

J. HUFFAKER.
Hay and Cotton Press.

No. 219,479.

Patented Sept. 9, 1879.

Fig. 1.

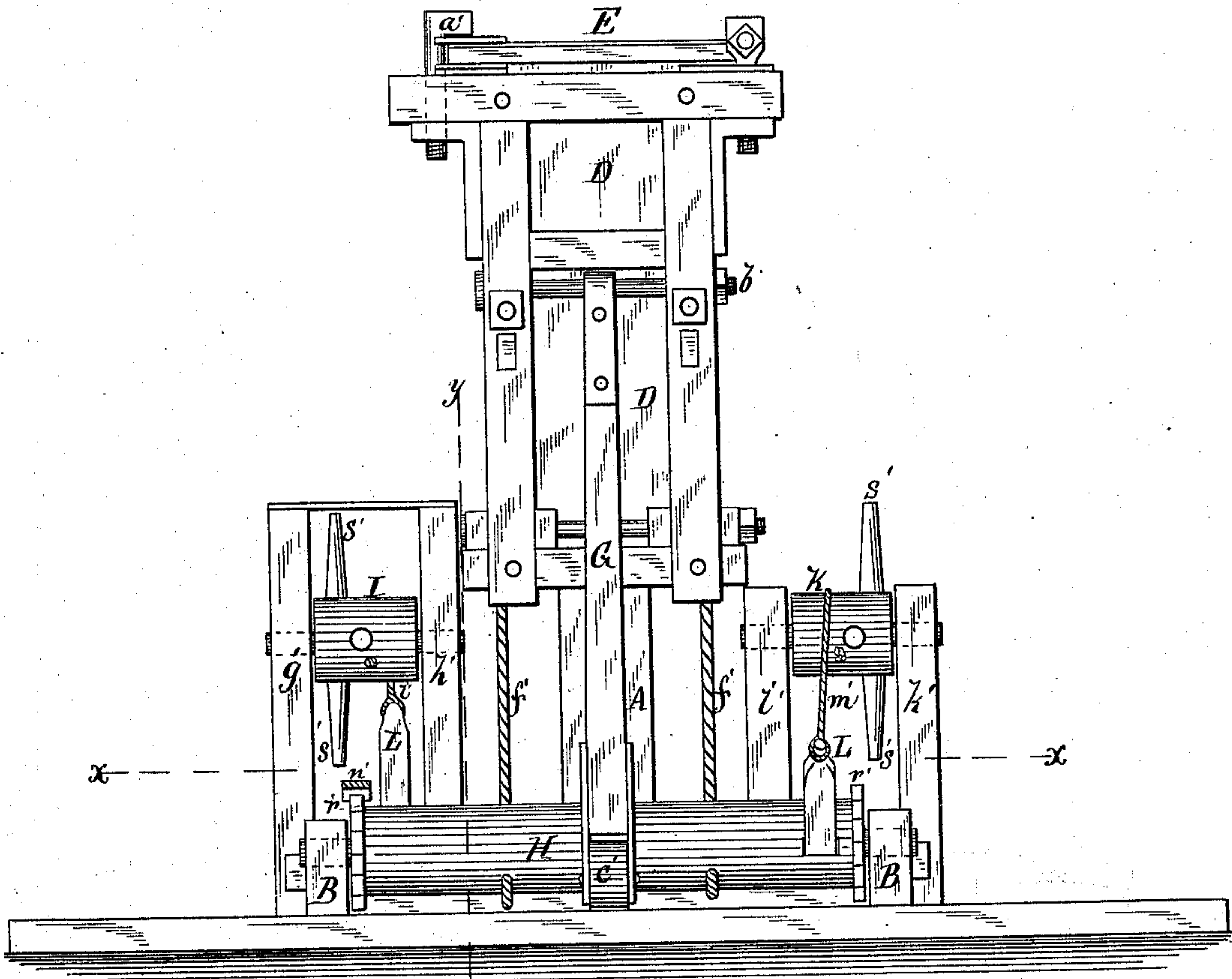
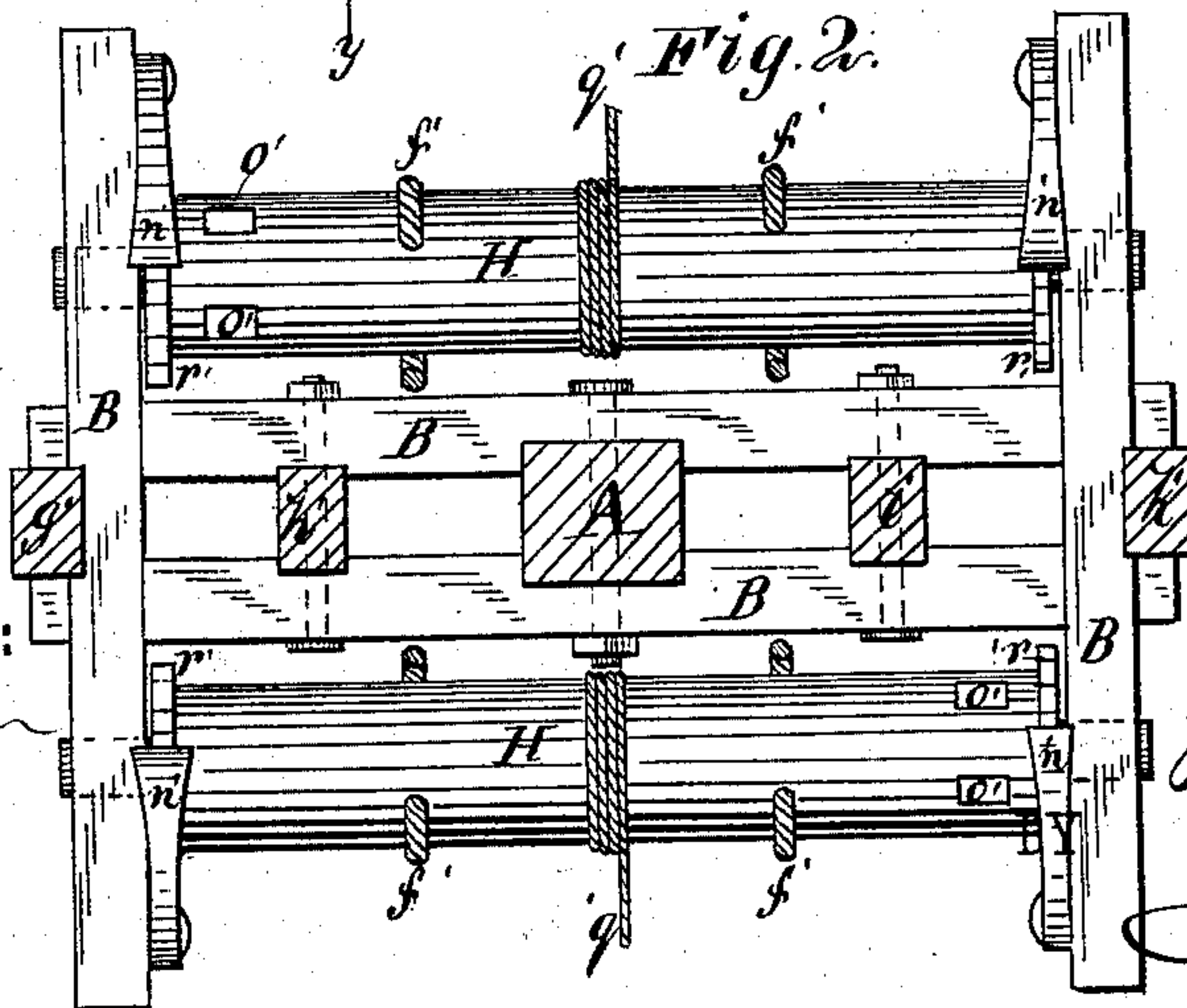


Fig. 2.



