

ESTABLISHED 1855.

INCORPORATED 1871.

B. D. BUFORD & CO.

ROCK ISLAND PLOW WORKS.



ROCK ISLAND.

BRANCH HOUSES.

B. D. Buford & Co. St. Louis, Mo.

B. D. Buford & Co. Kansas City, Mo.

B. D. Buford & Co. St. Joseph, Mo.

B. D. Buford & Co. St. Paul, Minn.

Gies & Co. Buffalo, N.Y.

1882.	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.	1882.	Sund.	Mon.	Tues.	Wed.	Thur.	Frid.	Satur.
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	15	16	17	18	19	20	21		9	10	11	12	13	14	15
	22	23	24	25	26	27	28		16	17	18	19	20	21	22
	29	30	31	...	...	...	...		23	24	25	26	27	28	29
FEB.	...	...	...	1	2	3	4	AUG.	30	31	...	...	...	...	...
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	12	13	14	15	16	17	18		6	7	8	9	10	11	12
	19	20	21	22	23	24	25		13	14	15	16	17	18	19
	26	27	28	...	...	...	...		20	21	22	23	24	25	26
MAR.	...	...	...	1	2	3	4	SEPT.	27	28	29	30	31	...	...
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APRIL.	...	...	...	...	...	...	...	OCT.	24	25	26	27	28	29	30
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	30	...	...	...	...	...	...	NOV.	...	...	...	1	2	3	4
MAY.	...	1	2	3	4	5	6		5	6	7	8	9	10	11
	7	8	9	10	11	12	13		12	13	14	15	16	17	18
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	21	22	23	24	25	26	27		26	27	28	29	30	...	...
	28	29	30	31	...	...	...	DEC.	...	...	...	...	...	1	2
JUNE.	...	...	...	...	1	2	3		3	4	5	6	7	8	9
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To our Patrons:

In presenting you with our catalogue for 1882, and in calling your attention to the various improvements in styles, finish and quality we have made in our already popular goods, we feel that our thanks are due to our many friends for the patience with which they have waited for their orders to be filled during the past year.

It will be remembered that, at the beginning of the year, a disastrous fire swept away a large portion of our works, and destroyed the accumulated product of months of labor, which was just ready to be shipped to the trade. But with the large stocks carried by our branch houses at St. Louis, St. Paul, Kansas City and St. Joseph, we were enabled to partially supply the demand for our goods, which, by reason of a superiority that has so closely allied them with the remarkable advancement in the improved methods of farming during the past *twenty-five years*, was unprecedentedly large. Having rebuilt and completed our works on a largely increased scale, and equipped them with all the facilities that superior skill could devise and long experience suggest, we confidently hope to fill all orders promptly and satisfactorily in future.

The capacity of our new works, with our new and improved machinery, enables us to manufacture with an economy so much greater than all others, that we are able to employ

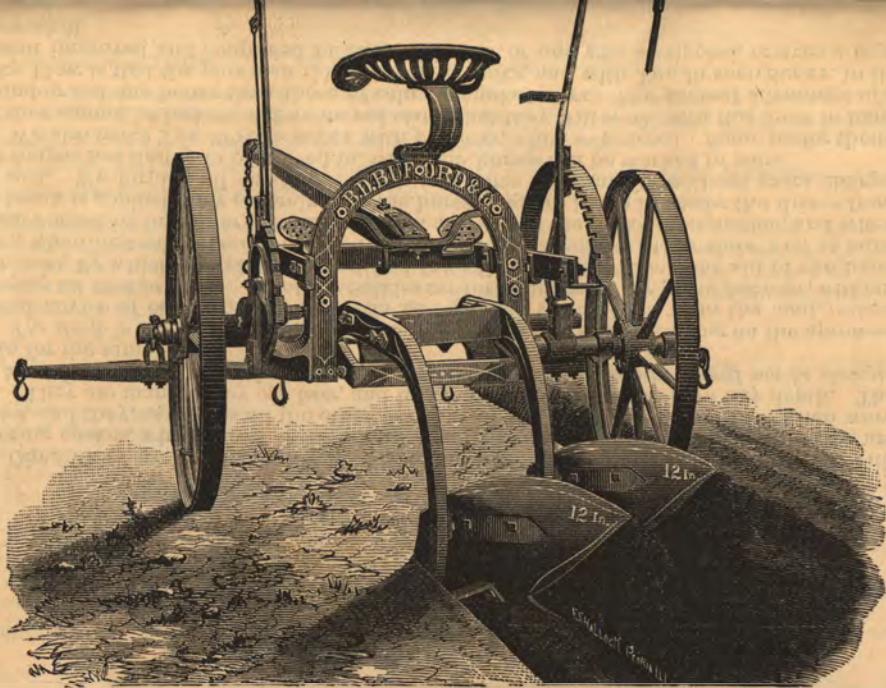
skilled and experienced labor in the various departments, so that our goods are perfect in all parts—adapted to any soil however difficult to work, and especially suited for the purposes intended—without any additional cost to the purchaser. The important improvement we have made in our Plows, is the substitution of Homogeneous Steel Back Mould-Boards in place of Iron Centers, which makes these Plows wear much longer. Having acquired the art of tempering such steel without its warping, we shall use it in all Plows intended for difficult soils. In Cultivators, we have adopted the Dryden Patent Twisted Shovel. These shaped shovels, when properly hardened, will scour in any soil, and with our method of attaching them, the most inexperienced plowman cannot prevent them from always working properly. We have the exclusive control of this patent. We also make our couplings so that the wear can be taken up, thereby always retaining a close fit.

Believing these advantages will be appreciated by the trade, and especially by those who may handle our goods on the farms, we respectfully solicit a continuance of your good opinions, and would ask you to carefully examine the superior styles and the valuable improvements explained more fully in connection with the following illustrations.

Respectfully, &c.,

B. D. BUFORD & CO.





BUFORD'S GANG PLOW.

BUFORD'S SULKY PLOW.

Shown on Page 4.

Our Sulkies are all made entirely of iron and steel. They have forty-inch wheels, with tapering spokes, which gives them a very symmetrical appearance. The axle-boxes are *chilled*, and they, as well as all the other bearings of the plow, can be replaced when worn out. They are managed by *one lever*, and in a moment can be set to plow any depth. The *left hand lever* is used to level the plow, and when once set for depth, *it need not be changed* again for the same land.

The *draft* is direct from the beam, and by means of a slotted casting on the apron—a special device of our own—the plow can be regulated to run to or from the land, *without changing the hitch or clevis*. All of our Sulkies are furnished with *our patent foot lever*, without extra cost, by which the plow can be lifted from the ground without the aid of the hand lever, when desired. We are opposed to power lifts on Sulkies; they show well at fairs, when worked by machinery, but can be used only when the Sulky is in motion, and when the break is applied, they severely jerk the horses and are liable to throw the driver from his seat. We furnish all our Sulkies with two-horse attachments, without extra charge. The tongue has simply to be moved in, when the horses can be worked in pairs.

We also make THE BUFORD SULKY with *pull lever*, when so ordered. Some prefer them, but they cannot be locked, and we do not claim that they will work with this lever in hard ground or sod any better than those of other manufacturers. The general advantage of a Sulky Plow is that the plowman rides instead of walks, and with THE BUFORD SULKY, in its present improved and simplified form, an old man, or one who is crippled, or even a boy, can work it.

The special advantages of THE BUFORD SULKY, over all others, are:

It is better made, more durable, and more serviceable than any other Sulky in the market. It can be more easily handled, and can be set to run level at any depth on any kind of uneven ground.

It can be locked to go into the ground or not, as may be preferred.

It will turn under broom corn or similar rubbish, where a hand plow would be worthless.

It will plow in the hardest ground where lighter sulkies would not last a day.

The superiority of THE BUFORD SULKY has been attested in so many field trials, that we do not find it necessary to enter any more contests, but we caution the public against those who go around the country getting up bogus trials with old hand plows. They will not contest with sulkies of any reputation, but by manipulating the dynamometer and breaststraps, make a showing of success to which they are not entitled.

DIRECTIONS FOR WORKING THE BUFORD SULKY.

Hitch high in the clevis.

Hold the long lever free from the notches until the plow, by its own natural draft, is running *too deep*; then raise the plow to the desired depth, and lock it.

Do not force the plow into the ground with the lever, except in very hard or sticky land.

