

HOFFMAN'S



ORIGINAL, IMPROVED AND PERFECTED

HAY

Elevator and Conveyor

FOR 1875.

Simple, Efficient, Safe and Durable.

MANUFACTURED BY

HOFFMAN BRO'S,

LEBANON,

Hunterdon Co., N. J.

WANTED, a reliable Agent in every County throughout the U. S.

Mr. _____ *Agent,*

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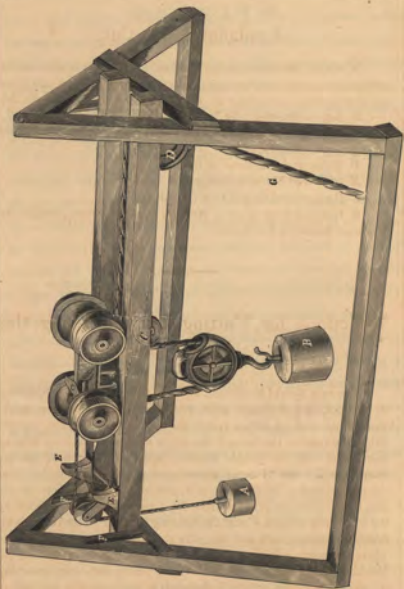
IN presenting this Circular, the attention of farmers is especially directed to the merits of this Machine (originally invented in 1864, patented 1871 and '72,) which is universally pronounced by all competent judges to be one of the greatest labor-saving inventions now extant; and for *simplicity, durability and practical utility* far surpassing anything of the kind that has ever been invented. Although there are numerous other Machines which have been introduced to the public, designed to lessen the time and labor required for placing Hay, Straw, Grain, &c., in the mow, all of which have proved inadequate to meet the wants and requirements of the average farmer, and since the idea of lessening the labor of the husbandman in this regard has suggested itself to the minds of mechanics, numerous plans have

been devised, and various methods resorted to—some have vainly endeavored to work their Machines upon incorrect and unmechanical principles, and the public has been deceived and humbugged with numerous clap-trap inventions which combine little or no real merit whatever—we refer to the Slack Rope, Rod, or Single Rail plan of operation, which are suspended at each end only, and are frequently breaking down and endangering the safety of those using them. In this, as in many other patents, there are a few unprincipled individuals who are seeking to infringe upon our Machine by introducing one similar to it, but vastly inferior in working qualities; and it is our purpose to maintain the right guaranteed to us by virtue of our patents, and thus put an end to this species of swindle. The inventor of this Machine being a practical farmer, had long felt the need of something practical and durable, to lessen the labor of unloading and mowing Hay, &c., in connection with Horse Hay Forks, and having expended much time, labor, and money for the accomplishment of that end, we now present this Machine to the public simply on its own merits, fully confiding that its wants in this particular have been fully met. And to maintain the reputation which this Apparatus has achieved, we pledge ourselves that nothing that experience, attention and skill can do shall be deficient on our part.

Hoping to receive in the future, as in the past, our share of public patronage,

We are, very respectfully yours,

HOFFMAN BROS.



The above cut is designed to show the top of a building and section of track, with the arrangement of Car, Bumper, Pulleys, Hangers, Braces, &c.

Explanation of Cut.

A Weight for returning the Machine to Bumper; it also answers an excellent purpose in steadying the motion of the Car when it leaves the Bumper, and preventing the Hay from falling off should it be dry.

B Represents where the Fork should be placed.

C Hoisting Wheel under Car (of extra size, with long bearing on large journal, turned true.)

D Pulley at farthest end of track.

E Improved Movable Bumper.

F Hangers and Braces to every rafter.

G Hoisting Rope of good Manilla, 1 inch diameter; weight and trip rope should be $\frac{3}{8}$ or $\frac{1}{2}$ inch.



Directions for Putting Up and Using this Apparatus.

The rails should be straight and free from knots, of pine, spruce, or hemlock, and of straight grain, 2×3 or 2×4 , placed edgewise in the peak of the roof, $5\frac{1}{2}$ inches apart; the top of rails outside, 5 inches below the rafters; the bumper should be used as a gauge for keeping them level and the proper distance apart, while putting on the hangers, which should be of sound wood $1\frac{1}{2} \times 2$ inches, notched near the bottom end, to receive the rails, and well nailed; braces should also be put on to prevent the track from spreading. In all cases have the track well secured where the hoisting is done. This being done, fasten the bumper well with the bolts provided directly over the place where the hoisting is done. This serves the purpose of holding the Machine until loosened by the elevating pulley, and when returning it unlocks the pulley, so that it descends to the load, with the fork, of their own gravity. Wind the end of rope tight with fine wire or strong twine, pass it through the elevating pulley, and insert it in the malleable clevice on head block, and rivet it down tight, so that