WITNESSES:

Henry W. Miller
C. Sedgwick

INVENTOR:

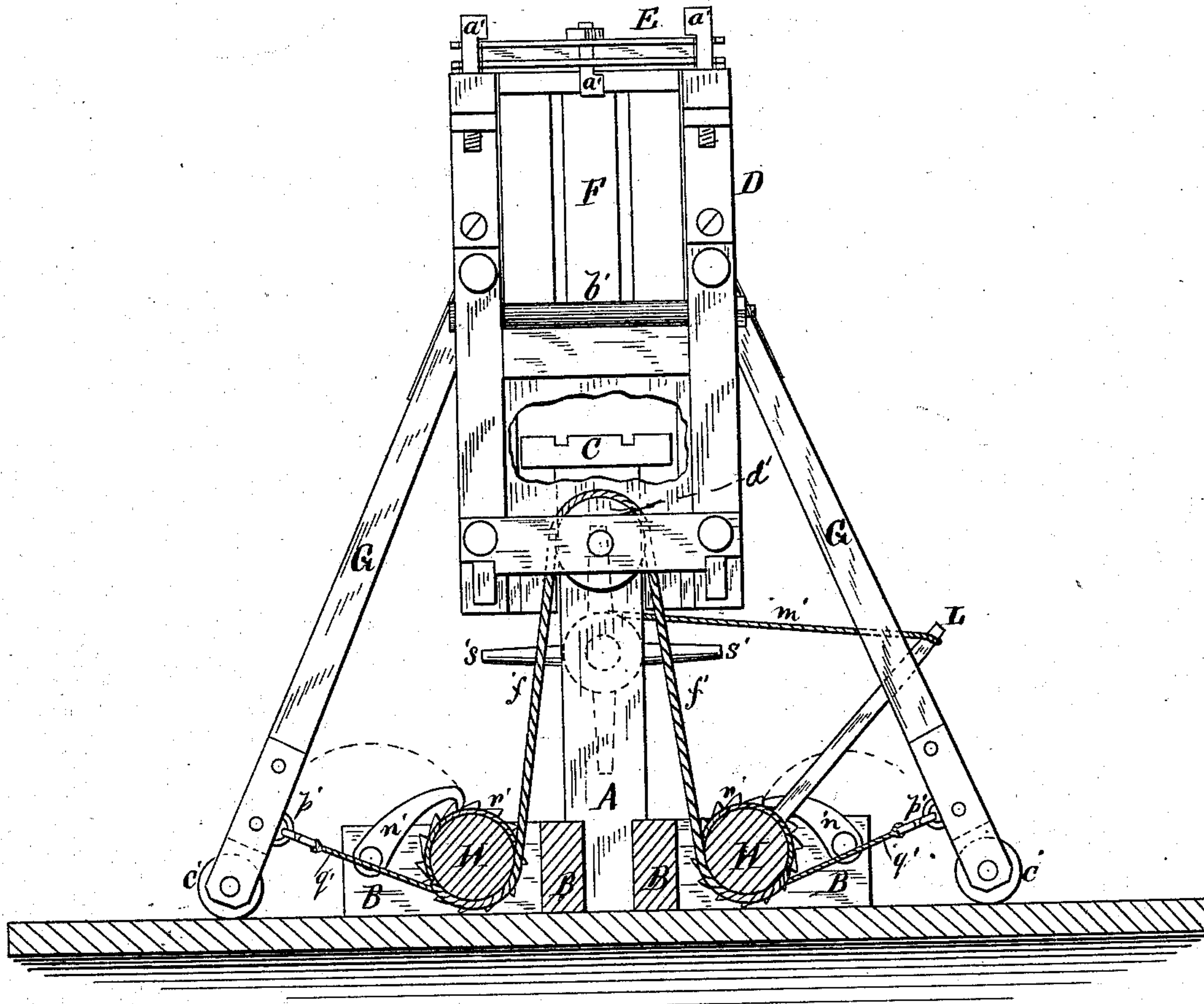
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Fig. 3.



