



DAVID BRADLEY

SUCCESSORS TO
FURST & BRADLEY
MFG CO.



MFG
CO.
CHICAGO, ILL.

POCKET
ANNUAL

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DAVID BRADLEY * MFG CO.

CHICAGO, ILL.
U.S.A.



MANUFACTURERS OF

PLOWS,
CULTIVATORS,
RAKES, &c &c

HOW TO FIND

David Bradley Manufacturing Co.'s

OFFICE,

63 N. Desplains Street, CHICAGO, ILL.

If you arrive at the Chicago & North-Western Railway Depot, corner of Kinzie and North Wells streets, go South on North Wells street, across the bridge to Lake street, take street cars and go West on Lake street to Desplains street, then North on Desplains one-half block. Our office is on the East side of Desplains street.

If you arrive at the Chicago, Milwaukee & St. Paul, Chicago & Alton, Chicago, Burlington & Quincy, Chicago, St. Louis & Pittsburgh, Pittsburgh, Cincinnati & St. Louis, Pennsylvania Central, or Pittsburgh & Ft. Wayne Union Depot, on Canal street, go North to Lake street, then West on Lake street to Desplains street, then North on Desplains street one-half block.

If you arrive at the Michigan Central, Cincinnati, Indianapolis, St. Louis & Chicago, or Illinois Central Union Depot, at the foot of Lake street, go West on Lake street to Desplains street, as above directed.

If you arrive at the Chicago, Rock Island & Pacific, or Michigan Southern Depot, on Van Buren street, go North on La Salle to Lake street, (or take street cars on 5th avenue, which is one block West of La Salle street,) to Randolph, and walk one block to Lake street, then take cars on Lake street West to Desplains street, then North on Desplains street one-half block.

If you arrive at the Baltimore & Ohio Depot, or wish to visit us from the Exposition Building, go North on Michigan avenue to Lake street, take street cars on Lake street, West to Desplains street, then half block North.

If you arrive at the Grand Trunk, Louisville, New Albany & Chicago, Wabash, St. Louis & Pacific, Chicago & Atlantic, or Chicago & Eastern Illinois Union Depot, on 4th avenue, between Polk and Taylor, go East one block to State street, then take street cars North on State street to Lake street, then West on Lake street to Desplains, then North on Desplains street one-half block.

Shall be pleased to see you

AT ANY TIME.

ERASABLE MEMORANDA.

Erase with a Clean, Dry Rubber.

PRESENTED BY

O. M. SCOTT & BRO.,
LAKESIDE, Ind., Etc.,
MARYSVILLE, O.

MANUFACTURERS OF

PLOWS

ROAD SCRAPERS, FIELD ROLLERS, ETC.

WORKS:

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AND
52 to 70 and 55 to 71 North
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PRESENTED BY

O. M. SCOTT & BRO.,
LUMBER, OIL, PAINTS, ETC., ETC.,
MARYSVILLE, O.

SALUTATORY.

SINCE our last year's annual greeting, the name of this establishment has been changed from "Furst & Bradley Mfg. Co." to "David Bradley Mfg. Co." The change is in *name only*, however, as, with the exception of the retirement of Mr. Furst in 1881, no change in stockholders or officers of either the "Furst & Bradley Mfg. Co.," or its successor, the "David Bradley Mfg. Co.," has occurred since their incorporation; hence, the same general policy in the conduct of the business will be adhered to in the future as in the past. Our President, Mr. David Bradley, began the plow business in 1835—fifty years ago—and has been identified with the manufacture of the "Garden City Clipper" Plows since 1837, when they were first brought out. During the years that have followed he has had the gratification of seeing them lead all others in their uniform hardness of temper and perfect shape, two qualities which have never been as successfully combined by other plow manufacturers. No material changes will be made in our line of goods for 1885. We have added a few implements to our lists, as will appear upon further perusal of this Annual, and we have made some improvements which the experiences of ourselves and of some of the most practical users of our goods have suggested.

The principal improvements embrace changes in the construction of our Tongueless and Adjustable Arch Cultivators and our Combined Cultivator, also a few changes of minor importance in some of the other goods, all of which will be more particularly given in our descriptions accompanying the cuts. Our new implements are the Upright Portable Horse Power, "Boss" Coulter, and our New Suspension Steel Wheel, concerning which we refer you to the several pages herein on which they are illustrated and described.

In conclusion, will say that we shall maintain the quality which has characterized our goods in the past. With ample facilities, first-class workmen, the very best material procurable, and special machinery and processes of our own devising, we are able to produce implements superior in points of durability, finish and adaptability to the work for which they are intended.

Farmers or others who may receive this Annual, and who desire a more detailed description or explanation of the goods mentioned herein, will please call on our agent in their town for, descriptive circulars; or, in the event of there being no agent of ours there, write us, or our branch houses (see cover), direct for them.

DAVID BRADLEY MFG. CO.,
Successors to Furst & Bradley Mfg. Co.

PRESENTED BY

O. M. SCOTT & BRO.,
Lynchburg, Va., Baltimore, Md., Etc.,
MARYSVILLE, O.

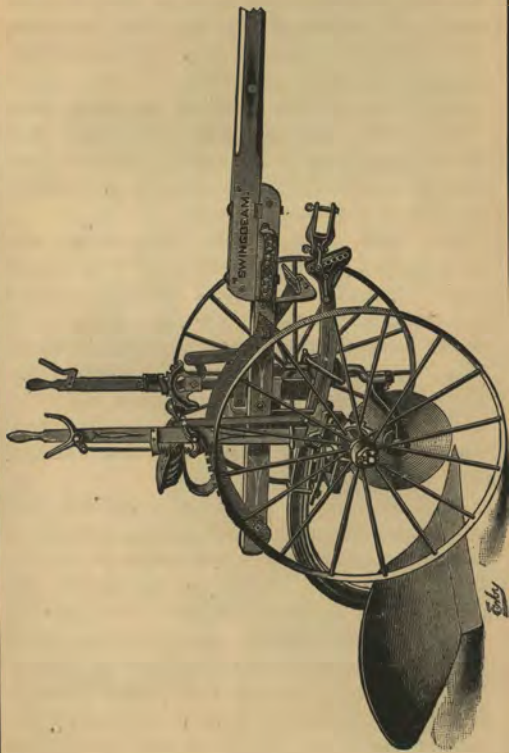
"SWINGBEAM" SULKY PLOW.

(See cut on opposite page.)

This Plow was originally manufactured by us to supply a demand for a Sulky Plow with a positive "horse-lift," but the perfect satisfaction expressed by *all* who have used them since they were placed on the market, has led us to adopt it as the *only* style we shall make for the coming year's trade. The Plow, as the name indicates, swings sideways on the bail, so that, when turning corners, it is not necessary to raise the plow out of the ground. This feature is much liked by those who plow square lands. It is, however, so arranged that the operator can lock the plow, to prevent swinging, when so desired. A single movement of the hand throws the dog in lock, and the plow is brought out of the ground by the power of the team, without further effort on the part of the operator. The wrought frame is, owing to the manner of its construction, very strong, and calculated to stand any strain which it should be put to. The wheels are our Trussed Suspension Steel wheels, made on an entirely new principle, which makes them very strong and durable, at the same time light. See description of them on page 26. The "Boss" Coulter and O. K. Beam Clamp will be used on this Sulky Plow hereafter. It is the finest Coulter in use, as thousands will testify. We use the same three-horse equalizer on this as was used on the Friction Attachment Sulky, which is the most perfect equalizer of draft that can be made.

In conclusion, will say that the Swingbeam Sulky is light, strong and durable. The quality of work done by it is owing greatly, of course, to the bottoms, which are the well-known "Garden City Clipper," which, for perfect shape and uniform temper, cannot be equaled. All of the sizes and styles of steel, chilled or combination bottoms, heretofore used on our Sulkies, can be used on this. The changing of one bottom for another can be made in a very few minutes.

SWINGBEAM SULKY PLOW,
WITH
POSITIVE HORSE-LIFT.



(For description, see opposite page.)

PRESENTED BY

G. M. SCOTT & BRO.,
Agents for Farmers, Oil, Etc.,
MARYSVILLE, O.

**"GARDEN CITY" GANG PLOW,
With Flexible Pole.**

The Gang Plow represented on opposite page has been manufactured by us for several years, and in all sections of this and other countries where they have been sold, the greatest satisfaction is invariably expressed. Unlike experimental machines, it has been perfected from year to year, and any weak points that may have been developed in practical use have been strengthened until it is the most complete implement of its kind in existence.

The work done by this Gang excels any plowing that can possibly be done with a hand plow. It will do good work where the ground is so hard that a hand plow can not work. It works splendidly in trashy ground without clogging. It has a BRAKE ATTACHMENT for lifting the plows out of the ground, which we prefer on Gangs, they being heavier than Sulkies. With this device they are handled with the greatest ease.

We have added a Lever, by which the pole is moved to the right or left, for the purpose of giving the plow more or less width of furrow, as may be desired. It can be operated by the driver while the plow is in motion. For plowing around circular corners, or curved furrows of irregularly shaped lands, it works to perfection.

We also make a *jointed* Pole, which allows a free up and down play of same, and does away with any pressure upon the horses' necks, that might otherwise occur in plowing over uneven surfaces. They are guaranteed to do as good work as can possibly be done by any gang plow in existence.