pulling out is impossible. This done, place the car on track, and pass the rope over hoisting wheel, as per cut; then to the pulley at farthest end of track; from thence to another pulley at any point near the plate (over the place where it is most convenient to work the horse), and from thence to the last pulley on the floor. After all is up, and before using, the machine and pulleys should be well oiled; and see that the ropes do not chafe on timbers or other obstructions. If the rope is new it should be *boiled* well before using, or thoroughly stretched, which will make it soft and pliable, and prevent twisting. In cases where it is desirable to unload in the end of building from outside, the track should extend sufficient (2 or 3 feet) to allow the car when locked to bumper to be outside of building, so as to prevent the fork and contents from coming too much in contact with the weather boards. To accomplish this successfully a projection of the peak of roof is necessary, which would *make a support for the end of track*.

THE WEIGHT ARRANGEMENT.—The weight should be heavy enough to return the car to the bumper after unloading the fork, and it can be operated in any part of the building, or outside. If the length of track should exceed the distance from the track to the ground, then fasten the weight to a pulley, and use double rope same as hoisting. This will allow the car to move on track two feet, while the weight only rises one. Should the track be very long, triple the weight rope, and use the weight in a square box to prevent ropes from twisting. Many do not use the weight, but pull the car back to bumper with tripping rope. However, the weight attachment should be used in all cases, as it makes the working of the apparatus more automatic, and the machine comes back itself as fast as the horse can trot, saving much time over the method of using Post Pulley and tripping device, which have by many been discarded, owing to the difficulty of entering the rope in pulley without stopping the horse, which takes more time than to go clear out and come back; besides, when the horse is back the rope is all in, whereas with the Post Pulley it is at this time all out, and must be pulled in by hand, consequently consumes more time.

N.B.—In this as in all Machines, Oil should be freely used, if economy is desired.



These cuts represent what is universally known as the

DOUBLE HARPOON HORSE HAY FORK.

(manufactured by the well-known firm of Messrs. A. J. Nellis & Co., Pittsburgh, Penn.,) which has taken more Premiums, Medals, Diplomas, &c., than any other Hay Fork in existence, therefore for us to attempt to say anything in its favor would seem entirely superfluous; however, we shall say that we have used them in all kinds of hay (as also we have many others;) even in short dry clover it far surpassed the four-tined "Palmer," and from our experience we know that this Harpoon is far superior to any other Fork with which we are acquainted; and in offering it with our Machine we do so fully confident of our ability to prove its many advantages over others to a practical demonstration.



24 REASONS

Why "HOFFMAN'S HAY ELEVATOR AND CONVEYOR" is superior to all others, and by far the best of any in the market:

- 1st. The double rail plan of operation is the only correct one, as all strain comes directly down equally on all rafters.
- 2d. This kind of track is the only safe one, as when properly put up it adds greatly to the strength of roof.
- 3d. It does not sway to and fro like a treetop in the summer breeze, as does other Conveyors on a Rope, Rod or Single Rail, racking the roof of building to pieces, besides the danger attending them.

- 4th. With the Improved Bumper, hay, &c., can be removed from the building as easily and expeditiously as put in, simply by reversing machine and pulley.
- 5th. The Weight Arrangement causes the vertical motion of the hay to change horizontally, very steady, and without starting off suddenly, throwing half the hay back on the wagon or floor.
- 6th. This is the only legitimate apparatus with the Weight Attachment; all others using it are infringers.
- 7th. The hoisting is done with double rope, and conveying with single, without stopping.
- 8th. This is the Original Double Hoisting Rope Conveyor; all others are infringements.
- 9th. This is the only legitimate machine in which the Elevating Pulley unlocks the car while locking itself.
- 10th. Locking the Elevating Pulley direct is the only practical way of sustaining the load after elevating.
- 11th. It has no Cams, Ratchets, or Pawls, tearing on the rope to sustain the weight.
- 12th. It has no wood in its construction to split and shrink, except the blocks in bumper, which prevent excessive jar should the machine come back heavy.
- 13th. It has no wooden wheels to wear out every season.
- 14th. It is strong and durable, without being extra heavy or clumsy.
- 15th. Its operation is simple, very easy, and automatic, leaving nothing for the operator to do but load the Fork and empty it.
- 16th. It is constructed only of the best materials, with special reference to *durability*; and if kept properly oiled will far exceed any and all others in this respect.
- 17th. All Bearings subject to wear are of extra size, and all Journals and Pins are turned true in a lathe.
- 18th. The Head Block and Swivel prevent the rope from twisting.
- 19th. It does not get out of order.
- 20th. With this apparatus one man, two boys and a horse will do more in a given time than six men can the old way with Horse Fork alone.
- 21st. That it will more than double the value of *any* Hay Fork when used in connection with it.
- 22d. Has taken First Premiums wherever exhibited in competition with others.
- 23d. Pulleys all being large it requires much less power to do the work than any other device.
- 24th. Every machine is sold upon their own merits, under full guarantee.

