

HIGGANUM TOOLS

— FOR THE —

MARKET GARDENER AND FARMER:

Cultivators, Horse Hoes, Onion
Hoe and Harrow.

Do not fail to examine these tools.

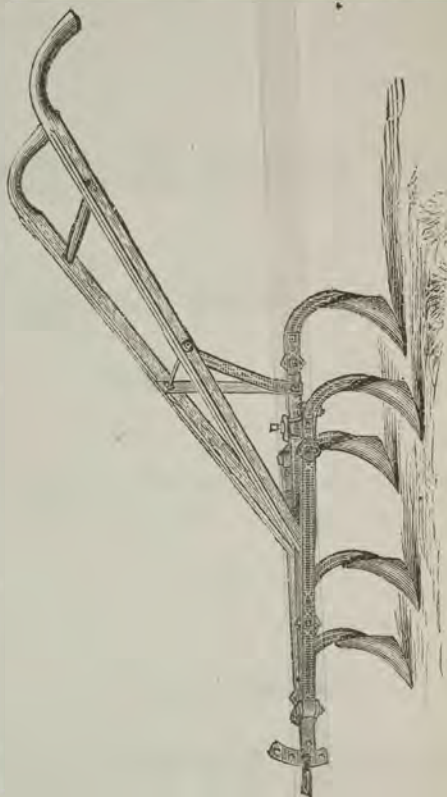


Manufactured for

FRED. ATWOOD,

Winterport, Maine, U. S. A.

THE HIGGANUM IRON FRAME CULTIVATOR.



The lightest and strongest Cultivator built, and is the most perfect and complete tool in the market.

Legs can be set at any angle. All legs adjustable.

Made with a light wrought-iron frame, which is adjustable. The teeth are made from the best cast steel, and can be set to enter the ground at different angles.

The handles also can be adjusted to the height of the user.

Teeth are all reversible.

The Cultivator is made either plain or with wheel.

Price, plain,	.	.	.	\$7.50.
" with wheel,	.	.	.	9.00.

The Higganum Horse Hoe.



This Horse Hoe is made after the pattern of the Higganum Cultivator, and is far superior to the other pattern of Horse Hoe, as its adjustments are far superior to any in market. The side hoes or

flats are reversible, thus giving double wear, and the standards have adjustments that allow more or less hilling, and also regulate the depth as desired. The adjustability of this tool is a most important feature, as it adapts it to all kinds of soil and crops.

The beam can be contracted or expanded from 9 to 36 inches.

Side Hoes adjustable to any angle.

Do not fail to examine the tool.

Price, \$12.00.

Sherwood Patent Wheel Hoe.

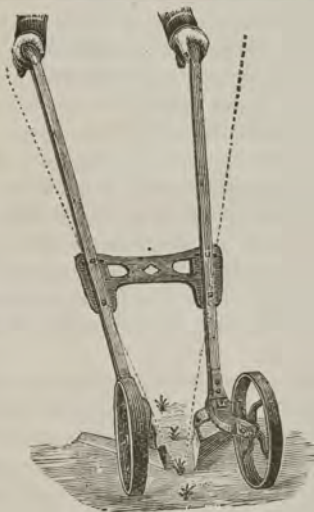


This tool originated in the town of Westport, where the raising of onions on so large a scale made it a necessity, and after years of hard labor this hoe was produced, and is in reality the only perfect tool for the weeding of onions and small crops. It has the sanction and approval of all the largest growers of onions and garden truck, and no farmer or gardener can afford to be without at least a half dozen on his place. It is made with side fenders which protect the growing crop, and is adjustable to any width of hoe. It is made of the very best material—malleable iron and steel—and there is no tool in the market that can compare with it. It is painted neatly and fancy striped. Packed in crates ready for shipping.

Price, \$6.00.

THE "PRACTICAL" HAND CULTIVATOR,

For Gardeners and Farmers.



A New Principle in Hand Cultivators.

By the application of this principle, hilled or drilled crops are cultivated rapidly and in the most perfect manner. It is light, simple, strong and durable—the best Hand Cultivator ever made. The new principle in this implement enables the operator to give the hoes or teeth a *side* as well as *forward* motion, changing the distance between the hoes or teeth while operating the Cultivator, which

permits of hoeing drilled as well as hilled crops rapidly and perfectly. The side motion is communicated to the hoes by moving the handles side wise, the bolts holding the handles to the plate passing through slotted holes in the plate.

