

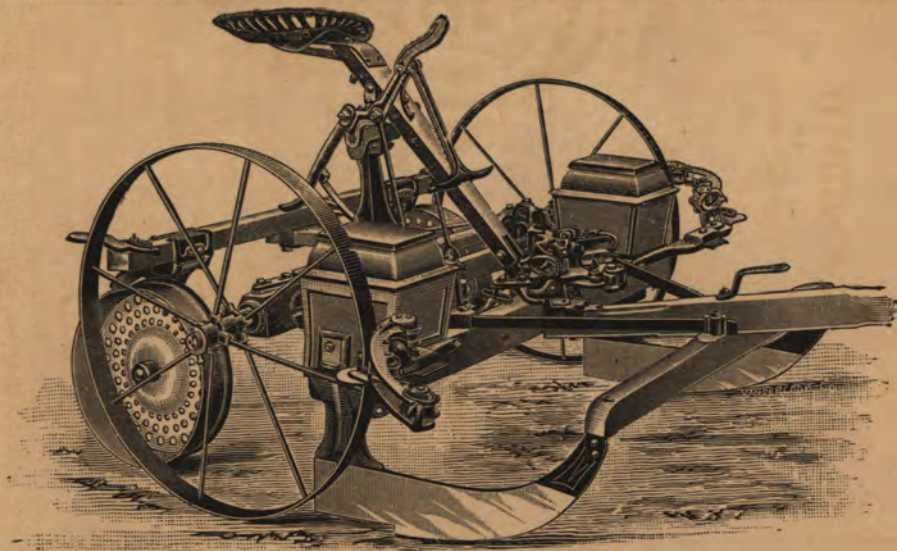


Haworth & Son

PLANTING

MACHINERY

Haworth & Son's
Decatur, Ills.



HAWORTH COMBINED PLANTER AND CHECK ROWER.

THE HAWORTH

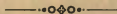
The Original Check-Rower.

THE STEEL BAR.

THE BEST GENERAL USE AND ATTACHMENT ROWER.

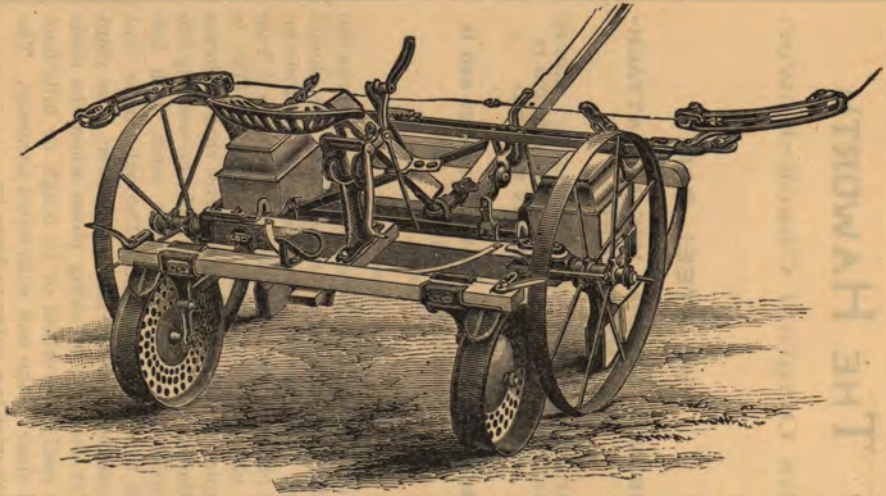
VALUABLE IMPROVEMENTS ADDED MAKING IT ADJUSTABLE TO DIFFERENT WIDTHS, ETC., PLACING IT WITHOUT QUESTION FAR IN THE LEAD.

The Check-Wire has Swivel Couplings and is Quickly Unhooked at each Joint.



It is obvious that the easier a rower works the better the general average result. It should work light enough so that the pounding force on the check-line will not be liable to drive it from its checking position. The HAWORTH is adapted to run a slack check-wire that conforms to the lay of the land, by which the wearing life is much increased and better work, with less skill to work it, is done. The only rower that successfully lays the check-wire over. Can plant right after the breaking plows when the clods are easily pulverized or in rough or hilly land and clear to the end with equal accuracy. The check-wire is a guide to drive by.