For further particulars, read Testimonials, or examine the Machine, now on exhibition and for sale by

Agent.

TESTIMONIALS.

Some idea of the utility and superiority of these Machines, and the high estimation in which they are held by those who have used them, may be gleaned from the following Testimonials, the numbers of which could be produced to the extent of Machines in use. A sufficient number only is inserted to sustain our representations :

From Mr. JNO. V. VEGHTE, President of Somerset County Bank.

Somerville, N. J., March 27, '75.

Messrs. HOFFMAN BROS. :

GENTLEMEN—I purchased one of your "Improved Hay Elevators and Conveyors" last summer, and was so well pleased with it that I deemed it advisable to purchase a second one, and I think I shall add another this coming summer. They are undoubtedly superior to any "Hay Elevator" in use with which I am familiar, and I take great pleasure in recommending them to all persons who may need such an implement as the best in the market.

Yours truly, JNO. V. VEGHTE.

From Mr. JOHN TINDALL, Dealer in Hay, Coal, &c.

OFFICE OF DELAWARE ROLLING MILL,

Phillipsburgh, N. J., Sept. 16, 1874.

Messrs. HOFFMAN BROS. :

DEAR SIRS—We are using one of your Machines for unloading and mowing hay, and fully appreciate the merits it has, and can cheerfully recommend it to those in want of a good Machine.

Very respectfully yours, &c., JOHN TINDALL.

From Messrs. H. H. & J. D. VAN AMBURGH, of Leona Stock Farm.

P. O. Address, Lebanon, N. J., Nov. 2, 1874.

Messrs. HOFFMAN BROS. :

GENTLEMEN—Having thoroughly tested the "Hay Car" of your manufacture, also the Harpoon Fork you furnished us with it, we take pleasure in verifying as to their intrinsic worth, and cheerfully recommend their utility to all farmers who desire to relieve themselves and working men of the onerous task of loading and unloading hay with the common pitch-fork. Our experience is that a full load of hay can be unloaded in any part of a mow in from seven to twelve minutes by two men and a boy, while it will take by the old method three or four men from twenty-five to forty minutes. We also admire the lightness, strength, and durability of your Car, and will show its merits, and exemplify its workings, to any who may favor us with a call.

Respectfully yours, H. H. & J. D. VAN AMBURGH.

From Mr. WM. R. JANEWAY.

Pinehurst, Franklin Township, Somerset Co., N. J., Sept. 15, 1874.

Messrs. HOFFMAN BROS.:

GENTS—Having employed one of your Hay Elevators and Conveyors during the past season, I have no hesitation in recommending it as highly satisfactory. It is strong, does not get out of order, and the power is fully equal to if not greater than a Double Block and Fall.

Yours truly, WM. R. JANEWAY.

From Mr. WM. JOHNSON.

Lebanon, N. J., Sept. 5, 1874.

Messrs. J. HOFFMAN BROS.:

SIRS—I have had one of your Improved Cars in use for two years, and in my opinion it is *perfection*; and were it impossible to replace it, One Thousand Dollars would be no inducement to take it down.

Yours respectfully, WM. JOHNSON.

From Mr. R. FINLEY FIELD.

Bound Brook, N. J., Nov. 30, 1874.

HOFFMAN BROS.:

DEAR SIRS—Having given the Hay Elevator and Conveyor (put up in my barn by you the past summer) a thorough trial, I can confidently say that it has given entire satisfaction, and I would be without it upon no consideration, for it entirely does away with the trouble of moving rope and pulleys as with the Horse Fork alone. When this Machine is once up it is ever ready, and you can go right ahead, one horse doing the work easier than two can in the ordinary way.

Yours respectfully, R. FINLEY FIELD.

From Mr. WILLIAM DUYCKINICK.

Lamington, N. J., Oct. 24, 74.

Messrs. HOFFMAN BROS.:

GENTS—Having used one of your Improved Hay Elevators and Railway Conveyors the past season, it affords me much pleasure to inform you that said apparatus has worked splendidly, and to me has given entire satisfaction, requiring with one horse from four to eight minutes to unload and mow away a ton of hay. Your pulleys all being large accounts for the ease with which one horse does the work; and by keeping them properly oiled, I cannot see why the Machine will not last a lifetime.

