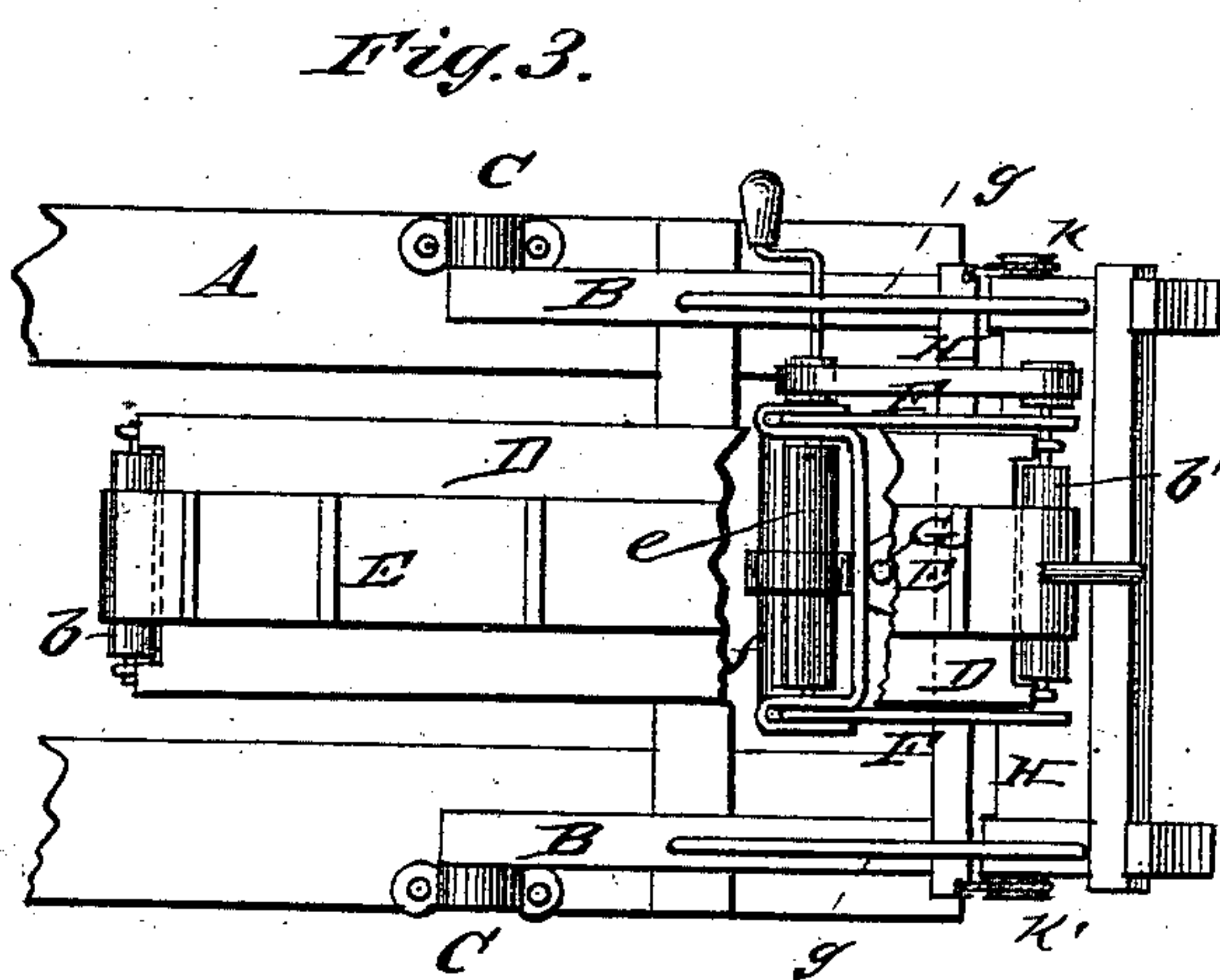
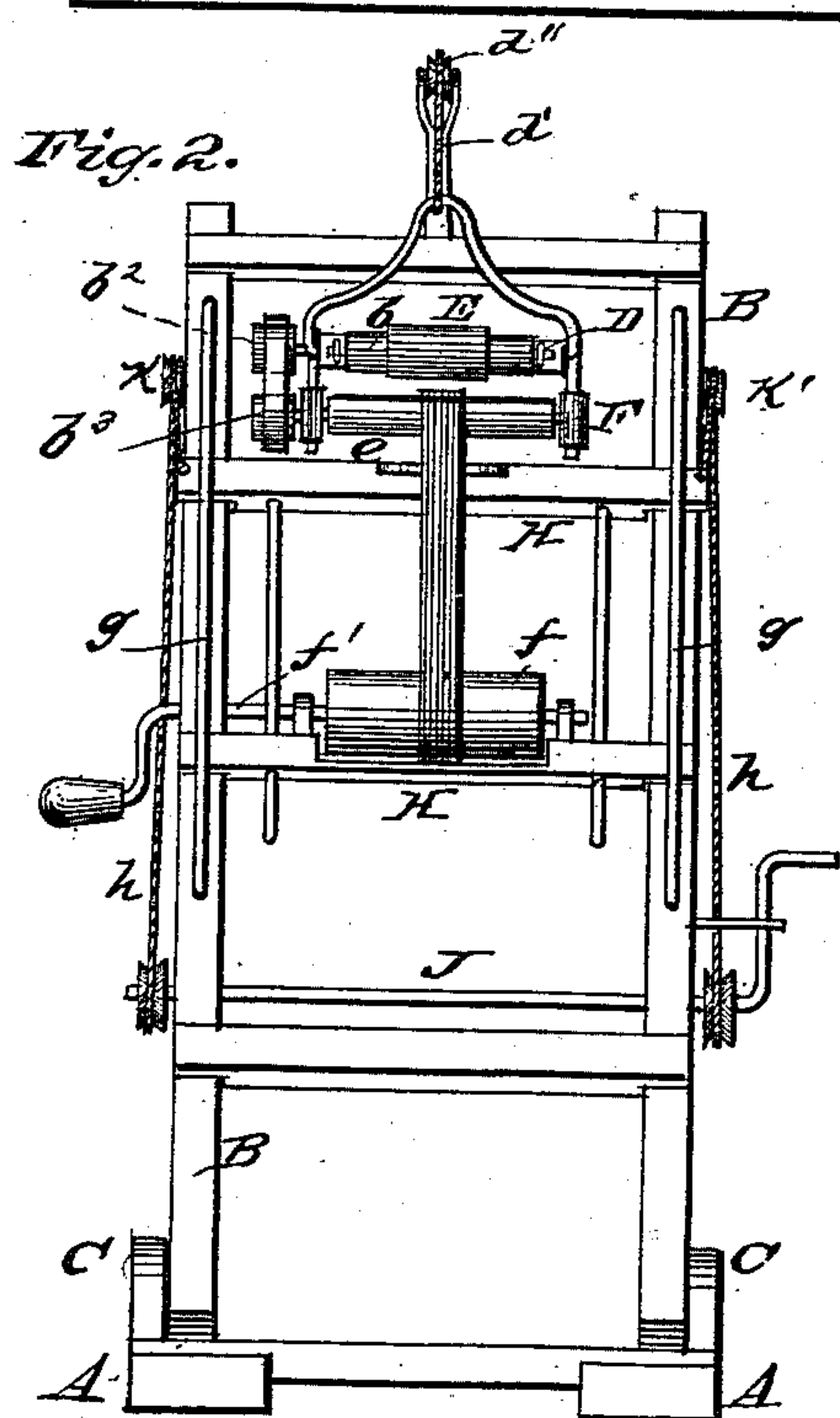
