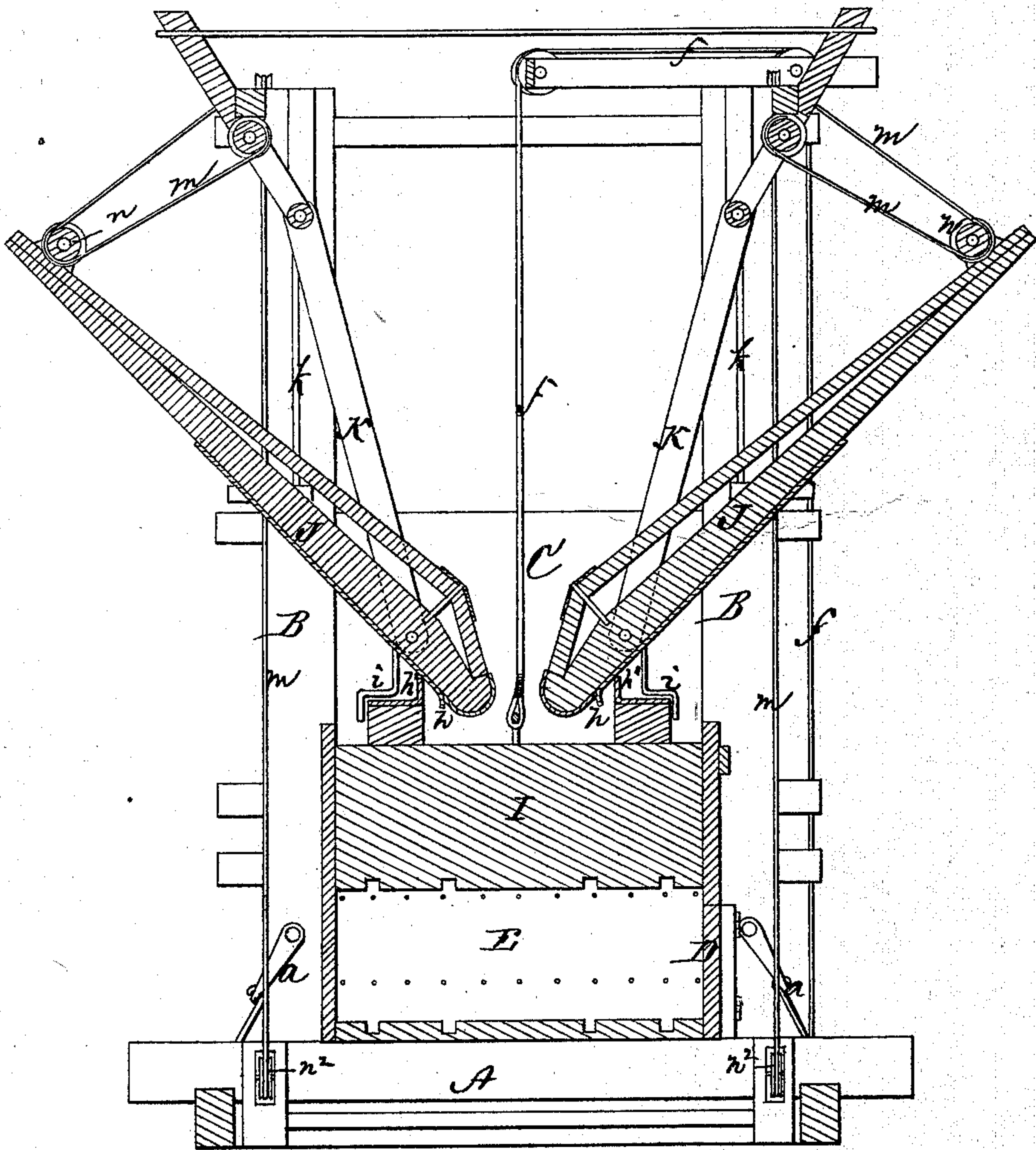


H. F. BLANK.  
Hay-Presses.

No. 144,733.

Patented Nov. 18, 1873.

Fig. 1.



Witnesses.  
George E. Upham,  
Emory H. Bates.

