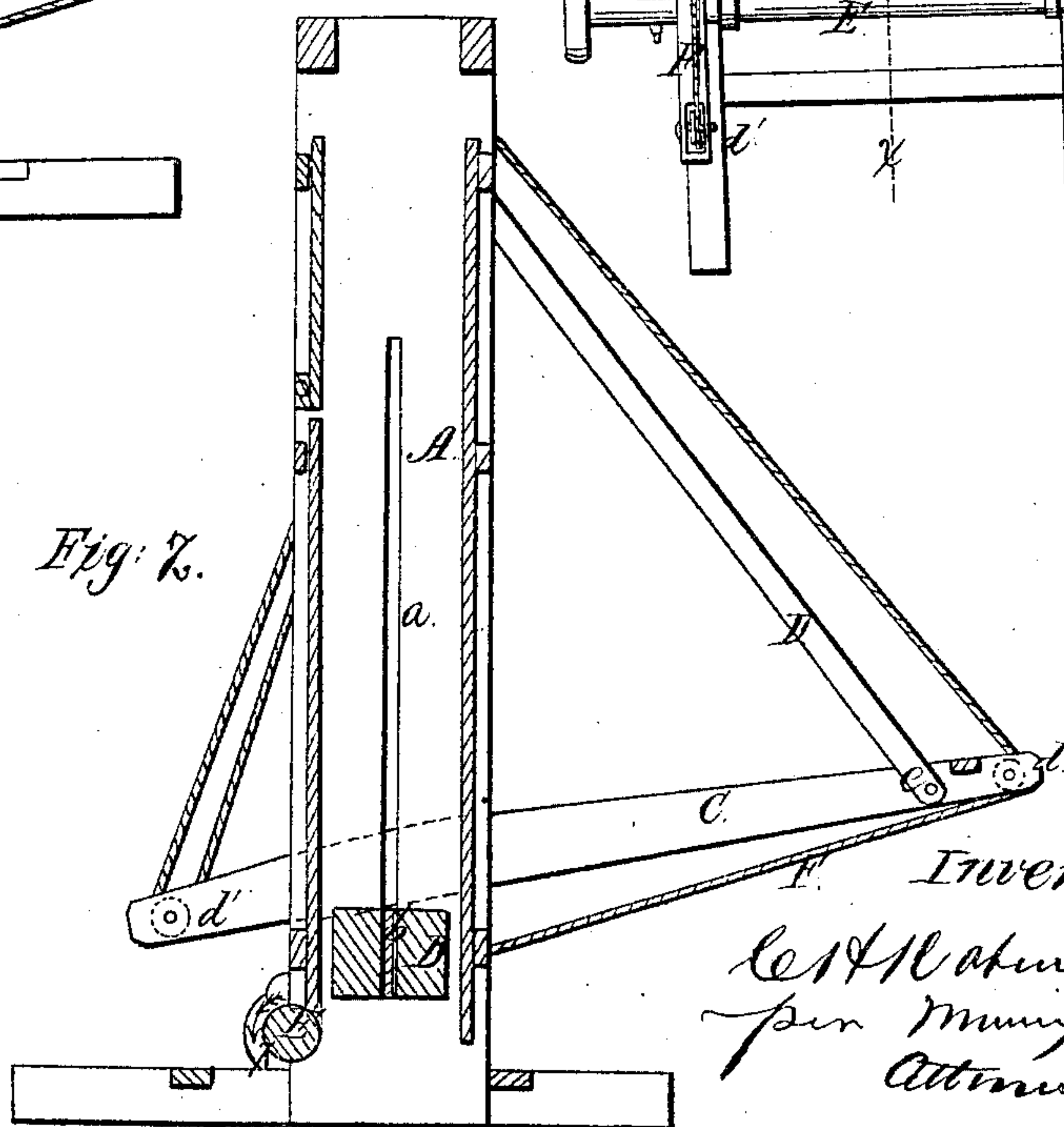
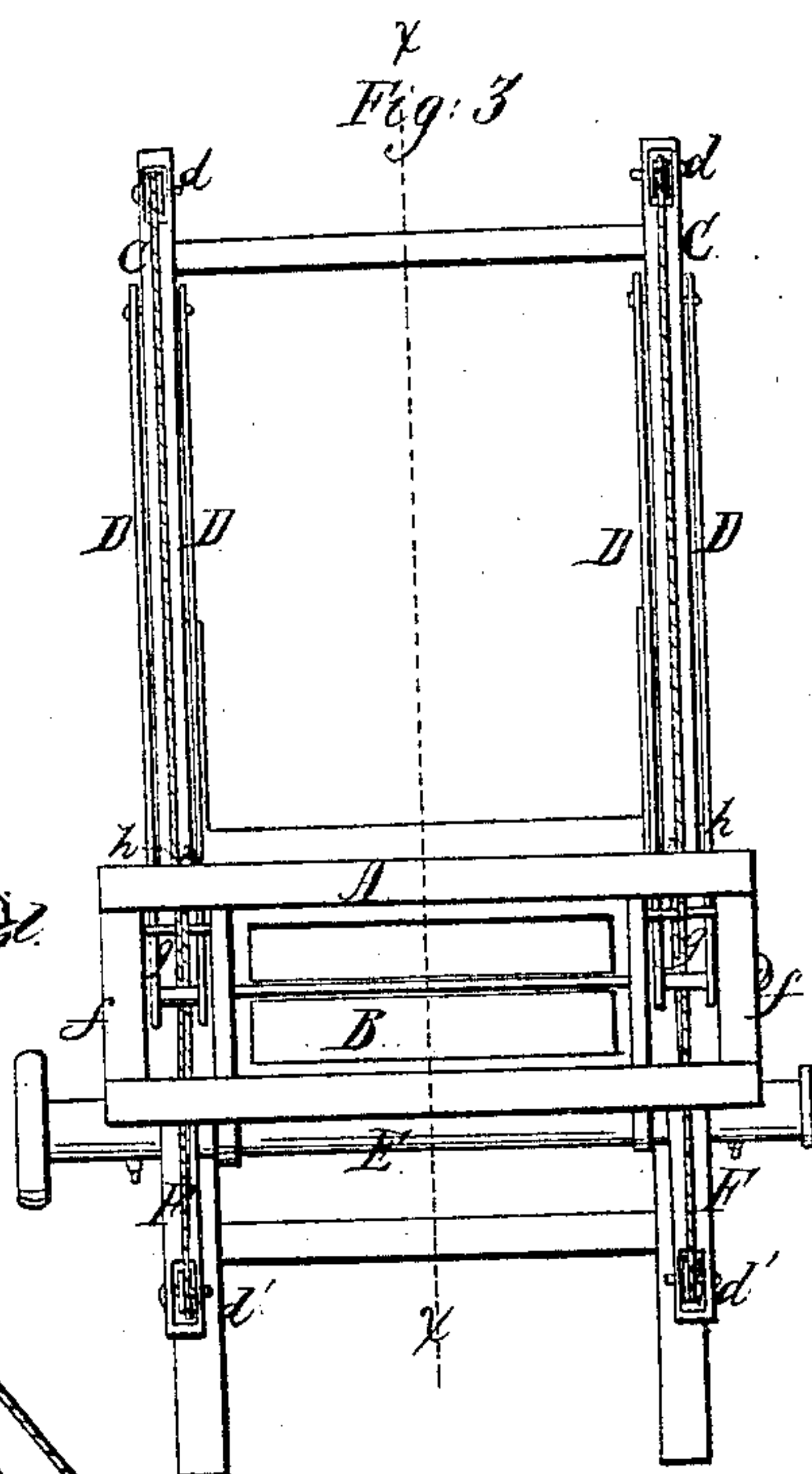