"GARDEN CITY" GANG PLOW.—Iron Frame.



For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
Farmers, Oil, Etc.,
MARYSVILLE, O.



COMMON RICGED PRAIRIE BREAKER.—Sizes, 10 to 20 inches.

Hereafter all of our *Slip-Share* Breakers will have the landside part of the share *welded on*, instead of turned down, and will be called the "Bradley" to distinguish them from the "Peacemaker." The share is quite broad and lies nearly flat, which improves its cutting qualities. These breakers are not as bold as some other styles, and consequently draw much easier than those having a more abrupt turn. The mold board is beautifully shaped, and lays the furrow slice perfectly flat with the least friction possible. It is intended for breaking up original prairie, at a depth of 2 to 3 inches, for which it is amply strong, the timber being of the best quality and the standard thoroughly braced. What we call a "common rigged" breaker has an extra share and standing or knife coulter only, as shown above. See "extra rigged" breaker on next page.



EXTRA RICGED PRAIRIE BREAKER.—Sizes, 10 to 16 inches.

This cut illustrates our "extra rigged" Breaker. The difference between this and the "common rigged," shown on preceding page, consists in the addition of a Gauge Wheel, and substituting a rolling for a standing Coulter. They are for the same purpose, and intend d to run the same depth as the "common rigged" Breaker.

PRESENTED BY

J. M. SCOTT & BRO.,
Hardware, Paints, Oil, Etc.,
MARYSVILLE, O.

"GARDEN CITY CLIPPER."

Old Ground or Stubble, and Stubble and Sod Plows.

On page 11 is shown our Stubble and Sod Plow, with steel tapering land-side.

On pages 12, 13, 14 and 15 are representations of such styles of our Old Ground Plows as are made with the improved steel tapering land-side, showing a mold-board and land-side view of the wood and of the steel beam. The steel parts are made from rolled sheets of cast steel, made expressly for us, and susceptible, under our process, of a very high temper. The mold-boards, shares and land-sides are all tempered. In addition to superior hardness, our plows are so perfectly shaped that they scour in soils where all others have failed. The mold-boards are high—which prevents the dirt from falling back into the furrow—and are wide in the throat or "waist," which carries the dirt well up, covering all weeds and stubble perfectly, also leaving a wide, open furrow.

Plows with low land-sides—which will be found in our Price List under the heads of "Long Bar Share Plows," "Missouri Clipper," and "Wood Standard Brush Plows," and which are illustrated on pages 16, 17 and 18 of this pamphlet—have hard rolled, cast steel, untempered shares, welded to low land-sides, with the exception of "Missouri Clipper" Plows, shown on page 17, which have tempered shares.

Plows cutting 14 inches and over have a three-horse clevis, also braces back of the standards.

The timber is the very toughest oak that we can buy, and the plows are finished in first-class style, every joint being perfect.

Using *only* the best materials, employing our own exclusive processes, and machinery of our own invention, especially adapted to our business, we are able, with long experience, to produce a grade of goods unequalled in any country for their uniformity and effectiveness.

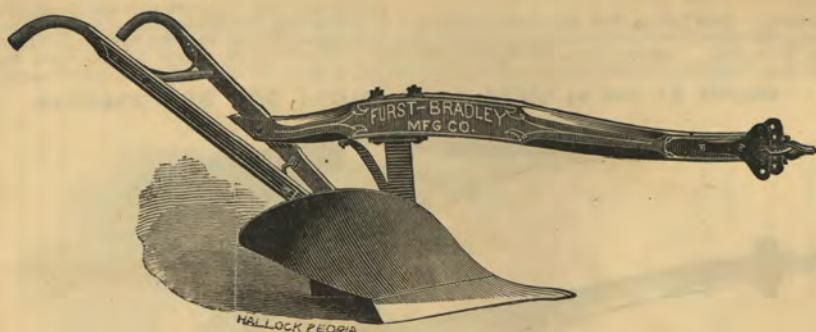


STUBBLE AND SOD PLOW.—Sizes, 12, 13, 14 and 16 inches.

These Plows, as the name indicates, are intended to do old ground as well as tame sod plowing. They are a medium between the more bold or 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 turn tame sod, such as Blue Grass, Timothy or Clover, admirably. They are numbered 19 $\frac{1}{2}$, 20 $\frac{1}{2}$, 21 and 27. We make them with steel beam, also. The numbers of the steel beam plows of this style are 519 $\frac{1}{2}$, 520 $\frac{1}{2}$, 521 and 577.

PRESENTED BY

O. M. SCOTT & BRO.,
Farmers, Ol., Etc.,
MARYSVILLE, O.

**OLD GROUND PLOW.**

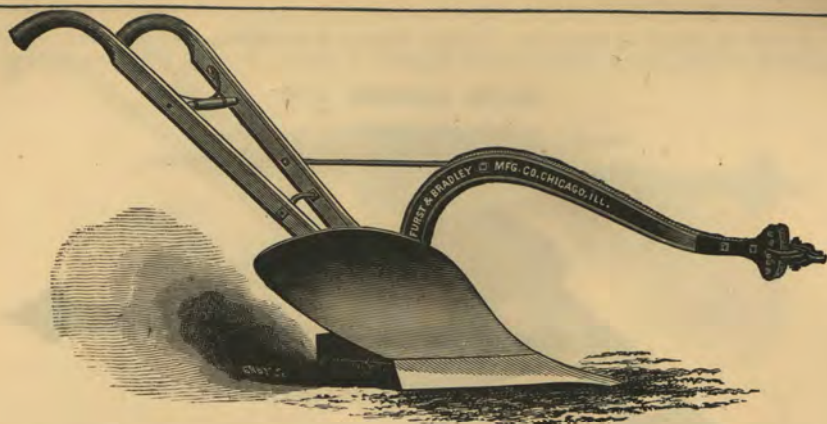
This is a Mold-board view of wood beam Stubble, or Old Ground Plow. All wood beams on Old Ground Plows are *adjustable*. Three-horse clevises are put on all stubble plows cutting 14 inches or over. With these clevises, either two or three horses can be used. For further description, see page 10.

**OLD GROUND PLOW.**

The above cut shows our *Improved Medium or Tapering Landside*, made of Cast Steel and hardened; also the manner of attaching the landside handle, which prevents clogging. For further description see page 10.

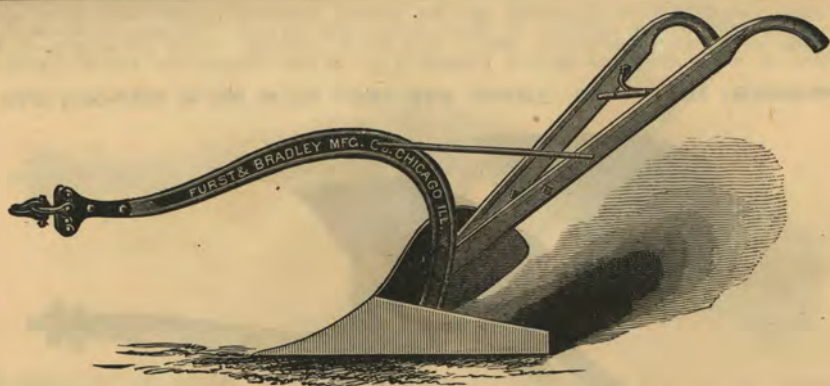
PRESENTED BY

A. M. SCOTT & BRO.,
 Agents for, Paints, Oil, Etc.,
 MARYSVILLE, O.



OLD GROUND PLOW.—Sizes, 12, 13, 14 and 16 inches.

This cut represents the Mold-Board view of our Three-Horse Steel Beam Plow, with three-horse clevis. With the exception of the Beam, they are identical in quality, shape and construction with the plow shown on page 12. We now make all of the 14 and 16 inch plows with a three-horse clevis, so they can be used with either two or three horses. For further description see page 10.



OLD GROUND PLOW.—Sizes, 12 to 16 inches.

This illustration gives a landside view of our Steel Beam Plows, showing the taper landside, and the way we attach handles, which prevents clogging. For further description, see page 10.

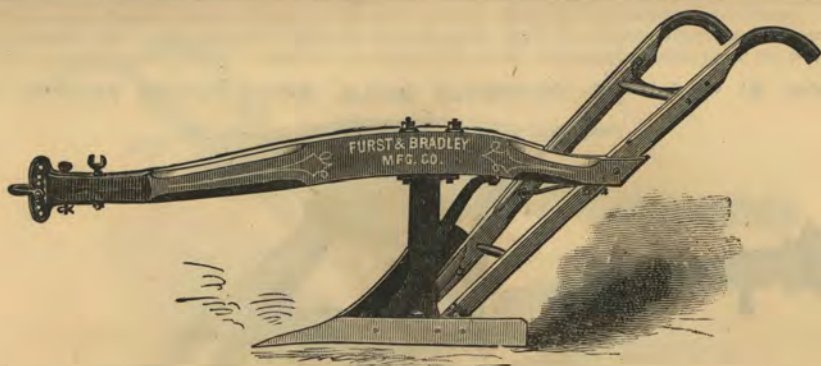
PRESENTED BY

O. M. SCOTT & BRO.,
Lumber, Coal, Paints, Oil, Etc.,
MARYSVILLE, O.



OLD GROUND PLOW WITH LONG-BAR SHARE.—Sizes, 11 to 16 inches.