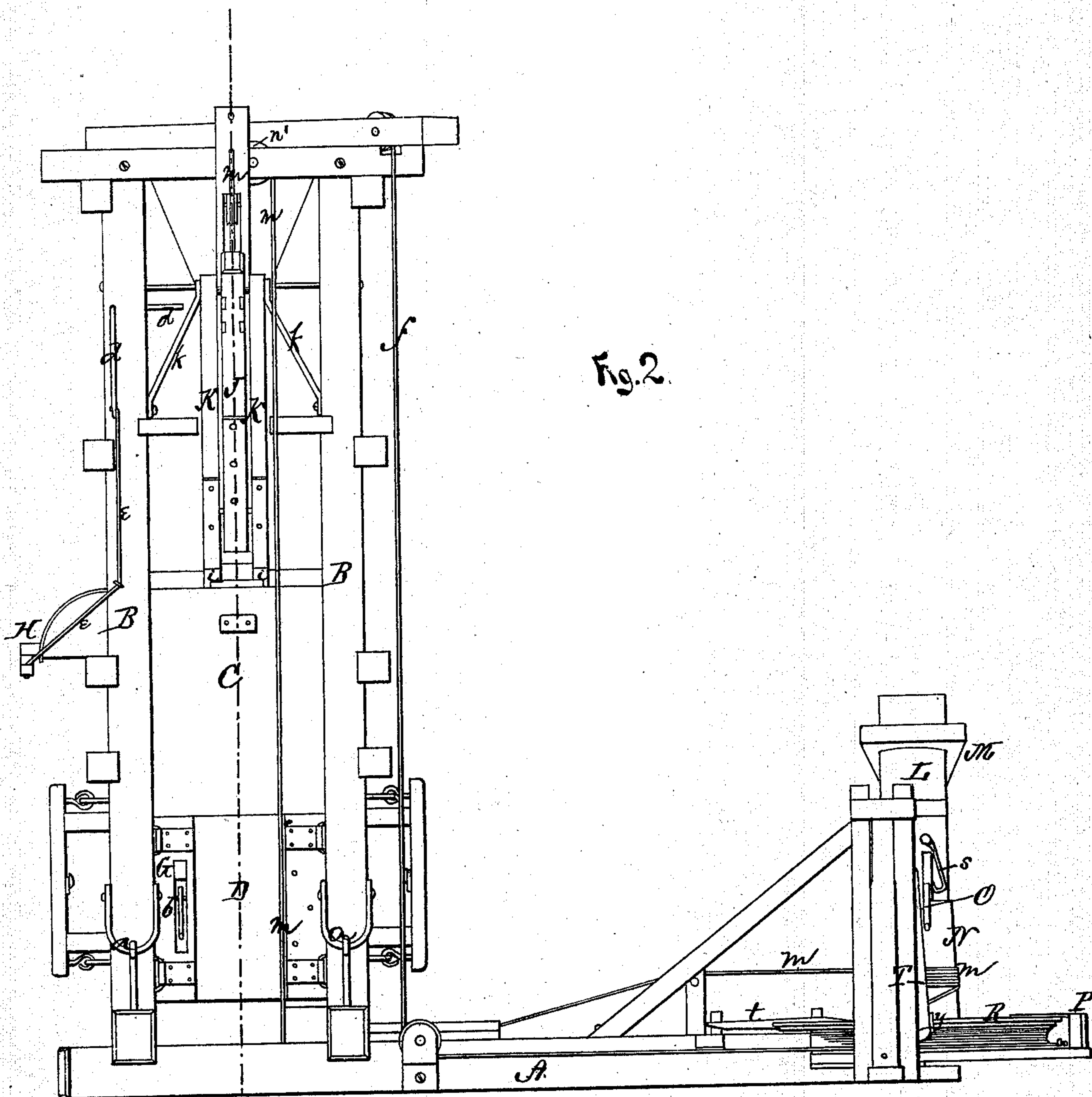
Inventor.  
Henry F. Blank,  
Chipman Foster & Co.,  