The Anchors are Self-Releasing.



THE HAWORTH PLANTER WITH STEEL BAR.

THE HAWORTH CORN PLANTER.

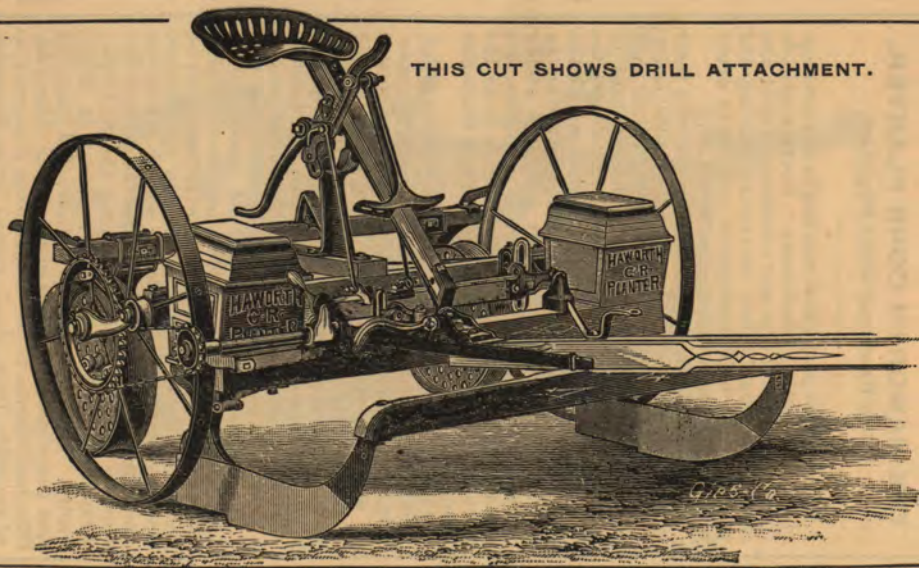
The Best and Most Popular.

The highest perfection reached in the development of Planting Machinery. Every available resource, as inventive and mechanical skill and capital is brought into service in making and perfecting such improvements only as in every way give the best satisfaction in the field.

By arranging the supporting wheels with their ground bearings close to the runners the essential parts of the machine are brought into such proximity as to involve the least waste of strength and weight of material in its construction and the proportion is in accordance with the light work of dropping corn and covering it. Short, compact, lighter draft and more wieldy in turning. To carry this plan to perfection was the work of many years in developing it to the perfect machine that the HAWORTH PLANTER now is.

That it is the right plan of construction is sufficiently evinced by this machine being as generally conceded very much lighter draft and turned on a row less space. The covering wheels acting independently on opposite sides of the furrow, front and rear, cover the corn better than possible for the single wheel, and also adaptable to various kinds of land. The depth of the seed is varied as desired and planted at a perfectly uniform depth, for the runners and wheels follow the inequalities of the ground together. Whilst filling in advance the furrows with loose dirt on the seed, the wheels at the heel of the runners are also utilized to perfectly gauge the depth and crush the clods betwixt the wheel and the runner, the rear wheels lapping the soil over. INSPECT CRITICALLY the dropper. It works easily. Is simple and sure stroke. It loses but one drop instead of two in a miss as others do. The back-throw of the second drop is corrective of variation from check caused by an irregular gait.

THIS CUT SHOWS DRILL ATTACHMENT.



POINTS.

 *One-third lightest draft.*

 *No neck weight.*

 *Rear wheels and runners elevated in turning.*

 *Small wheels the best coverers as they cause more displacement of the soil.*

 *Covering wheels set to or from the furrow.*

 *Scrapers automatic.*

 *Drill attachment complete.*

 *We make a cross-over wire combined with Planter, so that it can't get out of adjustment. Also a side-wire rower especially adapted for the Haworth Planter. It works easily.*