This plow is wooded precisely the same as, and is identical in shape with plows shown on pages 12 and 13, excepting the landside and share. The share on this Plow is made of hard rolled, untempered steel, to which is welded the long-bar low landside. It is for same general use as our other Old Ground Plows, but the welding of the landside to the share makes it somewhat stronger, and well adapted for use in stony and timbered land. For further description, see page 10.

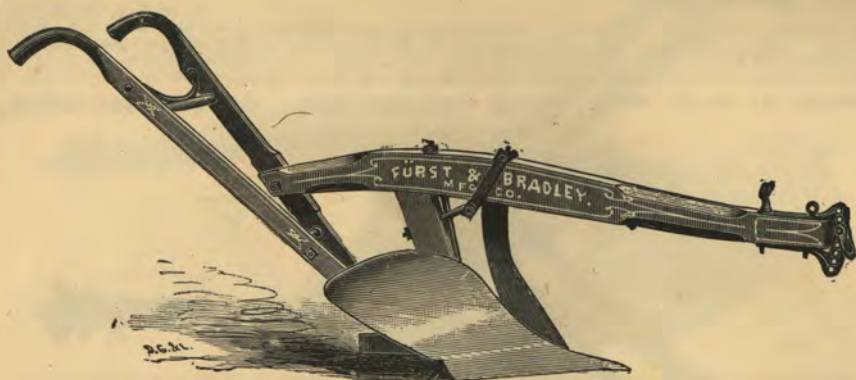


"MISSOURI CLIPPER."—OLD GROUND PLOW. Sizes, 10 to 14 inches.

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 a tempered share; and a strong standard, heavily braced, top and bottom, for stony or timbered land. There is also a slight difference in the way we attach landside handle, as the cut shows. The 14-inch plow has a three-horse clevis. For further description, see page 10.

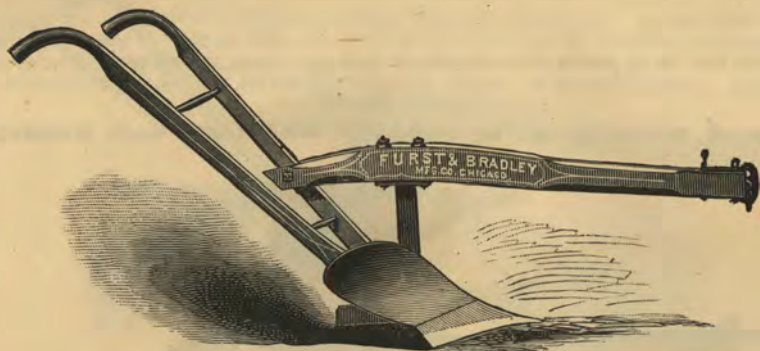
PRESENTED BY

G. M. SCOTT & BRO.,
Paints, Oil, Etc.,
MARYSVILLE, O.



OLD GROUND BRUSH PLOW.—WOOD STANDARD.—Sizes, 7 to 16 inches.

This is a long-bar share Plow with same shaped mold-board 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. For further description, see page 10.

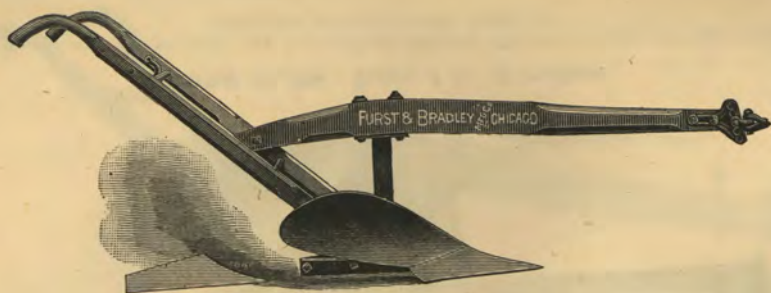


CORN PLOW.—Sizes, 7 to 10 inches.

These plows are made of cast steel, with *hardened* mold-board. They are adapted for light plowing, for cultivation of crops, and for hilling up.

PRESENTED BY

G. M. SCOTT & BRO.,
Lumber, Coal, Paints, Oil, Etc.,
MARYSVILLE, O.



"GARDEN CITY SOUTHERN CLIPPER" PLOW.—Blackland Series.

This cut represents our Nos. T71, T81, T91 and T101 improved "Garden City Southern Clipper." They are especially made and adapted for the black lands of Texas, with sharp cutting angles, and formed in the best possible shape for shedding the dirt. We attach plows of the same shape to our Gang and Sulky Plows, for use in the black lands of Texas and other Southern States. They have hardened cast-steel mold-boards and shares. We also make them with steel beams.



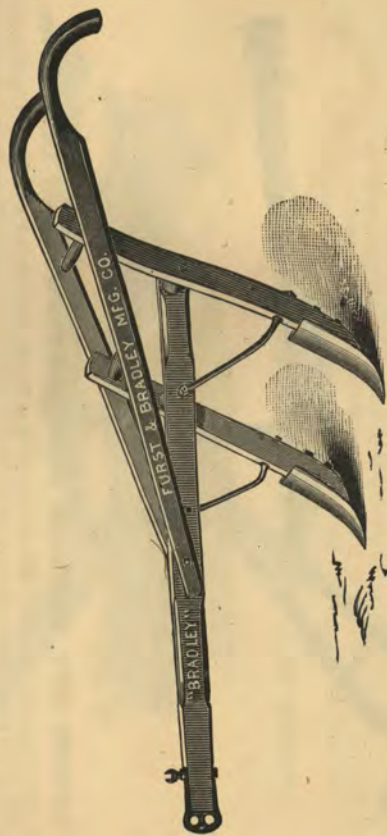
"GARDEN CITY SOUTHERN CLIPPER" PLOW.—Sandy Land Series.

The above cut represents the shape and style of our Nos. 79, X80, X82, X84 and X86, Garden City Southern Clippers. They are adapted for plowing and cultivating in all kinds of soil in Texas and Southern States, but more especially for loamy and sandy ground. The mold-boards and shares are made of cast-steel and hardened. The beams are adjustable. We make them with steel beams also.

PRESENTED BY

G. M. SCOTT & BRO.,
Lumber, Pa., Paints, Oil, Etc.,
MARYSVILLE, O.

WOOD BEAM DOUBLE SHOVEL PLOW.
With Convex Shovels.



The above cut represents our Wood Beam Double Shovel Plow. We also make an Iron Beam Double Shovel Plow.

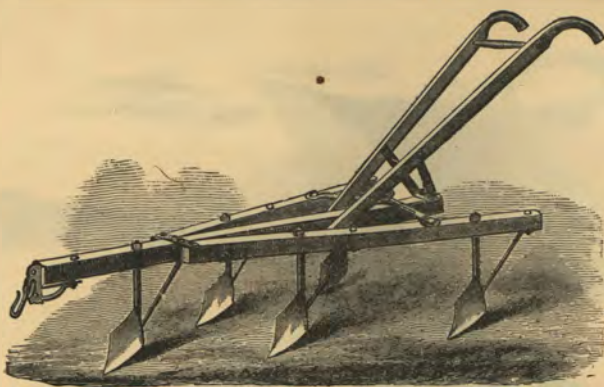
WOOD BEAM SINGLE SHOVEL PLOW.
Convex Shovels



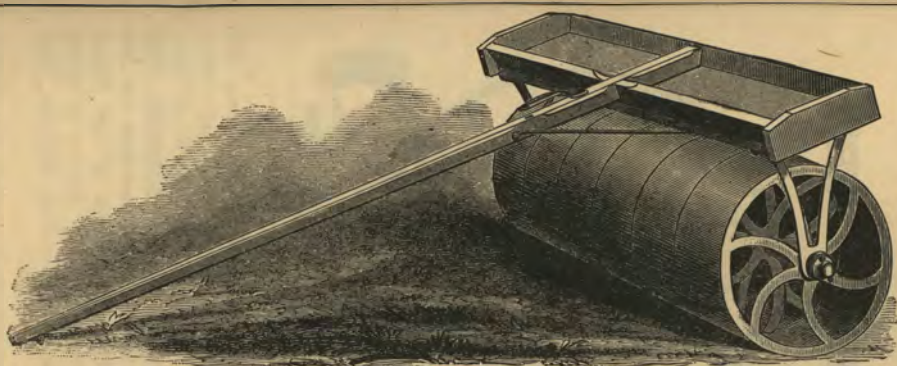
We furnish this Shovel Plow with an 11 or 13 inch cast steel shovel blade, whichever may be desired. It is a splendid implement for cultivating corn, potatoes, and many other crops grown in rows, especially such as need hilling up for last cultivation. We also make one with iron beam.

PRESENTED BY

G. M. SCOTT & BRO.,
Farmers, Ed., Etc.,
MARYSVILLE, O.

**FIVE-TOOTH CULTIVATOR.**

This cultivator can be set to different widths, and makes a very useful implement for cultivating corn, cotton, hops, potatoes, etc. The blades are made of cast steel, are diamond-shaped, and are attached to a wrought iron shank with brace. When one point is worn out, the blades can be reversed and the other point used.

**FIELD ROLLER.**

The above cut represents our Iron Field Roller, with six sections, each section one foot in length. We make two sizes—one 20 and the other 30 inches in diameter. We also make Two Section Rollers, 24 and 36 inches in diameter, with cast iron heads, covered with wood.

