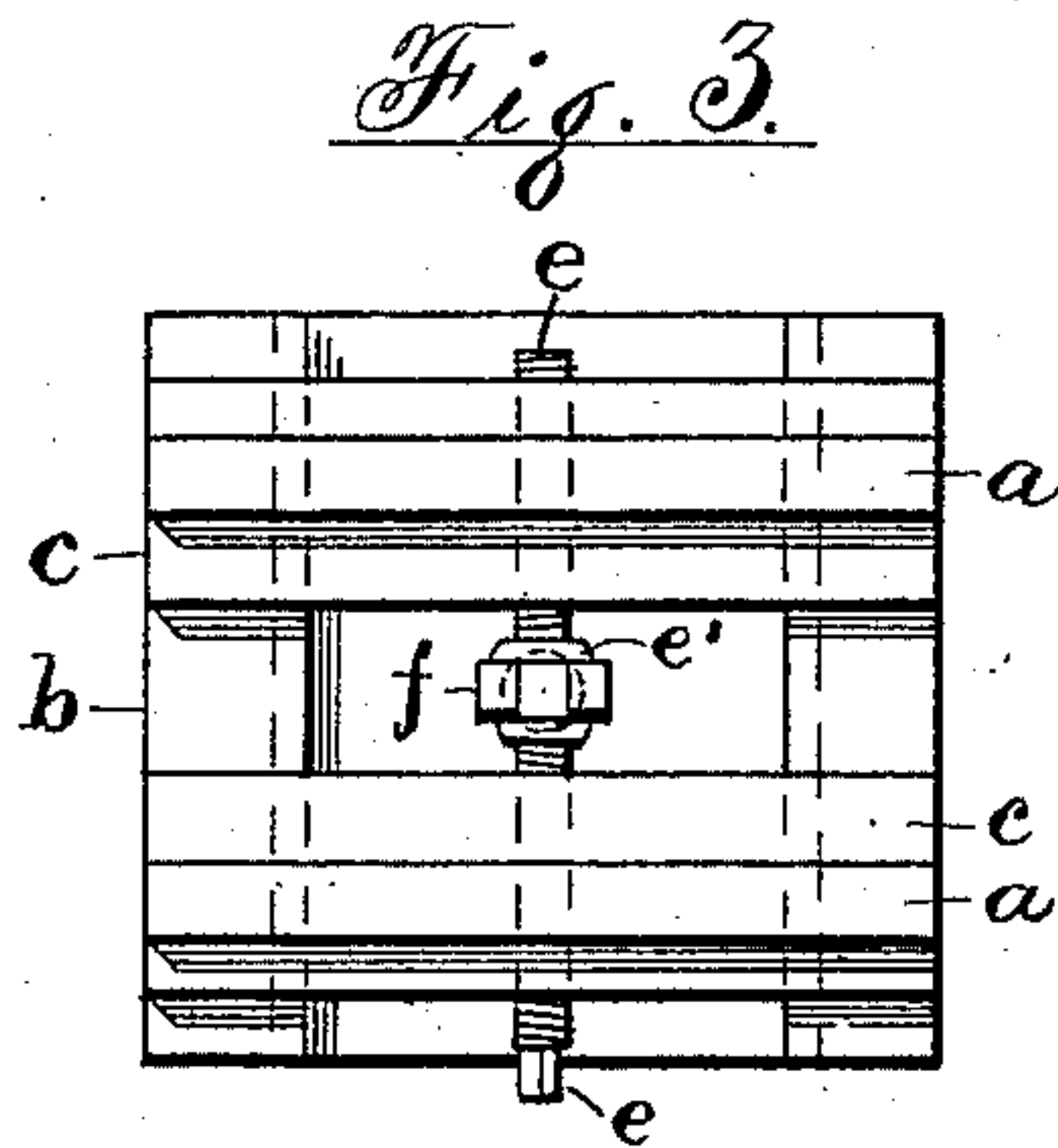
