used on our "Bradley" Self-Dump Sulky Rake, beginning with 1883, and is a round double coil CAST STEEL tooth.....	.40	Harmonic...
No. 13 was used on our No. 2 Hand-Dump Rake, when we first made it in 1884. It was later used on our "Surprise" Rake, beginning with 1889. It is a round double coil CAST STEEL tooth.....	.40	Harmony...
<i>The following are not shown in cut:</i>		
No. 14.—Used on Queen Hand-Dump Rake, beginning with 1896. Is a ROUND SINGLE coil CAST STEEL tooth, with end turned to the left as you stand behind the rake.....	.40	Handcuff...
No. 15.—R. hand. Used on Queen Self-Dump Rake, beginning with 1896. Is a ROUND SINGLE coil CAST STEEL tooth with end turned to the left as you stand behind the rake.....	.40	Hank....
No. 16.—L. hand. Same as No. 15 except that the top turns to right as you stand behind the rake.....	.40	Hannah...
When ordering teeth for Self-Dump Queen Rake, care must be taken to say whether right or left hand are wanted.		

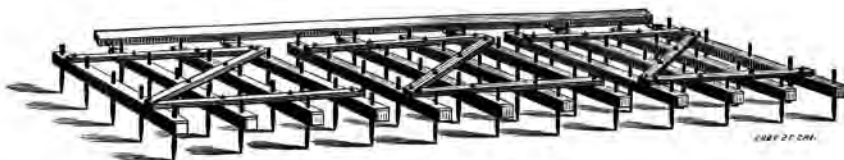
HARROWS.



SCOTCH HARROW.

Scotch Harrows are all about alike in principle, but there is a very great difference in the value of the various productions, consisting mainly in quality of material and workmanship.

We make ours with good tough oak bars for holding the teeth, having turned wooden spools between them. These spools are bored lengthwise, and have iron rods running through them and through the bars, the entire width of each section or half of the harrow, at three different places, which bolt them solidly together. A Harrow made in this way will last as long as three made in the ordinary way. They are finished in first-class style. The teeth are $\frac{1}{2}$ inch square.



"ECLIPSE" HARROW.

This can be used as a two or three section Harrow, although the cut shows three sections. Each section is composed of four bars with five $\frac{1}{2}$ inch steel teeth in each bar, making twenty teeth to a section. The bars are braced by cross-slats, which are BOLTED (not NAILED as some are) to the tooth bars, thereby firmly and substantially holding them together. The sections work independently of each other, and will readily conform to uneven surfaces, such as dead furrows, etc., and can be easily raised to clear them from trash. A section cuts four feet in width making our two-section Harrow eight feet and the three section twelve feet wide.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Scotch Harrow, 40 $\frac{1}{2}$ -inch steel teeth	\$ 7.00	119 lbs.	Joyful ..
" " 40 $\frac{5}{8}$ inch " "	7.75	131 "	Joyous
"Eclipse" Harrow, 8 feet, 2 sections, 40 $\frac{1}{2}$ -inch steel teeth.....	6.00	112 "	Jostling ..
" " 8 " 2 " 40 $\frac{5}{8}$ -inch " "	6.75	124 "	Journey...
" " 12 " 3 " 60 $\frac{1}{2}$ -inch " "	9.00	167 "	Journal...
" " 12 " 3 " 60 $\frac{5}{8}$ -inch " "	9.75	179 "	Jovial....

HARROWS—Continued.



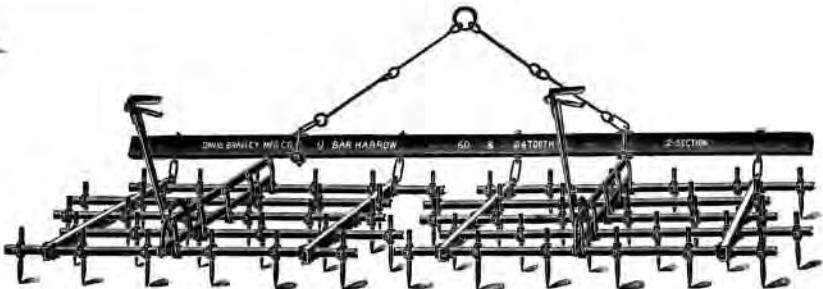
BRADLEY GASPIPE LEVER HARROW.

Channel-steel connecting bars, one at each end of the sections, through which the ends of the gaspipe tooth-bars pass, hold them in place.

By means of a lever in connection with the top center adjusting-bar the tooth-bars can be turned to set the teeth at any slant desired. These *connecting-bars act as runners* when the teeth are turned backward, upon which the Harrow can be drawn to and from the field.

The four-bar sections have eight teeth in each bar or thirty-two teeth per section; the five-bar sections have six teeth to the bar, or thirty teeth in each section. The teeth are 1/2-inch square steel, threaded on top and held in place by a nut. They are strengthened by a washer underneath the bar which projects downward upon the full square of the tooth and is a support to it. When the points of the teeth are worn to a backward slant on the front side, the teeth can be reversed and a sharp cutting point again presented.

Each section is thoroughly strengthened by two angling braces from front to rear bar, so that with reasonable usage no breakage can occur.



BRADLEY U-BAR LEVER HARROW.

This differs from the one shown at top of page mainly in the shape of the beam and in the way the teeth are attached thereto. The teeth are held by a malleable clamp with set screw, and can be raised or lowered on the beam at will. In lumpy ground the teeth can be set well up, which will carry the beams low, and the square edges of the beams will crush and pulverize the lumps in fine style. It is made in the same width sections and with the same number of teeth as the gaspipe; and the same eveners fit both styles.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.		CODE WORD.	
		Gaspipe.	U-Bar.	Gaspipe.	U-Bar.
Lever Harrow, 4-bar, 2-sections, 64 1/2-in. steel teeth, 10 ft. 8 in. cut....	\$ 19.00	208 lbs.	220 lbs.	Jacobite.	Jabber ..
" 4 " 3 " 96 1/2-in. " 16 ft. 2 in. cut....	28.50	323 "	351 "	Jacobus.	Jack.
" 4 " 4 " 128 1/2-in. " 21 ft. 4 in. cut....	39.00	442 "	479 "	Jackdaw.	Jacket. ...
" 5 " 2 " 50 1/2-in. " 8 ft. 6 in. cut....	16.00	195 "	212 "	Jungle.	Jacobin..
" 5 " 3 " 75 1/2-in. " 12 ft. 8 in. cut....	24.00	290 "	322 "	Jumbling.	Jaded....
" 5 " 4 " 100 1/2-in. " 17 ft. 0 in. cut....	30.00	407 "	446 "	Jostle.	Jadish...
" 5 " 2 " 60 1/2-in. " 10 ft. 0 in. cut....	20.00	224 "	244 "	Jag.	Jaller ...
" 5 " 3 " 90 1/2-in. " 15 ft. 0 in. cut....	30.00	345 "	385 "	Jangler.	Jerk.....
" 5 " 4 " 120 1/2-in. " 20 ft. 1 in. cut....	41.00	490 "	524 "	Jennings.	Jerknet ..
" 5 " 2 " 70 1/2-in. " 12 ft. 0 in. cut....	22.00	251 "	278 "	Jumble.	Jester...
" 5 " 3 " 105 1/2-in. " 17 ft. 6 in. cut....	33.00	406 "	443 "	Jestful.	Jesting...
" 5 " 4 " 140 1/2-in. " 23 ft. 7 in. cut....	45.00	542 "	582 "	Jesuit.	Jew.....

BRADLEY JR. DISK HARROW.

(See out on next page.)

THE embodiment of the best features in disk harrows that an experience of several years in their manufacture has suggested, together with new ideas never before brought out, making it far ahead of any other yet produced, in several respects. Some of its good points are as follows:

It has two Levers—one for each gang of disks. This feature is fully appreciated when working on side-hill, as you can set one or both gangs so they will overcome the tendency to work down hill. The **Bearings** of the disk gangs and the boxes in which they work are thoroughly chilled and perfectly fitted, so that the wearing away of these parts, (which is one of the greatest defects in disk harrows as usually made,) is almost wholly overcome. Then again the boxes are now made separate so they can be very quickly and cheaply replaced should they wear out, and they are supplied with our patent spring top oil cup which prevents sand or dirt getting in at the oil holes. **The weight of the main frame and the driver** rests on the **OUTER** end of the disk gangs, while the **INNER** ends are held down by the lever connection-bar, which is in turn held by a toggle-bar which prevents the disks raising above the desired height yet permits them to lower into and cultivate dead furrows and other low places, making it the most flexible and effective tool of its kind. **The disk gangs** attach to, yet **work independently of, the main frame**, thus enabling us, by means of a very simple device, to **attach Seeders** directly to the disk gang frames, which is very necessary in order to get **GOOD WORK** out of a seeder. The **pole** can be set over to one side of the frame for use with three horses, or can be put in the center for four. Whether used with three or with four horses the **draft is always from the center of the frame**, consequently there is practically no side draft. **Leveling the gangs** is now a **VERY SIMPLE MATTER**. Let the pole carry at whatever height the neckyoke is usually hitched; then adjust the toggle-bars to run the disks level.