N. B.—We make Lawn Rollers to order, 16, 20 and 30 inches in diameter. Can furnish castings for any of the above rollers on notice.

PRESENTED BY

O. M. SCOTT & BRO.,
Liquors, Groceries, Oil, Etc.,
MARYSVILLE, O.

The "BRADLEY" Trussed Suspension

STEEL WHEEL.



The only wheel in the world made on this principle. Much stronger than any other, without being heavier. The above cut illustrates our Patent Trussed Suspension Steel Wheel. The Spokes are drawn from the Rim towards the Center by means of our Patent Compressible Hub, the outer portion of which is made in eight longitudinal sections. (See cut.)

Through each end of said sections is a counter-sunk hole, into which goes one end of a spoke,

which is then upset so it cannot pull out; these sections are then compressed closely against the inner portion of the hub by means of a nut having a beveled flange operating over and upon the beveled or conical ends of the hub sections.

The hub is therefore *suspended* from the rim on the same principle as a trussed suspension bridge, so that the load is carried from the *top* of the wheel, instead of depending on the stiffness of the spokes to support it from underneath. When the load is supported from beneath the hub, the spokes are liable, in the case of steel wheels, to push through the rim or to *bend*, which allows the rim to give way, and ruins the wheel, of course. Wheels having their spokes cast solidly into the hub cannot be satisfactorily repaired, if bent or broken, consequently the entire wheel is a total loss, to replace which is quite expensive, while with our wheel, should one of the spokes break it can be repaired or replaced by any blacksmith.

It can be readily understood that a spoke—say $\frac{3}{4}$ inch in diameter—will hold a weight by suspension from above many times greater than one which it could support on its ends from below; it follows, therefore, that our wheel can be made lighter, and at the same time be very much stronger, than those built in the ordinary way.

Our wheel is also **TRUSSED SIDEWAYS** by means of the tension on the spokes produced by the compression of the hub as above mentioned. As our spokes are set staggered, *i. e.*, each alternate spoke is fastened to opposite ends of the hub-sections and drawn tightly towards the center, it forms a perfect truss. If you take a common wooden wheel and lay it on its side, with the rim resting on bearings at opposite points, and place a weight upon the hub, you will see that it depends entirely upon the lateral strength or *stiffness* of the spokes to support the weight, while with our **PATENT TRUSSED SUSPENSION STEEL WHEEL** in the same position, the weight is supported by the strength of the spokes *lengthwise*.

Our **PATENT STEEL WHEEL** will be put on all of our Sulky Plows, and on our Combined Cultivators and Sulky Hay Rakes, when wanted.

PRESENTED BY

G. M. SCOTT & BRO.,
Farmers, Plowmen, Oil, Etc.,
MARYSVILLE, O.

EXPLANATION OF SPRING ATTACHMENT AND COUPLING.

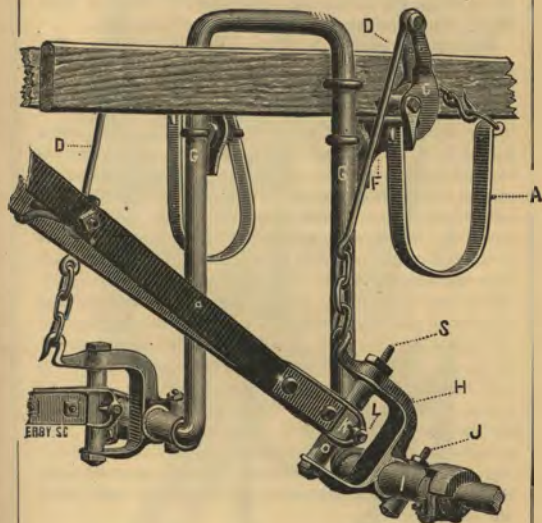
Shown on opposite page.

Secured to the upright part of the arch (G) is a short arm or bracket (F), to the upper edge of which is pivoted the swinging lever (C). The spring (A) is U shaped, having one of its ends bolted to the lower edge of the arm (F). The other, or free end, is formed into an eye, and is attached to the swinging lever (C) by means of a hook and links, as shown in cut. From the upper end of the lever, as shown in the cut, a connecting rod (D) extends downward to a hook formed upon the upper part of the coupling jaw (H). In adjusting for different depths the coupling head (K) is simply moved up or down upon the vertical sleeve (O), and the spring connection (D) being attached to the coupling jaw only, need not be disturbed. The links shown at the lower end of the rod (D) are for the purpose of providing the necessary slack when it is desirable to hook up the beams.

The operation of the springs is as follows: When the beam is down and the shovels are at work, the lever (C) is brought to a horizontal position, and the free end of the spring (A) is drawn back toward the arm (F). When the device is in this position the line of connection from the spring to the lever (C) is brought down near the pivot, thus greatly reducing the power of the spring to turn the lever on its pivot, even though the spring has at the time nearly its utmost tension: the connection (D) to the coupling jaw (H), however, is at its *best* point of leverage in relation to the swinging lever (C), thus affording the beam in this position such perfect control over the spring that the shovels will plow down into dead furrows and other inequalities, and follow the shape of the ground generally, with very little assistance from the operator. When it is desired to raise the plows from the ground, a slight elevation of the plow allows the lever (C) to swing upward and forward on its pivot, thereby increasing the leverage of the spring and diminish the leverage of the beam, until at a certain point the spring obtains sufficient advantage over the beam to automatically complete the operation of lifting and holding the plows up.

The coupling consists of a sleeve (I) free to turn upon the axle part of the arch, with coupling jaw (H) secured to it in any desired position by means of the clamping bolt (J). At the upper extremity of the jaw is formed a hook, to which is attached the rod (D) connecting with the spring lever. Also the sleeve (O) free to turn upon the vertical bolt (S); and the coupling head (K) on beam, secured by means of the clamping bolt (L) to the sleeve (O). By means of this coupling the beam may be raised or lowered, or moved transversely on the axle, thus providing for any necessary adjustment.

Patent Spring Attachment, and Improved Coupling on Walking Cultivator.



For description, see opposite page.

PRESENTED BY

G. M. SCOTT & BRO.,
LAWYERS, Farmers, Oil, Etc.,
MARYSVILLE, O.

"BRADLEY" WALKING CULTIVATOR.

The cut on next page illustrates our Iron Beam Walking Cultivator, with spring attachment and improved couplings 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 very light. Single tongues are attached to this frame when wanted, in place of the double tongue shown in cut. Wood Beam Plows can also be attached in place of Iron Beam, when preferred, they being interchangeable.

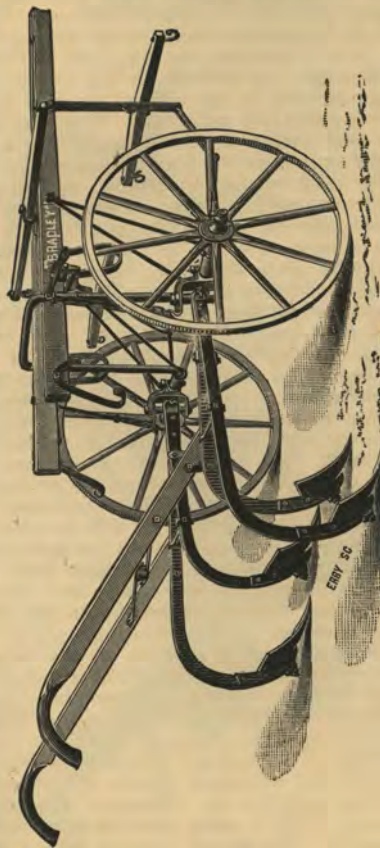
They can be gauged to plow any desired depth. The spring attachment is so constructed that when the Plows are working in the ground the springs affect them least allowing them to run naturally, with just sufficient *lift* to bring them back to their proper position after being forced down by the hand for the purpose of cultivating in dead furrows or other low places. As you commence raising the plows out of the ground, the springs immediately begin to gain an advantage over them, until (when partly up) they have gained sufficient to raise the plows to the full height, *without further assistance*, and to *hold them there* until you wish to put them in the ground again, which can be done by simply bringing them part way down with the hand; the plows will then have gained an advantage over the springs sufficient to go the remainder of the way of their own weight. They 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. They are provided with Reversible Shovels, Break-pin Attachments, and other late improvements.

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

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

We improved it in 1882 by making the arch higher and the beams longer, and by making a radical change in the spring. Also made other improvements, making it by far the most desirable cultivator in the market for effective work and ease of handling.

For description of Springs and Couplings, see pages 28 and 29.

"BRADLEY" IRON BEAM WALKING CULTIVATOR.

For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
LAWYERS, Farmers, Oil, Etc.,
MARYSVILLE, O.

"UNIQUE" **ADJUSTABLE ARCH CULTIVATOR.**

(See cut on next page.)