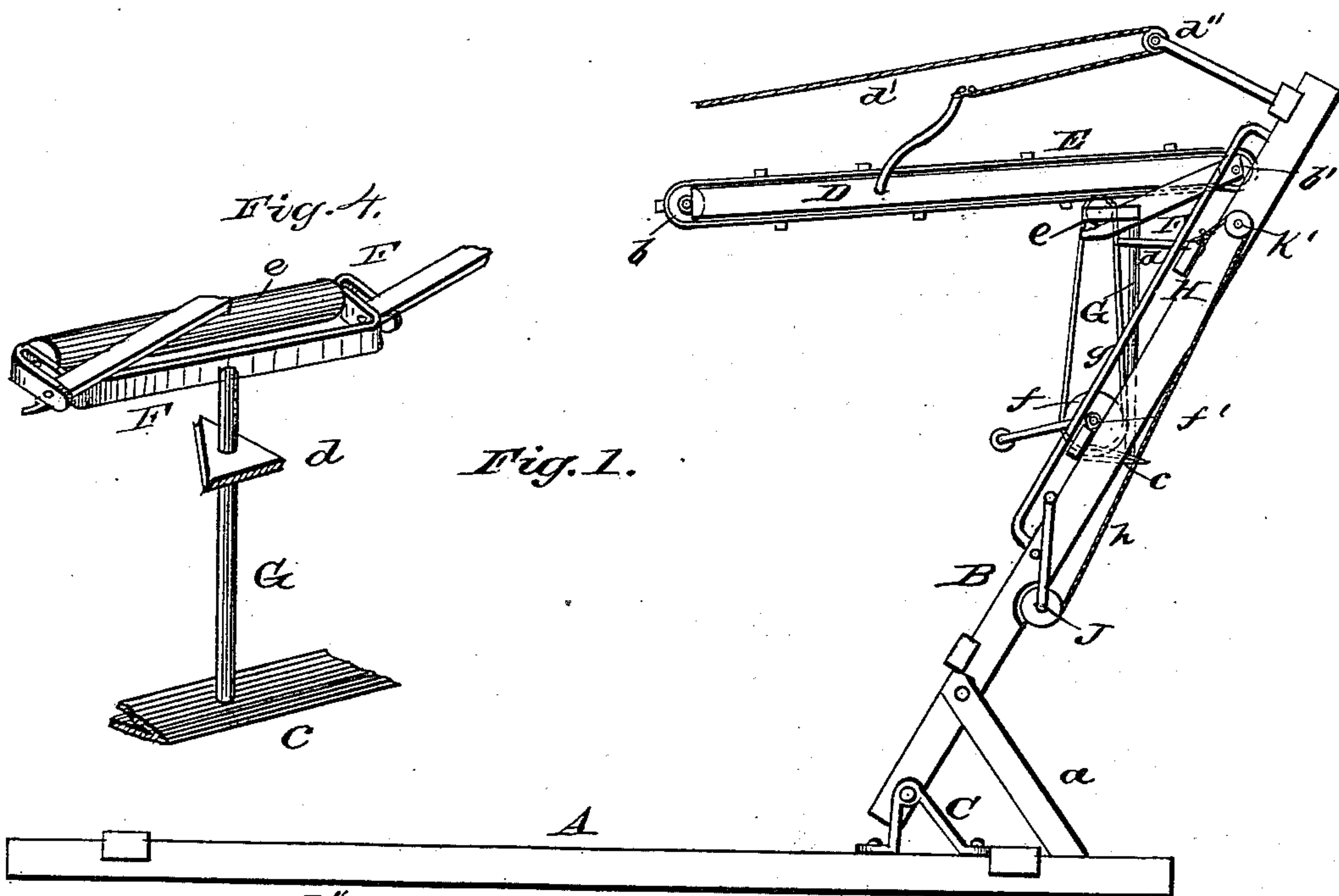