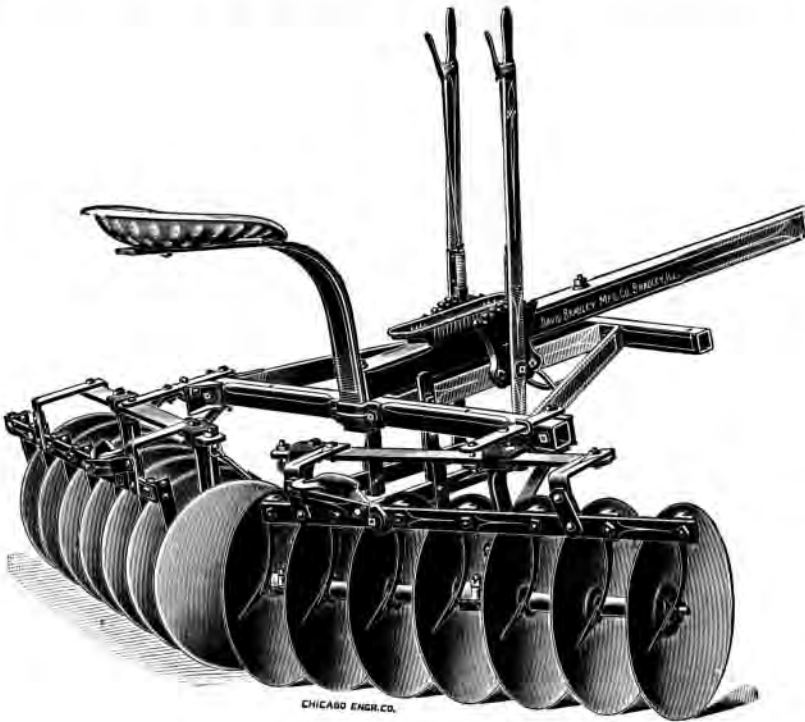
Spring Scrapers.—A single movement of the feet applies the scrapers. They are solidly attached to the scraper-bar, but, being made entirely of spring steel and with long shanks, they readily conform to the shape of the disks and keep them clean. On removal of the feet, the scrapers again move away from the disks. They can, however, be locked to their work, or, away from the disks, whenever the operator so desires.

Polished Disks are now used on all disk harrows made by us.

A Double Steel Seat Spring and a large comfortable seat add to the ease and comfort of the operator.

A three-horse equalizer which can be changed to a two-horse evener, or, a four-horse-abreast equalizer is furnished with each harrow; also a neck-yoke.

BRADLEY JR. DISK HARROW—Continued.



BRADLEY JR. No. 3 1-2—Fourteen 18 inch Disks.

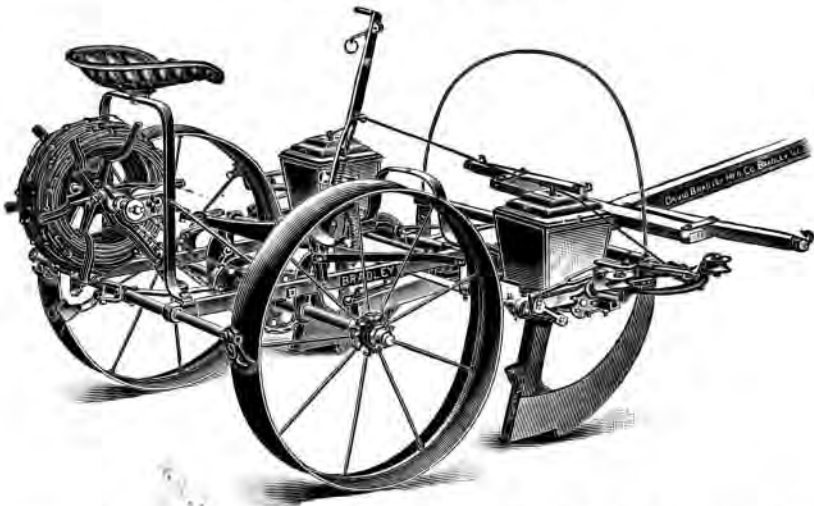
No.	KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
2	With Twelve 16 inch Disks—6½ ft cut.....	\$ 45.00	450 lbs.	Jaguar....
3	" Fourteen 16 " " 7½ "	55.00	500 "	Jockey....
4	" Sixteen 16 " " 8½ "	65.00	554 "	Jocular....
2½	" Twelve 18 " " 6½ "	50.00	500 "	Jewish....
3½	" Fourteen 18 " " 7½ "	60.00	558 "	Jewish....
4½	" Sixteen 18 " " 8½ "	68.00	623 "	Jig.....
12	" Twelve 20 " " 6½ "	55.00	534 "	Jogging...
14	" Fourteen 20 " " 7½ "	68.00	592 "	Joking....
16	" Sixteen 20 " " 8½ "	71.00	666 "	Joint.....
Half-Seeder Attachments.				
	Half Seeder Attachments for Nos. 2, 2½ or 12 Disk Harrow, R. and L., per pair.....	30.00	135 "	Jolly.....
	Three-Horse Equalizer with Neckyoke.....	5.00	37 "	Kansas....
	Four-Horse-Abreast Equalizer with Neckyoke.....	6.00	55 "	Keen.....
	Half-Seeder Attachments furnished for Nos. 2, 2½ and 12 only.			

These prices include a three-horse or four-horse Equalizer and a Neckyoke.

We can furnish Cutaway Disk Harrows when ordered.

BRADLEY

FORCE DROP CHECK ROW CORN PLANTER AND DRILL.



MAKES AN EXACT CHECK. SO THAT CROSS-ROWS ARE AS STRAIGHT AS OTHERS.

It is the **ONLY** planter that has a **Plunger in the feed tube**, which (with a quick motion) forces the corn out of the tube (see cuts on next page) so that clogging and consequent failure to drop correctly is impossible, no matter how sticky or muddy the soil may be.

This is a distinct advance in the construction of planters, as none have been able heretofore to overcome clogging in wet or sticky ground.

It can be quickly and easily adjusted to do any of the following named work:

It will Plant in Drill, either 10, 14 or 18 inches apart.

It will Plant in Check by DRILLING the corn into the seed-tube, where it is held until the seed valve is opened by the action of the check rower; or, it will deposit the corn in the seed-tube from a plate with larger holes, each hole in which will hold the required number of kernels for a hill, where it is held as in the first instance, until the seed valve drops it. All of these operations are illustrated by cuts and more fully explained on next page.

Different Widths.—It can be adjusted to plant 3 ft. 8 in.; 3 ft. 6 in.; or 3 ft. 4 in.

Has an Automatic Reel, absolutely perfect in its operation.

Wheels.—We furnish 30 inch wheels either flat, concave or open, and 38 inch wheels either concave or flat.

It is **Light, Strong and Durable.**—The frame is made of square wrought pipe, and the other parts, except pole and evener are of iron and steel, so that its lasting qualities, as well as its strength and lightness, are exceptional.

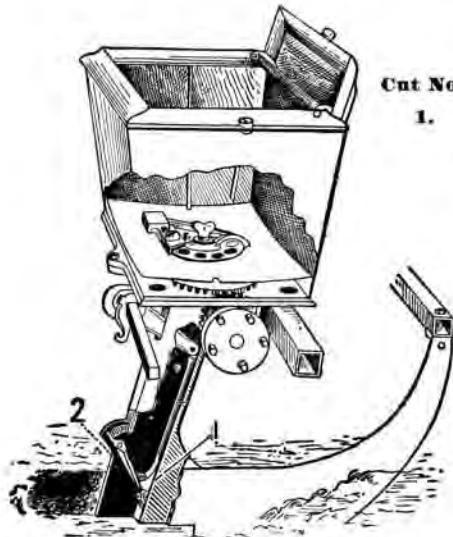
See next page for detailed description of its various operations.

KIND OF IMPLEMENT.	*LIST PRICE WITH 30 IN. WHEEL.	WEIGHT UNBOXED.	WIDTH.	CODE WORDS.				
				WITH 30 INCH WHEEL.			WITH 38 INCH WHEEL.	
				CONCAVE.	FLAT.	OPEN.	CONCAVE.	FLAT.
Combined Drill, Check-row and Hill Drop Planter with Automatic Reel, Neckyoke and 80 Rods Wire.....	\$60.00	473 lbs.	3 ft. 8 in.	Reap	Reaper ..	Reaping..	Rebel	Rebound..
			3 " 6 "	Rebuff	Rebuke ..	Rebus....	Recant	Recast
			3 " 4 "	Recess	Reckon ..	Reclaim ..	Recline....	Recoil....
Combined Drill and Hill Drop Planter, Hand Drop only, with Evener and Neckyoke.	45.00	368 "	3 " 8 "	Rector	Redden ..	Redeem ..	Redoubt ..	Redress..
			3 " 6 "	Reflect	Regain ..	Regaling..	Regiment ..	Region....
			3 " 4 "	Register ..	Regnant ..	Relate ..	Relating ..	Relation..
Check-row Attachment	15.00	105 "	.....	.....	.....	.....	Relax	
80 Rods Wire without reel.....	8.00	37 "	.....	.....	.....	.....	Relent	

*Add \$5.00 to List Price when Planters with 38 inch Wheels are wanted.

BRADLEY CHECK ROW PLANTER AND DRILL—Continued.

(See Cut, Description and Prices on preceding page.)



