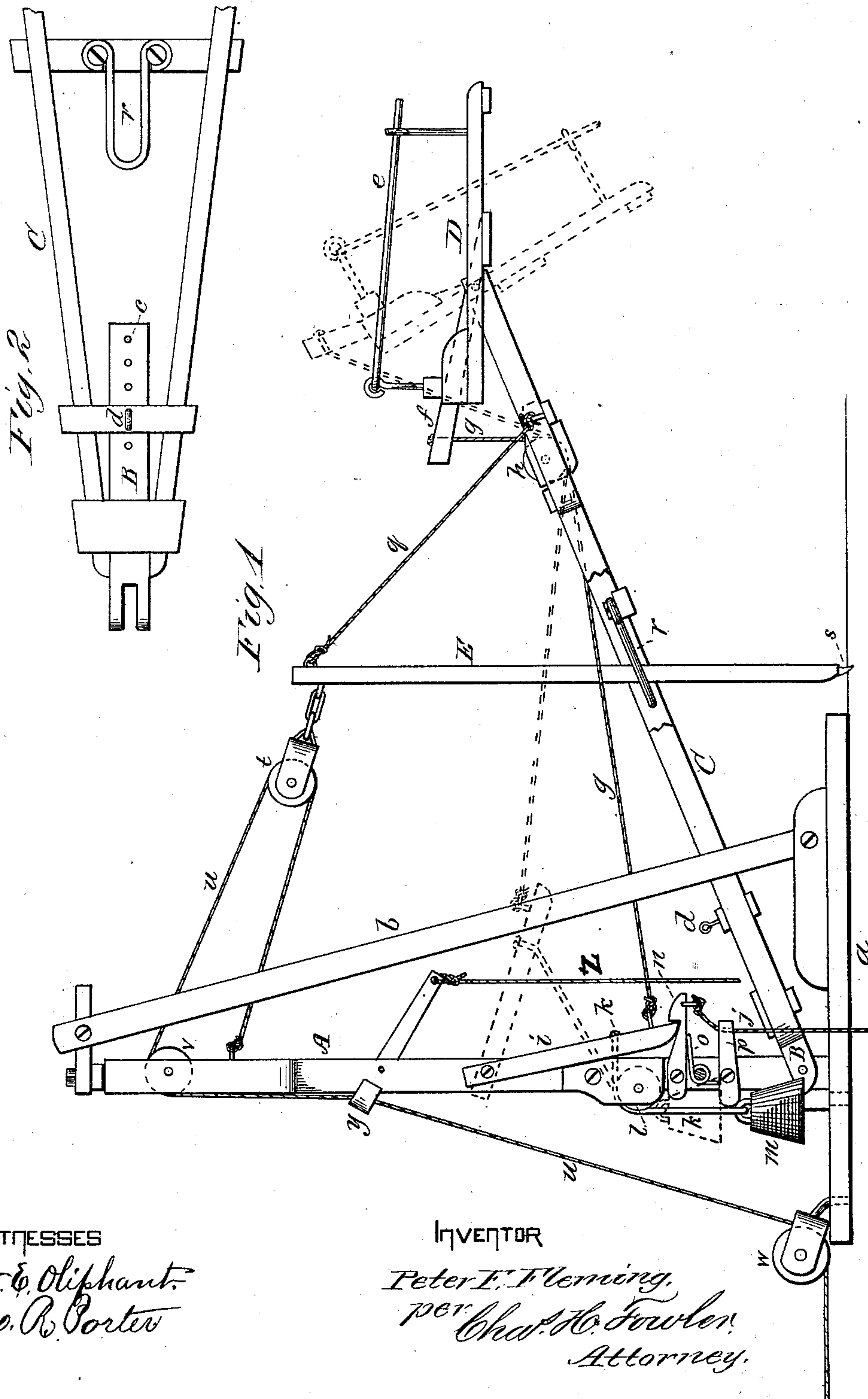


P. F. FLEMING.  
Hay and Straw Stacker.

**No. 222,685.**

Patented Dec. 16, 1879.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

PETER F. FLEMING, OF SALISBURY, MISSOURI.

## IMPROVEMENT IN HAY AND STRAW STACKERS.

Specification forming part of Letters Patent No. 222,685, dated December 16, 1879; application filed May 20, 1879.

*To all whom it may concern:*

Be it known that I, PETER F. FLEMING, of Salisbury, in the county of Chariton and State of Missouri, have invented a new and valuable Improvement in Hay and Straw Stackers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my invention. Fig. 2 is a detailed view of a portion of the elevating-frame.