(No Model.)

A. H. ALLISON.
STRAW STACKER.

No. 277,400.

Patented May 8, 1883.



Witnesses:
Phil. C. Dietrich.
W. R. Keyworth.

Inventor:
A. H. Allison.
by Alexander
Attorney.

UNITED STATES PATENT OFFICE.

ASA H. ALLISON, OF KNIGHTSTOWN, INDIANA.

STRAW-STACKER.

SPECIFICATION forming part of Letters Patent No. 277,400, dated May 8, 1883.

Application filed January 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, ASA H. ALLISON, of Knightstown, in the county of Henry and State of Indiana, have invented certain new and useful Improvements in Straw-Stackers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a side elevation of my stacker; Fig. 2 a front view, Fig. 3 a top view, and Fig. 4 a perspective view, of the T-head support.

This invention relates to means for elevating and stacking straw as it comes from a thrashing-machine; and my invention consists in certain combinations of devices applied to a folding frame, whereby the straw discharged from the thrashing-machine is elevated and stacked in a very efficient manner, as will be fully understood from the following description, when taken in connection with the annexed drawings.

A A designate the sills or bed-pieces of the stacker, which in practice will be mounted on wheels for convenience in transportation.

B designates a rectangular frame, which is pivoted to standards C C, so that it can be laid down flat upon the sill-frame when the machine is not in operation. When the frame B is erected it stands at an inclination to the sills, leaning toward the thrashing-machine, from which the straw is taken to be stacked, and said frame is sustained in such position by means of suitable braces, *a a*.

D designates a straw-carrier frame, which may be made any desired length, and which is provided with an endless carrier, E, which passes around rollers *b b'*. The shaft of the roller *b'* has its bearings in the ends of a rectangular frame, F, and to this shaft the carrier-frame D is hinged, so that it can be vibrated in a vertical plane. The side bars of the frame F are pivoted to the T-head of a strong vertical rod, G, which is free to oscillate in a bracket, *c*, and step *d*, secured to a sash, H. It will be seen from the above that the carrier-frame D can be swung vertically, and also horizontally. It is held at any desired angle by means of a rope, *d'*, attached to a bail, and passed over a pulley, *d''*, at the upper end of the inclined frame B.

On one end of the shaft of the roller *b'* is a pulley, *b²*, which receives on it a belt that passes around a pulley, *b³*, on the shaft of a roller, *e*, which shaft has its bearings in the angular ends of the cross-head of the rod G. The roller *e* receives around it a belt, which also passes around a drum, *f*, on a shaft, *f'*, which has its bearings on the lower cross-bar of the sash H. When rotary motion is given to the shaft *f* this motion is transmitted to the carrier E, in whatever position the latter is held. The sash H is guided by the side bars of the frame B, and also by guide-rods *g g*, fixed to these bars; and this sash is movable up and down by means of ropes *h h*, which pass over pulleys *k k'* and around pulleys on a windlass-shaft, J, which has its bearings on the side bars of frame B.

It will be seen from the above description that the straw is taken from the stacker upon the lower end of the carrier-frame and elevated and discharged from the upper end thereof.

It will also be seen that the carrier-frame is bodily adjustable by raising and lowering the sash H, and that it can be swung vertically or horizontally, as occasion may require, in the operation of building up a stack.

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

1. In a machine for stacking straw, the combination of an adjustable or sliding sash, a vertical swiveled rod or post having a cross-head at its upper end, an adjustable platform, and an endless belt or carrier traveling over said platform, all constructed and arranged to operate substantially as described.

2. The combination, in a machine for stacking straw, of an inclined frame, a sliding sash, a swiveled rod having its bearing upon said sash, and a horizontally-vibrating platform supporting an endless belt, all constructed and arranged to operate substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ASA H. ALLISON.

Witnesses:

E. Y. TEAS,
JOHN FREEMAN.