This Cultivator differs from our regular Walking Cultivator in several respects. It is called an "adjustable arch" because the arch is made in two sections, the top parts of which pass through iron sockets on top of the pole, and are secured in any desired position laterally by a collar and set-screw. These sections of the arch slide past each other at the top in such a way as to secure a great range of adjustment for width between the plows. By bringing the arch-sections as closely together as possible, the inside shovels can be brought within a few inches of each other, or they can be separated to suit the crop which is being cultivated. Another peculiarity of the Adjustable Arch Cultivator is that each side or half of the arch, with its accompanying Plow, Wheel, and other attachments, moves forward or back of the other, according as the horse which draws it gets in advance of or behind its mate. One of the advantages of this arrangement is that each horse is thereby obliged to stand its proportion of the draft. We have made a great improvement in our manner of attaching the springs to this Cultivator, whereby perfect uniformity in their action is obtained. As will be seen by reference to the cut, we now put the springs on the beams, and make a connection with the eveners. This entirely overcomes the varying action of the springs as heretofore attached, which was caused by the changing angle of the arch-sections in their relation to the beams. The operation of the spring, when attached to the plow beam, is the same in principle as when it is attached to the arch on our regular Walking Cultivator. See pages 28 and 29 for a full description of the spring. The Shovels, Shovel Standards and Standard Blocks are identical with those used on our "Chicago" Combined Cultivator. For a more detailed description, see page 36. Moldboard Shovels will be furnished when ordered. We furnish a pair of shields with each Cultivator.

"UNIQUE" **Adjustable Arch** **Cultivator.**



For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
Farmers, Plow, Oil, Etc.,
MARYSVILLE, O.

PATENT FIFTH-SHOVEL FRAME.

For Attaching Fifth or Center Shovel to Cultivators.

(Patented June 24th, 1884.)

SEE CUT ON OPPOSITE PAGE.

All Fifth Shovel Attachments hereafter furnished by us, on our wheel Cultivators, will be of the kind above named and illustrated on following page. For reasons given below they are the very best ever invented for the purpose. Every farmer who has used them pronounces them unequaled, and we know that a trial of a half day will convince any one of their superiority.

The Frame which holds the fifth shovel is constructed so as to allow great flexibility in the movements of the Cultivator Plows or Gangs, either of which can be raised to clear obstructions without raising the center shovel out of the ground. When it is desired, however, to raise all of the shovels, including the center one, it can be done by raising both plows at once.

Again, it can be attached to two-horse cultivators of *any* make.

Being attached so as to bring the center shovel in the rear of the others, it can be more readily and easily cleared of any trash which may cling to it, such as small roots, vines, old corn stalks, etc.

It can be attached or detached quickly and with very little trouble.

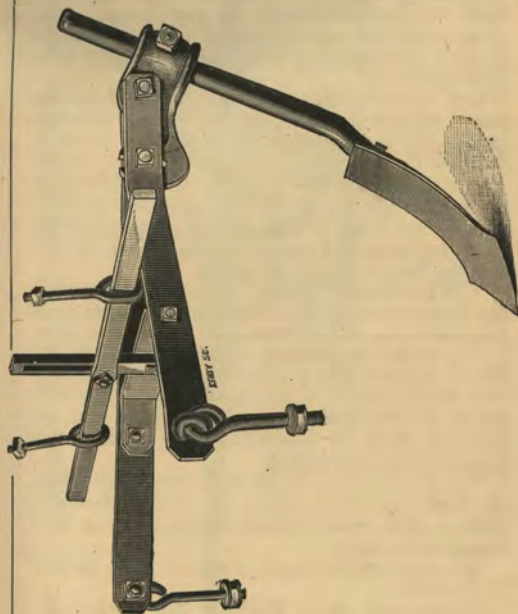
Ask our agent to show you one. We *know* you will like it.

PATENT

Fifth-Shovel Frame.

The best thing of the kind yet produced.

(For description, see opposite page.)



Can be attached to any Cultivator.

We shall furnish this Attachment whenever Fifth-Shovels are ordered for our Cultivators.

PRESENTED BY

O. M. SCOTT & BRO.,
Farmers, Oil, Etc.,
MARYSVILLE, O.

THE "CHICAGO" COMBINED CULTIVATOR.

(See cut on opposite page.)

For 1885 this Cultivator will have longer beams, which we get by placing the wrought arch, to which the plows attach, further forward than heretofore. Longer beams run more steadily and handle easier than the shorter ones; besides, they keep the shovels nearer at right angles with the rows when the plows are moved sideways. The Shovels are fastened rigidly to the Standards, which are made of round wrought iron, and are adjustable up and down. The Standards can also be turned in their sockets to set the Shovels so as to throw the dirt to or from the crop.

Our Shovel Standards are fastened to the beam by two blocks (one on top of and one below the beam), both of which are movable forward or backward, by means of which movements the Shovels can be set to any pitch desired.

The Standards are held in position by Friction Safety Nuts, which allow them to give way in case they strike an obstruction, thereby saving the Shovels from breakage.

The Levers and Racks are greatly improved, the Levers being held to the Racks by springs of finest temper, which cannot be bent or broken.

The Seat is adjustable to suit persons of different weights and lengths of limb, and is supported by a wrought iron seat-raiser or support, made in two pieces, so the operator can see between them to dodge the corn or whatever crop is being cultivated.

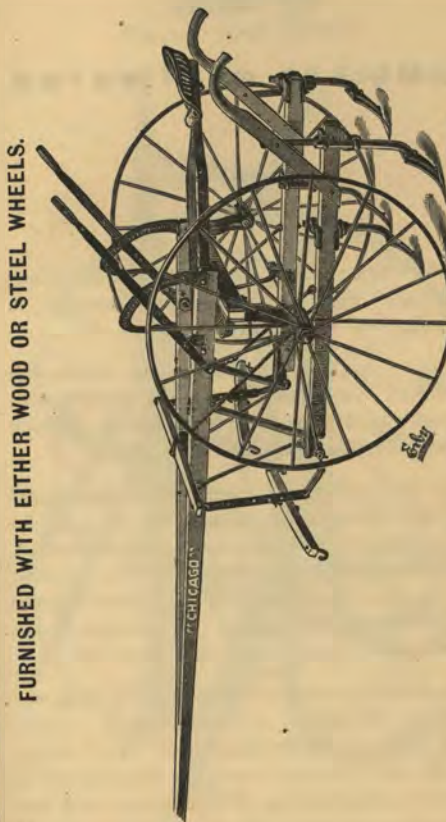
The Frame is of wood, with iron Axle Arms, as shown in cut, making an arch sufficiently high to clear corn without injury, as long as it needs cultivating.

We attach either wood or steel wheels, as may be desired.

When used as a Walking Cultivator, the whiffletrees 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 in turning, the pole does not fly up.

It works admirably in cultivating fallow ground, and in putting in small grain, by using a fifth or center Shovel.

"CHICAGO" COMBINED CULTIVATOR.



FURNISHED WITH EITHER WOOD OR STEEL WHEELS.

OUR PATENT FIFTH SHOVEL ATTACHED WHEN WANTED.

With Improved Couplings, Levers, Shovel Standards and Standard Blocks.

For description, see opposite page.

PRESENTED BY

O. H. SCOTT & BRO.,
Farmers, Oil, Etc.,
MARYSVILLE, O.

THE "VULCAN"

COMBINED CULTIVATOR.

(See cut on opposite page.)

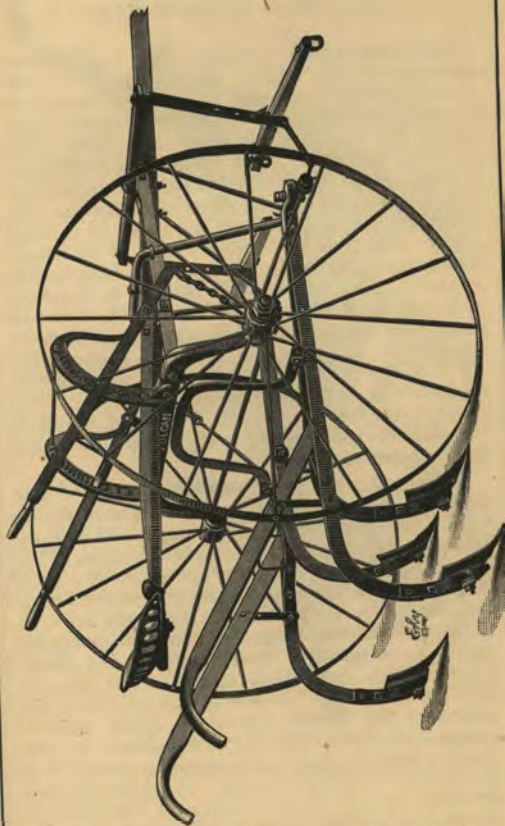
Our Vulcan is the same in principle as our "Chicago" Cultivator. It differs, however, in the following-named particulars:

It has iron beams and frame, while the "Chicago" has straight wooden beams, with wrought iron shovel shanks, and a wooden frame, with iron axle-arms.

The Frame is made almost wholly of wrought iron, and is braced in such a way as to make it very strong; at the same time it is light, and, with our patent Suspension Steel Wheel, makes one of the finest looking and most salable implements in the market. Wood wheels are furnished in place of steel, when wanted.

Many of the features found in the Vulcan are identical with those of the "Chicago" Cultivator. We therefore refer you to our description of the "Chicago," on page 36, so far as it relates to lengthening of the Beams, and improvements in Levers, Racks and Seat; also, in relation to our way of attaching the whiffletrees when using it as a Walking Cultivator, etc.

THE "VULCAN"
COMBINED CULTIVATOR,
WITH OUR
Patent Steel Wheel.



See description on opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
LUMBER, CO., LUMBER, CO., Etc.,
MARYSVILLE, O.

