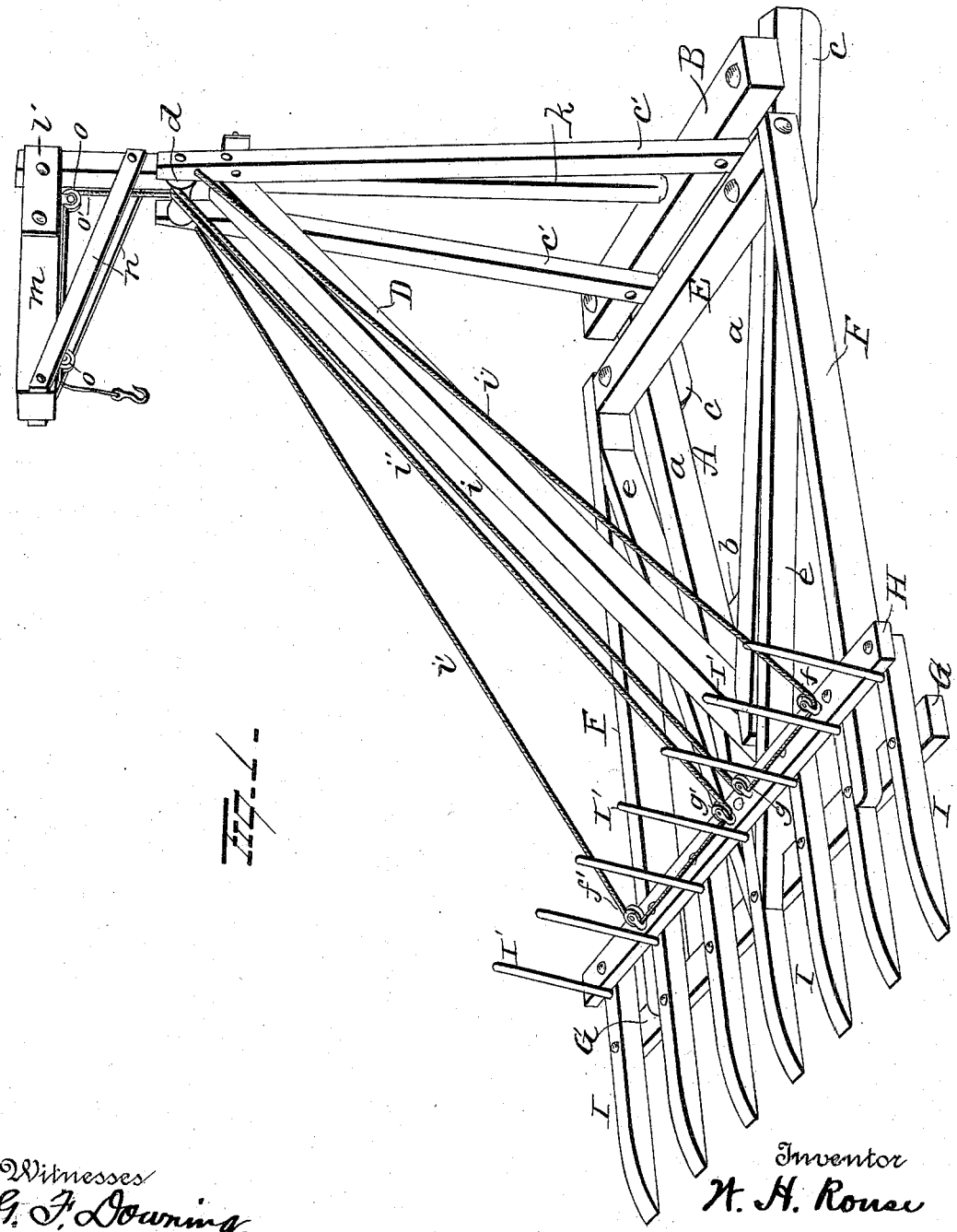
(No Model.)

2 Sheets—Sheet 1.

W. H. ROUSE.

COMBINED HAY STACKER AND LOADER.

No. 526,367. Patented Sept. 18, 1894.



Witnesses
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(No Model.) 2 Sheets—Sheet 2.