The difference between carrying the plow on the wheels, *as it should be run*, and carrying the wheels, frame and man on the plow, is about the work of one horse.

The small slotted casting on the apron, for adjusting the plow, does not affect the beam, but assists the wheels to carry the plow to or from land.

Examine the share carefully after sharpening, to see that it has the proper suck; and the wing or heel must be level with the bottom of the landside bar.

NOTE.—The Sulkies cutting 10 and 12 inches are made right-hand only. All others either right or left as desired.

THE BUFORD GANG PLOW.

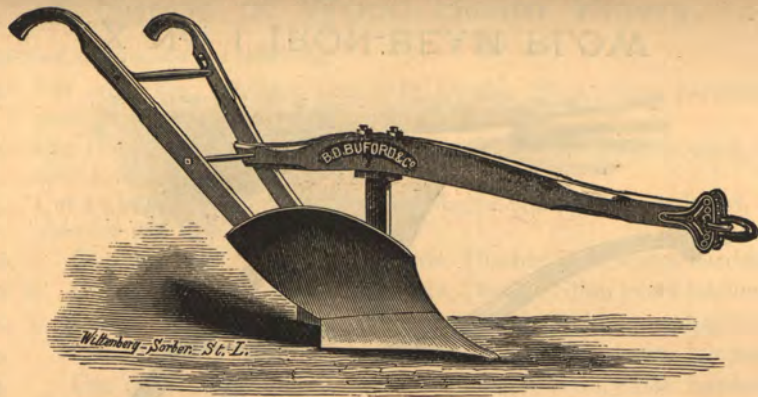
Shown on Page 5.

THE BUFORD GANG PLOW is constructed on the same principle as our Buford Sulky Plow. It is made with a wrought iron arch, with 10, 11, 12 or 14 inch bottoms, as may be desired. It is very strong in all its parts, and can be used for plowing any desired depth. It is easily handled and readily adjusted for any kind of work. It is furnished with or without circular cutters.

Our Kansas and Nebraska Breaker Attachments can be worked on this plow as well as on our Sulky Plow. The horses are hitched in pairs.

The great advantage of this Gang is on large farms where help is scarce and teams are plenty.

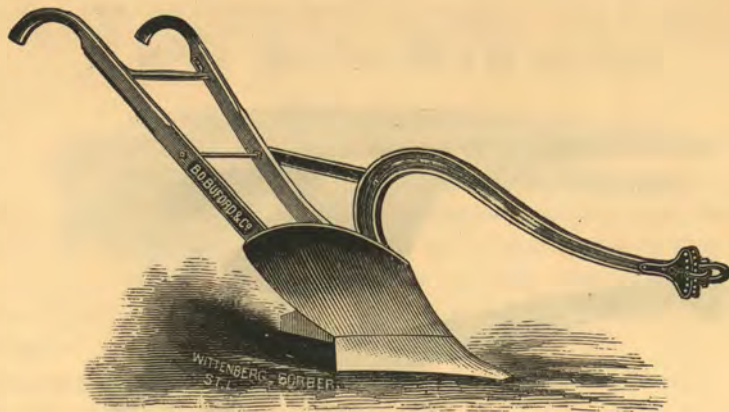
NOTE.—ALL OF OUR GANGS ARE MADE RIGHT-HAND ONLY.



X No. 1 WOOD-BEAM PLOW.

We make this style plow 15 and 16 inch cut, with Solid Bar Share, when specially ordered.

B. D. BUFORD & CO.



X No. 1 IRON-BEAM PLOW.

We make this style plow 15 and 16 inch cut, with Solid Bar Share, when specially ordered.

X Series of Wood-Beam Plows.

Of this Series we make the following:

- A X 16. Cut 16 inches, Medium Landside, Double Shin, extra hardened, adjustable for two or three horses.
- X 16. Cut 16 inches, Medium Landside, Single Shin, extra hardened, adjustable for two or three horses.
- X 15. Cut 15 inches, Medium Landside, Single Shin, extra hardened, adjustable for two or three horses.
- X No. 1. Cut 14 inches, Medium Landside, Double Shin, extra hardened.
- X No. 2. Cut 13 inches, Medium Landside, Double Shin, extra hardened.
- X No. 3. Cut 12 inches, Medium Landside, Double Shin, extra hardened.
- X 14. Cut 14 inches, Medium Landside, Single Shin, extra hardened.
- X 13. Cut 13 inches, Medium Landside, Single Shin, extra hardened.
- X 12. Cut 12 inches, Medium Landside, Single Shin, extra hardened.

These plows are made with either Iron Center or Homogeneous Steel Back Mould-Boards, and are perfectly hardened in every part. The double shinned are shinned on the face, have steel instead of cast-iron blocks, and are made in duplicate and interchangeable. The beam handles are bent in and attached to standards, leaving a clear landside. The beams are all adjustable. For strength, lightness and finish, these plows are unequalled, and we confidently recommend them to the trade as the best scouring plow in the market.

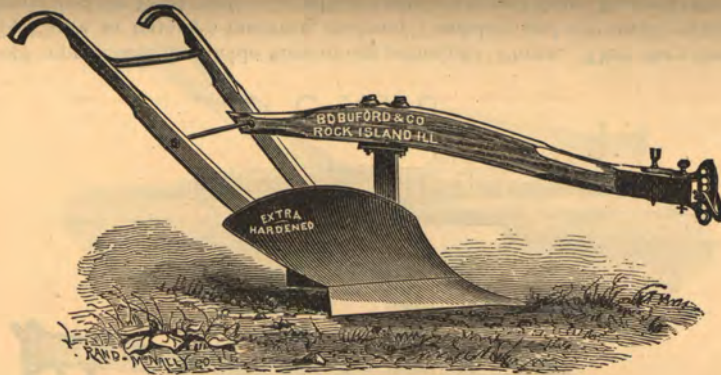
All these plows are made *right* and *left*-hand, as desired.

X Series of Steel and Iron-Beam Plows.

- A X 16. Cut 16 inches, Medium Landside, Double Shin, adjustable for two or three horses.
- X 16. Cut 16 inches, Medium Landside, Single Shin, adjustable for two or three horses.
- X No. 1. Cut 14 inches, Medium Landside, Double Shin.
- X 14. Cut 14 inches, Medium Landside, Single Shin.
- X No. 2. Cut 13 inches, Medium Landside, Double Shin.
- X 13. Cut 13 inches, Medium Landside, Single Shin.
- X No. 3. Cut 12 inches, Medium Landside, Double Shin.
- X 12. Cut 12 inches, Medium Landside, Single Shin.
- X No. 15. Cut 10 inches, Low Landside, Single Shin.
- X No. 4. Cut 14 inches, Medium Landside, Single Shin, with Fin Cutter.

These plows are *very graceful in curve of beam*, and we especially recommend them for strength, steadiness in running and ease in handling. With the exception of the beams they are duplicates of our X Series Wood-Beam Plows, explained on page 11.

These plows are made *right and left-hand*, as desired.

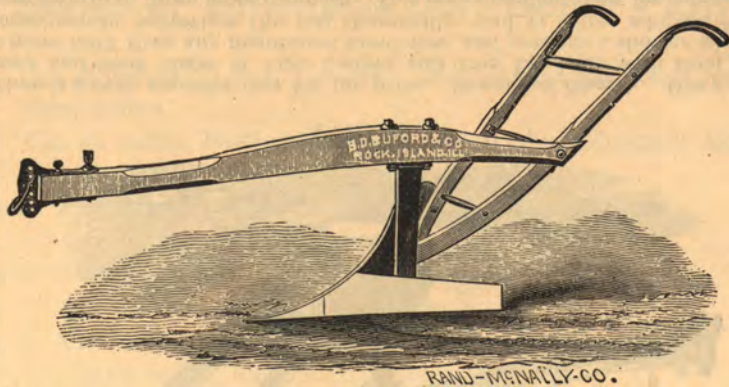


No. 6.

This plow is a very superior one for the price. *Strong and Durable.* Has a hardened Mould Board and Steel Share of high temper, and Iron Landside with steel heel. In shape it is more bluff than any mentioned heretofore, and presents a shorter angle to the furrow—consequently pulverizes the soil thoroughly—and is better adapted for use in light or loose soils than those more compact. This is an excellent plow for general use, has a large sale and is preferred by many to our highest price plow.