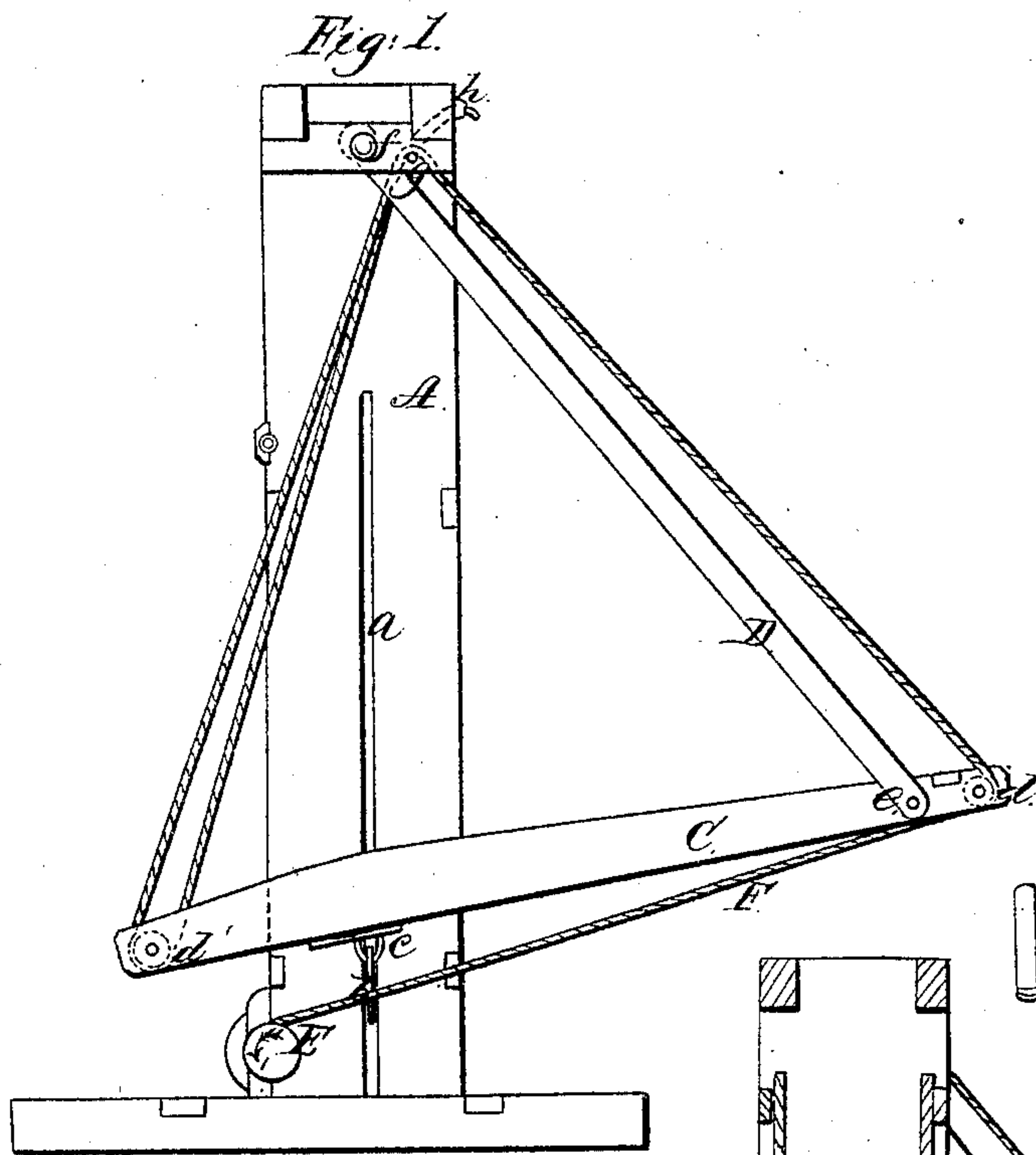


