(No Model.)

J. H. MOORE.

HAY STACKER.

No. 428,850. Patented May 27, 1890.

Fig. 1

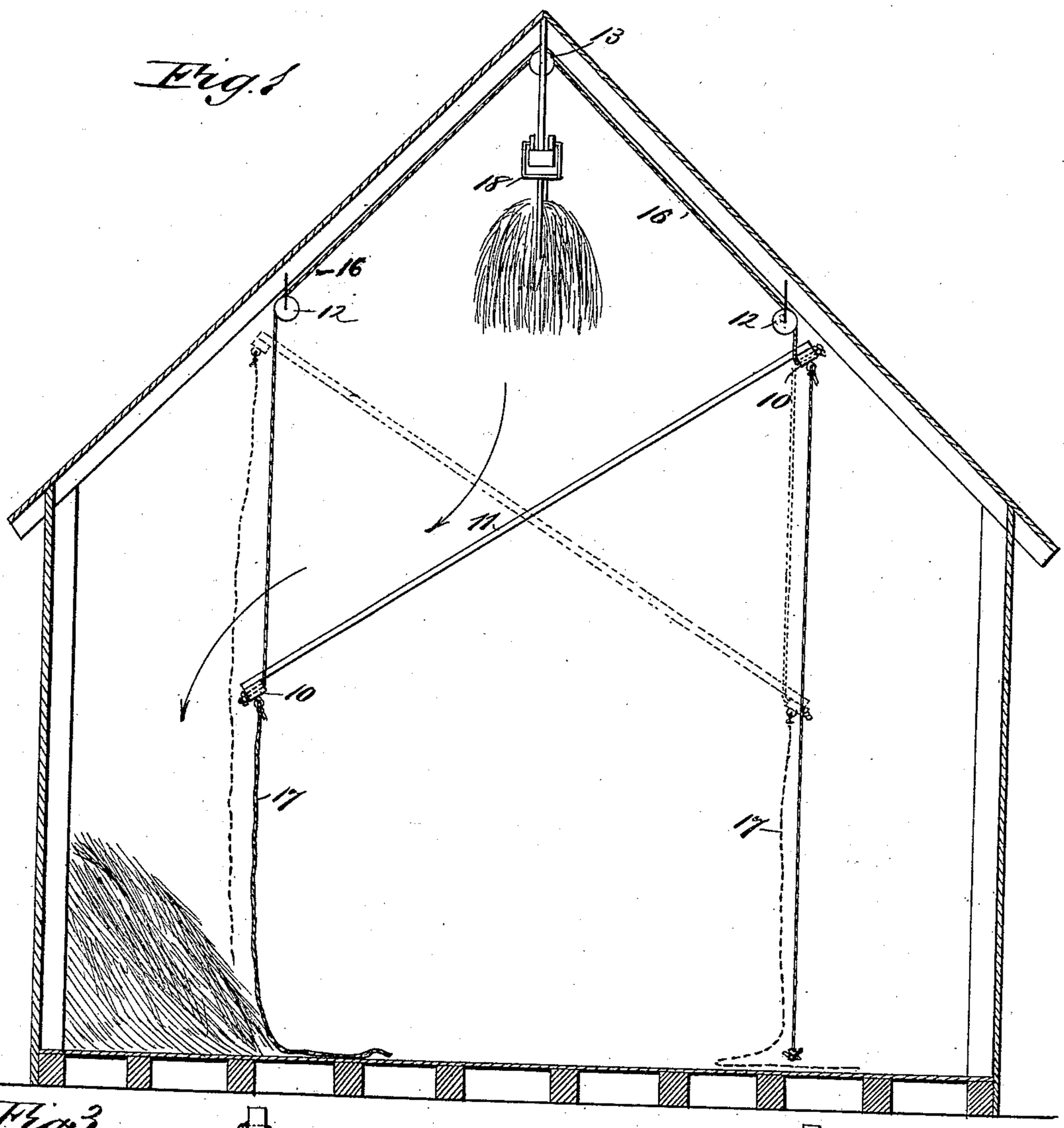


Fig. 3

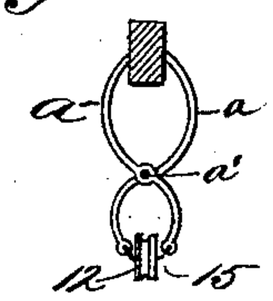
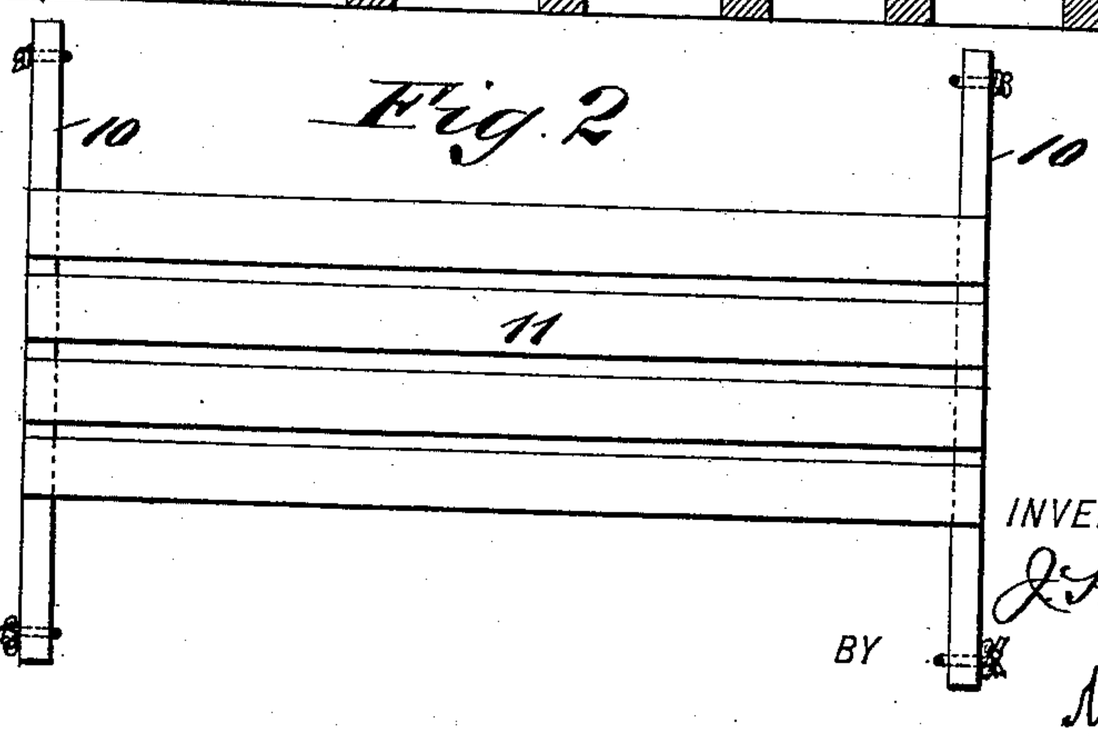


Fig. 2



WITNESSES:

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JOHN H. MOORE, OF PLESSIS, NEW YORK.

HAY-STACKER.

SPECIFICATION forming part of Letters Patent No. 428,850, dated May 27, 1890.

Application filed January 22, 1890. Serial No. 337,685. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. MOORE, of Plessis, in the county of Jefferson and State of New York, have invented a new and useful Improvement in Hay-Stackers, of which the following is a full, clear, and exact description.

My invention relates to an improvement in hay-stackers, and has for its object to provide a slide or chute adapted for attachment within a barn, whereby the hay elevated by the fork or sling may be directed to the sides of the mow or to the center, as desired.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters and figures of reference indicate corresponding parts in all the views.

Figure 1 is a transverse section through a barn having my invention applied thereto. Fig. 2 is a plan view of the chute or slide, and Fig. 3 is a side elevation of one of the pulley-hangers employed in connection with the invention.

The chute or slide usually consists of two parallel end beams 10, the said end beams being connected by a number of strips or planks 11, which are preferably slightly spaced, as best shown in Fig. 2.

Near each end of the barn two horizontal aligning pulleys 12 are attached to the roof-rafters or purlin-plates, and two more pulleys 13 are attached to the center of the roof immediately beneath the ridge pole or beam, as best illustrated in Fig. 1.

In order that the pulleys 12 and 13 may be quickly applied or expeditiously removed, or their positions shifted when occasion may demand, I construct the hangers of the pulleys as illustrated in Fig. 3, wherein it will be observed that two essentially **S**-shaped members *a* are pivoted one upon the other by a suitable pintle *a'*, and the lower extremities of the said members are connected by a rope, chain, or rod 15, upon which the pulley is held to turn. By this construction the upper extremities of the members of the pulley-hanger correspond with the gripping ends of a pair of tongs. Thus when the said gripping ends are made to contact with the opposite side faces of a rafter, as shown in Fig. 3, the said gripping extremities of the hanger are made to cling tightly to the rafter by the weight applied to the pulley.