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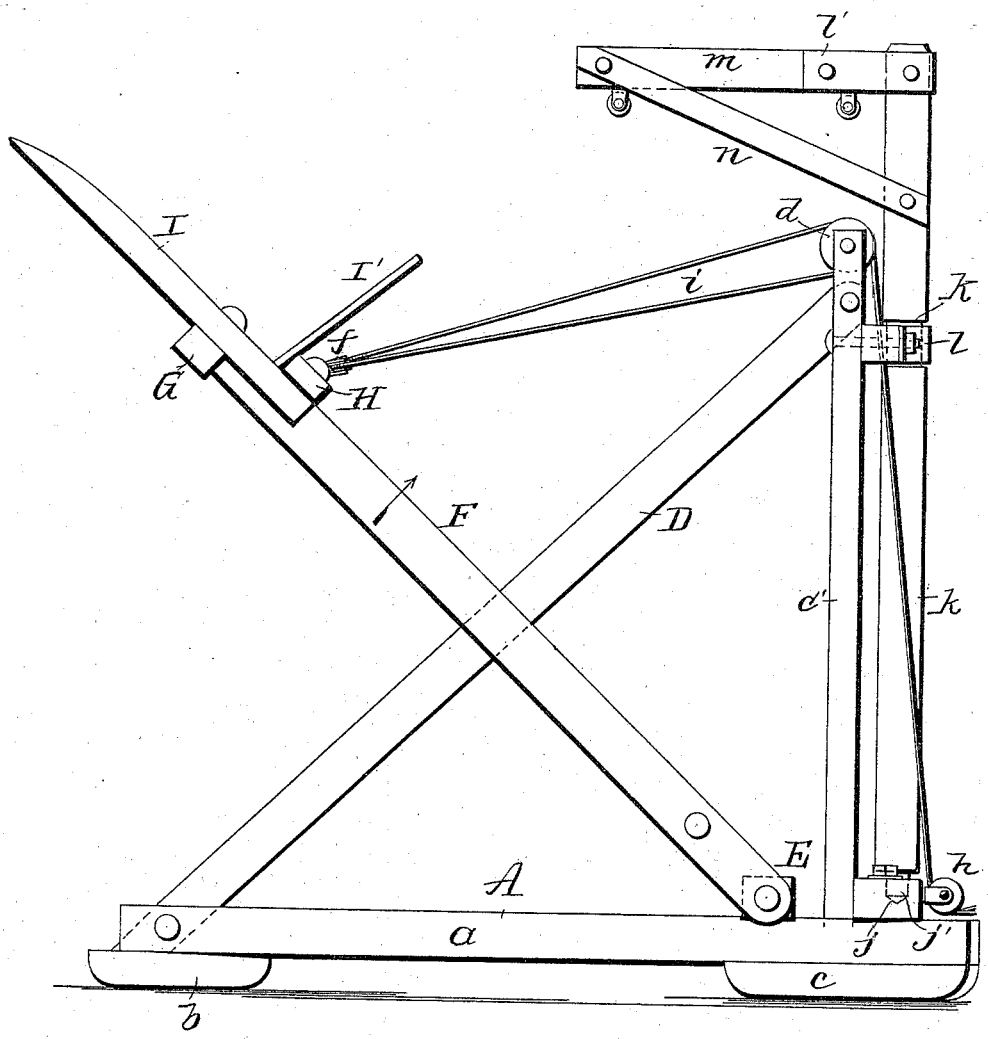
Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM HENRY ROUSE, OF FAIRMONT, MINNESOTA.

COMBINED HAY STACKER AND LOADER.

SPECIFICATION forming part of Letters Patent No. 526,367, dated September 18, 1894.

Application filed July 14, 1893. Renewed August 27, 1894. Serial No. 521,468. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY ROUSE, a citizen of Fairmont, in the county of Martin and State of Minnesota, have invented certain new and useful Improvements in a Combined Hay Stacker and Loader; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improved combined hay stacker and loader,—the object of the invention being to produce an apparatus of the class stated which shall be simple in construction and effectual in the performance of its functions.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts as hereinafter set forth and pointed out in the claim.

In the accompanying drawings: Figure 1 is a perspective view illustrating my improvements. Fig. 2 is a side view.