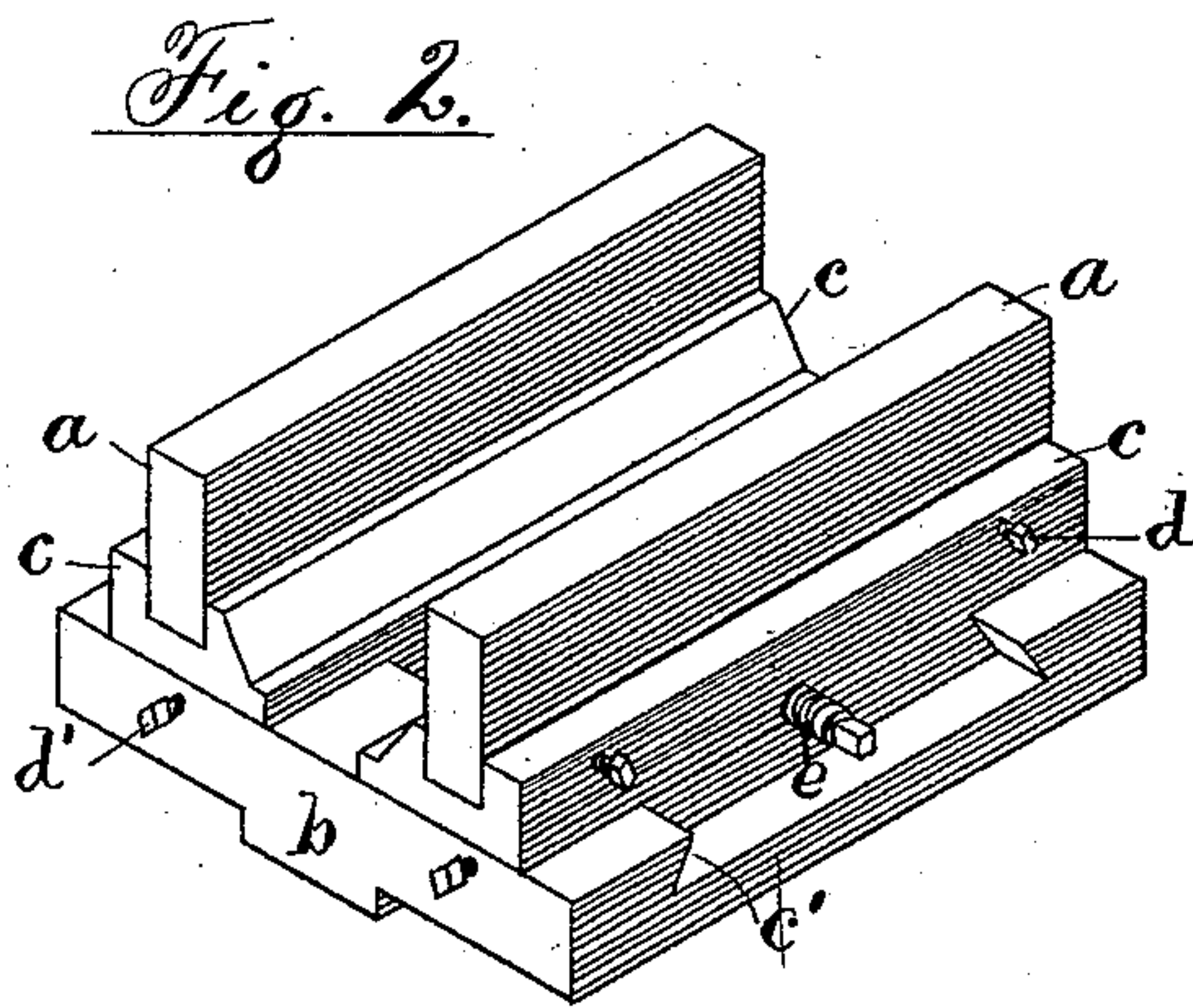