C. H. Robinson,
Hay Press,
No. 45,863, Patented Jan. 10, 1865.



Witnesses:
Henry Allen
C. L. Topleff.

Inventor:
C. H. Robinson
per Murray & Attorneys.

UNITED STATES PATENT OFFICE.

CHAS. H. ROBINSON, OF BATH, MAINE.

IMPROVED BALING-PRESS.

Specification forming part of Letters Patent No. 45,863, dated January 10, 1865.

To all whom it may concern:

Be it known that I, CHARLES H. ROBINSON, of Bath, in the county of Sagadahoc and State of Maine, have invented a new and Improved Baling-Press; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the arts to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my invention; Fig. 2, a vertical section of the same, taken in the line *x x*, Fig. 3; Fig. 3, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved baling-press of that class in which levers and a windlass are employed for elevating the follower.

The invention consists in a novel arrangement of levers, bars, or arms, and a windlass, as hereinafter fully set forth, whereby a very simple and efficient means is obtained for operating the follower, and one which will work with but little friction.

A represents an upright press-box, in which a follower, B, of usual or any other proper construction, is placed. The narrow sides of this press-box have each a vertical slot, *a*, made in them, through which metal plates *b b*, attached to the ends of the follower B, pass loosely, and these plates are connected by eyes *c* or other suitable fastenings to levers C C, in the ends of which pulleys *d d'* are placed, as shown in Fig. 3, and by dotted lines in Figs. 1 and 2. The levers C are connected, near one end, to the plates *b* of the follower, and to the long arms of the levers C, near their ends, the lower ends of bars D are attached by pivots *e*, the upper ends of said bars being attached by pivot-bolts *f* to the upper part of the press-box. Two bars, D D, are attached to each lever C—one at each side—so that the levers may work

or pass between them, as shown clearly in Fig. 3.

E is a shaft at the lower part of the press-box A, and having ropes F F attached to it, which pass around the pulleys *d* in the outer ends of the long arms of the levers C, thence upward over sheaves or rods *g* at the upper end of the press-box, and down around the pulleys *d'* in the outer end of the short arms of the levers C, and thence upward to the upper part of the press-box, where they are secured at *h*.

From this description it will be seen that by turning the shaft E in the direction indicated by arrow 1 the ropes F will be wound upon said shaft and the long arms of the levers C drawn downward, and the short arms of the same with the follower B moved upward, and the contents of the press-box A compressed. The bars D, as the short arms of the levers C and follower rise, gradually approach to a vertical position, and the levers C also gradually assume that position, the leverage-power gradually increasing as increased pressure is required.

The arrangement is extremely simple and efficient.

I would remark that the device herein described may be duplicated, if desired—that is to say, two levers, C, attached to each end of the follower in reverse positions, with bars D attached to each, and the ropes F attached to the end of each of the long arms of the levers C.

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

The combination of the levers C, bars D, ropes F, and shaft E, all arranged and applied to the follower B, to operate in the manner substantially as and for the purpose herein set forth.

CHAS. H. ROBINSON.

Witnesses:

G. E. BRIGGS,

J. D. ROBINSON.