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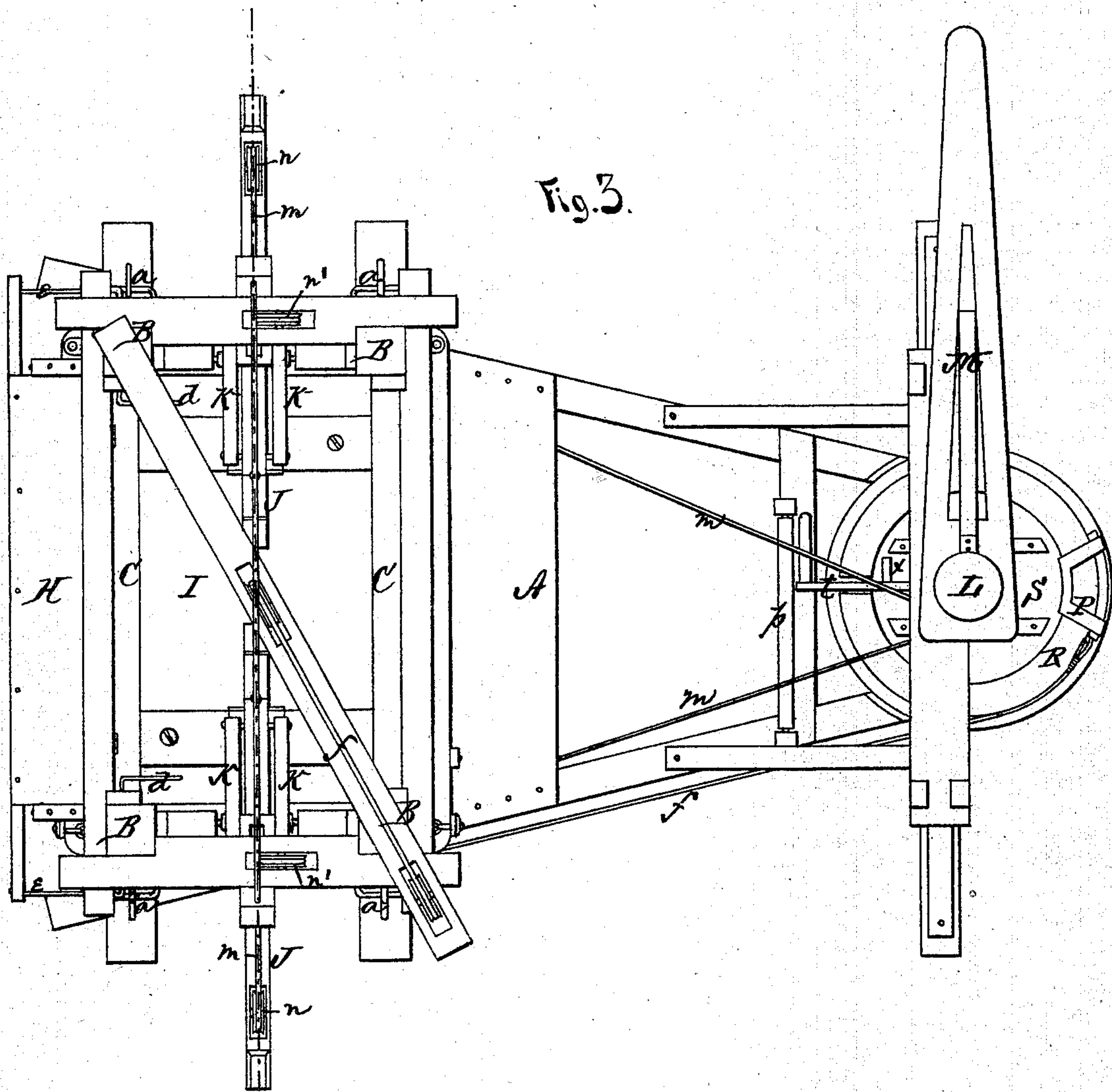