 *It has a jerk-lever by which the driver throws off the wire from his seat.*

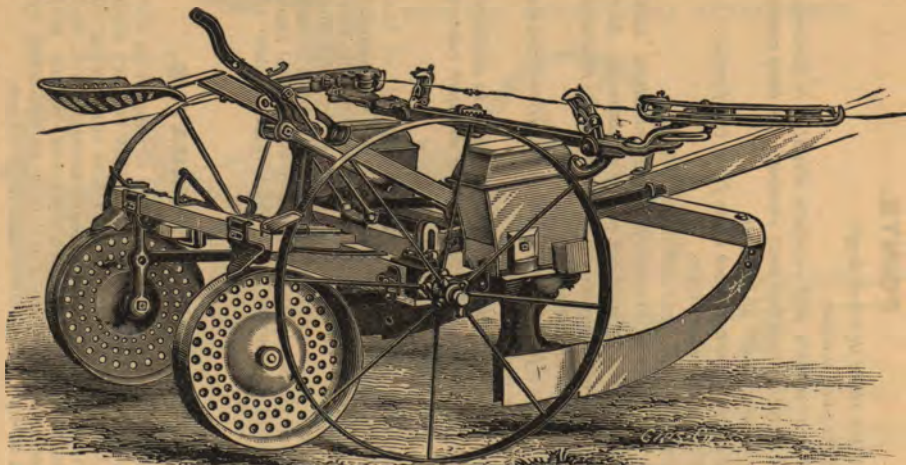
 *The hinge permits covering wheels to conform to every inequality of ground. The dropper cannot be affected by chaff or dust.*

The Planter is light and strong, all of the exposed castings are malleable iron. The attachments, Check-rower, Drill and Fertilizing Apparatus, are the most complete of any on the market. We furnish to order with the Planter either of three styles of Check-rowers, Steel Bar, Combined Crossover and Side Wire, either of which is without a rival.

FERTILIZING APPARATUS.

The Fertilizing Apparatus is arranged on the Planter so as not to interfere in any respect with the Planter's working parts, the corn being in sight as it is dropped the same as without it, and it has other convenient features which will recommend it. The Fertilizer is operated by hand or by Check-rower and drill either.

HAWORTH & SON, Decatur, Ill.



THE ABOVE CUT REPRESENTS THE PLANTER WITH THE REAR COVERING WHEELS AND RUNNERS
ELEVATED FROM THE GROUND.

CHECK-ROWER TESTIMONIALS.

I. B. SLOAN, of Sioux City, Iowa, writes : That he has used the Haworth Rower for six years; has not been out one cent for repairs.

FRENCH BROS., Ireton, Iowa, write: They bought a Haworth Rower seven years ago, averaged 140 acres each year; has cost them little or nothing for repairs.

J. R. REED, Tekamah, Neb., writes : Bought one of the first sent into this part, eight years ago ; is as able to do its work now as the day I bought it, without cost for repairs.

H. BOUGN, Harlan, Iowa, writes : Used Haworth wire five years ; prefer it to all others.

W. J. PATERSON, Carroll, Iowa, writes: Used the Haworth Rower six years ; have been at little expense for repairs ; averaged 100 acres each year.

ALLEN MAXWELL, Defiance, Iowa, writes : Used Haworth's eight years ; planting fifty acres on an average, without cost for repairs.

D. MONTGOMERY, Ireton, Iowa, writes: Have used the Haworth five years ; it is durable and easily managed.

F. O. SLOAN, Sioux City, Iowa, has used the Haworth wire five years ; has cost little for repairs ; planted 150 acres yearly.

L. IDDINGS, Mapleton, Iowa, writes : Have used the Haworth Rower eight years, planting an average of 100 acres each year ; have been at no expense for repairs, and don't know how much longer it will last.

G. N. SLOAN, Sioux City, Iowa, writes : Have used the wire for six years ; planted on an average eighty acres yearly without expense for repairs.

