

(No Model.)

2 Sheets—Sheet 1.

A. WITTE.
HAY PRESS.

No. 502,942.

Patented Aug. 8, 1893.

Fig: 1.

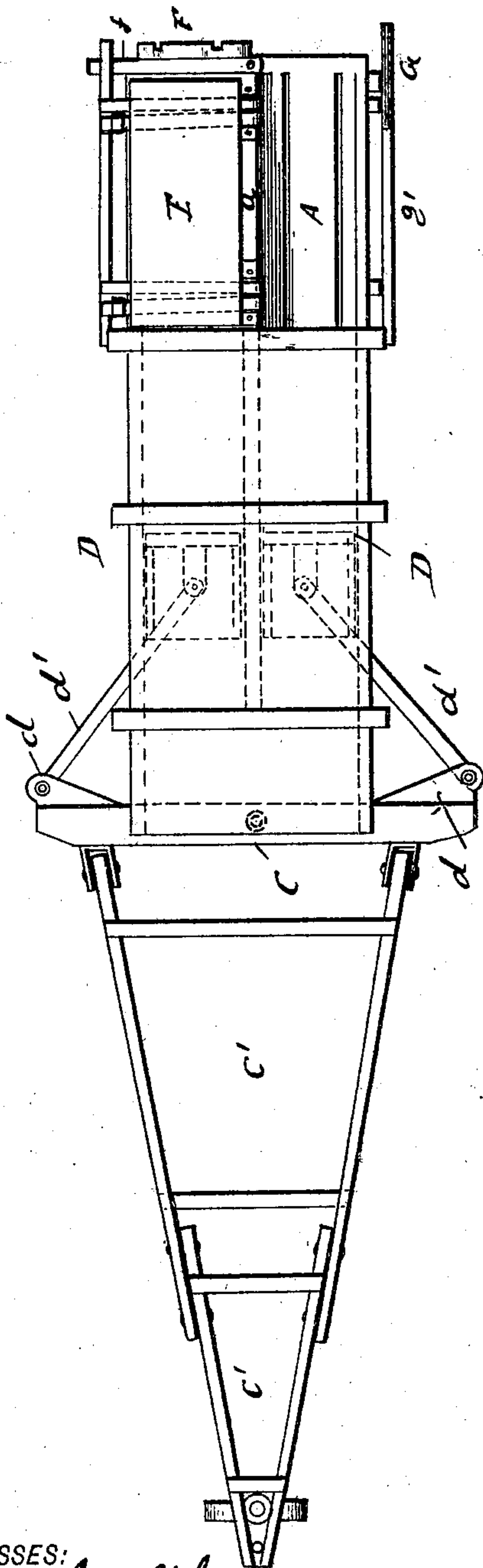
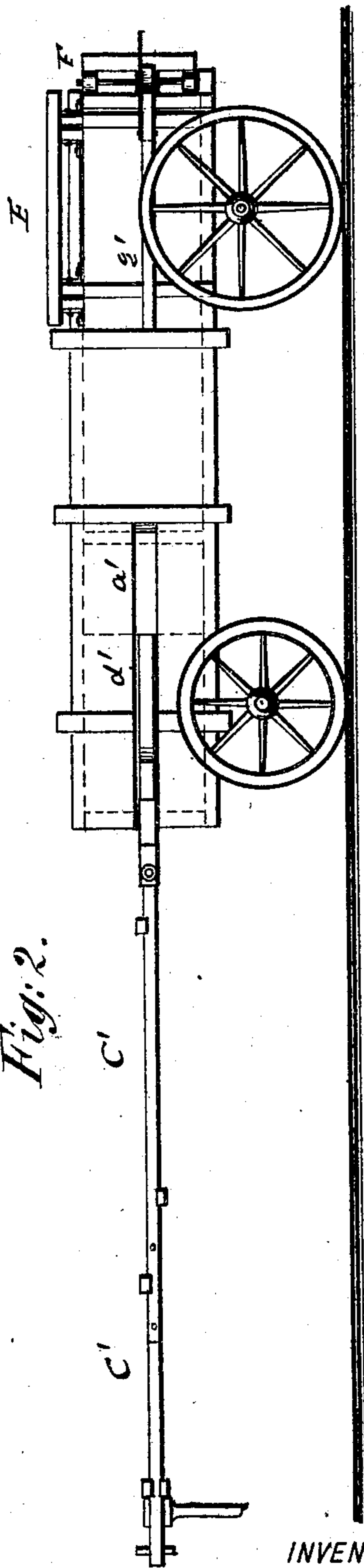


Fig: 2.