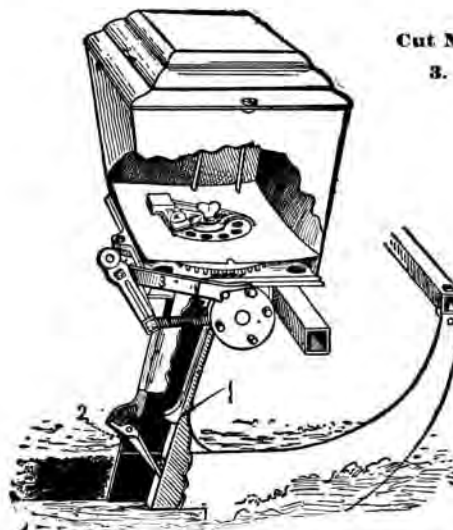
Cut No. 1.

This method consists in using a drilling plate and checking with the Seed Valve (Fig. 2) as shown by cut No. 1. The plate is, of course, when this method is used, continually drilling into the seed-tube, but the kernels are held by the valve until forced out by the plunger (Fig. 1) which is operated by the check-row attachment.

The Plunger is a new and patented feature lately brought out by us with this planter. See description on preceding page.

Three plates go with this, each differing in number of holes to vary the number of kernels in a hill.

Arranged for Planting in Check.

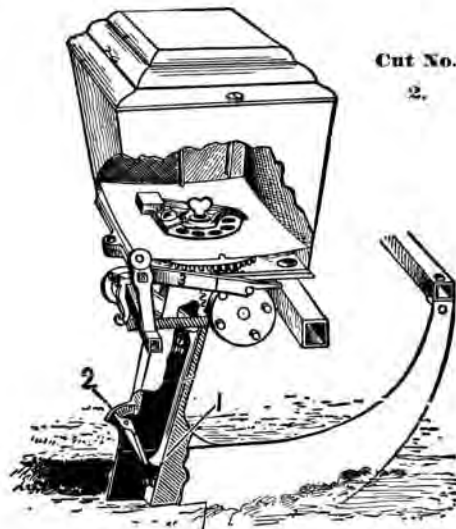


Cut No. 3.

Another Position in "Hill Dropping."

the seed-valve (Fig. 2), while kernels for ANOTHER hill are dropping. Cut No. 3 shows the plunger raised to permit the corn to pass under it and lodge on the valve until the downward movement of the plunger shall force it out, as before.

This method of hill dropping is not found combined with the others in any planter except ours. Three plates are also furnished for this method of planting so that some one of them will suit the size of corn to be used.



Cut No. 2.

Arranged for "Hill Dropping."

Cuts Nos. 2 and 3 show another method for hill dropping than the one shown by Cut 1 and described above. A plate is used with holes large enough to hold the required number of kernels for a hill, which are, of course, dropped into the seed-tube, at ONE TIME, and checked out just the same as when drilled in, concerning which read opposite Cut 1.

Cut No. 2 shows the plunger (Fig. 1) down,—its lower end having forced the kernels for one hill past

the seed-valve (Fig. 2), while kernels for ANOTHER hill are dropping. Cut No. 3 shows the plunger raised to permit the corn to pass under it and lodge on the valve until the downward movement of the plunger shall force it out, as before.

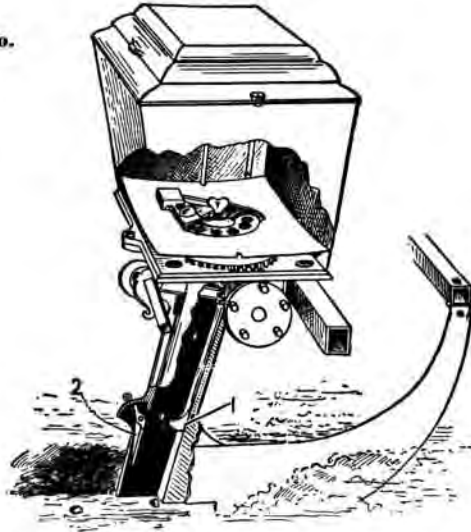
This method of hill dropping is not found combined with the others in any planter except ours. Three plates are also furnished for this method of planting so that some one of them will suit the size of corn to be used.

Three plates are also furnished for this method of planting so that some one of them will suit the size of corn to be used.

BRADLEY CHECK ROW PLANTER AND DRILL—Continued.

(See Cut, Description and Prices on preceding pages.)

Cut No.
4.



ARRANGED FOR CONTINUOUS DRILLING.

This shows the operation of continuous drilling. The seed valve (Fig. 2) is held back by a cotter inserted through a hole in the top of the valve chamber.

With valve so fastened back and the checking device detached, there is a free passage left through the seed tube for the kernels as they drop singly from the rotating plate.

Three drilling plates are furnished with each planter. CP111 drops 18 inches; CP112 drops 14 inches, and CP113 10 inches apart.

BRADLEY FORCE-DROP CORN PLANTER

...WITH...

TWO-ROW CHAMPION COTTON PLANTER ATTACHMENT.

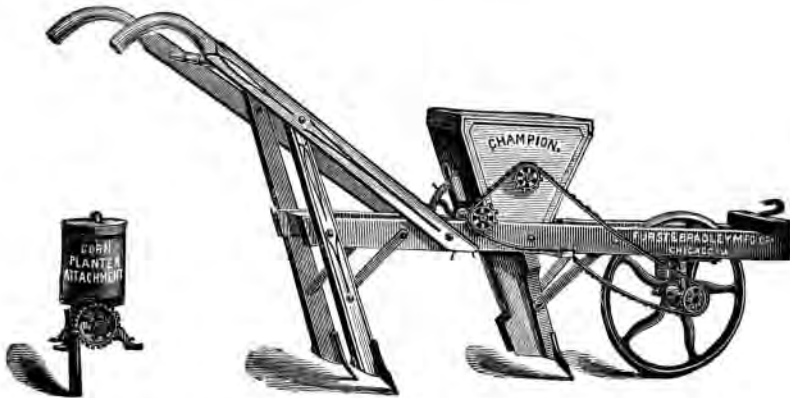


With the exception of corn boxes, check-rower attachment and reel, this is our Force-Drop Corn Planter as shown on preceding pages, with two "Champion" Cotton Planter boxes attached. (See description of one-horse single row Cotton Planter on page 66 of this catalogue.) Above it is shown as a combined machine. The special merits of the separate implements can be readily learned by reference to the pages above referred to. As a combined cotton and corn planter it is a money saver to those who have both cotton and corn planting to do, as a farmer would get, practically, two implements for a little more than the price of one. If wanted for cotton planting only, it has the advantage of doing double the work of a one-horse planter.

The double row cotton planter boxes shown in cut are identical in construction and operation with the box on the wood-frame, one-horse planter shown on page name above. By removing the cotton boxes and putting on corn boxes, reel, etc., it becomes our regular Bradley Force-Drop Corn Planter.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Two-row Champion Cotton Planter, rigged for planting cotton seed only, including eveners and neckyoke.....	\$ 50.00	363 lbs.	Retreat...
Two-row Champion cotton planting Attachments for Bradley Corn Planter, including 2 Champion Boxes, Drive shaft with sprocket-wheels and drive chains.....	5.00	56 "	Retrench..

“BRADLEY CHAMPION” FORCE-FEED COTTON PLANTER.



With CORN PLANTER ATTACHMENT—Wood Frame.

This is the finest Planter in the market. For many years previous to the advent of the “Champion” the want of a practical and reliable Cotton Planter had been felt among cotton growers of the South, to supply which there had been machines of almost every imaginable character put upon the market, some of them possessing more or less merit, but which, when thoroughly tested, had been abandoned, owing to their failure in some of the prime features necessary to a perfect working machine. As a consequence cotton growers had been compelled to put up with whatever might come in their way when planting season came on, many having to resort to hand planting. The “Champion” is at once practical, efficient and durable, and remarkably perfect in its operation. It is so constructed that you can change in an instant to plant from one peck to two bushels per acre without the usual trouble of changing plates, unbolting, bolting up, etc. It has a positive force-feed which does not clog nor crack the seed. It plants the seed as it comes from the gin, without any previous separation whatever, distributing it evenly in the drill. Owing to the peculiar construction of the cut-off plate, bunching the seed is entirely obviated. One man with one horse will plant from seven to eight acres per day, finishing his work as he goes, thus saving the work of at least two hands and one horse in the matter of planting alone, over the ordinary way. The seed is deposited directly in the rear of the opening shovel and is at once covered with moist soil, thus insuring its immediate sprouting. When the plants come up they are in perfect drill, no stalk standing more than one inch out of the furrow line, so that any implement can be worked up close to it. Any one growing cotton will readily appreciate the labor saved in getting cotton to a stand, planted in this manner, as “chopping out” is one of the most tedious jobs of raising the crop. Fully one-half of the work is saved by the use of this machine, which alone would cover its cost on a crop not exceeding fifteen acres. We have yet to record the first instance where the “Champion” has not given entire satisfaction.

Corn Planting Attachment, which is shown above, can be furnished when wanted.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
“Bradley Champion” 1-Horse Cotton Planter, wood frame.....	\$ 15.00	65 lbs.	Model....
Corn Planter Attachment, for wood frame Planter.....	5.00	20 "	Mogul....

"BRADLEY CHAMPION" COMBINED COTTON AND CORN PLANTER.



PLANTS COTTON SEED SAME AS THE WOOD FRAME PLANTER.