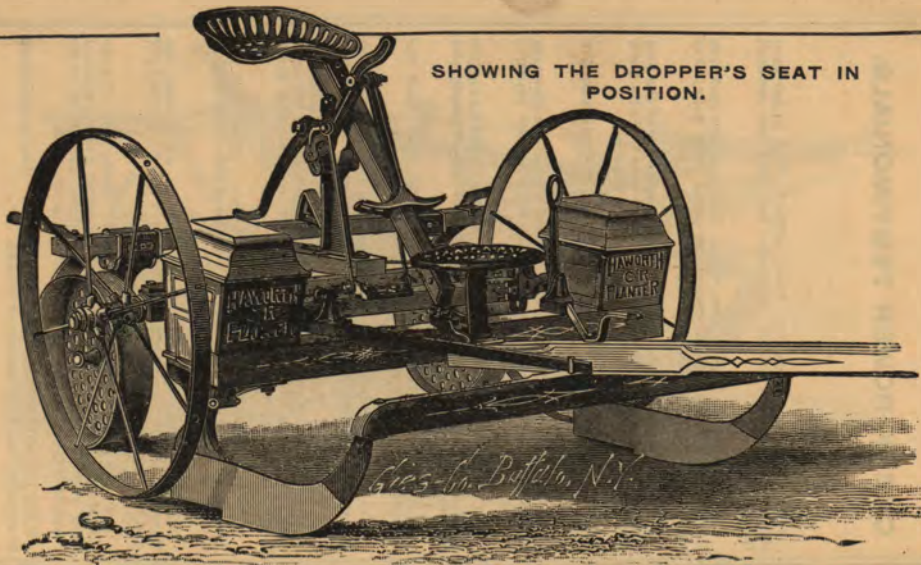
SETH LEWIS, Mapleton, Iowa, writes : Have used the Haworth Rower four years ; planted 100 acres per year ; it cost nothing for repairs.

J. P. SMITH, Shelton, Neb., writes : Have two of your Rowers on our farm ; have used them seven years ; planted each year a big crop ; run wire line slack ; have been to no expense for repairs ; never had a break in the wire.

S. NETLENBERRY, Minden, Iowa, writes : Used your Rower five years ; the wire has never broken.

GEORGE CARTER, Atlantic, Iowa, writes : Have used the Haworth six years, and for durability it has no equal.

SHOWING THE DROPPER'S SEAT IN
POSITION.



JAMES BLAKE, Atlantic, Iowa, writes: Have used the Haworth eight years; planted eighty acres; the wire is good yet.

J. W. SATLER, Harlan, Iowa, writes: Used Haworth six years; the wire is good yet.

C. G. SUTHERLAND, Minden, Iowa, writes: Used your Rower six years; think it is the best in use.

B. PFFUGSHAUPT, Minden, Iowa, writes: Used your Rower six years; am well pleased with it.

A. SWATANBAUGH, Harlan, Iowa, writes: Used the Haworth six years; the wire will outlast any in use; planted 180 acres per year.

M. BARTON, Harlan, Iowa, writes: Used the Haworth seven years; think it will outlast any other; wire is good yet.

JOHN ROEMAN, Hinton Station, Iowa, writes: Used your Wire Rower seven years; for accuracy and durability it is the king of the field; have tried several kinds; find it the only perfect rower; my repairs on rower next to nothing.

T. J. HURFORD, Grand Island, Neb., writes: Have rowers out in hands of farmers, who bought them of me in '81, and have never laid out one cent for repairs.

PLANTER TESTIMONIALS.

MEXICO, IND., May 6, 1890.

HAWORTH & SONS, Decatur, Ill.

I have all the planters sold. Hurrah for the old reliable Haworth. It beats them all.

J. H. LANTZ.

TIFFIN, OHIO, June 23, 1890.

SIRS:—The planters were satisfactory. One man said \$75.00 would not buy his after planting 80 acres. I could have sold eight more if I had them here in time.