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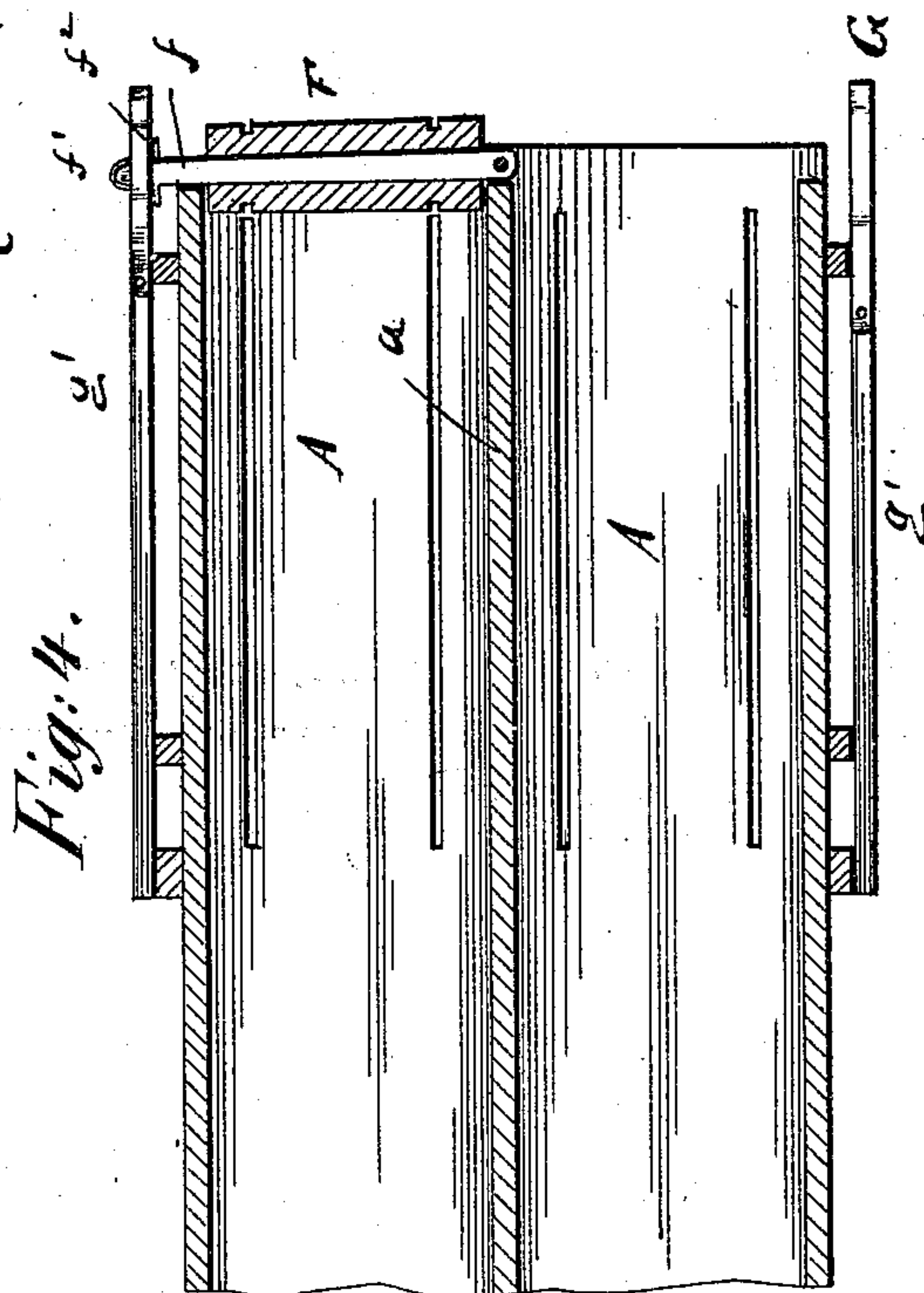