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# UNITED STATES PATENT OFFICE.

HENRY F. BLANK, OF LIBERTY, ILLINOIS.

## IMPROVEMENT IN HAY-PRESSES.

Specification forming part of Letters Patent No. 144,733, dated November 18, 1873; application filed July 26, 1873.

*To all whom it may concern:*

Be it known that I, H. F. BLANK, of Liberty, in the county of Adams and State of Illinois, have invented a new and valuable Improvement in Portable Hay-Press; 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 my press in longitudinal vertical section. Fig. 2 is a side elevation, and Fig. 3 is a plan view of the same.

The nature of my invention consists in the construction and arrangement of a hay and cotton press with horse-power, as will be hereinafter more fully set forth.

In the accompanying drawings, like letters of reference indicate corresponding parts in the several figures.

A represents the foundation of my press, to which are fastened four upright posts, B B, by means of clevises and hooks *a a*, as shown. These posts B B are suitably braced and connected, and have the bale-box C framed in them. The bale-box C is provided with a hinged door, E, on each side, for removing the bale when pressed; and at one end the box is provided with a relief-door, D, for the purpose of loosening the bale after it is pressed. The relief-door D is hinged at one end, but has only a very small movement on its hinges. It is fastened in its place while the bale is being pressed by means of a hinged bar, G, which is turned close against the outer end of the door D, and which has a hooked cam-lever, *b*, pivoted in a vertical mortise in it. This hook enters a recess in the door, and when the lever is pressed down the hook fastens on a pin in said recess, and the cam forces the door inward. After the bale is pressed, the lever *b* is raised, which releases the cam-hook, and allows the bar G to swing outward, when the door D will give sufficient to relieve the bale. On the front side, at the top of the bale-box C, is a hinged door, H, which is let down and held in a horizontal position for feeding the

box, and when the box is full it is closed by means of two crooked pivoted rods, *d d*, connected with the door by cords *e e*. I represent the follower or presser block, which is suspended by means of a rope, *f*, passing over suitable pulleys in a diagonal bar on top of the posts, and down around another pulley on the foundation A to the horse-power. J J represent the pressing-levers, one at each end, above the follower I. Each lever is at its inner end provided with a hook, *h*, to catch on a corresponding hook, *h'*, on the follower. Each lever J is pivoted between two hangers, K K, which are supported by stay-rods *k k*, and provided at their lower ends with hooks *i i*, to prevent the levers from passing too far in or out. Each lever is operated by means of a rope, *m*, fastened at the top of the frame, and passing around a pulley, *n*, at or near the outer end of the lever, then around a pulley, *n'*, in the top of the frame, down to and under another pulley, *n''*, in the foundation, to the horse-power. Near this horse-power the two ropes *m m* pass over a roller, *p*, as shown.

The horse-power is composed of an upright shaft, L, with sweep M, to which the horse or horses are attached. On the shaft L is a tapering drum, N, to which the two lever-ropes *m m* are attached. The drum N is placed loosely on the shaft, and in the shaft is pivoted a latch, O, which drops down into a notch in the drum, to cause the drum to revolve with the shaft for pressing. The latch O is held up by a hook, *s*, when raising the follower. The follower-rope *f* is attached to a shuttle-carriage, P, placed loosely upon a flange, R, which is attached to a disk, S, secured on and revolving with the shaft L, the carriage resting upon a circular disk or annular flange, forming part of the foundation. On the revolving disk S is pivoted a latch, *t*, which drops into a slot in the flange R, and catches the shuttle or carriage P, to cause the same to revolve with the flange and disk, and thus raise the follower I.

The latch *t* is raised by means of a crank, *x*, to release the shuttle P, which, when thus released, will almost invariably move suddenly

backward. T represents an upright pivoted hanger with rubber bumper *y*, to receive this backlash of the shuttle.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the hinged relief-door D with the hinged bar G and hooked cam-lever *b*, as and for the purposes herein set forth.

2. The combination of the follower I, levers J J, hangers K K, hooks *h' h'* and *i*, and the

ropes *f m*, all as and for the purposes herein set forth.

3. The pivoted upright hanger T, with rubber bumper *y*, for the purposes herein set forth.

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

HENRY FRANKLIN BLANK.

Witnesses:

G. W. LINN,

SAMUEL NAYLOR.