These plows are made *right and left-hand*, as desired.

B. D. BUFORD & CO.



C No. 6.

This cut represents a Landside view of our series of C Plows. They vary from our Nos. 6, 7 and 7½ Plows, in having a tapering, medium Landside, and are made extra heavy for the California and far West trade—for which trade we brand them **BLACKHAWK**.

These plows are made right or left-hand, as ordered.

B. D. BUFORD & CO.

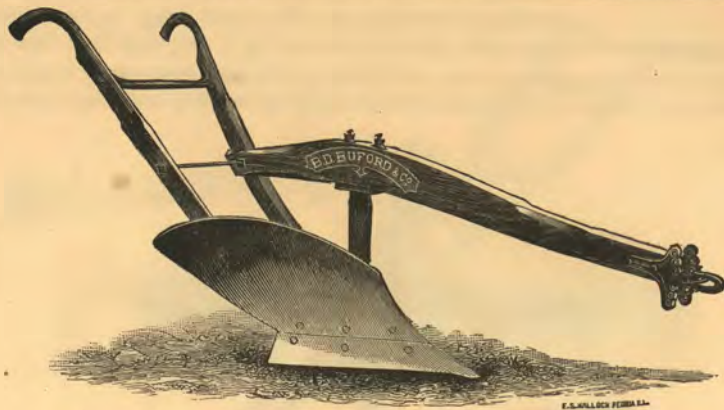


No. 7.

This plow is the same shape as No. 6, but of smaller size, only cutting 12 inches. It has a cast-steel share, a hardened steel mould-board, and iron landside with steel heel.

No. 7½ cuts 11 inches, and C No. 8 cuts 10 inches; and, with the exception of the cut, are the same as No. 7. They are all right or left-hand, as desired.

B. D. BUFORD & CO.



TURF AND STUBBLE PLOW.

We make these plows either right or left-hand and to cut 10, 12, 13, 14 and 16 inches, with Wood and Iron or Steel Beams. *Medium Landside, double shinned on the face, Slip Share, and perfectly hardened.* The mould-board is of a long, easy turn. They are especially adapted to heavy and clayey soil, and we particularly recommend them for plowing in timothy sod, the rise and turn being so gradual as to completely invert the furrow without breaking it.

B. D. BUFORD & CO.

the rise and turn being so gradual as to completely invert the furrow without breaking it.

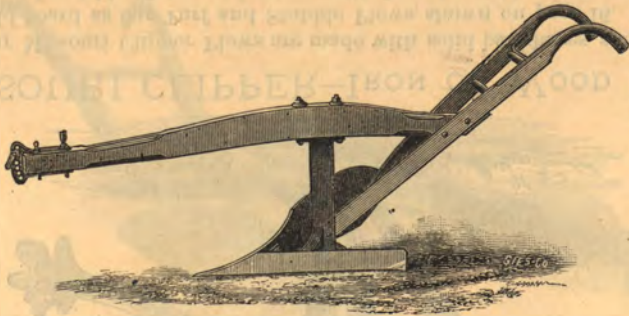
B. D. BUFORD & CO.



MISSOURI CLIPPER—IRON OR WOOD BEAM.

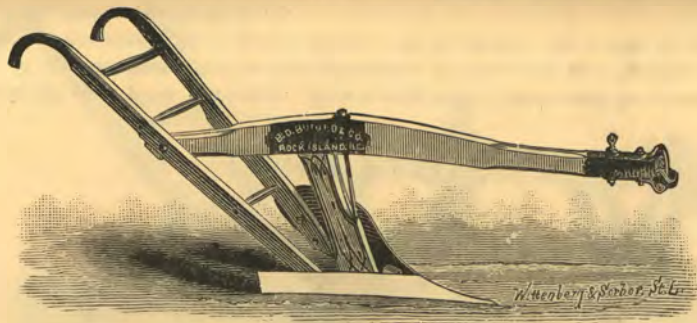
All of our Missouri Clipper Plows are made with solid bar shares, and have the same style of mould-board as our Turf and Stubble Plows, shown on page 16. Some are made with High Steel Landside Plates, and others with Iron Landsides with Steel Heel. They are made to cut 12 and 14 inches, and either right or left-hand, as desired.

B. D. BUFORD & CO.



SOLID BAR SHARE PLOW No. 61.

These plows are made with *welded* or *solid* iron landside, with steel heel and very heavy standard, with either single or double shin. The additional strength thus secured makes these plows especially desirable for rough, hard land, where there are more or less roots and grubs. We make three sizes, to cut 10, 11 and 12 inches. In shape they are similar to our No. 7 Plow, shown on page 15. These plows are made either right or left-band, as desired. We also make Nos. 6 and 7 Plows with solid shares.



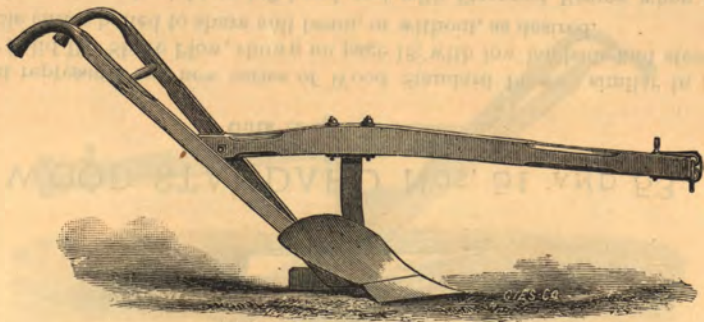
WOOD STANDARD Nos. 51 AND 53.

Cuts 11 and 12 Inches.

This cut represents our new series of Wood Standard Plows; similar in shape and style to our Solid Bar Share Plow, shown on page 18, with low landside and steel heel. It has reversible cutter bolted to share and beam, or without, as desired.

These plows are made right or left-hand, and with Strapped Beams, when wanted, at an additional cost of one dollar each.

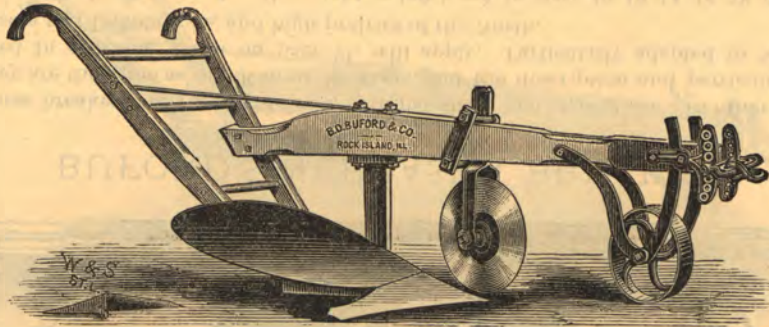
B. D. BUFORD & CO.



CORN PLOW.

A one-horse steel plow, hardened. It is a very useful implement for plowing corn the last time. It is extensively used in the cultivation of hops, and as a "garden plow." We make them in two sizes. No. 9, shown above, cuts $7\frac{1}{2}$ inches; No. 8 cuts $8\frac{1}{2}$ inches, and is the same in all other respects as No. 9.

These plows are made right-hand only, and are Solid Bar Share.

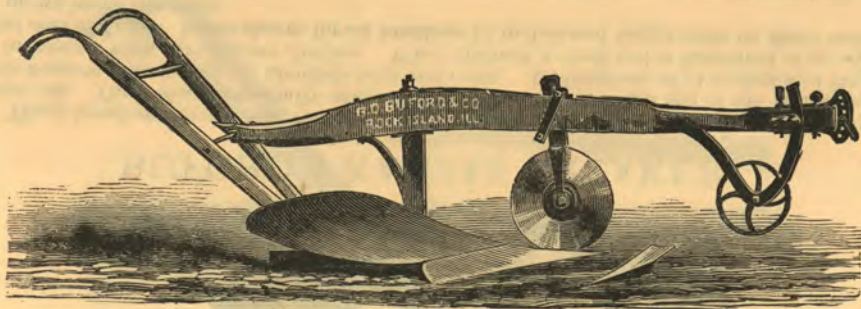


BUFORD'S KANSAS BREAKER.

These breakers have a low, flat share, in duplicate and interchangeable, with nearly a square cut. Their shape especially adapts them to the heavy, tough sod of the Kansas and Southwestern prairies, which abounds with red roots. All breakers of 14 inches and larger are furnished with three-horse clevises. When desired, a draft-rod is furnished at an additional cost of \$1.50. Extra shares for all breakers 18 inches and larger must be fitted before the plows leave the shop.