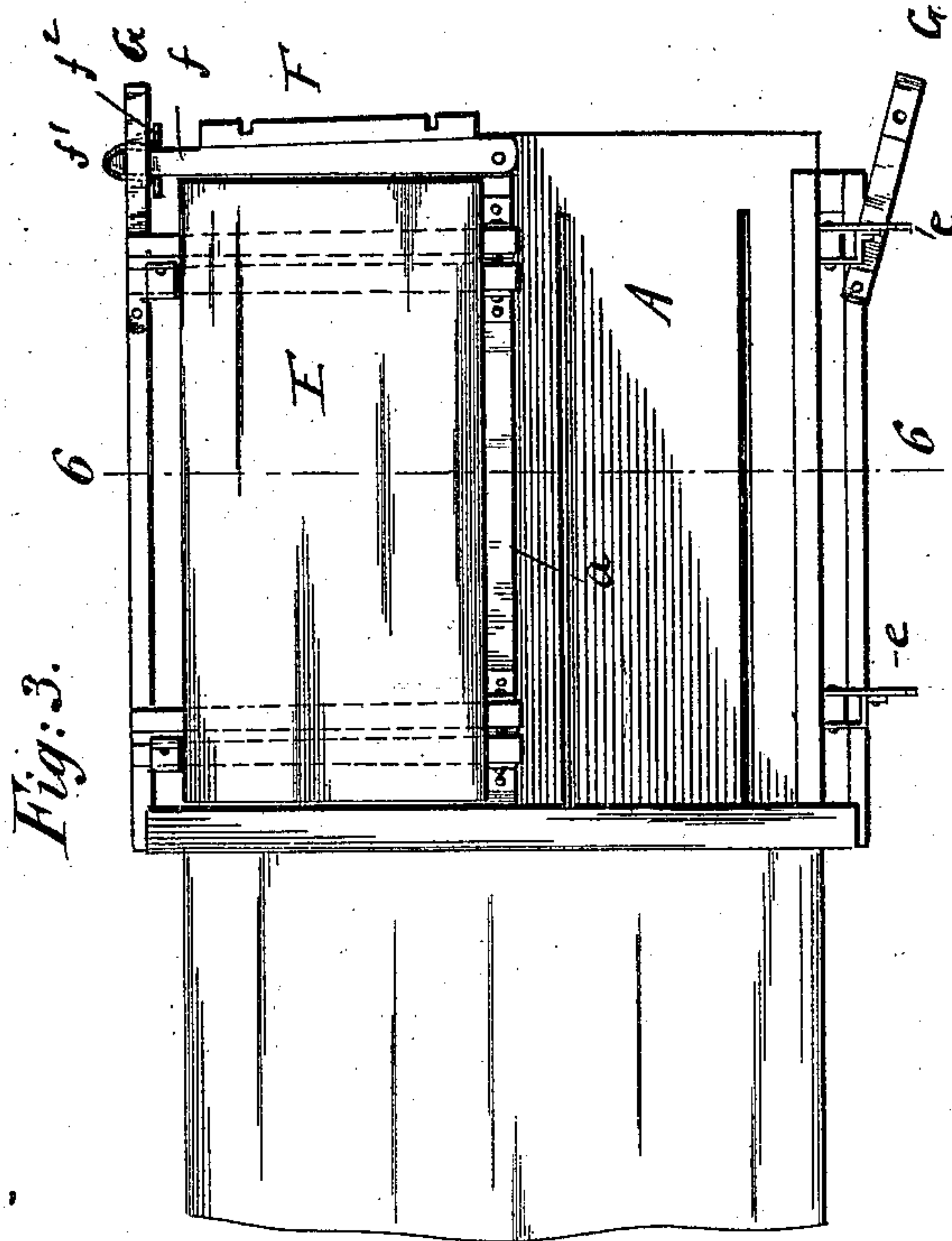
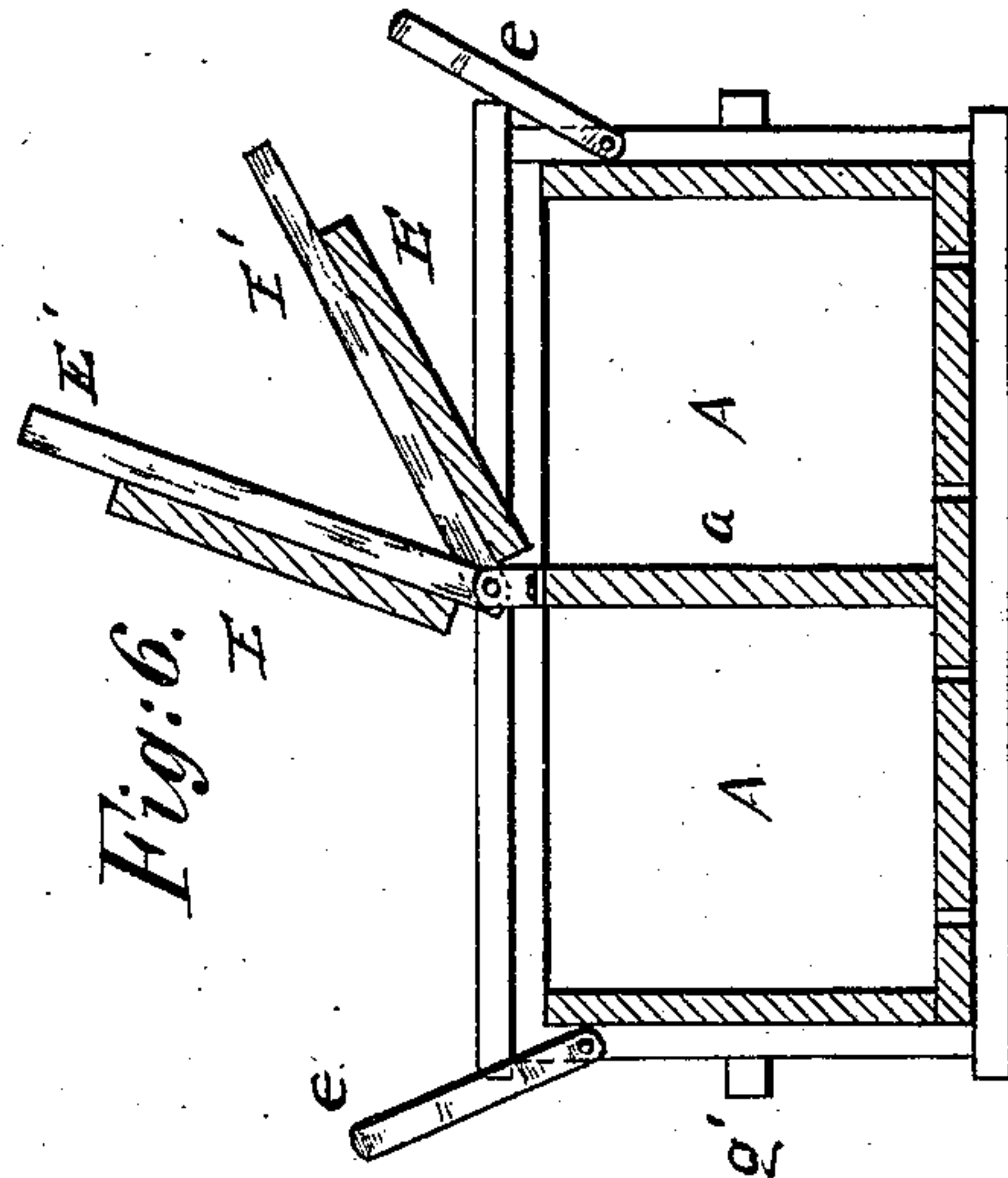
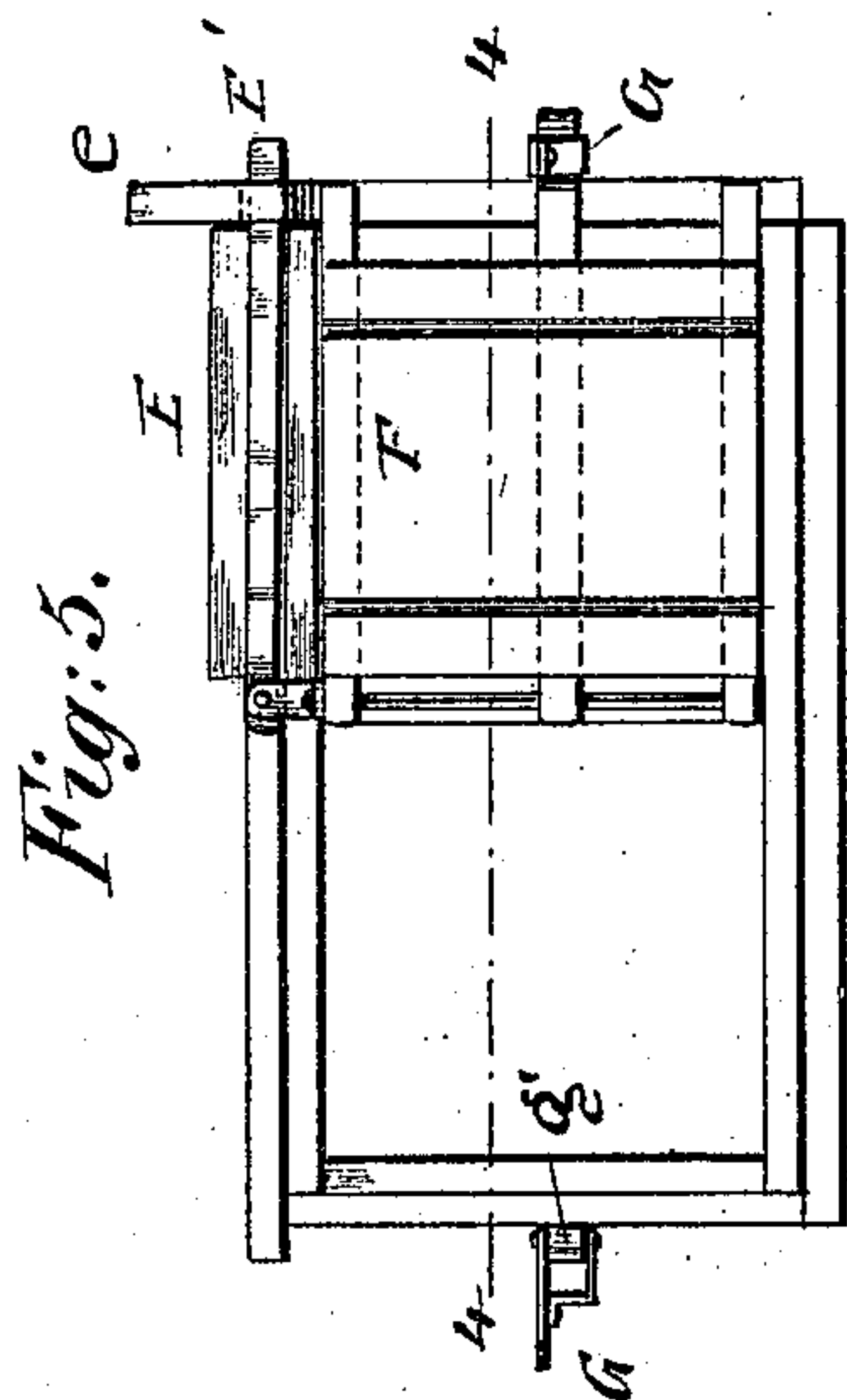
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UNITED STATES PATENT OFFICE.