The cut above shows our **Combined Machine** with the chain adjusted for planting cotton seed. It embodies all the features that have made the "Bradley Champion" the foremost cotton planter in the United States for years past. (See cut and description of same on preceding page.) The mechanism in this combined machine for planting cotton seed is identically the same as in the regular "Champion," but we have added a Corn Planter or Drill to the same hopper.

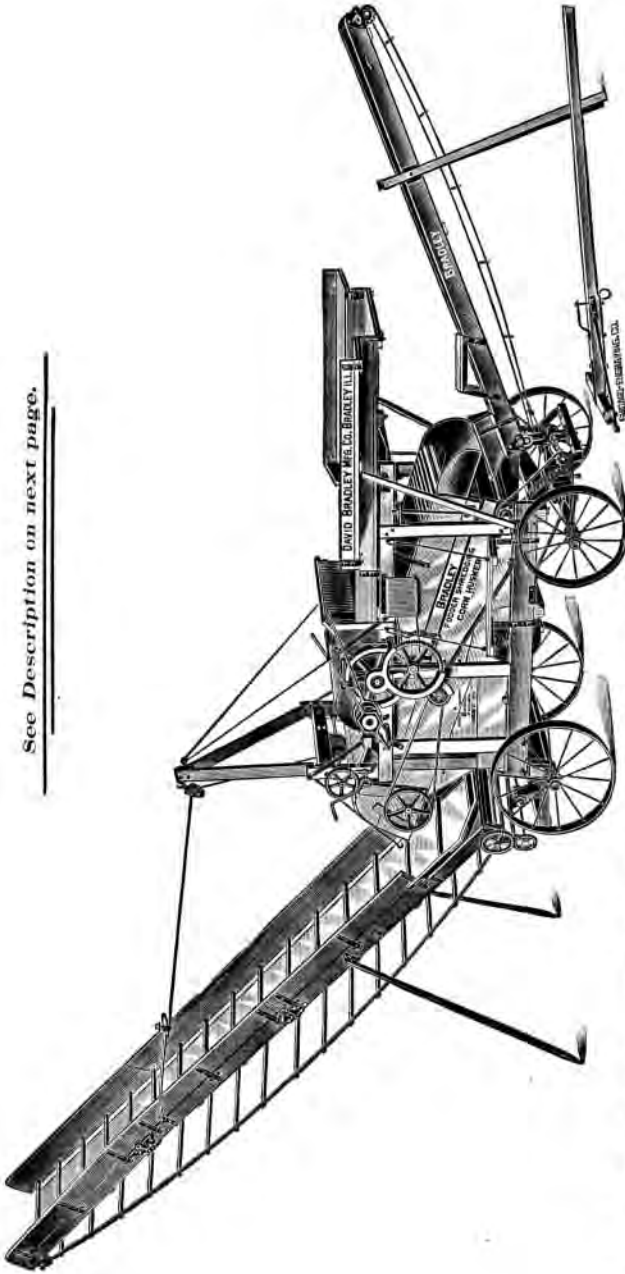
To change from Cotton to Corn, remove the chain from the two upper right hand chain wheels. Then put upon the shaft marked "A" in cut, which drives the dropper plate, whichever chain wheel will give the desired distance between kernels in dropping. Shorten the chain to fit, and after adjusting the tightener, go ahead.

Full directions for dropping at different distances apart will be found pasted inside the hopper of each Planter.

It is all iron and steel.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
"Bradley Champion" Combined Cotton or Corn Planter, with chain drive.....	\$ 20.00	97 lbs.	Murray ..

See Description on next page.



BRADLEY FODDER SHREDDING CORN HUSKER NO. 5-40 INCH MACHINE.

SHOWING FRICTION AND POSITIVE CLUTCHES, ALSO SAFETY GUARD.
MADE WITH EITHER STATIONARY OR SWIVEL ELEVATOR AND STACKER.

KIND AND STYLE OF IMPLEMENT.		LIST PRICE.	WEIGHT.	CODE WORD.
No. 5.—Bradley Fodder Shredding Corn Husker, Mounted, with 40-inch Snapping Rolls and 4 Cylinder, 10 Husking Rolls, 25 ft. 3 section folding Fodder Carrier, 12 ft. Corn Carrier.....		\$ 550.00	6100 lbs.	Hostess.....
No. 2.—Bradley Fodder Shredding Corn Husker, Mounted, with 24-inch Snapping Rolls and Cylinder, 4 Husking Rolls, 20 ft. 2 section folding Fodder Carrier, 12 ft. Corn Carrier.....		300.00	2800 "	Hostile.....
No. 1.—Bradley Fodder Shredding Corn Husker, Mounted, with 14-inch Snapping Rolls and Cylinder, 2 Husking Rolls, 16 ft. Fodder Carrier, 12 ft. Corn Carrier.....		200.00	2400 "	Hostler.....

THE BRADLEY FODDER SHREDDING CORN HUSKER.

The illustration on preceding page shows our No. 5 or 40 inch machine which is a giant in size and strength, has TEN HUSKING ROLLERS, has 40 inch snapping rollers and shredding cylinder, is arranged to be fed by two men, requires 12 to 14 horse power, and has a capacity of 1½ to 2 acres per hour. It has almost double the capacity of any machine of its class ever before in use, and is extra strong and durable. There is a great demand for this size from large farmers and from those who make a business of husking and shredding for others after the manner in which threshing machines are owned and worked. The profits from running it are double what can be made with the smaller machines sold by others. We build smaller machines, however, (Nos. 1 and 2) suitable for those who prefer to have their own machine and do their own work. See next page.

It is now pretty generally conceded by intelligent farmers who have seen the results, that, as a rule, there is as much value in the fodder which comes from the corn crop, as there is in the corn itself, if cut and shocked at the right time and the stocks reduced to a proper condition for feed or for market by a first-class Fodder Shredder.

In using these machines the unhusked shocks are drawn to and fed into them similarly to feeding a threshing machine, and as the stalks pass rapidly through, all the ears and nubbins attached are separated, husked, stiked, and then elevated into a wagon or crib.

Immediately after the ears are separated, the stalks are crushed and shredded into a fine, fibrous condition, resembling fine prairie hay, which, together with the husks and leaves, is then elevated into a stack or hay-mow.

Fodder shredded by our improved machines makes the finest feed in the world for any kind of stock, and can be pitched, stacked or baled the same as hay. Any farmer who has more of this than he needs for his own stock, can sell it in the market for as high a price as that of the best timothy hay, thus making a very large extra profit of from \$10.00 to \$20.00 per acre in addition to the profits of the corn crop.

SPECIAL ADVANTAGES OF OUR MACHINES.

They are strongly and substantially made of good material, and finely finished.

The Snapping Rollers, made under special patents, are so constructed that they take the stalks in freely, and feed them through with a remarkably forcible action, and yet owing to their peculiar construction, it is almost impossible to force even the smallest ears through with the stalks.

The Husking Rolls are made similar to the snapping rolls, and above each pair of husking rolls hangs a revolving bevel or cone-shaped presser roll, which is provided with a few small pins on its surface. These bevel rolls hang on springs, and press lightly on the ears as they travel along the husking rolls, at the same time turning the ears over and helping to loosen the husks. By this means we are able to do an extra good job of husking without shelling the corn much. These bevel presser rolls are a great improvement in husking machines, and are covered by patents.

The Friction Clutch is a great convenience when starting, as it is better, especially when using a horse power, to start the team and get the power going nicely before starting the machine. The positive clutch is then thrown in, whereupon the friction clutch once disengages itself. If anything gets out of order, or breaks, or in case of an accident, the operator can stop the shredder instantly as the levers which operate the clutches are close by his side. Our machine is provided with a very perfect and effective means for **Separating and Cleaning the SHELLED CORN**. Nearly every kernel of shelled corn is separated from the fodder, and is fanned, screened and delivered through a spout into a basket or other receptacle.