These breakers are made either right or left-hand, as ordered, in sizes 10, 12, 14, 16, 18, 20 and 22 inches, and rigged, as ordered, with or without Gauge Wheel and with Standing instead of Rolling Cutter, if wanted.

B. D. BUFORD & CO.



BUFORD'S NEBRASKA BREAKER.

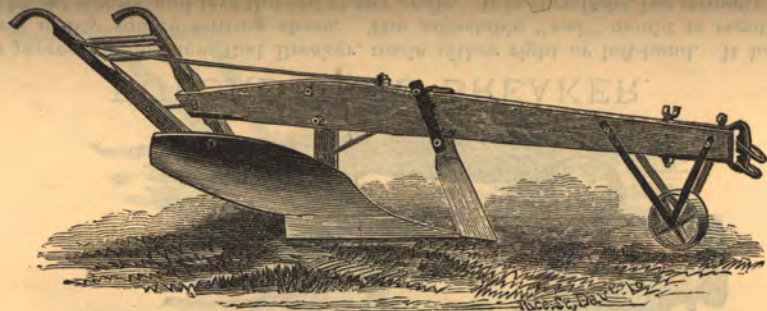
• These breakers are very light draft, with flat share and *sloping cut*. In other particulars they are the same as our Kansas Breakers, and the description and particulars to be observed in ordering, given on page 21, will apply. Particularly adapted to Nebraska, Minnesota and Dakota soils, and high prairies of the North.

These breakers are made either right or left-hand, in sizes 10, 12, 14, 16, 18, 20 and 22 inches, and rigged, as ordered, with or without Gauge Wheels and with Standing instead of Rolling Cutter, if wanted.

B. D. BUFORD & CO.

of Rolling Cutter, if wanted.

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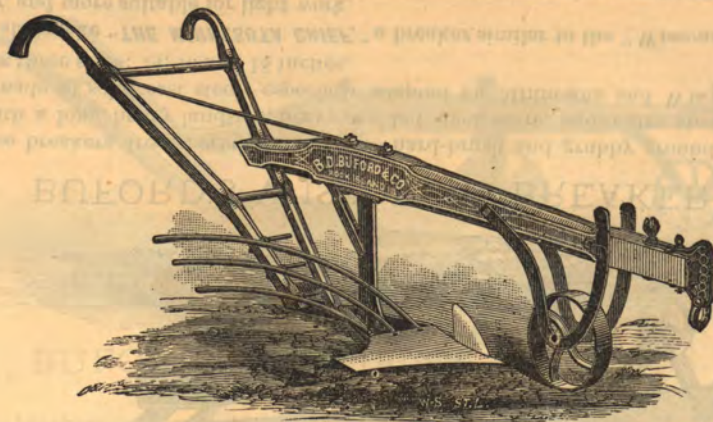
BUFORD'S WISCONSIN BREAKER.

These breakers are especially adapted to hard-brush and grubby ground. They are made with a long, heavy landside, heavy welded steel share, and extra strong standing coulter made of solid cast steel—especially adapted for Minnesota and Wisconsin trade. We make three sizes: 14, 16 and 18 inches.

We also make "*THE MINNESOTA CHIEF*," a breaker similar to the "Wisconsin," but not so heavy, and more suitable for light work.

NOTE.—When extra shares are wanted for above breakers, it must be so stated in order, as they must be fitted before leaving the shop. All of these breakers are made right-hand only.

B. D. BUFORD & CO.



BUFORD'S ROD BREAKER.

This represents our new Rod Breaker, made either right or left-hand. It has a fin cutter and nearly square cutting share. The adjustable "rod" mould is regulated at pleasure by set screws, and lays the sod at any angle. It is very light, but strongly braced. The advantages of this breaker are its light draft and the ease with which it runs, there being very little friction on the rods.

The advantages of this breaker are its light draft and the ease with which it runs, there being very little friction on the rods.

B. D. BUFORD & CO.



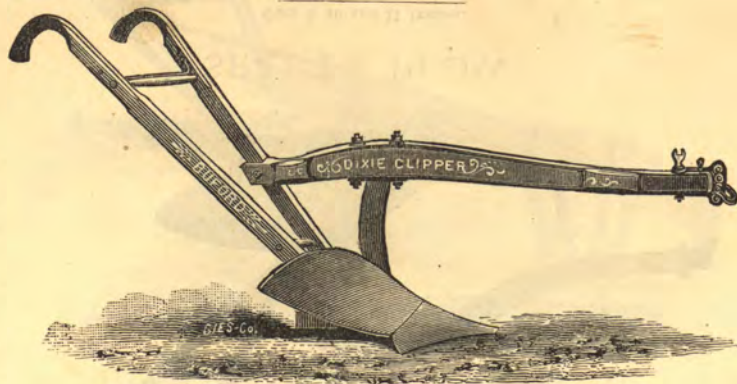
SPARTA PLOW.

Cuts 9, 10 and 11 Inches.

These plows are made with mould-board suited for turf or stubble. They have a sloping cut and are well adapted to tough, clayey land or heavy, alluvial soil. They are made with iron handles and gracefully-curved iron beam, and either right or left-hand.

B. D. BUFORD & CO.

TEXAS SERIES.



DIXIE CLIPPER.

This cut represents our "Dixie Clipper Series," recommended for sandy or clayey soils. We make these in sizes to cut 7, 8, 9 and 10 inches—the 10 inch with Steel Beam. These plows are made right-hand only. *For description see page 29.*

TEXAS SERIES.



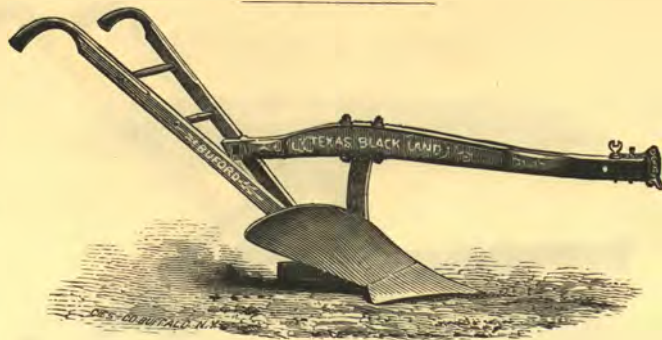
BUFORD PONY.

Cuts 7 Inches.

This cut represents our Buford Pony—"Dixie Clipper Series"—a one-horse plow. These plows are made right-hand only. *For description see page 29.*

B. D. BUFORD & CO.

TEXAS SERIES.



BLACK-LAND PLOW.

This cut represents our "Black-Land Series,"—particularly recommended for the waxy, sticky lands of Texas and the South. We make these in sizes to cut 7, 8, 9, 10 and 12 inches—the 10 inch with Steel Beam.

These plows are made right-hand only. *For description see page 29.*

B. D. BUFORD & CO.

TEXAS SERIES.

Shown on Pages 26, 27 and 28.

Long experience has taught us the shape of Plows that is best adapted to the Texas and Southwestern trade.

The "*DIXIE CLIPPER SERIES*," shown on page 26, is designed for loamy land and those soils that are partly mixed with sand and clay. They have an easy curve and perfectly turn the soil. The "Buford Pony," a smaller plow, same shape, belongs to this series.

Our "*TEXAS BLACK-LAND SERIES*," shown on page 28, is especially adapted for the waxy, sticky, black lands that abound in Texas and other parts of the South. This series of plows has long, sloping moulds, which show very little turn, and appear as if almost straight. They will scour in black land, where ordinary plows will clog up in going a few yards.

Both of our series of Texas Plows are made in sizes to cut from 7 to 12 inches. They have interchangeable extra shares and hardened mould-boards. They have long beams, are wooded high, and are strong and serviceable. These plows are made right-hand only.

B. D. BUFORD & CO.

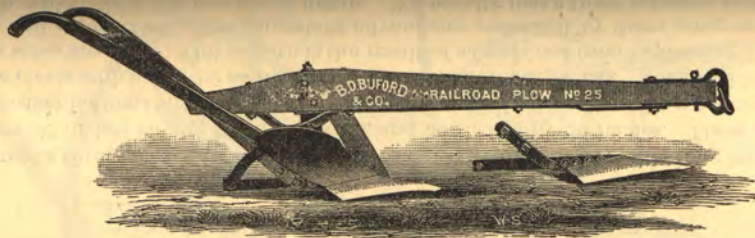


BUFORD'S RAILROAD PLOW No. 35.