ARMIN WITTE, OF BRENHAM, TEXAS.

HAY-PRESS.

SPECIFICATION forming part of Letters Patent No. 502,942, dated August 8, 1893.

Application filed January 26, 1893. Serial No. 459,857. (No model.)

To all whom it may concern:

Be it known that I, ARMIN WITTE, a citizen of the United States, residing at Brenham, in the county of Washington and State of Texas, have invented certain new and useful Improvements in Hay-Presses, of which the following is a specification.

This invention relates to an improved hay press of that class in which the hay is alternately compressed in two adjacent press chambers, a bale in one chamber after being compressed being wired, while the bale in the other section is compressed, so that a quick and effective baling is accomplished; and the invention consists of a hay-press in which two press-chambers are arranged side by side and in which two followers are alternately moved forward by the oscillating motion of a fulcrumed lever which is operated by horse-power. The press-chambers are each provided with a lid that is hinged to the longitudinal partition between the press-chambers and that is locked in closed position by hinged bails, said lids being so arranged that one can be moved over the other according as the bale is to be removed from one press-chamber or the other. One common end block is used for both press chambers and is hinged to the end of the longitudinal partition it being locked in position at the end of one press-chamber or the other by means of suitable locking devices.

The invention consists further of certain details of construction and combination of parts which will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1, represents a plan of my improved hay-press. Fig. 2, is a side-elevation of the same. Fig. 3, is a top-view of the press-chambers drawn on a larger scale. Fig. 4, is a horizontal section through both press-chambers on line 4 4, Fig. 5. Fig. 5, is an end-elevation of the press-chambers, and Fig. 6, is a vertical transverse section through the same on line 6 6, Fig. 3, the last four figures being drawn on a larger scale.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents two press-chambers which are arranged sidewise of each other and which are divided by a lon-

gitudinal partition *a*. The press-chambers are reinforced by suitable strengthening frames, that are attached by fastening bolts and straps transversely to the outside of the press-chambers, both press-chambers being placed on axles and supported on suitable wheels so as to be readily moved from place to place. To the front-end of the press-chambers A, is centrally fulcrumed a strong lever C to the ends of which are attached metallic shoes *dd*, which are connected by pitmen *d'* with two alternately reciprocating followers D D, which are located in the press-chambers A, one at each side of the partition *a*. The side-walls of the front part of the press-chamber A are provided with longitudinal openings *a'* so as to permit the free play of the pitmen in following the fulcrumed lever C. To the lever C is attached a lever-frame C' which is preferably made in two sections, being connected by means of fastening bolts and adapted to be disconnected when the press is to be moved from place to place. To the outer end of the lever-frame C' is attached by suitable swivel-connection, the whiffle-tree to which the horse or horses by which the hay-press is operated, are hitched. By detaching the lever-frame C' from the lever C and fastening it to the top of the press-chambers A A, the whiffle-tree can be readily attached to the lugs to which the lever-frame is bolted, so that the hay-press can be readily drawn to and from the place of use.