Very respectfully yours, WILLIAM DUYCKINICK.

From Mr. J.^dH. EXTON.

Clinton, N. J., Sept. 14, 1874.

Messrs. HOFFMAN BROS.:

GENTS—Your favor of Sept. 10 is received, asking my opinion of your "Improved Hay Elevator and Railway Conveyor." In reply I would say that I have used your apparatus for the past season to my entire satisfaction, and that I consider yours the only practical way of sustaining the load after elevating—namely, by locking the elevating pulley direct, (instead of binding the rope with ratchets, cams, &c., which soon wear and get out of order.) Believing that yours is by far the best and cheapest in the end, I can cheerfully recommend it to the farming public as being one of the greatest labor-saving Machines extant.

Very respectfully yours, JOS. H. EXTON.

From Mr. HARRISON APGAR.

High Bridge, Hunterdon Co., N. J., April 12, 1875.

Messrs. HOFFMAN BROS.:

GENTS—Your favor of the 10th inst., asking my opinion of your Improved Hay Elevator and Conveyor, is at hand. In reply I will say that I have used for the past season one of your Improved Machines, and find it to be indispensable as a labor-saving implement, and well worthy of all you claim for it; and believing that it has many points of superior merit over any other device for accomplishing the same purpose, I can highly recommend it to all in need of such a Machine.

Very truly yours, HARRISON APGAR.

From Mr. JOHN C. CRAMER.

Annandale, N. J., March 12, 75.

Messrs. HOFFMAN BROS.:

GENTS—I have thoroughly used your Improved Hay Elevator and Conveyor, also the Harpoon Horse Hay Fork, furnished by you, and find them to be all that could be desired in unloading and mowing away hay, &c., as it does away with the hardest work like magic. In fact your apparatus will more than double the value and usefulness of any Horse Fork, and with it one man can do the work of at least three in the old way. This is a Machine of merit and should be in the possession of every progressing farmer.

Very respectfully yours, JOHN C. CRAMER.

From Mr. JOHN C. BUNN.

Lamington, N. J., Oct. 27, 1874.

Messrs. HOFFMAN BROS.:

GENTLEMEN—The Improved Hay Elevator and Conveyor that I purchased of you last summer was used for the season with very gratifying results, and in my estimation is a most excellent Machine. If it were impossible to get another I could not be induced to take it down for many times its cost. Before using your Machine, unloading hay was considered by all our hardest work; and as all hands are now anxious to handle the Horse Fork, it shows very plainly that what used to be our heaviest is now our easiest work. In fact it is just what the farmer wants, and just what he cannot afford to do without after he has tried it. Believing that it will come into general use as soon as its merits are made known, and wishing you success,

I am very respectfully yours, JOHN C. BUNN.

From Mr. HARMON BEAVERS.

Lebanon, Nov. 10, 1874.

Messrs. HOFFMAN BROS.:

DEAR SIRS—I have used your Improved Hay Elevator and Conveyor for two years. Last summer I purchased of you one of the Original Double Harpoon Forks, which I consider the very best Fork in use anywhere, as it is the lightest and easiest to handle, less liable to derangement, and will take double the quantity of "Palmer's" in any kind of hay. As for the Elevator and Conveyor, that speaks for itself when working; and I consider it of as much importance to the farmer as the Mowing Machine or Reaper. Without it, to me, any Hay Fork would be of no use whatever, believing that it is true economy for all farmers to avail themselves of the best labor-saving implements, and as such I can cheerfully recommend your "Improved Hay Elevator and Conveyor."

Very truly yours, HARMON BEAVERS.

IN CONNECTION WITH OUR ELEVATOR AND CONVEYOR, WE ALSO
MANUFACTURE A

Horse Fork Pulley,

ENTIRELY OF IRON, WITH SWIVEL HOOK.

The Pin is large and turned true, and the Wheel of extra size. In strength, style and finish this Pulley is *unequalled* by any in the market, and cannot fail to please in every respect.

Every Machine, when properly put up, is warranted to give entire satisfaction.

RETAIL PRICE LIST

OF

Improved Elevator and Conveyor, with Elevating Pulley, and Improved Bumper and Bolts,.....	\$30 00
Hoffman's Horse Fork Pulleys, per set (of 3),.....	5 00
Nellis' Original Double Harpoon Fork,.....	12 00
Palmer's Four-Tined Fork,.....	10 00
Harris' Double Harpoon,.....	10 00

Any kind of Fork, Pulleys, Grapples and Rope furnished on short notice, at the lowest possible price.

In sections where we have no Agent to represent our Machine, to any responsible Farmer ordering six at one time, we will send one extra for getting up club.