Cuts 10 Inches.

This plow has a strong beam strapped with iron, is furnished with heavy coulter fastened to the landside and beam. Extra shares and landsides are furnished with each plow.

They are made right-hand only.



BUFORD'S RAILROAD PLOW No. 25 OR 30.

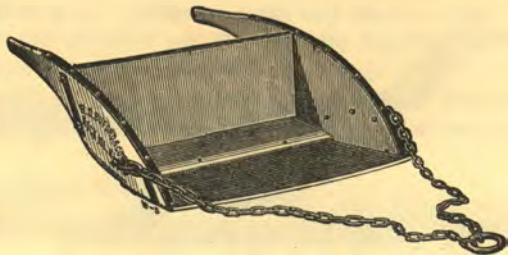
Cuts 10 Inches.

This plow has a longer beam and is heavier than No. 35, shown on page 30. The beam and handles are strapped with heavy iron. The landside is long and heavy. It is very strong, and suitable for work in hard pan and heavy soils.

We also make a heavier plow, No. 40, with solid wrought iron handles, to meet the requirements for special work. These plows are only made to order.

The above plows are made of extra thick cast steel.

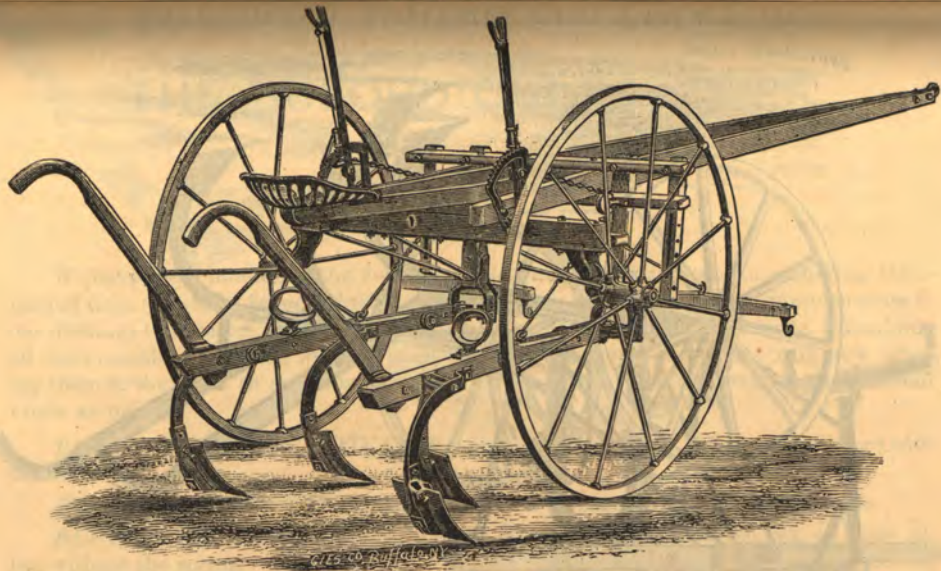
- Both styles are made right-hand only.



BUFORD'S ROAD SCRAPER.

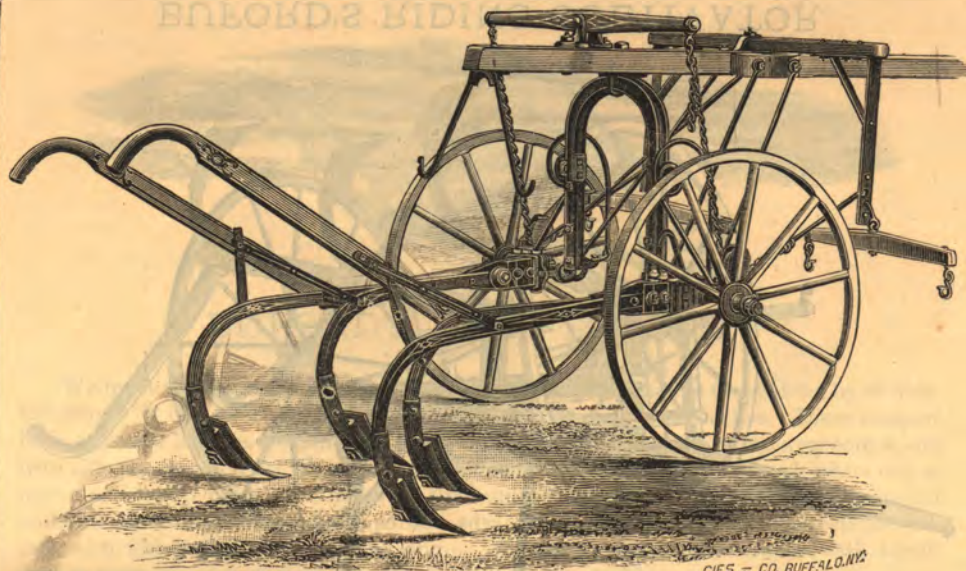
We make three sizes of Road Scrapers, the largest with blade 34 inches long by 32 wide, the others 32 inches cut by 28 inches wide, and 30 inches by 26 inches. These scrapers have cast-steel bottoms and strong chain bail, made extra heavy where the wear comes, and with side clevis which can be adjusted to regulate the depth of cut. Tough white oak or rock elm sides are used. The pattern is the result of suggestions from experienced railroad builders and contractors. The important advantages possessed by these scrapers are the ease with which they fill, carry and dump. We usually make these scrapers with 4-inch flare to sides and $4\frac{1}{2}$ -inch flare to backs, $11\frac{1}{2}$ inches deep inside.

NOTE.—We are now preparing to make our Patent Scraper, which will be made entirely of steel



BUFORD'S RIDING CULTIVATOR.

Used as Riding or Walking Cultivator.



GIES - CO. BUFFALO, N.Y.

BUFORD'S SPRING CULTIVATOR.

THE BUFORD CULTIVATORS.

Shown on Pages 33 and 34.

We have spent months in the field in practical experimenting, and in gathering information from successful farmers during the past season, in order to make improvements in our different Cultivators, such as will fully meet the requirements of the trade. Retaining all their excellent qualities, we have made such improvements as warrant us in now offering them to the trade as superior to any in the market. The following are the different kinds we make:

BUFORD'S RIDING CULTIVATOR.—Shown on page 33, a riding or walking Cultivator.

BUFORD'S SPRING CULTIVATOR.—Shown on page 34, a walking Cultivator.

BUFORD'S DEFIANCE CULTIVATOR.—Similar to Cultivator shown on page 34, but without the spring.

BUFORD'S BLACK-HAWK CULTIVATOR.—Similar to Cultivator shown on page 34, with split or open tongue.

32
B. D. BUFORD & CO.

All of our Cultivators are furnished with *The Dryden Patent Twisted Shovels*. (We now have the exclusive control of this patent.) These shovels, under our process of hardening, will scour in any soil, and by their peculiar shape—shown on page 50—will enable the Cultivator beams to run in a straight line, whether the shovels are set to throw earth to or from the corn. They are so attached to the shank that they will always do good work, even in the hands of the most inexperienced workman.

On all our Cultivators, both riding and walking, we now use our *New Improved Coupling*, shown on page 50. These couplings are made of malleable iron, and so constructed with *chilled boxes*, and are so attached to the beams, that all the wearing parts can be taken up—thus always giving a snug coupling, without any wobbling as in couplings of other manufacturers; and by raising or lowering the coupling in the beam, the pitch of the shovels can be regulated. This coupling always has a perfectly free lateral and vertical movement, which is very essential.

BUFORD'S RIDING CULTIVATOR, shown on page 33, is made with split tongue, iron or wood frames, as desired, light iron wheels with wooden fellows, and with wooden wheels and *break-pin* attachments. The draft-rods rest on friction rollers, and the Cultivator can be converted into either a riding or walking Cultivator by placing these rods above or under the rollers, and by changing these rollers the draft-rods can be raised or lowered.

We use on all of these Cultivators our New Compound Lever, which acts on the principle of an eccentric, giving the greatest power when the shovels are in the ground, and requires only half the travel of all other levers now in use. The *New Jockey Stick* which we use, is attached as high as the axle, is rigid between beams, and has a free lateral and vertical movement.