It is very desirable, as all know, to lessen the amount of hand-weeding as much as possible—keeping the hoes close to the plants, according as they may be more or less scattered in the row. Cutting into the row where there are skips destroys all the weeds not mingled with the plants. In this way enough labor is saved to pay for a cultivator every day it is used. Crops planted in hills are hoed rapidly and perfectly by closing the hoes and cutting up to the hill, opening the hoes enough to pass around the hill, closing them again, and so on. This is the only Hand Cultivator now made that will hoe hilled crops in a perfectly satisfactory manner.

It is well known that to cultivate any crop in its first stages of growth, is a great help towards insuring a full, paying crop. All kinds of garden crops, and field crops such as amber-cane, beans, beets, corn, &c., can be hoed with this implement as soon as the plants are up—one man doing with it the work of *five men* with hoes. The weeds are destroyed before they injure the crop; and the soil is loosened, letting in warmth and moisture. The time to *destroy weeds and make crops grow* is while they are small. This Cultivator will do this work in a perfectly satisfactory manner. Its work is not confined to the garden alone.

The hoes may be made stationary in any desired position, by tightening all the bolts which hold the

handles to the plates. The handles may be adjusted to suit a man or boy, by loosening the bolts at the ends of the handles, and inserting a wedge of such thickness as will bring the handles to the required height. To change the pitch of the hoes, loosen the shank bolts, placing one side of wire loop between the rear shoulder of the shank and arm, and the other end in front of the shank. The hoes may be changed from one arm to the other, to cultivate between rows.

This Cultivator is made wholly of iron, except the handles, which are of selected oak. The blades are made of the best steel—tempered, polished and ground. All of the parts are securely bolted together. Although they weigh only eighteen pounds, we have yet to hear of one being broken while in use. They will work to a depth of five inches if desired. Two sizes of hoes are made—with six or eight inch cut.

Price, packed and delivered for shipment, .	\$5.00
Extra blades (each,)	.25

The usual discount to the trade.

DIRECTIONS FOR USING.

To cultivate drilled crops with movable hoes, loosen all the bolts which hold the handles to the plate, and adjust the handles so as to have the hoes level and in about the position where they will be worked, then tighten the bolts in either handle, leaving only one handle loose. When it is not desired to use the movable hoes, adjust as before, and tighten all the bolts in the handles and plate. To hoe hilled crops: bring the hoes together, and so that they are level, then fasten either handle, and

by leaving the hoes together, and cutting up to the hill, opening them sufficient to pass around and by the hill closing them again and drawing them back to the hill, you will have done what no other hand cultivator is capable of doing.

TESTIMONIALS.

A few of many testimonials will show how this implement is valued by farmers and gardeners:

NEWARK, N. Y., Oct. 17, 1882.

I have used quite extensively, the past season, two of your Hand-Cultivators, and I have no hesitancy in pronouncing it the very best I have ever used.

Yours truly, E. K. BURNHAM.

NEWARK, Oct. 23, 1882.

I take pleasure in saying that your Hand Cultivator is a most excellent tool. Its simplicity, durability, cheapness and efficiency, commends it to all having use for this kind of implement.

Respectfully S. S. PIERSON.

PALMYRA, N. Y., Jan. 11, 1883.

I am well satisfied with the Cultivator. It is all that you claim for it.

Yours, &c., WM. R. JOHNSON.

LOCK BERLIN, N. Y., Oct. 21, 1882.

Your Hand-Cultivator is what every one must have who grows small crops. Only let it be known that such a labor-saving tool can be had at such small cost, and you will have no difficulty in selling them.

Yours respectfully, G. R. BURKILL.

NEWARK, N. Y., Oct. 19, 1882.

Having used your Hand-Cultivator in most all kinds of hilled and drilled crops the past season. I must admit that there is no other Cultivator equal to it.

Yours, &c., H. R. NICHOLS.

LYONS, N. Y., Nov. 13, 1882.

The Hand-Cultivator I bought of you last season, excels all other Hand-Cultivators of which I have any knowledge.

Respectfully yours, C. T. BRADLEY.