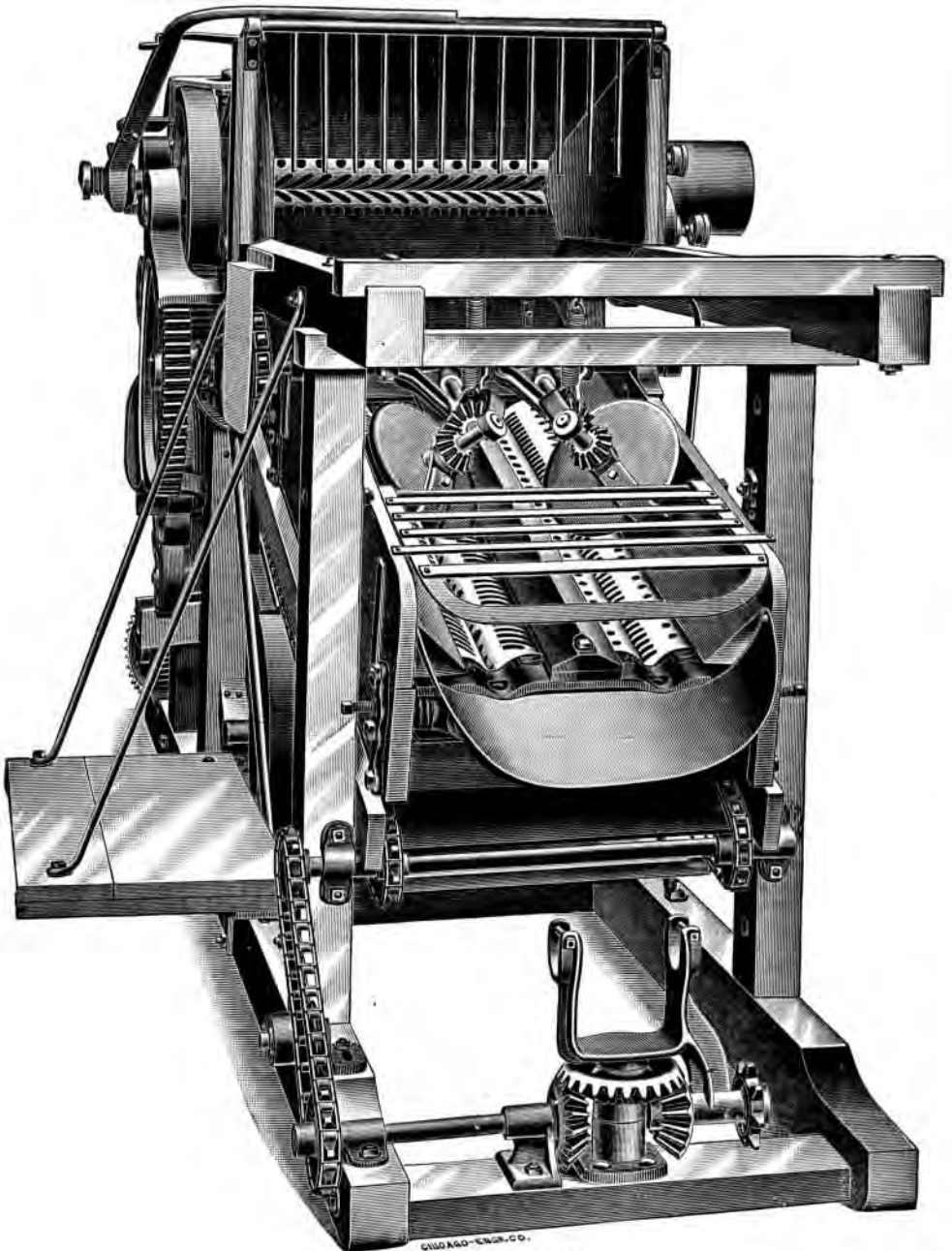
The Shredding part of this machine is another great improvement over other machines of this class, and is also covered by letters patent. It consists of a very strong steel bar cylinder, provided with a large number of our patent sharp-pointed and thin-edged steel-teeth. After the stalks have been crushed by the snapping rollers, you can easily imagine that these almost numberless sharp teeth, revolving at the rate of 800 revolutions per minute, or faster, would reduce every portion of the stalks to a fine, soft, fibrous condition which would be eaten with relish by horses, cattle and sheep, and would make the finest feed in the world.

By the use of our improved patented concave plate, we find it is **not necessary** to use any concave teeth, and thereby we accomplish a great saving of power, and the machine is less liable to be choked down by heavy feeding.

These machines are provided with all modern improvements and attachments, such as swivel or stationary corn elevator, swivel or stationary fodder stacker, hinged in large sizes, with latest improvement for raising and lowering the stacker, rack for carrying elevators etc. on machines, and all other attachments usually furnished.

We generally supply these machines with a pulley for an engine belt, as engine power gives the best results, but can furnish one to be run by horse power when so ordered, at the same price.

Bradley No. 2 Fodder Shredding Corn Husker.



FRONT END VIEW.

Showing Pressure Rolls and Safety Guards.

Clutch is now made as shown by cut on page 68.

BRADLEY

DOUBLE CAM STEEL HAY PRESS.



14x18, 16x18 and 17x22 inch Bale Chamber.

The simplest press in existence. The working parts consist only of a plunger, a double cam, and a plunger draw. Nothing to get out of order, and nothing of a complicated nature in its construction, therefore no break-downs, with the consequent waiting for repairs. Not a chain nor cog about it; but it is powerful enough to put full weight into an ordinary size box car, when so desired. It can be adjusted to make a dense or a light bale. No spring required to bring plunger back, therefore no power used to overcome the tension of the spring while the plunger is being forced in. Its automatic plunger-draw is operated by the cam.

Plunger rebounds quickly and comes up slowly so there is no danger of catching the fork. Has an automatic folder which makes a bale smooth on top, and heavy or light. It is a full circle press taking two feeds at each round, therefore no time lost while turning the horses. One good horse can operate it, while for two it is very easy work. Ten tons in a day of ten hours is an every day job.

Easy to move from place to place. It weighs but a trifle over 1½ tons, tracks with a wagon, and can be drawn on ordinary roads by two horses. When on the road the heaviest part of the press is nearest the front wheels, which puts the load near the horses and makes the draft lighter. It is made of steel and iron and nicely painted. The workmanship and material are first-class, so that the press will stand all the strain that should be put upon it. It is a continuous baler, the bales being separated by followers, to make such size bales as are desired. To set the press it is only necessary to dig four narrow holes of sufficient depth to take in the wheels up to the axles, which lowers the plunger so the horses can easily pass over the center, or, wheels can be taken off by using the jack.

It has an alarm bell which rings when follow-board should be inserted. A lifting-jack for handling the press goes with each one. When wanted we furnish a tie-making machine at price given below.

STYLE OF MACHINE.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
14 x 18 Bale Chamber, length adjustable, capacity 8 tons.....	\$ 275.00	3150 lbs.	Hotspur....
16 x 18 " " " " " 10 tons.....	280.00	3250 "	Hound....
17 x 22 " " " " " 12 tons.....	290.00	3400 "	Hour.....
Trucks for Hay Press, including Neckyoke and Doubletree.....	25.00	350 "	Hose.....
Lifting Jack.....	8.00	68 "	Hover.....
Tie Making Machine.....	5.00	46 "	Hovering..

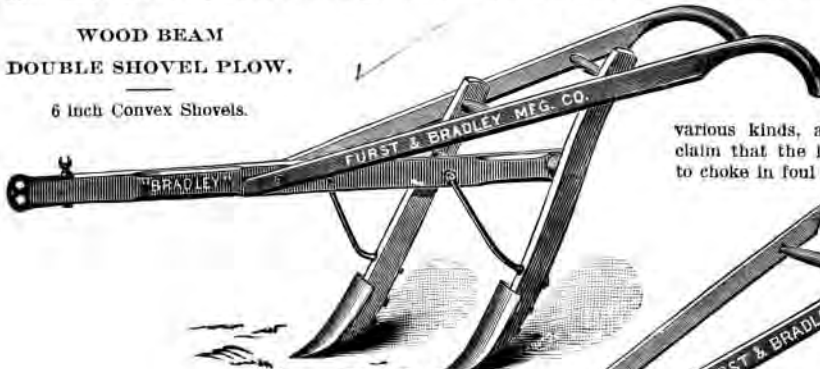
DOUBLE SHOVEL PLOWS.

We make several kinds which are shown on this and the following pages, including the wood beam and the iron beam regular, the iron beam with breakpin; the combination beam, which consists of a wood beam with iron shanks and an adjustment for spreading the shanks; the same with malleable sleeves and breakpin; the "Hindoo" which is a special iron beam made for locations where the soil is such that slightly lighter material serves the purpose; and the blackland combination beam. Double Shovel Plows have been made for many years, and their uses are generally well understood, but we may say that they are for cultivating between the rows of any crops grown far enough apart so they can be used.

WOOD BEAM

DOUBLE SHOVEL PLOW.

6 inch Convex Shovels.



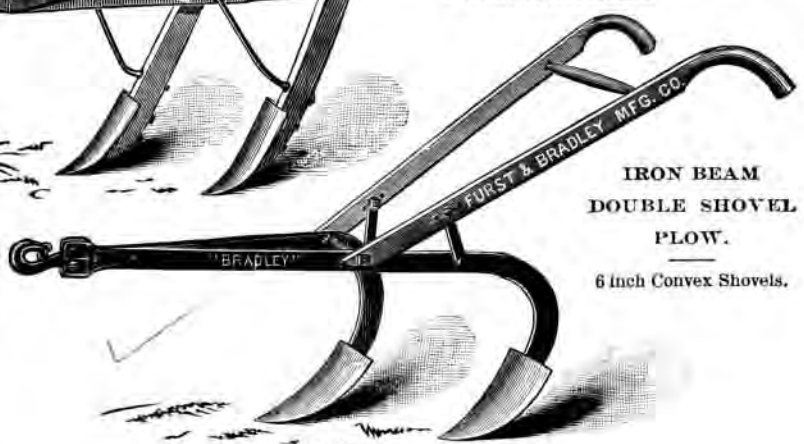
We know of no difference in the quality of work done by the

various kinds, although some farmers claim that the iron beam is less liable to choke in foul ground.

The wood beam is slightly cheaper of the two but the iron beam is the more durable.

IRON BEAM DOUBLE SHOVEL PLOW.

6 inch Convex Shovels.



COMBINATION BEAM DOUBLE SHOVEL PLOW.

6 inch Convex Shovels.



"Regular" shovels are 6 inch, convex, but we furnish flat shovels when wanted, and, either mild or hard tempered.