We have spent a great deal of time in perfecting this new Cultivator, and claim that, in strength, symmetry and working qualities, it has no equal.

BUFORD'S SPRING CULTIVATOR, shown on page 34, is a walking Cultivator, has the same shovels and style of coupling as the riding Cultivator. The great advantages of this Cultivator over all others are :

First.—The arch is now made of *double-beaded steel*, giving the Cultivator much greater strength.

Second.—While plowing, the springs do not have a tendency to lift the shovels out of the ground.

Third.—The tension or power of *our* springs remains uniform, whatever height the beams are lifted out of the ground. The objections to other Cultivators are, that in some the springs do not operate until the beams are raised some distance, while in others the tension is lost when raised a certain height.

Fourth.—By changing the clamp on the arch, tension of spring can be increased or diminished, as desired.

Fifth. —With tension of spring properly regulated, *beams can be raised by a thread.*

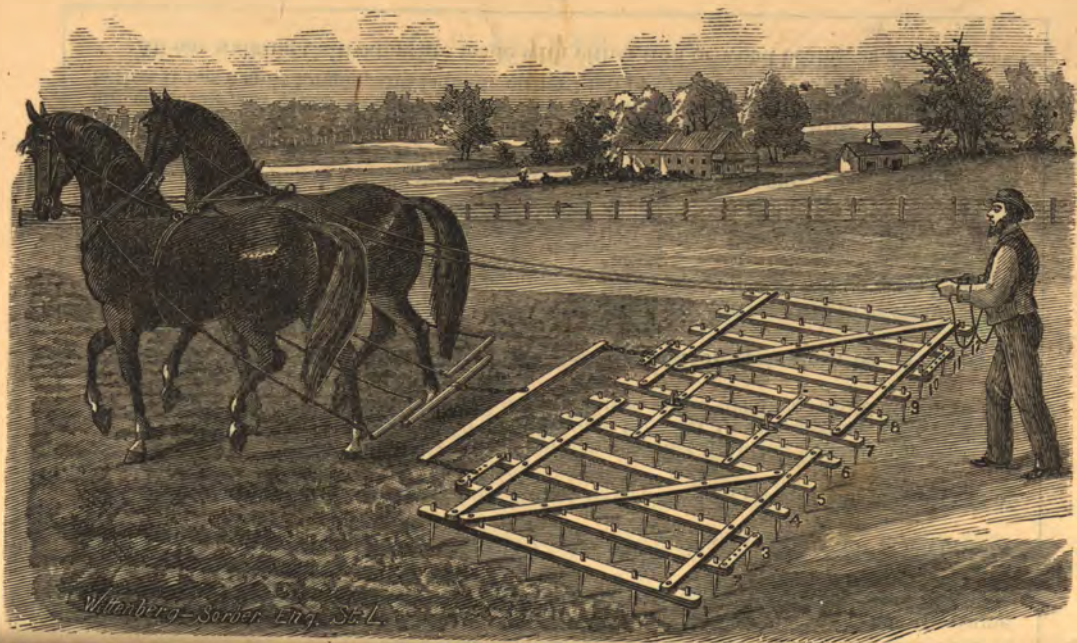
Sixth.—By means of holes in our coupling, width between beams can be varied twelve inches.

Seventh.—We have the only Evener whose hitch is in a line with the axle, avoiding tongue pressure, and at the same time is a perfect equalizer

BUFORD'S DEFIANCE CULTIVATOR is the same in all its parts as our "Spring Cultivator," shown on page 34, except the spring is not used.

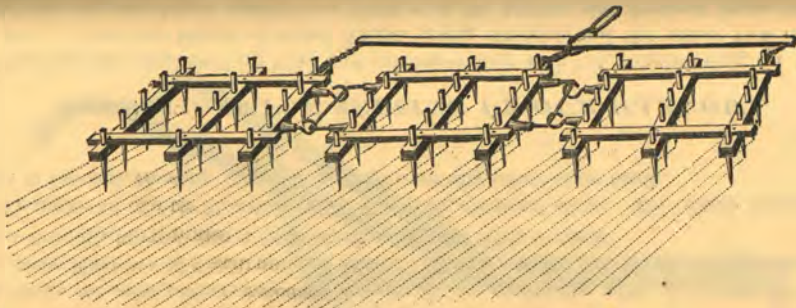
BUFORD'S BLACK-HAWK CULTIVATOR.—This Cultivator is furnished with the same shovels, coupling and attachments as our Defiance Cultivator, and the only essential difference is that it has a split tongue, and is made either high or low hitch.

All our walking Cultivators are made with either iron or wood beams, as desired.

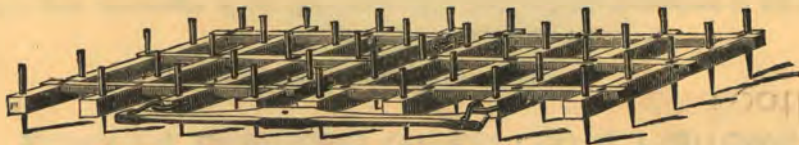


RUFORD'S 22 TOOTH HARROW

R. D. RUFORD & CO.



BUFORD'S THREE-SECTION HARROW—45 TEETH.



SCOTCH HARROW—40 TEETH.

Buford's Diamond Steel-Tooth Harrows.

Shown on Pages 38 and 39.

The great advantages of our Harrows are that they conform themselves to the uneven surfaces of the ground, each section sliding backward as it meets an obstruction, and forward as it is released, so that they do not become clogged or choked in foul ground; the teeth are sharpened from the rear, presenting a flat, smooth surface, and when drawn backward, make *the most perfect smoothing harrow in use*, especially with our larger sizes. We make these Harrows of 60, 72 and 108 teeth. We also make two styles of Vibrating Harrows, a 40-tooth harrow and a three-section harrow with 45 teeth.

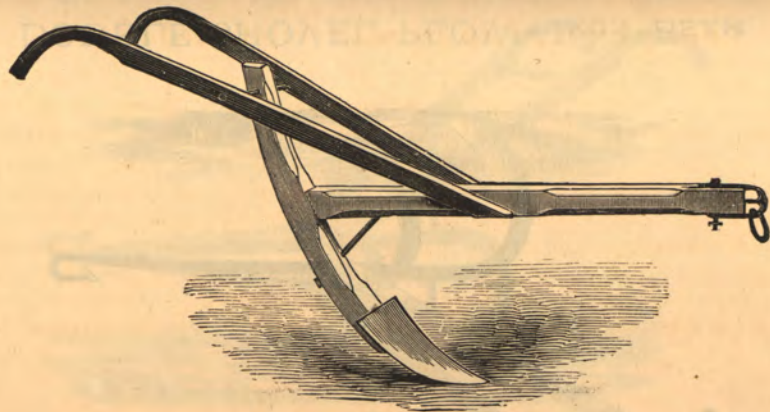
We make all of our Harrows with *steel teeth, diamond shape*. The sharp edge is presented to the soil, thereby *lessening the draft* over any other style tooth.

DIRECTIONS FOR SETTING UP OUR HARROWS.

The bars are numbered on hind end corresponding with cut, commencing on left side with No. 1. The four braces of equal length going straight, and the other two diagonal. Should the diagonal brace appear too short, *rack the harrow into diamond shape* until the brace fits its place as shown in descriptive cut.

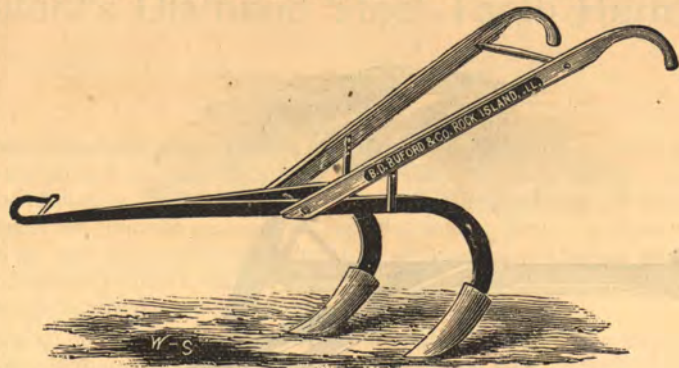
should the diagonal brace appear too short, rack the narrow into diamond shape until the brace fits its place as shown in descriptive cut.