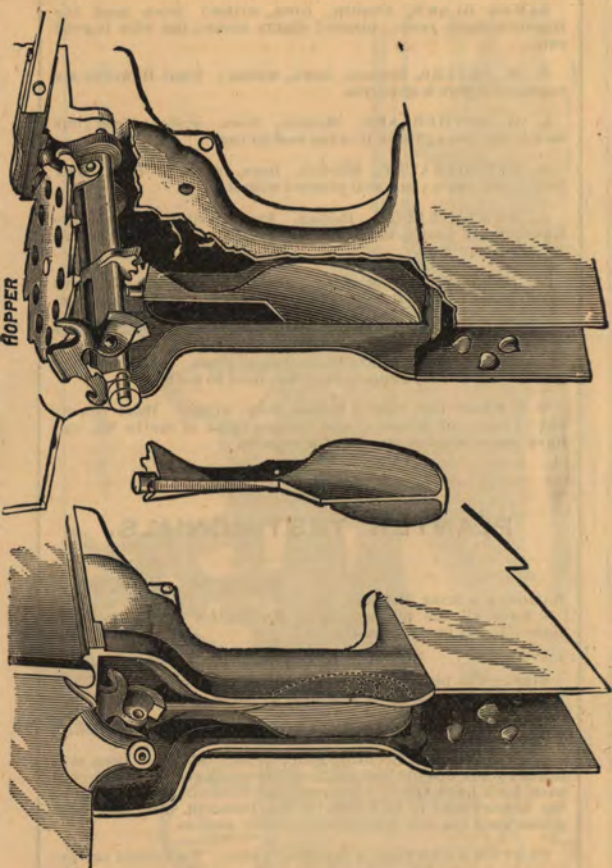
Respectfully, etc.,

J. W. BARRACK.

GOODNO & CO., Bronson, Kan., write: We have been selling Haworth Rowers and planters for seven years and in every case both have given complete satisfaction. Nine-tenths of the Rowers used in this vicinity are Haworth, although their goods were the last introduced into this section.

CARTER & CARTER, Polo, Mo., write: We cannot say too much in favor of the Haworth Planter and Check-rower. Can send you testimonials from each purchaser if necessary.

JOE. H. CHRISTY, Greenton, Mo., writes: The Planter bought of you last Spring is a "Daisy." I would not use any other kind.



THE BACK-THROW OF THE SECOND DROP IS CORRECTIVE
OF VARIATION FROM CHECK CAUSED BY AN
IRREGULAR GAIT.

CHARLES E. HART, Oak Grove, Mo., writes: The Haworth Planters run lighter than any planter I ever hitched on to. I have planted 230 acres with it and it can't be beat.

J. W. COULTER, Albany, Mo., writes: We think your Planter is the lightest draft and best planter made, and your Check-rower is undoubtedly the best in the market.

J. McGEE, Dover, Mo., writes: Any man who can grumble at the way the "Haworth" does its work would grumble to be hung.

W. T. PICKRELL, Ottona, Kan., writes: The Haworth Planter and check-rower have given good satisfaction. Light draft, easy operated, and perfect check are its admirable features.

C. P. CROW & CO., Lane, Kan., write: If all goods gave the satisfaction that Haworth's do life would contain much less grief than it does.

JOHN B. EPPES, Dover, Mo., writes: I want no better Planter.

DE LAPORTE HARDWARE CO. write: All our customers speak of the Haworth Planter and Check-rower in the highest terms.

D. J. W. LUCKIE, Mexico, Mo., writes: I purchased one of your Check-row Planters two years ago and though I have used five different Planters have never seen any to compare with it in lightness of draft, accuracy of drop and perfect checking. I consider it perfection.

D. F. PARKE & CO., Pleasanton, Kan., write: We have sold Haworth Planters and Check-rowers for several years, and the work done by them is all that can be desired.

R. R. DEACON, Butler, Mo., writes: The Haworth Planters and Check-rowers that we sold this season gave perfect satisfaction. We had no repairs on them and not a single complaint.

BARKER HARDWARE CO., Girard, Kan., write: We have sold your Check-rower for the past fifteen years and your Planter since it came out, and have yet to find the first one of either that has not given entire satisfaction.

LUCHSINGER & STREIFF, Appleton City, Mo., write: The Haworth Planter and Check-rower gave our trade better satisfaction than any planter and Check-rower we ever sold.

HENRY SHIELDS, Lewisburg, O., writes: Your Planter has no equal for any and all kinds of ground. Would advise every person in need of a Planter and Rower, to purchase "The Haworth."

R. D. ROBERTS, Hazel Green, Wis., writes: All the Planters that I sold this season work splendid,—easily handled and light for horses. I want the agency for them next season.

WM. BOWMAN, Montezuma, Ind., writes: I can recommend your Haworth Planter and Check-Rower as the lightest and easiest handled, that I have ever used. It does the work perfectly.

WM. M. EWALT, Perrysville, O., writes: The Planter gave good satisfaction. The Check-Rower worked like a charm. There will be more sold here next year.