KIND AND STYLE OF IMPLEMENT,	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
"Bradley" Double Shovel Plow, wood beam, with 6 inch shovels.....	\$ 3.00	27 lbs.	Kite
"Hindoo" " " " " iron beam, " convex or flat shovels.....	4.00	40 "	Knave
"Bradley" " " " " " 6 inch shovels.....	5.00	45 "	Knack
"Bradley" " " " " combination beam, with 6 inch shovels.....	5.00	45 "	Knapping.

CODE WORDS FOR SHOVELS.

Shovels for Double Shovel Plow, round pointed, mild temper, flat.....	Knubs	Same, convex.....	Knuckle
Shovels " " " " " hard " "	Koran	" "	Koster
Shovels " " " " " diamond " mild " "	Kreutzer	" "	Krishna
Shovels " " " " " " hard " "	Kruller	" "	Kurd

* Not illustrated by cut.

DOUBLE SHOVEL PLOWS—Continued.

Below are cuts of three styles of Double Shovel Plows which are largely used in Texas and other Southern States. All of these styles are for practically the same purposes, differing in some minor points, to adapt them to the varying kinds and conditions of soil.

**"BRADLEY" Iron Beam,
With Breakpin.**



**BRADLEY BLACKLAND
Combination Beam.**

With adjustment for spreading
or closing beams.



**BRADLEY "TEXAS"
Combination Beam,**

With adjustment for
spreading or closing beams,
and with malleable
adjustable shovel sleeves.



KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
"Bradley" Double Shovel Plow, iron beam, with breakpin—6 in. shovels	\$ 5.00	36 lbs..	Laueb...
"Bradley Texas" Combination Beam Double Shovel Plow, mal. adjustable shovel sleeves with 6 inch shovels.....	5.00	49 "	Laundry..
"Bradley" Blackland Combination Beam Double Shovel Plow with flat diamond-pointed shovels	5.00	50 "	Lava.....

SINGLE SHOVEL PLOWS.

We make two kinds of these—wood and iron beam. They are used for cultivating potatoes, corn, etc., and are especially adapted for such crops as need hilling up, as the large shovel can be made to throw a great amount of dirt.

Convex shovels, either 11 or 13 inches wide are used, and we give them mild or hard temper, as purchasers may desire.



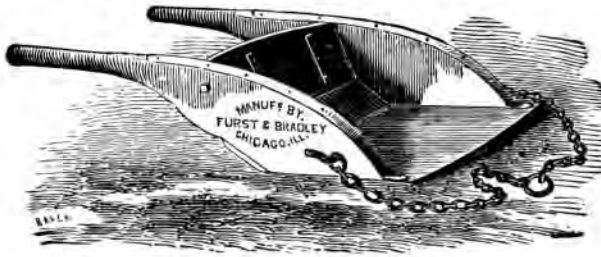
WOOD BEAM SINGLE SHOVEL PLOW—11 or 13 inch Shovels.



IRON BEAM SINGLE SHOVEL PLOW—11 or 13 inch Shovels.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.			
			11 IN. SHOVEL.		13 IN. SHOVEL.	
			MILD.	HARD.	MILD.	HARD.
Single Shovel Plow, wood beam, with hard or mild tempered shovel, 11 or 13 inch.	\$ 2.80	27 lbs.	King.....	Kingdom..	Kink.....	Kinsbip..
Single shovel Plow, iron beam, with hard or mild tempered shovel, 11 or 13 inch.	3.00	31 "	Kinsman..	Kiss.....	Kissing...	Kitchen..
Shovel for Single Shovel, convex	2.00		Koumis..	Kraal....	Kremlin..	Kyanite..

STEEL BOTTOM ROAD SCRAPER.



We make these in one size only—34 inches wide. They are used for grading and railroad work. A chain bail as shown in cut is usually furnished, but we make them with a stiff wrought-iron bail when so wanted.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
No. 1, 34 inch Steel Bottom Road Scraper, chain bail.....	\$ 6.50	78 lbs.	Lapel.....

HORSE HOE.



This is used for cultivating corn, potatoes and similar crops. The wings which are hinged to the center shovel, can be set at varying angles for hilling up more or less as the different stages of growth may require.

By leaving off the rear standards and shovels we have what is called a Shovel Plow with Wings, as shown below.

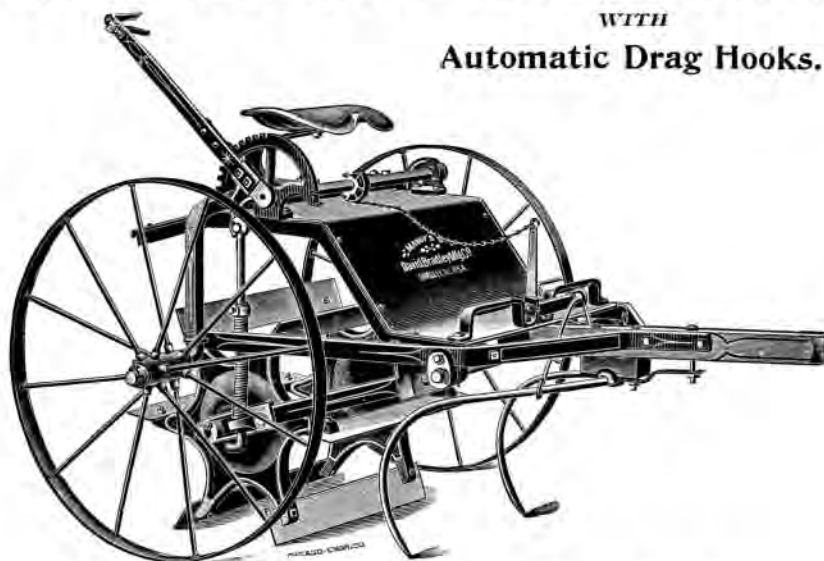
SHOVEL PLOW—With Wings.



KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
Horse Hoe, complete with rear standards and shovels.....	\$ 7.25	44 lbs.	Knell.....
Shovel Plow with Wings.....	6.00	30 "	Knend.....

COTTON AND CORN STALK CUTTER

WITH
Automatic Drag Hooks.



“BRADLEY” STALK CUTTER—Single Row, with Steel Deck.

The diameter of the cylinder heads being larger than usual, with no center shaft running through the cylinder, its clearing capacity is great and prevents clogging in heaviest work.

The blow which cuts the stalks is accelerated by two spiral springs, which can be compressed to suit the nature of the work to be done, by means of adjustable collars with set-screws. When the lever which operates the crank is pushed back it turns the crank downward and forces down the rods around which the springs are coiled and to which the collars referred to are fastened by the set-screw. This compresses the springs and gives a heavy or light stroke, such as the condition of the stalks or ground may require. When the lever is thrown forward the frame and cylinder are raised from the ground.

A **Lever Rack** is now used, having notches in which the lever-dog engages and holds the lever above referred to in any desired position, thus giving suitable downward pressure to the cylinder-frame, or, holding it up from the ground when going to or from the field.

The **Automatic Drag Hooks** are raised, whenever the lever is thrown forward to lift the cylinder, by a chain which connects the drag-hook lever with the lever-bar. They can also be raised by hand without lifting the cylinder.

A **steel seat-spring** and a good comfortable seat make it easy for the rider.

Steel Wheels, with two-inch face and strongly built are used on these implements.

A **Steel Cylinder Cover** prevents falling upon the knives.

The **Frame and Arch** are of **Wrought Iron**, and the construction generally such as to make it a long lasting implement.

We make single-row only of this style.

KIND AND STYLE OF IMPLEMENT.	LIST PRICE.	WEIGHT UNBOXED.	CODE WORD.
“Bradley” Improved Stalk Cutter, Single Row, Steel Frame with 6 Knives , Steel Wheels, Ratchet Lever, and <i>with</i> doubletrees and neckyoke.....	\$ 40.00	453 lbs.	Larkspur.
Same, with 7 Knives , and <i>with</i> doubletrees and neckyoke.....	42.00	469 “	Latin.....
Same, with 6 Knives , and <i>without</i> “ “ “ “.....	37.00	436 “	Largess.....
Same, with 7 Knives , “ “ “ “.....	39.00	452 “	Lattice.....

DESCRIPTIONS OF

Plow Colters, Jointers and Gauge Wheels.

(See cuts on next page.)

Rolling Colter.—This has a 13-inch cast steel blade, and stiff wrought shank. It can be attached to our breakers and other plows when desired, either wood or iron beam. In ordering it should be stated whether for wood or iron beam plows, or for breakers, and when wanted for iron beam plows, it should also be stated whether for right or left hand plows.

"Bradley" Caster Colter.—It will fit wood or steel beam plows, either right or left hand, by changing bolts. The colter-hub and yoke are so shaped that the bearings are perfectly protected. The outer end of the hub is chilled, to increase its wearing qualities, and a leather washer is interposed to prevent the dust and dirt from working in between the bearings and cutting them out—a very fruitful source of WABBLING. The natural wear of the hub and adjoining parts can be taken up by simply tightening the nut on the bolt which passes through the blade and hubs. No wear comes on the bolt, as neither the blade nor hubs touch it. This colter will outwear four of ordinary make. The Adjustable Beam-Clamp can be changed to fit any size beam. An offset of two inches in the shank allows a lateral adjustment of four inches. These Colters are put on our Sulky and Gang Plows, and on other plows when so ordered.

Knife Colter.—Which is for use, generally, on stubble and sod plows for tame sod plowing; it is also used on breakers and other plows, when the character of the ground to be plowed renders it appropriate. It is not attached to the point of the plow, as will be seen by reference to the cut.