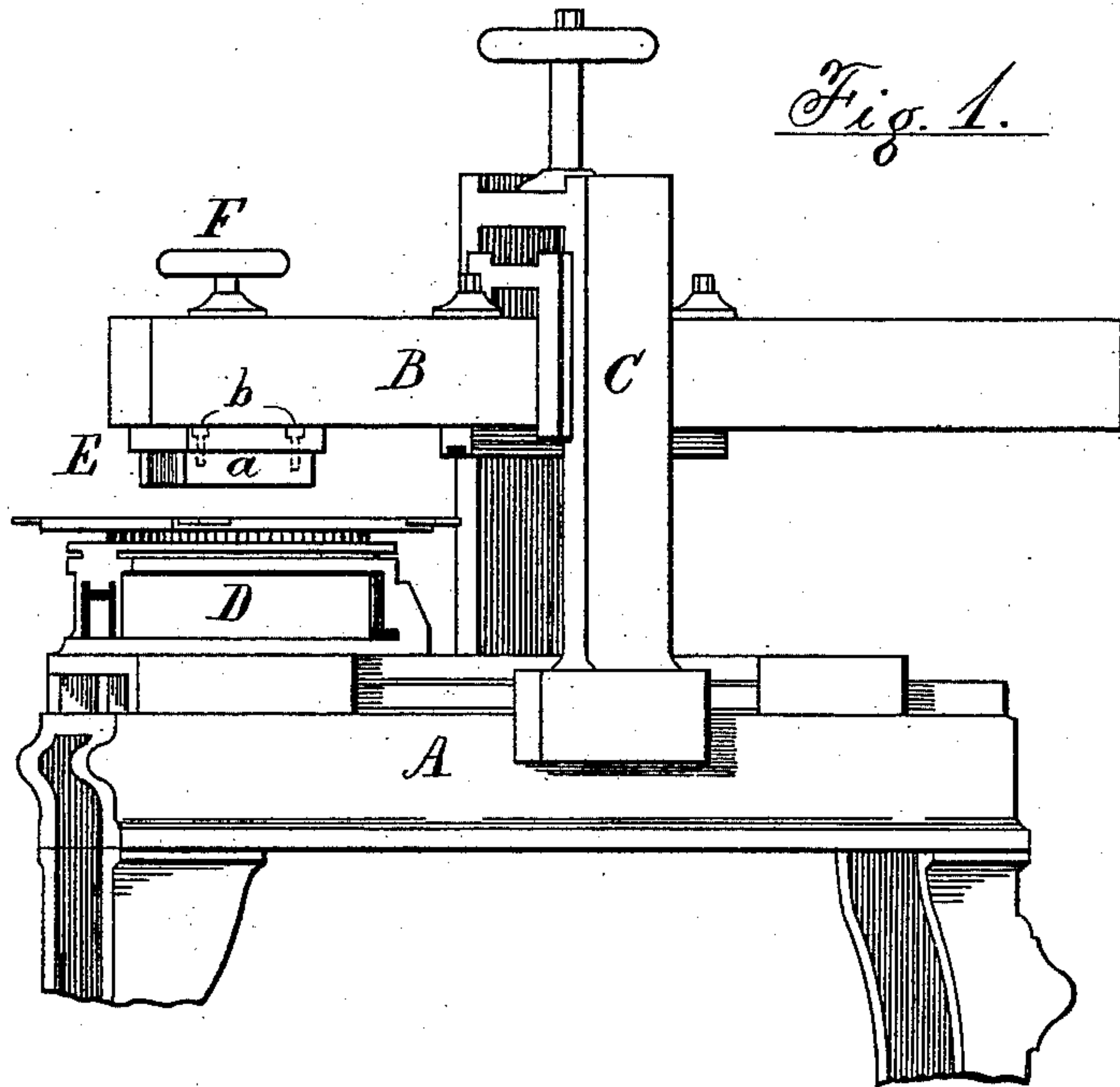