NEWARK, N. Y., Nov. 15, 1882.

After one season's trial, I am convinced that your Hand-Cultivator is *worth two* of any other Hand-Cultivator that I know of. All my men say they can do twice the work, and do it better than they can with other Hand-Cultivators.

Yours, &c., L. J. BRYANT,
Market Gardener.

WILLIAMSON, N. Y., Oct. 25, 1882.

Your Hand-Cultivator gives the best satisfaction of any implement of its kind ever used in this section. Will pay for itself every day it is used.

Yours truly, R. D. MILHAM.

HERE WE HAVE IT.

A LONG NEEDED TOOL AT LAST MADE.
PERFECTION OF PERFECTION. IT TELLS ITS OWN STORY. READ



THE MEEKER HARROW.

The Meeker Disk Smoothing Harrow. No Market Gardener or Farmer can afford to be without this tool.

C. A. Meeker's Patent Smoothing Harrow.

The frame is square, 6 ft. 8 in. by 6 ft. 1 in., with four sets of rollers, having 58 disks, 8 in. in diameter on them.

On the two forward rollers the disks are 6 inches apart, and on the two rear rollers 3 inches apart. The disks on each set of rollers work between each other.

The board in the centre is set at an angle, is adjusted up and down, and acts as a leveler.

The disks grind all lumps so fine that seed must come up, and mashes small stones below the surface better than any field roller; it levels the ground at the same time, which a field roller does not do.

Price, with Iron Disks,	.	.	.	\$25.00
" " Steel "	.	.	.	30.00

TESTIMONIALS AND REFERENCES.

From PETER HENDERSON, Florist and Seedsman.

NEW YORK, June 9, 1882.

GENTS: I have this season, for the first time, used Meeker's Smoothing Harrow, and believe if I had had it in use in the past twenty years on my twenty acres of heavy, clayey soil, the benefit derived from its use would have saved me not less than \$500 a year. I use my land mainly in growing the finer classes of small flowering plants and seeds, and consequently have had to rake every foot of it so as to get the surface level and smooth, and this, on a heavy, clayey soil, has been costly work, which I find will now be almost entirely dispensed with by the use of your Smoothing Harrow, which not only does the work far better than the rake, but at one-fiftieth part of its cost.

PETER HENDERSON.

From JAMES J. H. GREGORY, Seed Grower.

MARBLEHEAD, MASS., Aug. 21, 1881.

Gentlemen: I have used one of your Meeker Smoothing Harrows on my farm, and find it a capital substitute for the rake, on all soils that are comparatively free from small stones.

Yours truly,

JAMES J. H. GREGORY.

From JAMES VICK, Seedsman and Florist.

ROCHESTER, N. Y., May 31, 1882.

Gents.: The "Meeker Harrow" is everything you claim for it. I am more than satisfied with it.

Yours, &c.,

JAMES VICK.

From C. R. BROTHWELL, Agent P. T. BARNUM.

BRIDGEPORT, CONN., Aug. 28, 1882.

Gents.: During the past ten years I have used on our farm all the improved harrows that have been before the public, as an experiment to save labor. My last purchase was the Meeker Harrow, which I think superior to all for preparing and seeding down meadows, garden purposes, &c. This harrow not only pulverizes, but grades the ground, and leaves it in as fine a condition as could possibly be done by hand.

Yours respectfully,

CHAS. R. BROTHWELL.

From COMSTOCK, FERRE & CO., Garden and Flower Seeds.

WETHERSFIELD, CONN., Aug. 5, 1882.

Dear Sir: We have used this summer the "Meeker Harrow" purchased of you, and find it bears out your recommendation. In fitting ground for the sowing of small seeds, it does away with the greater part of the hand raking—indeed, if skillfully used, no hand raking is needed.

From AARON LOW, Seed Grower.

ESSEX, MASS., May 29, 1882.

Gents.: The Meeker Harrow we have given a good trial, with the most satisfactory results, as it proves much better than we expected. We think it is the best harrow for onion and beet beds, and all other such crops, we have ever seen, doing the work better than by hand raking.

Yours truly,

AARON LOW.

From THOMAS GRISWOLD & CO., Seed Growers.

SO. WETHERSFIELD, CONN., Aug. 12, 1882.