J. F. SHAFER, Belleville, O., writes: I will sign the strongest testimonial you can write. I would not take \$100 for my Haworth Planter, if I could not get another like it.

A. T. HILLS, Shancke P. O., O., writes: Your Planter and Check-Rower, gave the best of satisfaction in every respect. I predict a large sale of your Planters here the coming season.

A. A. BOWERS, Belleville, O., writes: I have had perfect success with your planting machinery. Other dealers have acknowledged that there is no use trying to compete with the Haworth Planter and Check-Rower. In point of work *they are invincible.*

N. JOHANNES & SON, Nevada, Mo., write: The Haworth Planter and Rower has no superior—perfect planting, lightest draft and convenience in handling.

JONATHAN JOHNSON, Carmel, Ind., writes: After thirteen years' experience in selling implements, and three years' personal experience in the use of the Haworth Planter and Check-Rower, I can say I consider them the most convenient and easily managed Planter in use.

J. W. LEWIS & SON, Yates Center, Kan., write: We consider your Planter and Check-Rower first-class in every respect and had no complaint in our territory.

JIM MCGANNON, Seneca, Mo., writes: The best on the market is the universal reply of the farmers in answer to questions on your machinery.

R. H. WHEELER, Lamonte, Mo., writes: The Haworth Combined Planter and Rower is a great success. In one case I had to take back a combined Keystone Planter and replace it with a Haworth before satisfaction was given.

MOSSMAN BROS., La Cygne, Kan., write: We find that the Haworth Planters fill the requirements of the first-class Planter. Our customers always speak highly of the Haworth goods.

WM. W. MACK, Humanville, Mo., writes: I have sold several kinds of planters and I can say that the Haworth gives better satisfaction than any planter I ever sold. I sold them in competition with all the old style planters this season and get more for them without any trouble.

J. L. McCONNELL, Hume, Mo., writes: Your Planters are giving excellent satisfaction.

JOHN WARR, Eureka, Kan., writes : From personal observation and reports from my customers I consider them first-class. It runs very light.

T. J. HURFORD, Grand Island, Neb., writes : Handled your Planter this season ; am pleased to say it does its work to perfection. Customers well pleased.

JOHN ROEMAN, Hinton Station, Iowa, writes : Used one of your Planters this season, it is positively the lightest running machine I ever saw.

ALBERT E. KRAUSE, North Loup, Neb., writes : Bought one of your planters last season ; it does first-class work. Will purchase another in the spring.

G. T. WINTERS, North Loup, Neb., writes : Purchased one of your Planters and Rowers ; it is light running, strong, and durable ; can put in more acres with less work for self and team than with any other.

DAVIS & CARRABINE, Emerson, Neb., writes : The Haworth Planter is a daisy, and she is getting their in grand shape.

W. H. BENJAMIN, Bankville, Neb., writes : The Planter and Rower I received has given the best satisfaction of any Planter here ; it has planted 175 acres.

R. S. BEYMER, Afton, Iowa, writes : I want to arrange for one of your Corn Planters to take to our County Fair this fall. The one I sold this spring is reported the lightest draught and easiest handled Planter in this market.

R. C. COCHRANE, Assumption, Ill., writes : In lightness of draught is the Champion. Having planted over 100 acres this season and did not have a single hill to plant over, and in counting 700 or 800 hills I found their was not a single hill missing.

ED. T. WELCH, Ashland, Ill., writes : Bought a Haworth Planter last spring, planted 150 acres ; like it better than any other ; exceedingly light and easily handled for man and team.

JO. RIPPEY, Syracuse, Ind., writes : I have used a Haworth Check Rower eleven seasons. It has planted on an average 200 acres each year and still works as well as when new.

HARVEY BOWEN, East Lynn, Ill., writes : I can truly say that the Haworth Corn Planter is the lightest running and most perfect planter I have ever used. I have used many kinds, but the Haworth beats them all.

SODESTROM, BROWNELL & CO., Sac City, Iowa, write : The sale of your planters is to us something phenomenal in our implement business of eleven years. Your planters go into the hands of the very best farmers in our section.