A represents a horizontal frame comprising two beams *a*, *a* arranged preferably in V-shape and at their forward ends are secured to a shoe *b*. Shoes *c* are also preferably secured to the under sides of the beams *a*, *a* at their rear ends. A cross beam B is secured at its ends to the rear ends of the beams *a*, *a*, and to this cross bar two upright beams *c'*, *c'*, are secured, said upright beams being so disposed as to produce a vertical A-shaped frame. Between the uprights *c'*, preferably near their upper ends, a diagonal beam or brace D is secured, the lower end of said diagonal beam or brace being secured between the forward ends of the horizontal beams *a*, *a*. Between the uprights *c'* above the connection of the brace D therewith, a roller or pulley *d* is mounted, for a purpose which will be hereinafter explained.

In advance of the cross bar or beam B, a second cross bar E is secured to the V-shaped frame A and is adapted to project at its ends laterally from the same. To the ends of the cross bar or beam E, two forwardly projecting, parallel beams F, F, are pivotally connected, said parallel beams terminating at their forward ends beyond the frame A and to their under sides a beam G is secured. Braces *e* are secured at their rear ends to the parallel beams F at a point in proximity to the rear ends of the latter, and at their forward ends said braces are secured to the beam G at or near its center. A beam H is secured on the parallel beams F and the braces *e* and at its ends projects laterally from said parallel beams as does also the beam G. Secured to the top of the beam G and to the under side of the beam H is a series of forwardly projecting fingers I, each being provided at its rear end in proximity to the beam H, with upwardly and slightly rearwardly projecting guard fingers I'. In proximity to the ends of the beam H pulleys *f*, *f'*, are located, and at or near the center of said beam pulleys *g*, *g'* are located. A pulley *h* is also located on the rear side of the cross beam B. Cords or ropes *i*, *i'* are secured at one end to the upper ends of the uprights *c'*, *c'*. From its connection with the upright *c'*, the cord or rope *i* is extended forwardly and downwardly and passed about the pulley *f* on the cross bar H, from which it extends to and is passed over the pulley *g*, at the center of said cross bar or beam. From the pulley *g* the rope or cord *i* extends upwardly and is passed over the roller or pulley *d* at the top of the uprights *c'* and after passing off the pulley or roller *d* the rope or cord *i*, extends downwardly and passes over the pulley *h* and is then extended laterally from the apparatus and adapted to be attached to a suitable whiffletree. The cord or rope *i'* extends from its connection with one of the uprights *c'*, downwardly and passes first over the pulley *f*, then over the pulley *g'*, then upwardly and over the pulley *d*, then downwardly and over the pulley *h* and is then extended laterally from the apparatus and adapted to be connected with the whiffletree in the same manner as the cord or rope *i*.

From this construction and arrangement of parts it will be seen that when a team is attached to the whiffletree to which the cords or ropes *i*, *i'* are adapted to be attached, and driven off laterally from the apparatus, the frame pivotally connected to the cross beam E will be raised and the hay on the fingers at the forward end of said frame will be elevated and deposited on the stack.

In order to render my apparatus capable of removing hay from the stack and loading it onto a wagon, I provide a derrick, a description of which will now follow. The cross beam B is made with a socket *j*, for the reception of a tenon *j'* at the lower end of the upright or standard *k* of the derrick, said tenon being adapted to fit loosely in the socket *j* so that the upright can turn freely. The upright *k* will preferably be made angular in cross section, and at a point *k'* between its ends is made round, so that it can oscillate freely in a bracket *l* secured to the uprights *c*, *c*. At the upper end of the oscillatory upright or standard *k*, a laterally projecting bar or beam *m* is secured by means of a metal strap *l'*, and said laterally projecting bar or beam is braced by means of bars or braces *n*, *n*, secured at one end to the free end of said laterally projecting bar or beam and at the other end to the oscillatory standard.

The laterally projecting beam *m* of the derrick is provided with suitable pulleys *o*, *o*, for the accommodation of a rope *o'*, to which a hay sling, a hay fork, or other desired device can be attached.

My improvements are simple in construction, comprise few parts, are cheap to manufacture, will operate freely without cramping, and are effectual in the performance of their functions.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with a hay stacker, consisting essentially of an oblong horizontal frame or body, an upright frame secured to the rear end of the horizontal frame, a brace connecting the upper end of the upright frame with the forward end of the horizontal frame, a movable frame pivoted at its rear end to the rear end of the horizontal frame, and means for lifting the front end of said movable frame, of a derrick loosely supported in bearings carried by the horizontal and upright frames.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM HENRY ROUSE.

Witnesses:
B. F. VOREIS,
PAUL W. ANTHONY.