**"BRADLEY" IMPROVED
TONGUELESS CULTIVATOR,
With Automatic Drag-bar.**

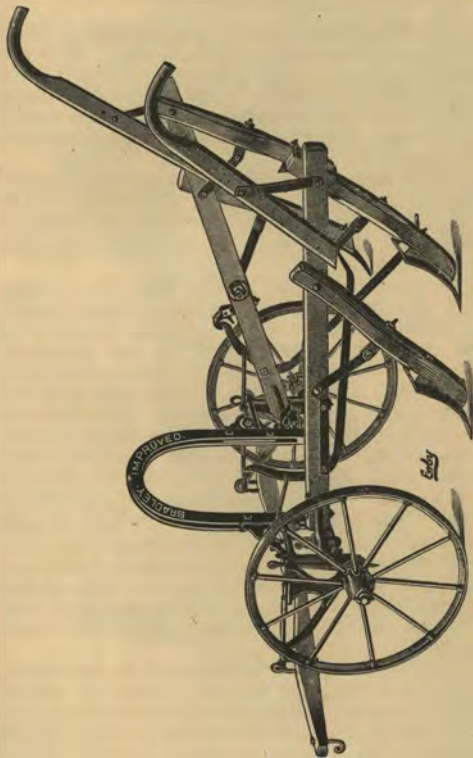
(Patented.)

SEE CUT ON OPPOSITE PAGE.

Its construction embraces the well known principle of the caster wheel, which is now pretty generally adopted and which overcomes the tendency of cultivators *without* them to run out of the line of draft when one horse gets ahead of the other. Our Tongueless Cultivator has been improved for 1885 in several respects, to which we wish to call your special attention. We have strengthened the Arch, so we are sure, from severe practical tests made, that it is amply strong under all circumstances. It is a double wrought arch, so constructed as to combine lightness with great strength. The Plow Beams have been shortened, which makes them lighter, and easy to handle. We have also changed the curve of the shovels so as to throw more dirt to or from the corn, as the case may be. The Draw Arms are now made mostly of wrought iron, which reduces the weight and increases their strength.

A very valuable improvement is that of our Patent Automatic Drag-Bar, by means of which the Plows are automatically caught and held up after having been raised to a given height. This is accomplished through the operation of a hook which catches upon the upper end of the Drag-Bar, as shown in cut. As the plows are lowered to their work, the Drag-Bars are automatically raised to a position directly under the plow-beams. (See cut, which shows one of them in that position.) The Couplings for attaching the plows to the frame admit of great adjustability, and while they allow the plows to play freely sideways, they hold them so firmly that there is no wobbling motion. The desired depth of cultivation is got by changing the pitch of the Shovel and Standard, which can be done by means of our adjustable standard-brace socket.

**"BRADLEY" IMPROVED
TONGUELESS CULTIVATOR,
With Automatic Drag-Bar.**



For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
Farmers, Planners, Oil, Etc.,
MARYSVILLE, O.

"BRADLEY" SULKY RAKE.**Hand Dump No. 1.**

The illustration on next page shows our No. 1 two-horse Hand-Dump Sulky Rake. It is the same as our one-horse Rake, except that it has a pole instead of shafts. A farmer having one of these could have both pole and shafts for it, and use it with one or two horses, as suited his convenience.

These Rakes are very convenient when changing from mowing to raking, as the same team can be hitched to rake without having to separate them; in bunching up, the horses straddle the windrow.

We continue to use in this Rake the double coil, cast-steel, spring-tempered teeth, which we have used for years, believing them to be the most durable and elastic of any manufactured. The twenty inches of tempered spring-steel in the coil, in addition to the spring of the tooth itself, gives extraordinary elasticity and strength to the teeth, rendering them greatly superior for raking on rough ground or for heavy work, such as raking cornstalks, bunching up, etc. The cleaner-head is firmly bolted to the rear ends of the shafts, which extend back of the axle eight or nine inches; this enables us to use short cleaner teeth, which are not liable to break in bunching up. The shafts are strongly braced to cross-piece, and the Rake, in all its parts, is thoroughly and well made.

Our lever can now be attached in two ways, so that for dumping you can arrange it either to pull or push. We avoid a positive dead-lock for holding this rake head down, as being objectionable, for several reasons; but our lever approaches it so nearly that the mere weight of the operator's foot is all that is necessary to hold the head to its work in the heaviest raking. It is finished in fine style, and made of the very best material. When properly used, we guarantee satisfaction.

"BRADLEY" SULKY RAKE—Hand-Dump..
For two horses. For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
Farmers, Editors, Oil, Etc.,
MARYSVILLE, O.

THE "BRADLEY NO. 2"

HAND DUMP SULKY RAKE.

(See cut on opposite page.)

It is the **Cheapest Sulky Hay Rake** in the market for the price. It is simple in its construction, therefore not at all likely to get out of order.

The **Teeth** are firmly held to their work, when raking, by a locking device in combination with the hand lever, which remains locked until it is desired to dump the rake.

To **Dump** it, the hand lever is pressed slightly upward, which throws it out of lock; after which an easy forward pressure upon the lever completes the operation, aided by the weight of the driver.

The **Material** used in this **Rake** is of the same quality as that which we put in our other Rakes, viz., the best that can be procured, and it will be finished in first-class style.

The set of the **Teeth** can be changed quickly to suit the kind of raking which is to be done, by simply removing a bolt and lengthening or shortening the connection between the axle and the hand lever.

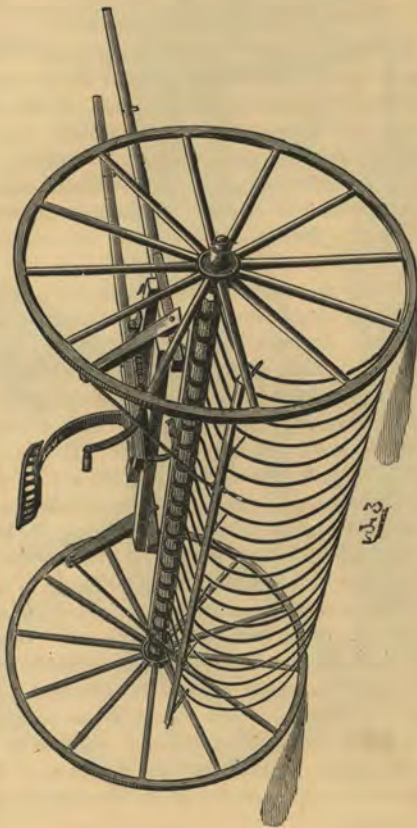
The **Teeth** are **Cast Steel, Tempered In Oil**, and are thoroughly tested at the factory, and again by us, before putting them in the Rake. This rigid inspection is evidence that the teeth put in these Rakes will be without flaw or defect. Having a spring temper, they do not bend out of shape, but return to their original position when the pressure is removed.

IT IS EASILY OPERATED.

Any boy or girl who can manage a team can handle it.

We attach a pole, instead of shafts, at a slight additional cost, when it is desired to use two horses.

THE "BRADLEY" No. 2
HAND DUMP SULKY HAY RAKE,
 WITH
Lock Lever and Overhanging Cleaner.



For description, see opposite page.

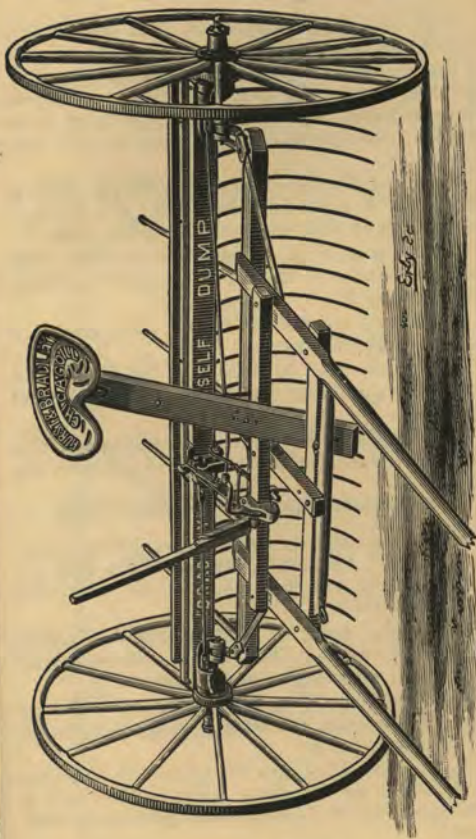
PRESENTED BY

G. M. SCOTT & BRO.,
 Agents for Farmers, Oil, Etc.,
 MARYSVILLE, O.

"BRADLEY" SELF-DUMP RAKE.

The cut on next page illustrates our Self-Dump Horse Hay Rake. It has the strongest and most durable dumping device of any rake made. It dumps from both wheels, and is entirely free from all side draft or jerking. It can also be dumped on a corner without cramping the rake. It is made of the best material and nicely finished. The shafts are stiffened with forged iron braces which connect with the axle a few inches from the end, thereby preventing lateral motion and increasing the strength of the rake. Any boy or girl who can drive a horse is strong enough to operate it. It has 20 spring steel teeth, tempered in oil, which are given a very thorough test for quality and strength before they are put into the rake. Each tooth is independent, and can be quickly replaced in case of breakage, which, with our teeth, rarely occurs. In heavy raking the teeth can be held to the ground by the weight of the operator's foot on the lever, which is held nearly in lock as the foot rests upon it, but is relieved immediately upon the foot being taken off. Whenever desired, it can be used as a hand lever rake, and, as such, cannot be excelled. By simply taking out a bolt, the teeth can be raised or lowered to suit the raking, whether it be stubble-fields, corn-fields or meadows. We make them with pole for those who wish to use two horses.

