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Fig. 2.

Witnesses

Inventor:

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Letters Patent No. 83,007, dated October 13, 1868.

IMPROVEMENT IN HAY-ELEVATOR.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern :

Be it known that we, NELSON C. THOMAS and JACOB H. COE, of Brighton, in the county of Livingston, and State of Michigan, have invented a certain new and useful "Apparatus for Elevating and Conveying Hay;" and we do declare the following to be a true and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and making part of this specification, in which—

Figure 1 is a perspective view, and

Figure 2 is a longitudinal section of the "conveyer."

The object of our invention is to construct an apparatus, by which we can elevate hay or straw from a wagon on the ground-floor of a barn to the upper part of the same, conveying it along to a proper place in the "bay," and there dump or discharge it.

A is a screw-hook, secured to a rafter over the side of the "floor" of the barn. B is a screw-hook secured to a rafter at the further end of the "bay." C is a tail-block, secured to the hook B. D is a rope, tightly stretched between the tail-block C and the hook A, and "tautened," when necessary, by the nuts E on the screw-hooks, at the back of the rafters. F is a stop, secured to the rope D, in a proper position. G is a hanging pulley, secured to the hook A. H is a "conveyer," supported by the grooved pulleys I I, and travelling on the rope D. J is a cord, passing over the pulley G, secured to the conveyer H by the bail K, and provided at its lower end with the weight M, for the purpose of drawing the conveyer H forward to the stop F. N is a forked curved lever, pivoted to the conveyer H, at O, its forward end being provided with a latch, P, its forked end being supported by the pins Q, and stopped at a proper point by the pins R, in the sides of the conveyer H. The forked end of the lever being the heaviest, its weight causes the latch P to engage with the stop F. S is the elevating and conveying-rope, passing over and through the tail-block C, over the sheaves T in the conveyer H, and down towards the hay-wagon on the floor of the barn, and provided with the tripper U, to which is suspended

any proper self-acting hay-fork, which is represented by the small weight V. W is a weight, representing the hay elevated and conveyed to its proper position in the "bay."

Having thus described our invention, and named its various parts, we will now proceed to explain the method of operating the same, premising, however, that the conveyer H is drawn forward to the stop F, by the weight M.

A wagon loaded with hay being drawn on to the floor of the barn, directly under the conveyer, the elevating-rope S, which is intended to be operated by horses, is slackened, the weight of the fork, (represented by the small weight V,) bringing it down. The fork being inserted in and taking up a portion of the hay, the horses attached to the other end of the rope S, running over proper guide-pulleys, are started forward, when the hay-fork, with its "charge," is hoisted, until the tripper U striking the curved lever N, raises the same, and disengages the latch P from the stop F; the conveyer H then travels along the tight rope D, with the load suspended therefrom, until the proper position in the "bay" is reached, when the horses are stopped, and the "charge" or load in the fork is dumped. The elevating-rope S is then slackened, when the conveyer is drawn forward by the cord J and weight M, until it reaches the stop F, the latch P engaging with the same, and holding the conveyer in its proper position for again proceeding as above described.

What we claim as our invention, and desire to secure by Letters Patent, is—

The conveyer H, when constructed as described, travelling on the rope D, provided with stop F, having pivoted in it the lever N, and operating in combination with the ropes S and J, screw-bolts A, with hand-nuts E and blocks C G, all arranged and operating substantially as described.

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Witnesses :

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