The extremities of the chute or slide beams 10 are connected by ropes 16, the ropes upon one side of the chute or slide being made to pass over one set of pulleys 12 and 13 and the ropes at the other side over another set of pulleys, and to the under surface of each of the end beams 10 of the chute or slide a rope, chain, or cord 17 is attached, of sufficient length to extend downward to the floor of the barn.

If it is desired to deliver the hay upon the left-hand side of the mow, the left-hand cord 17 is drawn upon, whereupon the left-hand end of the chute or slide will be lowered and the right-hand end carried upward essentially to a contact with the pulleys upon that side, thereby giving the chute or slide the inclination to the left, as shown in positive lines in Fig. 1. When the chute or slide is in this position and the hay is elevated by means of any suitable form of fork or sling 18, when the hay is dropped from the said fork or sling, it will fall upon the inclined surface of the slide and will drop at the left-hand side of the mow.

To deliver the hay to the right-hand side of the mow, the right-hand cord 17 is pulled downward, whereupon the left-hand extremity of the chute or slide is elevated and the said slide made to incline to the right, as shown in dotted lines in Fig. 1.

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

The combination, with hangers consisting of two pivoted members having a gripping upper end and a pulley held to turn between the lower ends, of a chute or slide consisting of parallel end beams connected by a series of body-strips, a rope located at each side of said chute, the extremities whereof are secured to the end beams of the chute, the said ropes being adapted to pass over the pulleys in the hangers, and ropes secured to the under surface of the chute or slide at its ends, substantially as and for the purpose specified.

JOHN H. MOORE.

Witnesses:
JOHN H. SCOTT,
CHARLES NASH.