"BRADLEY" SELF-DUMP RAKE.



For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
Lumber, Coal, Paints, Oil, Etc.,
MARYSVILLE, O.

SULKY-RAKE TEETH.

See cut on next page.

No. 1 was used in Rakes in 1862 and 1863; it is a *round double coil wire* tooth.

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.

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.

No. 4 was used in Rakes made in 1865, 1866 and 1867, and is a *double oval coil wire* tooth, shorter than No. 3.

No. 5 was used in 1868 and 1869, and is a *double oval coil cast steel* tooth.

No. 6 was used in 1870 and 1871, and is a *double oval coil cast steel* tooth, with end turned up.

No. 7 has been used since 1871, and is a *double round coil cast steel* tooth, with end turned up.

The Following are Self-Dump Rake Teeth:

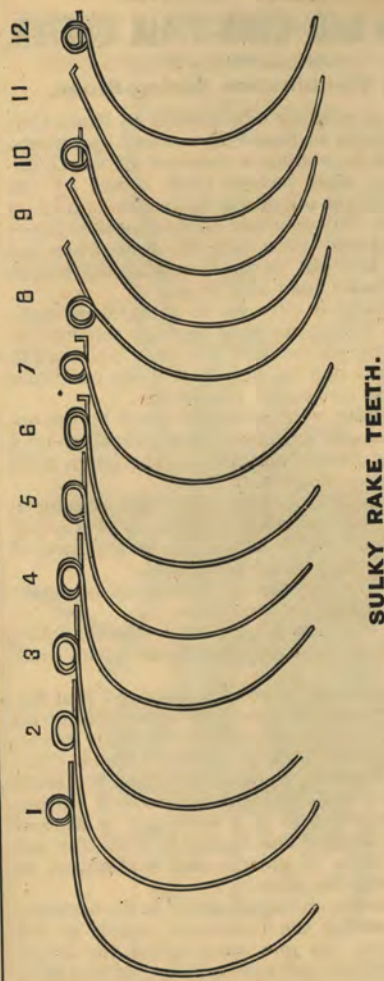
No. 8 was used on our Friction Dump Rake made in 1877, 1878, 1879, 1880 and 1881, and is a *round double coil cast steel* tooth, with end turned sideways.

No. 9 was used on our Improved Friction Dump Rake made in 1882, and is a *straight cast steel* tooth, with end turned sideways.

No. 10 was used on our Improved Friction Dump Rake made in 1882, and is a *round double coil cast steel* tooth.

No. 11 is used on our "Bradley" Self-Dump Rake, which we began to make in 1883, and is a *straight cast steel* tooth, with end turned sideways.

No. 12 is also used on our "Bradley" Self-Dump Sulky Rake beginning with 1883, and is a *round double coil cast steel* tooth.



SULKY RAKE TEETH.

The above cut shows the kinds of teeth we have used in our Sulky Rake at different times, and numbered for convenience in ordering. For description see opposite page. Always order by number.

PRESENTED BY

G. M. SCOTT & BRO.,
Lancaster, Pa., Agents, Oil, Etc.,
MARYSVILLE, O.

"BRADLEY" IMPROVED COTTON AND CORN-STALK CUTTER.

(Double and Single Row.)

With Combination Spring-Hinge,

Which is an entirely new feature in Stalk Cutters, and which we have fully covered by patents. Its effect is to produce a rebound of the Cylinder Frame, after having been raised by the Cylinder Knives operating against the stalks on the ground. This rebound chops the stalks much more effectually than can be done when the knives are brought down merely by the weight of the Cylinder head and frame.

The Cylinder is covered, to prevent any accident from falling upon or against the knives, and the cover serves as a box into which additional weight can be put should the condition of the stalks or ground require it.

The Cylinder can be easily raised by the operator, as he sits in his seat, and is held up by a self-locking device attached to the lever, until ready to lower it again.

The Cylinder-Heads are sufficiently strong to stand the roughest usage, and the knives are of cast steel, and can be kept sharp by grinding or filing, the former being preferable.

The seat is supported by a steel spring, making it easy riding for the driver.

We put on high wheels with wooden hubs, which turn on iron spindles, making the draft light.

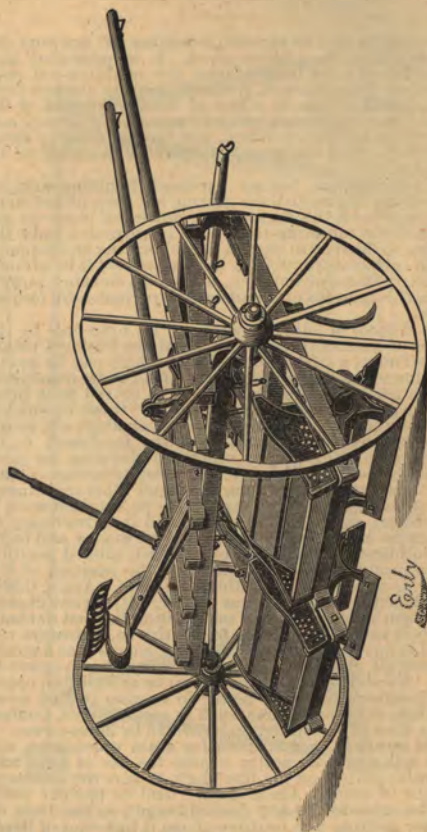
The machine is so evenly balanced and the springs so arranged that there is no jerking on the horses' necks, and none is felt by the driver.

Our Double-Row Stalk Cutter, which is illustrated on opposite page, is arranged for three horses. We also make a Single-Row Cutter, which cuts one row at a time, and is worked with two horses. The Single-Row Cutter has the same style of spring, and is identical in principle with the other.

We have made an improvement in the arrangement for raising the Cylinders, which is not shown in cut. As now constructed, the levers are hung behind the axle, and are at one side, and out of the way of the driver

"BRADLEY" IMPROVED COTTON & CORN-STALK CUTTER, With Combination Spring-Hinges.

Double and Single Row.



The above cut shows our double row Stalk-Cutter arranged for three horses. For description, see opposite page.

PRESENTED BY

O. M. SCOTT & BRO.,
Machinery, Paints, Oil, Etc.,
MARYSVILLE, O.

PACKER IMPROVED Portable Upright Horse-Power.

(See cut on opposite page.)

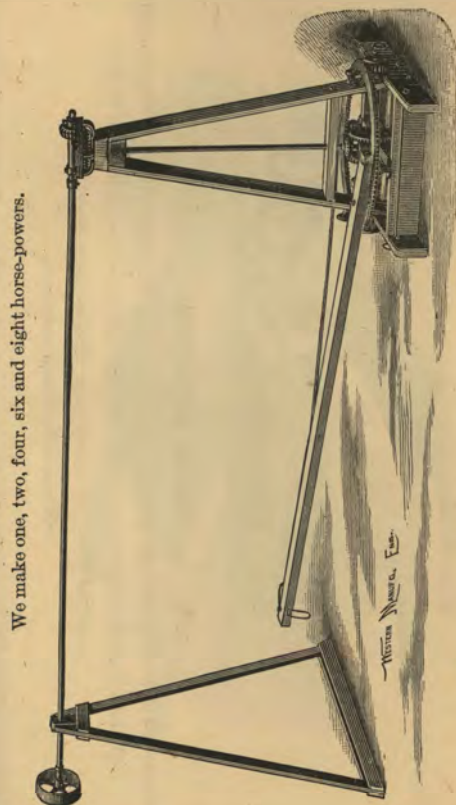
Portability and an elevated tumbling-rod are very desirable points in a horse-power. It is estimated that when horses have to pass over the tumbling-rod each time they make a circuit, it causes them to slacken their draft, which results in a loss of fifteen per cent of the horse-power employed, besides causing an unsteady motion of the machinery driven, and further, a low or down tumbling-rod is dangerous to persons working in its vicinity.

In horse-powers having overhead tumbling-rods, as heretofore constructed, the gearing has been placed some distance above the horses, and nearly or quite on the plane of the tumbling-rod. This construction puts the gearing so high as to require lateral bracing and support, and in such construction no bracing, except it be to some stationary frame or building, is feasible, and such powers are used *only when attached to some permanently located frame.*

The defects of other powers are all overcome by the improved manner of construction of the Packer Upright Horse-Power, a pretty good idea of which can be got by referring to cut on opposite page. It is, as its name indicates, a *portable* power, which can be moved from place to place as circumstances may require. It can be quickly and easily set up. The tumbling rod or shaft can be adjusted to any altered position of the machinery to be driven, without moving or otherwise changing the position of the power, which is a very great advantage in running threshers, corn-shellers, saws, and other machinery, as it often occurs that the material to be operated upon is at different angles to the power, and it is necessary to change the machinery to such different angles, and to be able to adjust the tumbling-rod to such altered position of the machinery without changing the position of the power, is a great saving of time and labor. Again, this is a combined belt or tight gear power, without any change other than to place a pulley on the tumbling-rod or shaft, and belt to the machinery to be driven, a feature not found in any other horse-power, and adapts it as a power to drive all classes of machinery where horse-power is used. Tumbling-rods or shafts may be extended in opposite directions from the power to operate two or more machines at the same time, such as corn-shellers, pumps, or any class of machinery to be driven by horse-power.