Standing Colter.—These are used mostly on breaking plows when breaking up original prairie and timber land. They answer the same purposes as the Rolling and Caster Colters, but are preferable in timber land, as, from their position and shape, they are not liable, when they strike a root or stone, to raise the breaker out of the ground. The heel of the colter is mortised and fits on to the point of the breaker. It is held from working off by the way in which it is clasped to the beam.

Sword Colter.—Another style preferred by some.

Fin Cutter.—Still another style, very popular in some sections of the country. Its advocates claim that it does not choke in trashy ground—the straw, weeds or stalks passing over the top of it.

Quincy Cutter.—Which, like other kinds, has a sectional popularity. It has this apparent advantage, that when one end is worn out it can be inverted and the other end used.

Steel Jointer.—This is used by a great many farmers when plowing tame sod or weedy, foul ground. It is attached to the plow with a clasp, as shown in cut. It opens a small furrow in advance of the plow, turning a part of the weeds or grass under in such a way that the plow, as it follows, buries them all completely out of sight in the bottom of the main furrow. The shank is wrought iron, to which is welded the cast steel mold. It is amply strong for the purposes intended.

Chilled Jointers.—For the same purposes as the Steel Jointer, but oftener used on chilled plows, particularly in sandy soils. The moldboard of Style "A" can be detached from the standard or shank and a Knife Colter substituted as shown by cuts on next page.

Gauge Wheels.—They are used mostly for the purpose of gauging the depth of furrow. Two styles are shown, one with wrought iron "circles" as we call them, which are held in position at one end by a clamp and screw. The wheel can be raised or lowered at pleasure by loosening the clamps and moving the "circles." The other is the

Patent Caster Gauge Wheel, which is ALWAYS IN LINE, and by the use of which the annoyance is entirely avoided of having to re-set the wheel whenever the beam is changed. It is perfectly adjustable, up and down, and is a valuable improvement. Wherever tried, it is well liked

Plow Colters, Jointers and Gauge Wheels.

(See description on preceding page.)



Rolling Colter.



"BRADLEY"
Caster Colter.



Knife Colter.



Standing Colter.



Sword Colter.



Quincy Colter.



Fin Colter.

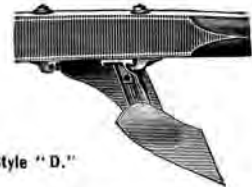


Style "A."

Chilled Jointer.



Chilled Jointer Shank.
With Knife Colter.



Style "D."

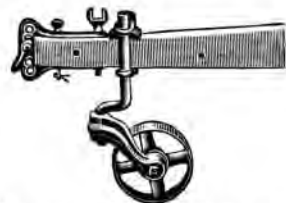
Chilled Jointer.



Steel Jointer.



Gauge Wheel.
With Wrought "Circles."



Caster Gauge Wheel.

TELEGRAPH CODE

For Shipping Directions and for Extra Parts and Attachments not found elsewhere.

SHIPPING DIRECTIONS.

Ship immediately by Express	Sad
" Freight	Sadden
Ship by first Freight	Sadness
local Freight	Safeness
" Atchison, Topeka & Santa Fe R. R.	Saffron
" Baltimore & Ohio R. R.	Sagging
" Chicago, Burlington & Quincy R. R.	Saginaw
" Chicago Great Western Ry	Sexton
" Chicago, Milwaukee & St. Paul Ry	Saint
" Chicago, Rock Island & Pacific Ry	Salad
" Chicago & Alton Ry	Salient
" Chicago & Erie R. R.	Salmon
" Chicago & Eastern Illinois R. R.	Saloon
" Chicago & Grand Trunk Ry	Salute
" Chicago & Northern Pacific R. R.	Samson
" Chicago & Northwestern Ry	Sanative
" Cleveland, Cincinnati, Chicago & St. Louis Ry	Satrap
" Illinois Central R. R.	Setter
" Indiana, Illinois & Iowa R. R.	Scab
" Lake Shore & Michigan Southern Ry	Saturn
" Louisville, New Albany & Chicago Ry	Saunter
" Michigan Central R. R.	Sausage
" New York, Chicago & St. Louis R. R.	Shabby
" New York, Lake Erie & Western Ry	Shackle
" Pittsburg, Cincinnati, Chicago & St. Louis Ry	Savage
" Pittsburg, Fort Wayne & Chicago Ry	Savant
" Wabash R. R.	Shad
" Wisconsin Central R. R.	Sawyer
Send to	Sand
to be forwarded by them (or him)	Sandal
Ship in next car coming	Sanded
Ship in next car coming from	Sanford
Ship by Boat	Sandwich
" Goodrich Line	Sanguine
" Graham & Morton's Beats	Sanity
" Quickest route	Sardine
" American Express	Satan
" United States Express	Satanic
" Adams Express	Scabbard
How soon can you ship	Scaffold
Intend to ship to-morrow	Scallop
" day after to-morrow	Scamper
Will ship as soon as possible, probably in a few days	Scandal
Have you filled our order of	Sermon
for	Serpent
We ship car to-day	
" by Local Freight to-day	

PLOW BEAMS AND HANDLES.

Plow Beam for	Plow, dressed and painted	Mallard
" for	Plow, dressed but not painted	Mallet
" for	Plow, in rough	Mallows
Pair Plow Handles, dressed and painted, but not put together		Mammon
" " " dressed only		Mammoth
" " " in rough		Manacle

TELEGRAPH CODE—Continued.

CULTIVATORS.

Bradley Walking Cultivator with Steel Wheels only, No....Gangs and.... Shovels.....	Habited...
Dolphin Walking Cultivator with Steel Wheels only, No....Gangs and.... Shovels.....	Hadley....
Dolphin Jr. Walking Cultivator with Steel Wheels only, No....Gangs and.... Shovels.....	Hacking...
Champion Walking Cultivator with Steel Wheels only, No....Gangs and.... Shovels.....	Hackle....
Trojan Tongueless Cultivator, with Raising Springs, and with Steel Wheels only, No.... Gangs and....Shovels	Haggard ..
Common Sense Tongueless Cultivator with Wood Beams, Steel Wheels and....Shovels.....	Halleck ...
Vulcan Jr. Combined Cultivator, iron frame, with Steel Wheels only, No.... Gangs and....Shovels	Hackney..
Century Riding Spring Lift Cultivator with Steel Wheels only, No.... Gangs and....Shovels.....	Hamden...
Klondike Pivotal Pole Riding Cultivator with Steel Wheels only, No.... Gang and....Shovels	Hang.....
Stem Winder Pivotal Pole Riding Cultivator with Steel Wheels only, No....Gangs and....Shovels.....	Hanging ..
Gopher Cultivator with Four Blades and Two Scraper Blades	Halifax....
Listed Corn Cultivator, with Runners.....	Halting ...

When ordering these cultivators by code, use the word which represents the cultivator first, and let follow those which stand for the style of gangs and the size of shovels wanted.

TELEGRAPH CODE—Continued.

NO. AND STYLE OF CULTIVATOR GANGS.

No. 8.—Regular Bradley Cultivator Gangs, curved steel beam, No. E100 malleable sleeves, wood break-pin. For Northern trade.....	Idler.....
No. 8½.—Curved steel beam Gangs for Dolphin or Trojan Cultivators, Nos. G89, G90, and G91, malleable shovel-blocks and No. G92, malleable sleeves. For Northern trade.....	Inborn....
No. 42½.—Curved steel beam Gangs for Dolphin or Trojan Cultivators, with spring-break attachment, No. G52 malleable sleeves. For Northern trade.....	Incense...
No. 44.—Spring-tooth Gangs for Walking Cultivator, with gaspipe beam, and wood cross-heads and No. G41 malleable shovel-blocks. For Northern trade.....	Incident...
No. 46½.—Gaspipe beam Gangs for Vulcan Jr. Cultivator, with straight pipe beam, round steel shanks, spring-break and foot treadles. For Southern trade.....	Incidental.
No. 47.—Eagle Claw wood beam Gangs for Walking Cultivator, steel shanks, No. F33 malleable shovel-blocks and No. F34 malleable sleeves.....	Incitant...
No. 48.—Eagle Claw curved steel beam Gangs for Walking Cultivator, with same kind of sleeves and blocks as on No. 47 gang.....	Incrust....
No. 49½.—Steel beam Eagle Claws for Vulcan Jr. Cultivator.....	Indulge....
No. 50.—3-Shovel curved steel beams, with Nos. G85 and G86 malleable shovel-blocks, and No. G92 malleable sleeves with wood break-pin.....	Indent....
No. 51.—3-Shovel curved steel beam Gangs for Vulcan Cultivator, No. G92 malleable sleeve, with wood break-pin. For Northern trade.....	Indict.....
No. 51½.—3-Shovel curved steel beam Gangs, pin-break and foot treadles; for Vulcan Jr. Cultivator.....	Infant.....
No. 52½.—3-Shovel wood beam Gangs for Century Cultivator.....	Infirm....
No. 53.—Spring-tooth Gangs, with 5 teeth, for Century Cultivator.....	Indignant.
No. 54½.—2-Shovel wood beam Gangs, steel shanks, for Century Cultivator.....	Indicted...
No. 56½.—Spring-tooth Gangs, for Dolphin Cultivator.....	Inflame...
No. 57½.—Parallel square-pipe beam Gangs for Dolphin Jr. Cultivator, pin-break. For Southern trade.....	Inflict.....
No. 58½.—2-Shovel, curved steel beam Gangs, adjustable front standard, pin-break for Dolphin and Trojan Cultivators. Special.....	Ingraft....
No. 59½.—Regular 2-Shovel, curved steel beam Gangs, foot treadles, pin-break, for Vulcan Jr. Cultivator. For Northern trade.....	Ingrain....
No. 60½.—Parallel square pipe beam Gangs for Vulcan Jr. Cultivator; steel shanks, spring-break, and foot treadles. For Southern trade.....	Ingrate....