This invention has relation to devices for stacking hay; and the object thereof is to provide a simple and effective means for receiving and discharging the load from a forward-tilting platform operated by suitable tackle-weights and latches, as will be hereinafter described, and subsequently pointed out in the claims.

In the accompanying drawings, A represents a suitable standard secured to a convenient base, *a*, said standard being braced by stay-rods *b*, or otherwise supported in an upright position. Near the lower end of the standard A is pivoted a tongue, B, formed with a series of holes, *c*, for securing thereto a suitable frame, C, by pin *d*. The standard A is so connected to the base *a* and to the upper ends of the stay-rods *b* as to admit of its freely turning upon its axis or rotating horizontally, so that the frame C can be swung to the right or left, as circumstances may require, in receiving or discharging the load; and the frame may also be adjusted to or from the standard A, to increase or decrease the distance from the standard to the carriage or platform, thereby accommodating it to the position and height of the stack.

The platform or carriage D is of any suitable form and construction, provided with rails *e* around three of its sides for holding the hay or straw. This carriage is pivoted to the outer end of the frame C, and therefore acts as a tilting carriage to discharge its load from the same side that receives it.

The carriage D has rigidly secured to it an arm, *f*, to which one end of a rope, *g*, is at-

tached, said rope passing down and around a pulley, *h*, the other end of the rope being connected to a catch, *i*, pivoted to the side of the standard A.

Near the lower end of the catch *i* is secured one end of a rope or chain, *k*, which passes over a pulley, *l*, and has secured to its other end a suitable weight, *m*, for keeping the lower end of the catch engaged with a pivoted latch, *n*, said latch being retained in its proper horizontal position by a coiled, flat, or other suitable spring, *o*. The free or outer end of the latch *n* has secured to it a rope or cord, *j*, which passes through a guide, *p*, whereby the latch may be disengaged from the catch when it is desired to dump the load from the carriage D.

Suitably connected to the outer end of the frame C, upon the sides thereof, are ropes *q*, their upper ends being secured to the upper end of a fulcrum-post, E, the lower end thereof passing through a yoke, *r*, and having a spur, *s*, for penetrating the base *a* or the ground, as may be required.

From the upper end of the post E is suspended a pulley, *t*, around which passes a suitable rope, *u*, one end of which is fastened to the standard A, and the other end passing over a pulley, *v*, and down and around a pulley, *w*, where it may be under the control of the operator.

In operating the device the frame C, with its tilting carriage D, is swung around to the required position to receive the load, after which the outer end of the frame, with the carriage, is elevated by the rope *u* to the required height for discharging the load upon the stack.

When it is desired to discharge the load the free end of the latch *n* is depressed by the cord or rope *j*, which releases the catch *i*, and the weight of the load, overcoming the weight *m*, automatically tilts at a sufficient angle to deliver the load upon the stack, as illustrated in dotted lines. The fulcrum-post E, when elevating the load, greatly assists the horse in starting and makes the work for the animal comparatively easy. When the load has been elevated to the proper height, the carriage and frame are held there until the load is ready to be dumped by a pivoted clamp, *y*, operated by a cord, *z*.



My invention is of great importance in connection with thrashing-machines, as the carriage D can be brought in position to receive the straw direct from the machine, and the manner of connecting it to the frame C admits of the carriage having a forward-tilting motion, thereby discharging its load from the same side it receives it.

When loading hay it is desirable to remove the rails *e* and all connections projecting from the top of the carriage, in order that the hay can be drawn on by horses.

Although I have shown the frame C as being bifurcated or V shaped, I do not wish to be understood as confining my invention to this particular form, as other forms may be substituted, and the carriage D may be variously modified, so long as it is a forward-tilting carriage.

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

1. The frame C and tilting carriage D, in

combination with the rope *u* and fulcrum-post E, having spur *s* and the yoke *r*, substantially as and for the purpose set forth.

2. The standard A and pivoted tongue B, in combination with the adjustable frame C and forward-tilting carriage D, substantially as specified.

3. The frame C and carriage D, in combination with cord or ropes *u g k*, catch *i*, latch *n*, and weight *m*, constructed to operate substantially as and for the purpose set forth.

4. The frame C, carriage D, and post E, in combination with the cords or ropes *u g k*, latch *n*, spring *o*, catch *i*, and weight *m*, and the clamp *y*, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

PETER F. FLEMING.

Witnesses:

FRANK C. WICKS,  
MICHEAL NEAL.