The rear-ends of the press-chambers A are provided with hinged top-lids E E, each press-chamber being provided with one lid, both lids being hinged to the upper edge of the central partition *a* and so arranged as to be readily moved one over the other whenever it is desired to open one of the press-frames. To the outer end side ways of the press-frame are hinged bails *e*, which are moved over the projecting ends of the transverse bars F' of the top-lids E, so as to retain them in closed position. When it is desired to move one of the lids in open position, the bails are moved outward in the desired direction as shown in Fig. 6, so that the lid of one chamber can be moved over the lid of the other chamber, as shown in Figs. 5 and 6. The rear-ends of the press-chambers A are closed by one common block F, which is pivoted to the rear-end of

the partition *a* and provided with a centrally projecting bar *f* that is covered at its ends by means of a metallic strap *f'* having outwardly projecting flanges or stops *f*² extending at right angles to the door. The metal-faced end of the bar *f* serves for the purpose of locking the end-block *F*, so as to close either press-chamber *A*, it being retained in locked position by means of a pivoted bail *G* that is applied to the longitudinal side-bar *g'* which is attached to the transverse reinforcing frames of the press-chambers *A*. The inner faces of the followers as well as both faces of the closing end-block *F* are provided with longitudinal recesses. The bottoms of the press-chambers are also provided with slots, so as to permit the introducing of the baling wires or bands by which the baling of the compressed hay is accomplished in the well known manner.

The operation of my improved hay-press is as follows: Hay is charged into one press-chamber from the rear-end by opening the top-lid while the follower is at its farthest position. When the entire space in the press-chamber is charged, the top-lid of the press-chamber is moved over and locked by its fastening bails. The end-block is then next moved over the closed end of the press-chamber, the block being locked by its fastening bail; the lid of the adjoining press-chamber is then unlocked and moved over the lid of the first press-chamber, the compressed hay in this second chamber being now in position to be baled by the wires or bands, after which it is removed from the press-chamber. The lever-frame is operated so as to be moved by the horses in one direction, whereby the follower of the press-frame from which the bale has just been removed, is moved in its initial position, while the follower of the other press-chamber is moved toward the rear of the press so as to compress the charge of hay in the same until it arrives at its terminal position. The second press-chamber is next charged with hay, its top-lid closed and the end-block brought over and locked in position at the end of the second press-chamber. The lid of the first press-chamber is then moved over the first press-chamber, the compressed bale of hay wired or baled and removed from the press-chamber. The first press-chamber is

then again charged with hay and the lever-frame moved back to its former position, so that the hay in the second chamber becomes compressed, which is then baled and removed. In this manner the hay is compressed alternately in one and then in the second press-chamber, so that the compressing of the hay is accomplished in a quick and effective manner by the oscillating motion of the lever-frame. By the construction described a very strong, rapidly operated and effective hay-press is made.

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

1. The combination, with two press-chambers arranged side by side, and separated by a central longitudinal partition, alternately reciprocating followers in said press-frames, a top-lid for each press-frame hinged to the central partition, pivoted bails applied to the side-walls for locking said lids in position and a block pivoted to the end of the central partition and means for locking said end-block to the ends of the press-chambers, substantially as set forth.

2. The combination, of two press-chambers arranged side by side, being separated by a central longitudinal partition, reciprocating followers located in said press-frames, means for alternately operating said followers, a lid for each press-chamber hinged to the central partition, pivoted bails applied to the side-walls of the press-chambers for locking said lids in closed position, each lid being adapted to be moved over the lid of the adjacent press-frame and a common end-block pivoted to the rear-end of the longitudinal partition, provided with a projecting central bar having projecting stops, bails pivoted to fixed side-bars of the press-frame for locking the end-block in position at the end of one press-chamber or the other, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ARMIN WITTE.

Witnesses:

OTTO L. SCHROEDER,
J. S. AMMAN.