The above will be needed for use principally in conjunction with code words on page 83.

TELEGRAPH CODE—Continued.

NO. AND STYLE OF CULTIVATOR GANGS—Continued.

No. 61.—Parallel square pipe beam Gangs for Vulcan Jr. Cultivator, steel shanks, pin-break and foot treadles. For Southern trade.....	Inhabit....
No. 62.—Gaspipe beam Gangs for Vulcan Jr. Cultivator; friction-clutch shanks and foot-treadles. For Southern trade	Inherit....
No. 63½.—2-Shovel steel beam Gangs, adjustable front standard, pin-break, for Klondike Cultivator.....	Inhale....
No. 64½.—2-Shovel steel beam Gangs, adjustable front standard, pin-break and foot treadles, for Stem Winder Cultivator.....	Inhuman..
No. 65½.—3-Shovel steel beam Gangs, pin-break, for Klondike Cultivator.....	Inject.
No. 66½.—2-Shovel steel beam Gangs, adjustable front standard, spring-break, for Dolphin and Trojan Cultivators.....	Inland....
No. 67½.—2-Shovel steel beam Gangs, adjustable front standard, spring-break, for Klondike Cultivator.....	Inmate....
No. 68½.—2-Shovel steel beam Gangs, adjustable front standard, spring-break and foot treadles; for Stem Winder Cultivator.....	Innocent..
No. 69.—Gopher beam Gangs for Klondike Cultivator.....	Inquest ...
No. 70.—2-Shovel steel beam Gangs, spring-break, for Vulcan Jr. Cultivator.....	Insanity ..
No. 71½.—2-Shovel steel beam Gangs, pin-break and foot treadles, for Stem Winder Cultivator.....	Inscribe...
No. 72½.—2-Shovel steel beam Gangs, pin-break, for Klondike Cultivator.....	Insect....
No. 73.—2-Shovel square pipe, parallel beam Gangs for Dolphin Jr. Cultivator, adjustable shanks, rear spring break. For Southern trade.....	Insight....
No. 74.—2-Shovel combination beam Gangs, malleable shanks, pin-break.....	Inspire....
No. 75.—2-Shovel square pipe parallel beam Gangs, adjustable shanks, front spring-break. For Eastern trade.....	Instep....
No. 76.—2-Shovel steel beam Gangs, adjustable front standard, rear spring-break, for Klondike Cultivator. For Southern trade.	Insult.....
No. 77.—3-Shovel steel beam Gangs, for Stem Winder, pin-break and foot treadles.....	Intact.
No. 78.—2-Shovel combination beam Gangs, pin-break, for Common Sense Tongueless Cultivator.....	Intrust....
Special wood beam Gangs, for Common Sense Cultivator, with wood standards, pin-break.....	Indigo.....

The above will be needed for use principally in conjunction with code words on page 83.

LIST OF CHANGES

Made in numbering the Shares of our Steel Plows, giving the Nos. and the year in which the changes were made.

When Ordering Shares, absolute certainty of a fit can only be assured by giving the numbers stamped on the underside of the old share to be replaced. When this is impossible, the next best thing is to order by the following table, specifying the No. of the Share as given UNDER THE YEAR in which the plow was PURCHASED. In this case it is assumed that the plow was bought the same year it was made; otherwise share might not fit. Where dotted lines occur, the plows are no longer made.

Sometimes it is difficult to find the number on a very old share. It is on the underside, near the center. Scrape off the rust or dirt with a knife or cold chisel and you will find it.

When left hand shares are wanted be SURE to SAY SO, as right hand are always sent when left hand are not specified.

NO. AND SIZE OF PLOW.	No. Stamped on Under Side of Share.				NO. AND SIZE OF PLOW.	No. Stamped on Under Side of Share.			
	Previous to 1887.	1887 Changed to	1895 Changed to	1896 Changed to		Previous to 1887.	1887 Changed to	1895 Changed to	1896 Changed to
22½, 10 in.	22½	X22½	X22½	X22½	42, 14 in.	42	X42 542	X42 542	X42 542
26½, 11 "	26½	X26½	X26½	X26½	76, 15 "	76	X76 576	X76 576	X76 576
31, 12 "	31 531	31 X33	.....	.....	71½, 16 "	71½	X71½ 571½	X71½ 571½	X71½ 571½
34, 13 "	34 534	34 X36	.....	.....	531, 12 "	31 531	31 X33	.....	.....
40, 14 "	40 540	40 X45	.....	.....	534, 13 "	34 534	34 X36	.....	.....
71, 16 "	71 571	71 X70	.....	.....	540, 14 "	40 540	40 X45	.....	.....
33, 12 "	33 533	31 X33	.....	.....	571, 16 "	71 571	71 X70	.....	.....
L33, 12 "	.....	.....	L31 X33	L33	533, 12 "	33 533	31 X33	.....	.....
36, 13 "	36 536	34 X36	.....	.....	L533, 12 "	.....	.....	L31 X33	L33
L36, 13 "	.....	.....	L34 X36	L36	536, 13 "	36 536	34 X36	.....	.....
45, 14 "	45 545	40 X45	.....	.....	L536, 13 "	.....	.....	L34 X36	L36
L45, 14 "	.....	.....	L40 X45	L45	545, 14 "	45 545	40 X45	.....	.....
70, 16 "	70 570	71 X70	.....	.....	L545, 14 "	.....	.....	L40 X45	L45
L70, 16 "	.....	.....	L71 X70	L70	570, 16 "	70 570	71 X70	.....	.....
89, 18 "	71 571-18	71 X70-18	89 X589	.....	L570, 16 "	.....	.....	L71 X70	L70
L89, 18 "	.....	.....	.....	L89	589, 18 "	71 571-18	71 X70-18	89 589	.....
27, 11 "	27	X27	X27	X27	L589, 18 "	.....	.....	.....	L89
37, 12 "	37	X37 537	X37 537	X37 537	517, 10 "	.....	517	517	517
38, 13 "	38	X38 538	X38 538	X38 538	527, 11 "	.....	527	527	527

LIST OF CHANGES—Continued.

NO. AND SIZE OF PLOW.	No. Stamped on Under Side of Share.				NO. AND SIZE OF PLOW.	No. Stamped on Under Side of Share.			
	Previous to 1887.	1887 Changed to	1895 Changed to	1896 Changed to		Previous to 1887.	1887 Changed to	1895 Changed to	1896 Changed to
537, 12 in.	37	X37 537	X37 537	X37 537	242, 14 in.	242	242	242	242
538, 13 "	38	X38 538	X38 538	X38 538	Y16½, 9 "	16½ 516½	X16½	.....	.....
542, 14 "	42	X42 542	X42 542	X42 542	Y17½, 10 "	17½ 517½	X17½	.....	.....
571½, 16 "	71½	X71½ 571½	X71½ 571½	X71½ 571½	Y18½, 11 "	18½ 518½	X18½	.....	.....
R71, 7 "	R71	R71	R71	R71	Y19½, 12 "	19½ 519½	X19½	.....	.....
R81, 8 "	R81	R81	R81	R81	LY19½, 12 "	.....	.....	.....	L19½
R91, 9 "	R91	R91	R91	R91	Y20½, 13 "	20½ 520½	X20½	.....	.....
R101, 10 "	R101	R101	R101	R101	LY20½, 13 "	.....	.....	.....	L20½
R111, 11 "	R111	R111	R111	R111	Y21, 14 "	21 521	X21	.....	.....
R121, 12 "	R121	R121	R121	R121	LY21, 14 "	.....	.....	.....	L21
R131, 13 "	R131	R131	R131	R131	Y77, 16 "	77 577	X77	.....	.....
R141, 14 "	R141	R141	R141	R141	LY77, 16 "	.....	.....	.....	L77
114, 7 "	114	114	114	114	Y83, 18 "	77 577-18	X77-18	83 583	.....
115, 8 "	115	115	115	115	516½, 9 "	16½ 516½	X16½	.....	.....
116, 9 "	116	116	116	116	517½, 10 "	17½ 517½	X17½	.....	.....
117, 10 "	117	117	117	117	518½, 11 "	18½ 518½	X18½	.....	.....
127, 11 "	127	127	127	127	519½, 12 "	19½ 519½	X19½	.....	.....
137, 12 "	137	137	137	137	L519½, 12 "	.....	.....	.....	L19½
138, 13 "	138	138	138	138	520½, 13 "	20½ 520½	X20½	.....	.....
142, 14 "	142	142	142	142	521, 14 "	21 521	X21	.....	.....
171½, 16 "	171½	171½	171½	171½	L521, 14 "	L21
217, 10 "	217	217	217	217	577, 16 "	77 577	X77
227, "	227	227	227	227	L577, 16 "	L77
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