(No Model.)

H. W. CHAPMAN.  
BEARER FOR TRANSFER PRESSES.

No. 299,961.

Patented June 10, 1884.



*Attest:*  
*W. F. D. Crane*  
*Chas. A. Kenyon*

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*Thos. S. Crane, Atty.*



# UNITED STATES PATENT OFFICE.

HERBERT W. CHAPMAN, OF NEWARK, NEW JERSEY.

## BEARER FOR TRANSFER-PRESSES.

SPECIFICATION forming part of Letters Patent No. 299,961, dated June 10, 1884.

Application filed July 27, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, HERBERT W. CHAPMAN, a citizen of the United States, residing in the city of Newark, county of Essex and State of New Jersey, have invented certain new and useful Improvements in Bearers for Transfer-Presses, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention consists in certain means of holding the bearers in the head of a transfer-press, as hereinafter defined in the claims, the nature of said improvements being set forth so that any one skilled in the art may readily construct and use the same.

My invention will be understood by reference to the annexed drawings, in which I have illustrated the principal parts of a transfer-press in order to make the application of my invention more clear.

Figure 1 is an oblique elevation of the press, with the details of construction omitted. Fig. 2 is a perspective view of my improved head inverted to show the construction more clearly, and Fig. 3 is a plan of the same inverted.

In Fig. 1, A is the bed of the press. B is the beam. C is the central post or stanchion. D is the chuck for holding the prepared plates, and E is a head of the kind heretofore used for supporting the two ways or bearers, *a a*, by which the pressure is transmitted to the arbor of the engraved roll.

As shown in Fig. 1, the ordinary head consists of a plate or base adjustably secured to the beam by a hand-screw, F, and having the ways placed in contact with its lower side and held thereto by bolts passed through slots in the base into tap-holes formed in one edge of each of the ways, as shown at *b*. The slots in the base afford, in such a construction, a means of adjusting the bearers to and from one another; but as the heads of the screws cannot be reached without removing the entire base from the beam, it has been common to use the bearers at an unsuitable distance to support the ends of the arbors fully, which frequently results in breaking off the inner corners of the ways. The objection to removing and adjusting such ways also arose from the absence of

all means to maintain the parallelism of the ways, which were therefore deranged as soon as the screws were loosened, and could only be reset by careful measurement.

My invention secures the parallelism of the ways, and provides an effective means of adjusting them to and from one another without removing the base from the beam.

My improvements are shown in Figs. 2 and 3, *a a* being the ways or bearers, *b b* the base-plate, *c c* holders dovetailed movably into a guide, *c'*, planed in the base, and provided with rectangular grooves adapted to receive one edge of the bearers and hold them parallel to one another upon the base. The latter, in my construction, are merely oblong rectangular pieces of hardened steel lapped off alike upon both edges, so that either edge may be presented to the arbor at pleasure. When placed in the groove in the holder they are clamped therein by a set screw or screws, *d*, the latter having merely to sustain the weight of the reversible piece. The holders are held adjustably in position upon the base by a right and left hand screw, *e*, fitted at its middle by collars *e'* to a socket or bearing, *f*, and thus kept from moving endwise. The head of the screw is preferably furnished with a square like the heads of the screws *d*, and similar screws, *d'*, being provided to clamp the holders fast in the base, a single wrench suffices to operate all of the screws in turn.

With the construction described the space between the bearers may be readily changed to suit any transfer-roll, and the bearers themselves are kept perfectly parallel under all adjustments by the fitting of the holders *c* to the dovetailed guide in the base.

I am aware that common railway-rails have been made reversible, and that reversible bars have also been applied to the top of a lathe-bed.

It is obvious that my improved holder might be used without employing the reversible bearers, and that other means might be used to adjust the holders in a guide upon the base, so as to secure the parallelism of the ways continually. A square rabbet may thus be used instead of the dovetail as a guide at *c'*, and the holders be held to the base by bolts

fitted through slots in the foot of the holders. By this construction the parallelism of the holders would be secured, and they could be loosed and moved by measure any desired amount without removing the base from the beam.

I claim my invention in the following manner:

1. The combination, with the head of a transfer-press, and the bearers for the transferring-arbor, of a friction-clamp or holder constructed to hold the bearers removably and reversibly in their required position, substantially as herein shown and described.
2. In the head of a transfer-press, the combination, with a suitable base, of parallel hold-

ers adjustably secured thereto, and means for clamping or securing the bearers removably to the holders, substantially as set forth.

3. In the head of a transfer-press, the combination of a base, parallel holders movably fitted to a guide therein, ways or bearers secured in the holders, and an adjusting-screw for setting the holders to and from each other, substantially as herein set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HERBERT W. CHAPMAN.

Witnesses:

THOS. S. CRANE,  
CHAS. C. HERRICK.