ED. W. KRUSE, Higginsville, Mo., writes : Your Planter is the finest in the land.

G. C. BENTLEY, Marshall, Mich., writes: Have used one of your Check Rowers for about ten years. Sold it last year and tried a side wire. Did not like it. Sent it back. Want yours again.

DUNCAN & STUART, Franklin, Ind., write: We have sold your Planter for the past three seasons and find that it will drop lighter than any other planter made. As to the Check Rower we do not think there is but one made and that is the Haworth.

WM. DYE, Carthage, Ill., writes: I used one of your Check Rowers for five years, then got a side wire last year and had crooked corn. I will throw it away and must have one of yours if I have straight corn.

MONAHAN BROS., Charlotte, Iowa, write: We have handled many kinds of Planters, but the Haworth Planter and Check Rower beats them all. A good common sense Planter and Rower. We have one on our own farm and it will draw one-third lighter than any one we have tried in our twenty years' experience.

R. R. JACOB & CO., Waynesburgh, Ohio, write: Your Planter and Check Rower has given our customers excellent satisfaction.

T. B. GRAHAM, Washington, Ind., writes: The Haworth Planter and Rower is the finest I ever used, and went far ahead of my expectation. The Check Rower is the most complete and does the best work of any I ever saw.

E. S. GILL, La Crosse, Iowa, writes: I have used your Check Rower for eight or ten years. I like it the best of any in the market. It has never cost me five cents for repairs.

B. H. KEPNER, Nora, Jo Davies Co., Ill., writes: The Corn Planter and Check Rower I bought of you last spring has given perfect satisfaction; is much the lightest draft I ever used; no weight on horses necks while turning around; is easily managed; and leaves the ground in good shape. Your Check Rower is too well known to need a recommendation. Will simply say it is a perfect machine.

FRANK BOWMAN, Ashland, Ill., writes: Used a Haworth Planter; much the lightest, and easier handled than any planter I ever used.

A. McHUGH, Clinton, Ill., writes: The Haworth Planter has given entire satisfaction; never saw it equal; easy to manage; is light draught and leaves the ground in good shape. Planted seventy-five acres.

B. F. ALLEN, and J. W. BAKER, Jacksonville, Ill., write: The Haworth Planter we bought last spring is a success in every way; runs lighter and leaves the ground in good shape. Planted 150 acres.

H. COX, Jacksonville, Ill., writes: The Haworth Planter and Steel Bar Rower proved all it was recommended to be; was surprised at the ease of draught; should I want another would buy the Haworth.

ASA WREN, DeLand, Ill., writes: The Haworth Planter and Steel Bar Rower gave satisfaction; planted my corn in less time and with less wear on team than any planter I have ever used.

ARTHUR MOORE, Clinton, Ill., writes: Am well pleased with the Haworth Planter and Steel Bar Rower I bought this season; runs lighter than any planter I ever used; leaves the ground in the best shape for the corn to come up. Planted sixty acres.

N. J. CHELINE, Holdrege, Neb., writes: sold six of your Planters this spring; put them out on one days' trial; none of them returned; it draws one-third lighter than any other planter. Will sell fifty next year.

SAMUEL RICHARDSON, Nevada, Mo., writes: Cannot speak too highly of the merits of your Planter; think it has no equal for any and all kinds of ground. The lightest draught planter I ever used.

C. C. SMITH, Terre Haute, Ind., writes: The purchaser of your Planter says it beats all planters he ever saw; runs a horse lighter than any I have ever used.

W. T. CHERRY, Blue Mound, writes: My Haworth Planter gives splendid satisfaction; the lightest draught planter I ever used, covers better than any. The dropper can't be excelled. Will say it is the best planter I ever saw; have tried several Check-rowers but the Haworth Steel Bar is the most complete.