This power is well adapted for grain warehouses, the speed being such as not to require the use of large and expensive pulleys on the line shaft, to give the necessary amount of speed. Again, the vertical or upright shaft may be extended to any desired height, so that lines of counter shafting may be driven from it by means of bevel gears at each story of a warehouse having any number of stories, a feature not found in any other horse-power.

THE PACKER IMPROVED PORTABLE UPRIGHT HORSE-POWER. With tumbling rod overhead.



We make one, two, four, six and eight horse-powers.

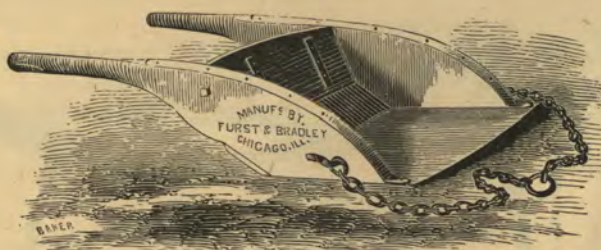
The four, six and eight horse-powers mounted, when so wanted.

For running Corn Shellers, Feed Mills, Cider Mills,
Wood Saws, Elevators, etc., etc.

(See opposite page.)

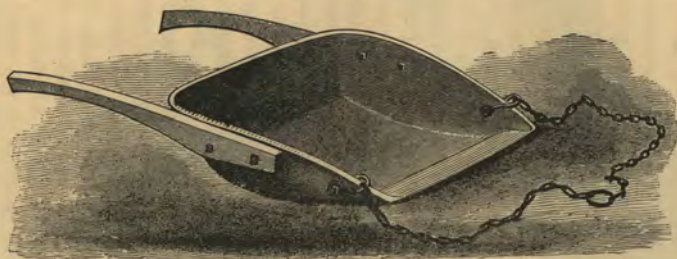
PRESENTED BY

O. M. SCOTT & BRO.,
Lumber, Iron, Paints, Oil, Etc.,
MARYSVILLE, O.



ROAD SCRAPERS.

We make this style of Scraper with steel bottom, one size only—34 inches in width. They are used for all kinds of grading and railroad work. We also make a very heavy Railroad Plow for grading work. We attach chain bails, as shown in cut, or stiff rod bails, as may be desired.



CAST IRON ROAD SCRAPER.

We manufacture these Cast Scrapers in two sizes, viz., 26 and 28 inches. They are used for the same purposes as the Steel Bottom Scraper, shown on preceding page.

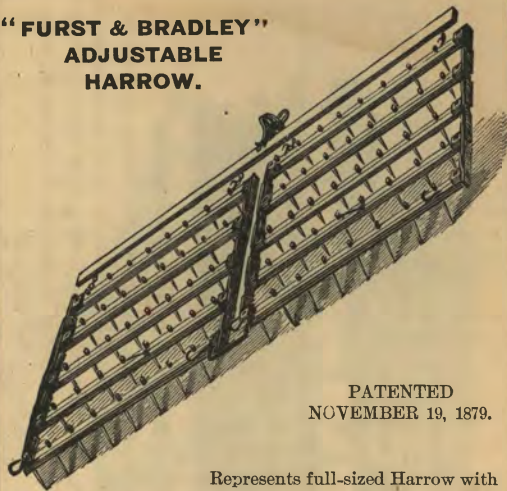
PRESENTED BY

O. M. SCOTT & BRO.,
Harvey Ave., Marietta, Ga., Etc.,
MARYSVILLE, O.

"FURST & BRADLEY" ADJUSTABLE HARROW.

This Harrow, illustrated on opposite page, consists of one, two, three, or more sections, each section five feet wide. Sections are held in position by attachments suited to the purpose. They consist of five seasoned white-oak bars, octagonal in shape and $2\frac{1}{4}$ inches in diameter; the teeth are steel, $\frac{1}{2}$ inch square, and 9 inches long. Half-inch teeth are preferable, because of their superior cutting properties and tendency to keep sharp much longer than a tooth of larger body; they are sufficiently strong for all ordinary purposes. A ten-foot harrow contains eighty teeth, or one tooth to every inch and a half of surface covered.

The harrow is made either rigid or flexible, by means of joints between the bars (as shown in cut) and a movable bolt and nut operating in a slot, which bolt when slipped one way allows the joint to play, and *stops* the play when slipped the other way. The draught is on both ends of the bolt by which the joint is held together, insuring greatest strength and durability. (Patented.) When drawing the harrow one way, the teeth slant back; drawing it the other way, they stand straight down. The top of the tooth bar is cut down the thickness of the casting passing through the slot, a cast iron cap is placed on top, also one on the under side of the bar, and the whole tightly bolted together. (Patented.) All that is necessary to change the position of the teeth, is to transfer the draught from one end of the harrow to the other. Each section works independently of the others. In gardens, orchards, or other grounds where a wide harrow cannot be worked, the harrow can be divided and a single section used.

**"FURST & BRADLEY"
ADJUSTABLE
HARROW.**

PATENTED
NOVEMBER 19, 1879.

Represents full-sized Harrow with
teeth slanting.



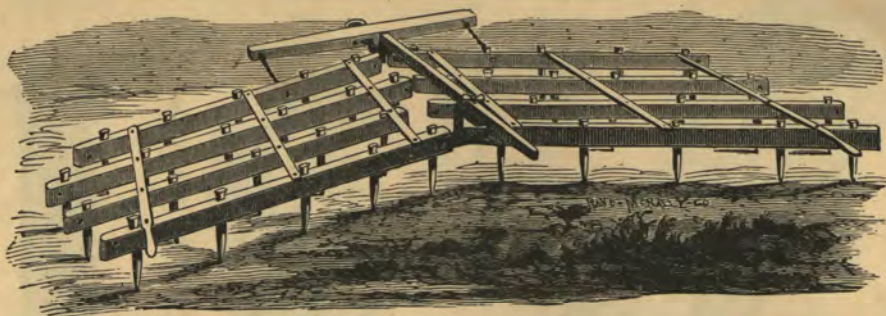
A single section with teeth straight.



Folded ready for shipment, or storage when not in use.

PRESENTED BY

G. M. SCOTT & BRO.,
LANSING, PAINE, OIL, ETC.,
MARYSVILLE, O.



FRIEDEMANN PATENT HARROW.—Two Sizes 9 and 12 Feet Wide.

This implement has been thoroughly tested, and found to possess superior advantages. The manner in which the two halves are connected allows either side to play several inches above or below the other, at the center, by which it readily conforms to uneven surfaces, such as dead furrows, etc. It is light and strong, easily handled, will not upset in turning, easily cleared from trash, works splendidly in cornstalks, and does its work thoroughly. No danger of injuring the horses' heels. You can raise the center as well as the sides. They have $\frac{1}{2}$ -inch steel teeth.

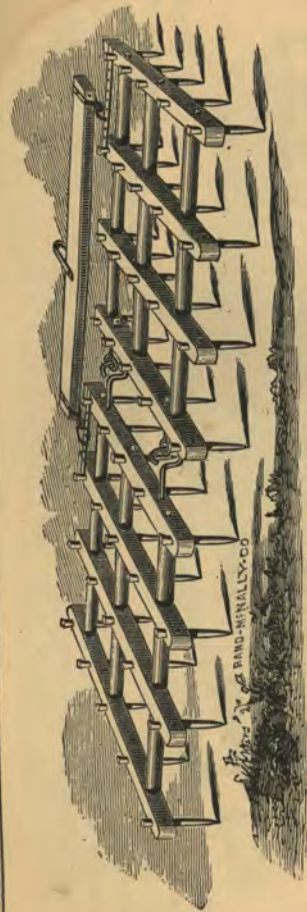


"ECLIPSE" HARROW.—Made with two or three Sections.

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 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.

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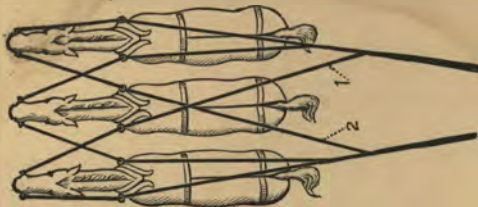


SCOTCH HARROW.

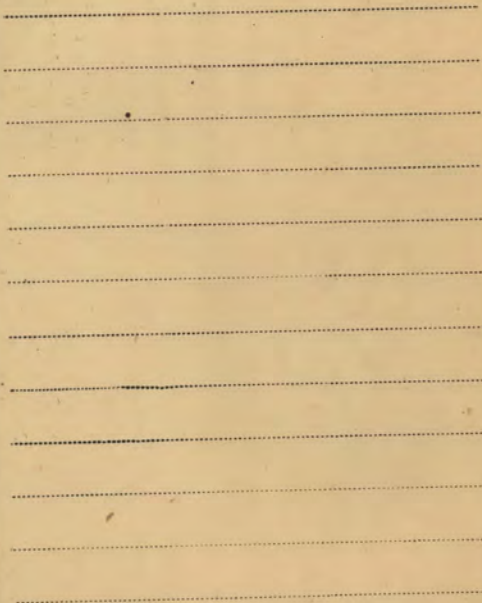
Scotch Harrows are all about alike in principle, but there is a very great difference in the value of the various productions, consisting mainly in quality of material and workmanship.

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 steel.

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



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