Dear Sir: The Meeker Smoothing Harrow which we purchased of you last spring has given very good satisfaction; it is the best tool we ever used for preparing ground for small seeds.

Respectfully,

THOS. GRISWOLD & CO.

From JOSEPH HARRIS, Moreton Farin.

ROCHESTER, N. Y., May 6, 1882.

Dear Sir: We all think that your Smoothing Harrow is far superior to anything we have hitherto used for preparing land for onions, carrots, and other garden crops. If I could not get another I would not part with it for five times what it cost me. It leaves the land as fine and smooth as a steel rake; we are so pleased with it that we go over the land two and three times till it is as fine as the best prepared flower garden.

Respectfully yours,

JOSEPH HARRIS.

From ALVIN F. COLE.

BRISTOL, R. I., April 18, 1882.

Dear Sir: My father, Mr. N. N. Cole, has one of your Smoothing Harrows. It is a decided success on onion ground.

Yours truly,

ALVIN F. COLE.

From J. J. H. GREGORY.

MARBLEHEAD, MASS., 1883.

When I began planting onion seed the other day, in what we call the eighteen-acre lot, my seed sower, Mr. Estey, said: "It took just nineteen hands last year to rake this bed and keep up with the two sulky ploughs." "Well," said I, "bring out the Meeker Harrow, and see what that will do." The bed was about six hundred feet long. The harrow is a long and wide affair, covering in width just about four furrows of the Reynolds sulky; it is made up of four rows of circular disks, made much like those of the Randall, or wheel harrow, but fixed immovably on wooden axles; two rows are in the front part and two in the back part, with a cross-bar of wood between to break lumps and fill all inequalities. The disks are so arranged that one series rakes or cuts between the series front of it, so that finally the raking is as fine as that done by common hand raking. We set our Meeker to work with one average size horse and a driver, and found it would keep just about up with the two sulkies, while it did decidedly better work than the average raker. My man found he could sow his seed in straighter rows after it, than after hand rakes, because the disks press the small stones below the surface so far that they do not interfere with the sowing.

He said that on three very stony beds, where it was used last season, the slide would sometimes strike these hidden stones, and glancing out of its course, would cut down the young onions; but as these three beds gave me my largest crops—one of them taking the county pre-

mium—the injury could not have been to any degree serious. Occasionally a large stem or coarse piece of waste will be pushed ahead by the cross-bar, leaving a little furrow after it. An occasional backward glance will remedy this. All my onion beds, fifteen acres, have been raked by the Meeker harrow only, this season, saving a vast amount of time and labor. The mowing machine, hay tedder, manure spreader, and Meeker harrow, make a quartette invaluable to the vegetable farmer.

J. J. H. GREGORY.

INSTRUCTIONS

FOR THE

C. A. Meeker's Pat. Smoothing Harrow.

For Setting up.—Take side pieces, each one marked front, and numbered 1, 2, 3, 4; over bearing, each roller is numbered 1, 2, 3, 4. Fit corresponding number of roll into same number of bearing. Put on front and rear ends. Bolt together, with bolt heads on top. Put in Leveling Board and Tie Rod.

For Using.—Hitch Whiffletrees to clevis in harrow with about two feet of chain. Sometimes it is necessary to give the harrow a slight side draft to cover up tracks; if so, connect a small chain from whiffletree to corner of harrow.

If land is Fall poughed, hard, mellow up the ground with a tooth harrow. If fresh ploughed, use this at once.

Lower the leveling board in centre of harrow, sufficient to carry just dirt enough to leave the ground level. If weight is necessary, put a board across the center of harrow and stand on it to drive. To finish a lot level and smooth, without leaving a track, begin in middle of the lot and go around the land as if back furrowing with a plough.

THE

"NEW YORK"

Seed Drill,

MATTHEWS' PATENT.



Price \$12.00 Boxed.

THE ONLY PERFECT DRILL IN
THE MARKET.

MANUFACTURED FOR
FRED. ATWOOD,

Winterport, Maine, U. S. A.

UNRIVALLED SUCCESS!

Without a Peer, and Ahead of
All Competitors.

THE

New York Seed Drill

LEADS ALL.

*Highly Commended and awarded
First Premium and Special Pre-
miums at every Fair where
exhibited.*

Thoroughly Tried in Every Condition of
Soil, and Without a Fault!