WITNESSES:

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C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE

JACOB HUFFAKER, OF GAP CREEK, TENNESSEE.

IMPROVEMENT IN HAY AND COTTON PRESSES.

Specification forming part of Letters Patent No. **219,479**, dated September 9, 1879; application filed June 30, 1879.

To all whom it may concern:

Be it known that I, JACOB HUFFAKER, of Gap Creek, in the county of Knox and State of Tennessee, have invented a new and Improved Hay and Cotton Press, of which the following is a specification.

Figure 1 is a side elevation of the device. Fig. 2 is a cross-section of the same on line *x x*. Fig. 3 is a sectional elevation of the same on line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a novel press for hay, cotton, and other substances, that can be efficiently worked with less power than any other press of the same operative capacity.

The invention consists of an upright standard rigidly fixed in a suitable base-frame, and carrying the follower secured upon its top, while inclosing the follower is a movable press-box, that is elevated by shores whose lower ends are provided with rollers, and drawn down or depressed by ropes and rollers and winches; and it further consists in so connecting the rollers and winches and compounding their forces that the operative power may be most advantageously applied.

In the drawings, A represents the standard, rigidly fixed in the center of the base-frame B, which consists of two parallel timbers mortised into two others at right angles to them. Secured upon the top of A is the follower C, and encircling this is the press-box D, whose top is closed with the heavy hinged door E, that may be secured in place by the L-shaped screw-bolts *a'*. The press-box is also provided in its upper section with a hinged side door, F, for convenience in the pressing and baling operation.

Pivoted on rods *b'* are the shores G, whose lower ends, that rest upon the ground, are provided with rollers C'.

On opposite sides of the press-box, near its bottom, are journaled two grooved pulleys, *d'*, over which pass the ropes *f'*, whose ends are fastened in or upon the long rollers H, that are journaled in the cross-timbers of the base-frame.

Between the uprights *g' h'* and *i' k'*, respectively, are journaled the winches I and K, to which are fastened the ropes *l' m'*.

The rollers H are furnished with ratchets *r'*

on each end, on which rest the pawls *n'*, that are pivoted on the timbers of the base-frame, and have also sockets *o'*, for the reception of the removable bars or levers L.

Secured to the lower ends of the shores G by links and staples *p'* are the ropes *q'*, whose other ends are fastened, one in each roller H.

To operate the device, the press-box D is elevated by inserting the bars L in the sockets *o'* and turning the rollers H, so as to wind up the ropes *q'* and draw inward the feet of the shores G. The box is then filled with the substance to be pressed and the doors closed and secured by their fastenings. The motion of the rollers H is now reversed, so that a downward strain is brought upon the ropes *f'*, to pull the box downward and compress its contents upon the follower C. Up to a certain point the compression is effected by power applied directly to the bars L; but when a better leverage is required the loops of the ropes *l'* and *m'* are thrown over the handles of the levers L, and the power then applied directly to the spokes *s'* of the winches, and by this combination of forces or by this manner of applying power the work is easily completed.

I am aware that stationary followers and movable press-boxes have been used, and that there is no novelty in winches or rollers; hence I do not broadly claim them; but,

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

1. The within-described press, consisting of standard A, provided with follower C, base-frame B, press-box D, provided with doors E and F and screw-bolts *a'*, shores G, provided with rollers *c'*, grooved pulleys *d'*, ropes *f'*, rollers H, provided with ratchets *r'* and sockets *o'*, uprights *g'*, *h'*, *i'*, and *k'*, winches I and K, provided with spokes *s'* and ropes *l'* and *m'*, bars L, links and staples *p'*, and ropes *q'*, constructed and arranged substantially as herein shown and described.

2. In the construction of a cotton and hay press, the combination of winches I and K with the bars L and rollers H, substantially as herein shown and described.

JACOB HUFFAKER.

Witnesses:

G. W. ADNEY,

J. J. ATKINS.