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SINGLE SHOVEL PLOW.

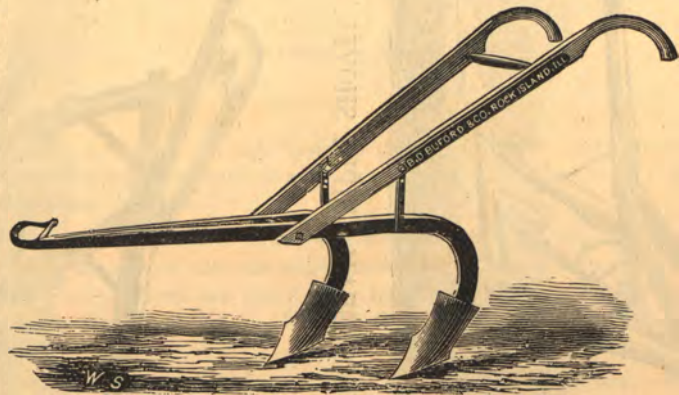
B. D. BUFORD & CO.



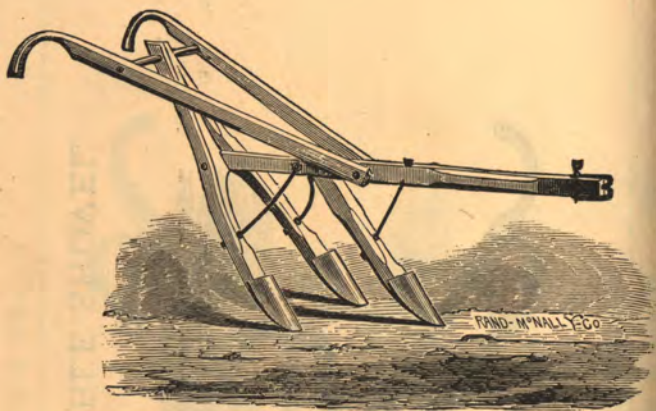
DOUBLE SHOVEL PLOW—IRON BEAM.

MALTA STYLE.

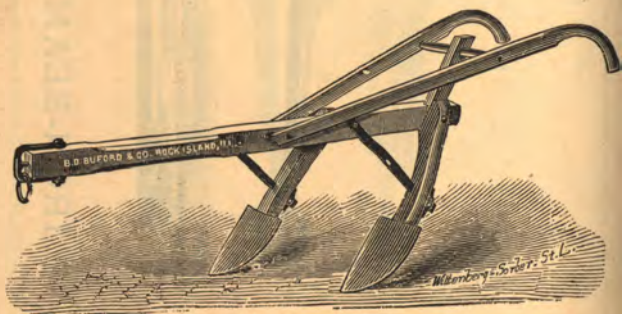
B. D. BUFORD & CO.



IRON-BEAM DOUBLE SHOVEL.



WOOD-BEAM TRIPLE SHOVEL.



WOOD-BEAM DOUBLE SHOVEL.

SHOVEL PLOWS.

Shown on Pages 41, 42, 43 and 44.

We make several styles of Shovel Plows for use where Wheel Cultivators are not practical, on account of rough or uneven ground, or for those who do not wish to go to the expense of a Two-horse Cultivator.

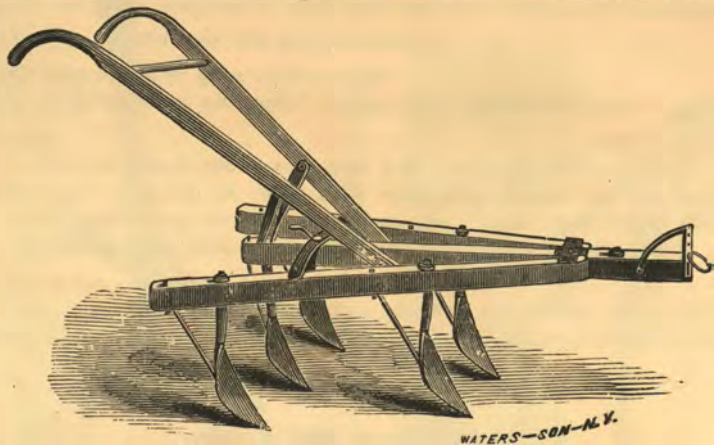
IN IRON BEAMS we make three styles—one with Diamond Shovels, one with Oval Shovels, which we call Malta style, and one with Break Pin. These are a strong, heavy shovel. Our Iron-Beam Shovel Plows are made with additional strength in the curve, and are preferred by many farmers to our wood beams, from the belief that they are less liable to choke in rubbish.

IN WOOD BEAMS we make the Single, Double and Triple Shovel Plow. We also make a Wood-Beam Double Shovel Plow with iron legs.

All our shovels are cast steel and well hardened.

NOTE.—We can use on the Double Shovel Plows either diamond or oval shovels, and on the Malta either oval or egg-shaped shovels.

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WATERS-SON-N.Y.

REVERSIBLE FIVE-TOOTH ADJUSTABLE CULTIVATOR.

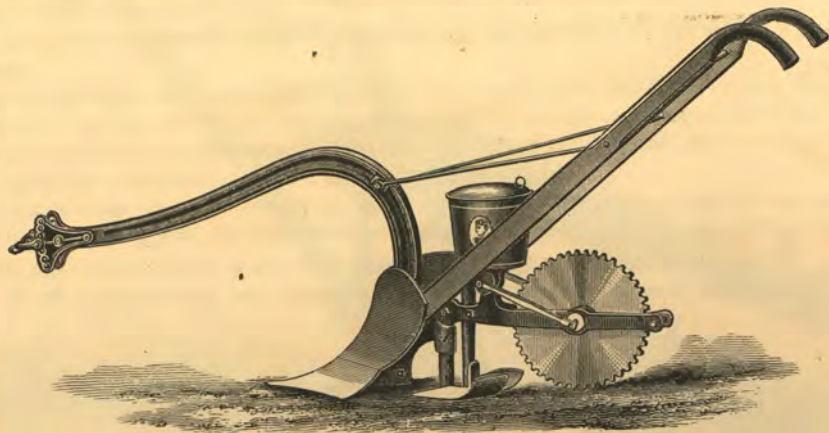
Much used in nurseries and for dressing out small corn and other crops. It is so constructed as to be expanded or contracted, according to width between rows, working as near the growing plant as may be desired, exterminating grass and weeds as effectually as a hand hoe. The teeth are diamond-shaped, and will scour in any soil.

Reversible Nine-tooth Cultivator made on same principle as the Five-tooth. Much used for putting in small grain; by taking off the two pair of outside teeth, it answers the same purpose as the Five-tooth Cultivator.

B. D. BUFORD & CO

grain; by taking off the two pair of outside teeth, it answers the same purpose as the Five-tooth Cultivator.

B. D. BUFORD & CO



BUFORD'S COMBINED DRILL AND LISTER.

Buford's Combined Drill and Lister.

Shown on Page 47.

In our *Combined Drill and Lister*, the drill is attached to the heel of the beam, and the wheel runs in the furrow, so that it is impossible to clog with weeds or rubbish.

THE DROP is simple in construction, and easily operated. It has no gearing to get out of order or wear out. The superiority of this drill over all others, is that it *will not drop seed* when run backward in turning around at the end of the row.

THE SUB-SOILER is adjustable, so that the corn can be covered one, two or three inches, as desired. It also leaves loose earth in the bottom of the furrow for the corn to fall upon, while all the soil it picks up is deposited upon the corn, which the wheel in turn properly presses.