IT EXCITES THE ADMIRATION OF EVERY ONE WHO EXAM-
INES IT.

Read its Points of Excellence.

— ... —

**Remember that this Drill is the last
invention of Mr. Matthews, and
is ahead of all others.**

DO NOT FAIL TO EXAMINE IT.

— o —

We take pleasure in calling your attention to a perfect Seed Drill. This Drill was invented and perfected by the father of the seed-drill business—Mr. E. G. MATTHEWS. It has been his aim for *years* to make a perfect drill and do *away* with the serious *objection found* in all others, and in the “New York” he has accomplished it. Its advantages over other drills are as follows :

1. Marker bar under the frame, held by clamps, easy to adjust to any width by simply loosening thumb nuts.
2. Adjustable plow which opens a wide furrow and can be set to sow at any depth.
3. Open seed conductor to show seed dropping.

4. Bars in seed conductors, for scattering seed in wide furrows, prevent disturbing strong plants when thinning out—an important feature.

5. Ridged roller.

6. Dial plate in full sight of operator, AND MADE OF PATENT COMBINATION WHITE METAL, WHICH PREVENTS RUST OR CORRODING.

7. Dial plate set on fulcrum, and hence holds close up, preventing seed from spilling.

8. It has a large seed box with hinged cover.

9. Machine will stand up alone when not in use; not liable to tip over.

It is the SIMPLEST, MOST COMPACT and EASIEST DRILL TO HANDLE, being only thirty-three inches long.

It covers the seed better and runs very easy.

Packed in crates for shipping. Weight about fifty pounds.

READ WHAT THEY SAY.

TESTIMONIALS.

WORCESTER, MASS., August 16, 1882.

The "New York Seed Drill" has given my customers entire satisfaction so far as I have had reports. Hope to sell many more another season.

Very respectfully,

W. H. EARLE.

(From Artie B. Cleveland, Fancy Pea and Bean Grower.)

CAPE VINCENT, N. Y., August 9, 1882.

The "New York Seed Drill" worked to our complete satisfaction, and was the best drill of the kind we have ever found.

PROVIDENCE, R. I., August 9, 1882.

The "New York Seed Drill" is giving excellent satisfaction. We have sold all with privilege of return if not liked, and in every case, so far as we have heard, they have pleased better than was expected.

Yours, etc.,

HAMLIN JOHNSON.

UTICA, N. Y., August 8, 1882.

In answer to yours of the 5th inst., would say the drills were sold mostly to dealers, and were very well liked.

Yours, etc.,

J. M. CHILDS & CO.

STAFFORD, GENESEE CO., N. Y.

April 9, 1882.

The "New York Seed Drill" works all right, it is a splendid little machine ; and is what I call a little beauty.

Yours very respectfully,

ROBERT SELDON.

SUNCOOK, N. H., August 10, 1882.

In answer to your postal of the 8th, we would say that the "New York Seed Drill" gave very good satisfaction to the parties who had them.

Yours truly,

WILLIAMS & HOSMER.

DETROIT, Sept. 11, 1882.

GENTS:

We have handled the "New York Seed Drill" the past season, and in every case the purchaser has been well pleased with it. From what we have seen of their working we have no hesitation in recommending this drill over any other in the market.

MICHIGAN SEED CO.

EVART, MICH., Sept. 4, 1882.

I consider the "New York Seed Drill" a good one; it has given general satisfaction here with all the parties I have sold it to.

R. A. ALLURED.

DETROIT, MICH., Sept. 11, 1882.

GENTS:

The "New York Seed Drill" for the market gardener has no superior that I have seen, and sows seeds that I could not sow with any other drill I have used. I am well pleased with it.

WILLIAM EDWARDS,
Market Gardener.

DETROIT, MICH., Sept. 11, 1882.

GENTS:

I consider the "New York Seed Drill" perfection as compared with seed drills in present use.

HENRY PETTERSON,
Market Gardener.

New York Seed Drill,

MATTHEWS PATENT.



Never have we put out a new tool that has given the satisfaction that the NEW YORK SEED DRILL has, and we have hundreds of testimonials pronouncing it PERFECTION.

It has been adopted by all the leading seedsmen. Do not fail to thoroughly examine it before buying.