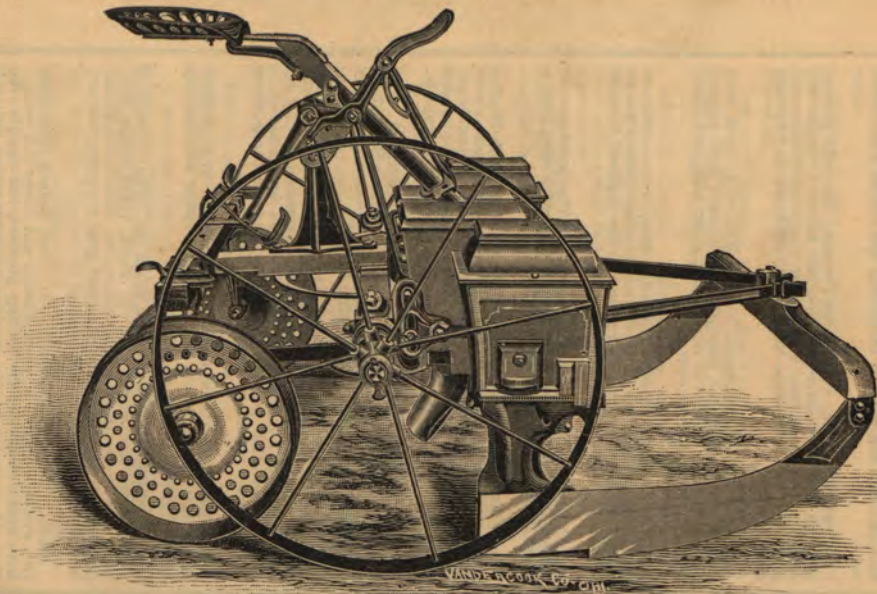
A. D. WILLEYS, Willeys, Ill., writes: Planter and Steel Rower bought of you did excellent work; covers in all kinds of soil, wet or dry; it is about two-thirds of the draught of any other planter. Never saw anything better.

A. CLARK, Chestnut, Ill., writes: The Haworth Planter I bought, I regard as a vast improvement over any other. I did good work with it last spring when it would be impossible to have driven other planters without miring—covering every hill—the corn coming more even; very light draft.

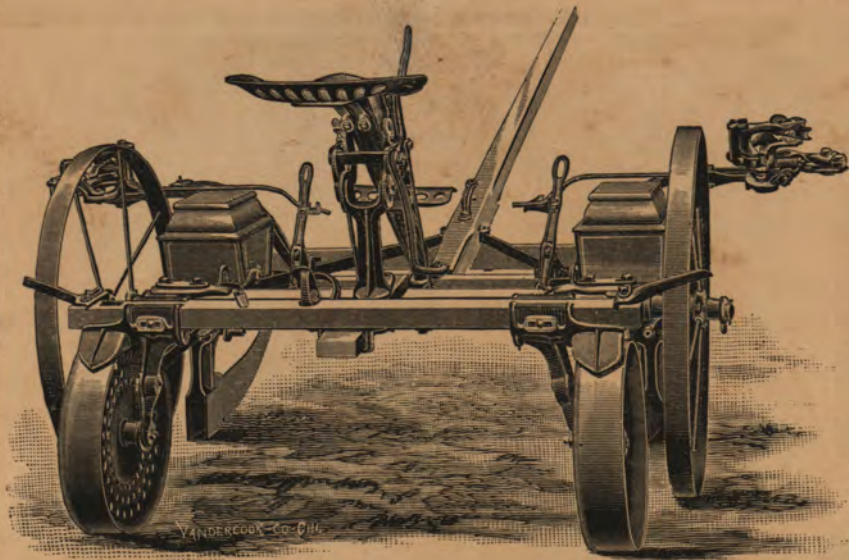
WM. KEMMEL, Cambridge City, Ind., writes: You can draw at any time for the money as I am well satisfied with the way your Planter works.

W. A. PERSON & SON, Ferrell, Edgar Co., write: Purchased your Planter and Rower of C. C. Smith, Terre Haute, Ind. Have used three different kinds before; for uniform dropping, lightness of draught, convenience, and good work, the Haworth beats them all.

FRED. L. COCHRAN, Shelby Co., Flat Branch Township, Ill., writes: Bought a Haworth Planter and Rower this Spring; have used a number of the leading planters, but consider the Haworth superior to any of them in lightness of draught, uniformity of drop, covering, etc. I do not think the Planter has an equal in the field.



HAWORTH PLANTER WITH FERTILIZING ATTACHMENT.



HAWORTH PLANTER WITH SIDE WIRE.