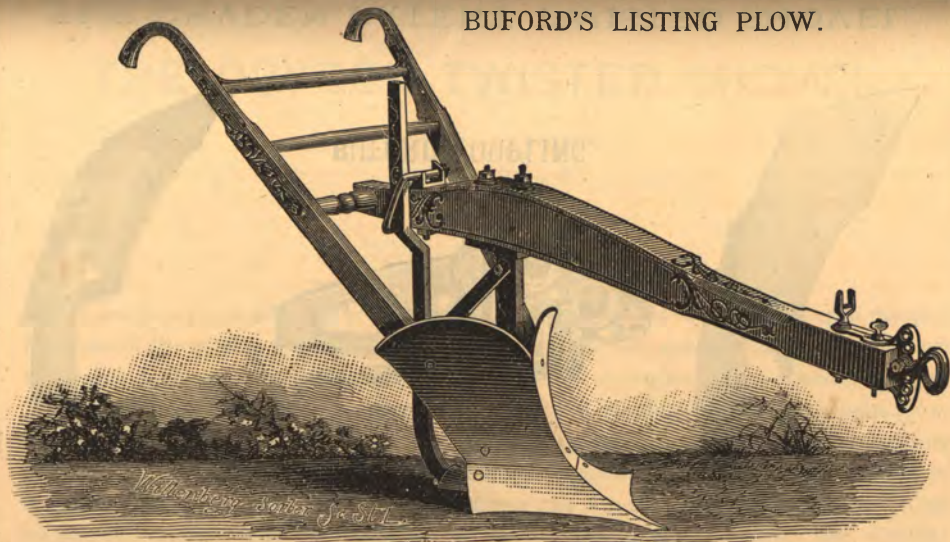
THE DROPPING SPOUT is short and straight, and the hopper is set low, which allows the corn to drop *freely and regularly*.

We claim this to be the best Drill and Lister combined now in use. It will do more and better work in any kind or condition of ground than any other drill now made, and *is the only one that will work successfully*.

is the only one that will work successfully.

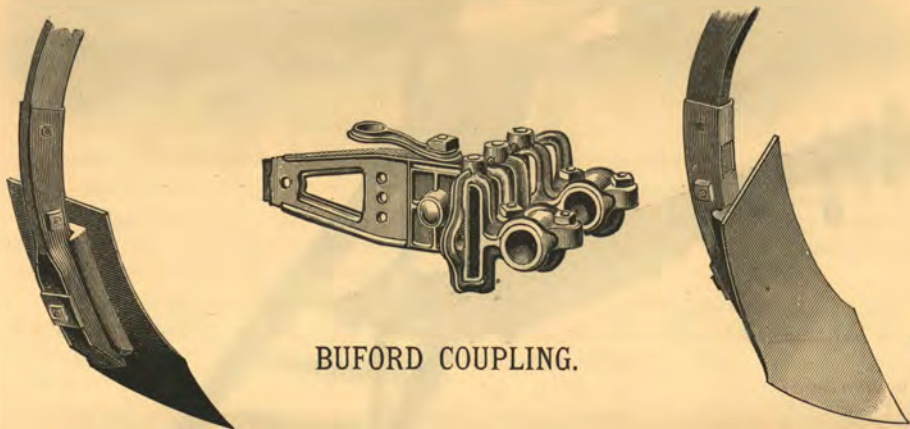
B. D. BUFORD & CO.

BUFORD'S LISTING PLOW.



These Listers are made in two sizes, to cut 14 and 16 inches. They are furnished with wood or iron beam, as desired. The sub-soiler is attached to the beam by a clamp, which allows it to be raised or lowered to plow the desired depth.

B. D. BUFORD & CO.



BUFORD COUPLING.

THE DRYDEN PATENT TWISTED SHOVEL.

B. D. BUFORD & CO.

THE DRYDEN TWISTED SHOVEL.

Shown on Page 50.

These Shovels, in addition to the usual vertical curve, have a *transverse* curve running from one of the cutting edges of the shovel diagonally across, towards the top of the shovel where it is highest. This cutting edge is curved, while the opposite edge is nearly straight. This curve gives the shovel the form and effect of a Mould-Board of a common plow. When set to throw earth either to or from the corn, this greater curve in one of the cutting edges of the shovels acts as a counter-resistant to the tendency of the shovels to crowd in the direction of this curve, and really performs the function of a Mould-Board. This counter-resistance enables the two gangs of the Cultivator to run in a direct line, whether the shovels are set to throw the soil to or from the plant. Twisted shovels not made with

this transverse curve, when set to throw earth towards the plant, crowd the beams in the opposite direction, and *vice versa* when throwing earth from the plant, necessitating the use of Jockey Sticks, connecting the gangs on all walking Cultivators.

For years almost all manufacturers used these Jockey Sticks, but *by infringing the Dryden patent* by copying these shovels, even in a modified form, they have been able to dispense with these Jockey Stick connections. We shall use all four of our twisted shovels, in their perfected form, on all of our Cultivators, thus insuring uniform furrows; we can also promise our friends that, in future, they will have no more trouble about shovels not scouring.

The attachments are so made that the shovels can be raised or lowered to cultivate any desired depth, and cannot be put on wrong, or so as not to work properly.

We have the exclusive control of this patent, and are now proceeding to protect our rights under it, and shall collect royalty for all past infringements. We also propose to prevent others from making these shovels.

NOTE.—In ordering extra shovels for any of our Cultivators, dealers and others should specify the kind of shovel wanted, whether straight or twisted, right or left, and when the Cultivator was purchased.

Figure 1.

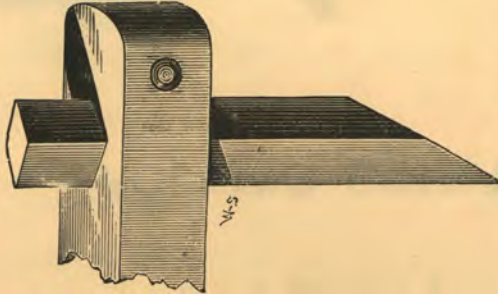


Figure 2.



SLIP SHARES.

These cuts are inserted to save farmers and blacksmiths much of their usual trouble in re-setting shares which have been sharpened. Never take the landside from the share in sharpening, as shown in Fig. No. 1, but leave the whole share, landside and their braces, together, as in Fig. No. 2, and the plow will set and run as well as a new one.

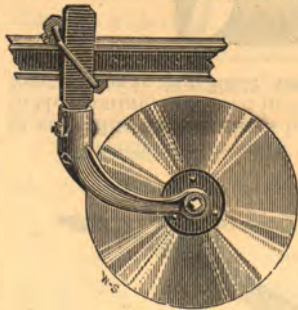


Diamond
STEEL TOOTH

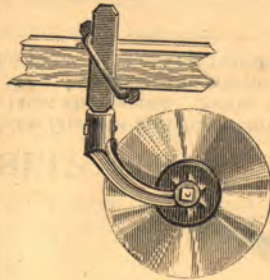
FOR HARROWS,

Shown on pages 38 and 39.

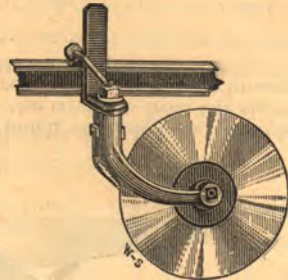
ROLLING COULTERS.



No. 1.—16-inch Castor Coulter for Sulky Plow, with Pat. Cone Hub.

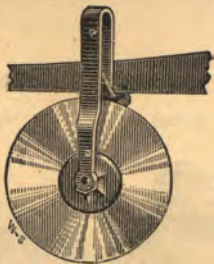


No. 2.—13-inch Castor Coulter for Wood-Beam Plow, with Heavy Malleable Yoke, Wrought Standard and Pat. Screw Hub.



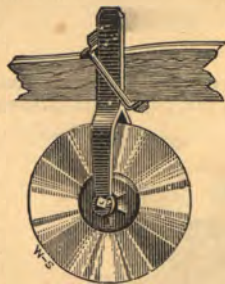
No. 3.—13-inch Castor Coulter for Iron-Beam Plow, with Heavy Malleable Yoke, Malleable Offset Standard and Patent Screw Hub.

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No. 4.

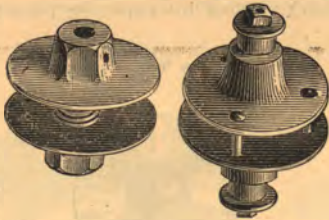
13-inch Loop Coulter with Wrought Yoke and
Patent Screw Hub.



No. 5.

13-inch Stationary Coulter, with Wrought Yoke
and Patent Screw Hub.

B. D. BUFORD & CO.



No. 7.

Pat. Screw Hub.

No. 8.

Pat. Cone Hub.



No. 10.

13-inch Castor Coulter, with Light Malleable Yoke,
Malleable Standard and Patent Screw Hub.

NOTE.

We can furnish Nos. 2, 3, 4 and 5 with Patent Cone Hub, at an additional cost of 25 cents each.

B. D. BUFORD & CO.
MANUFACTURERS OF

PLOWS,



CULTIVATORS

& C.

ROCK ISLAND, ILL.