

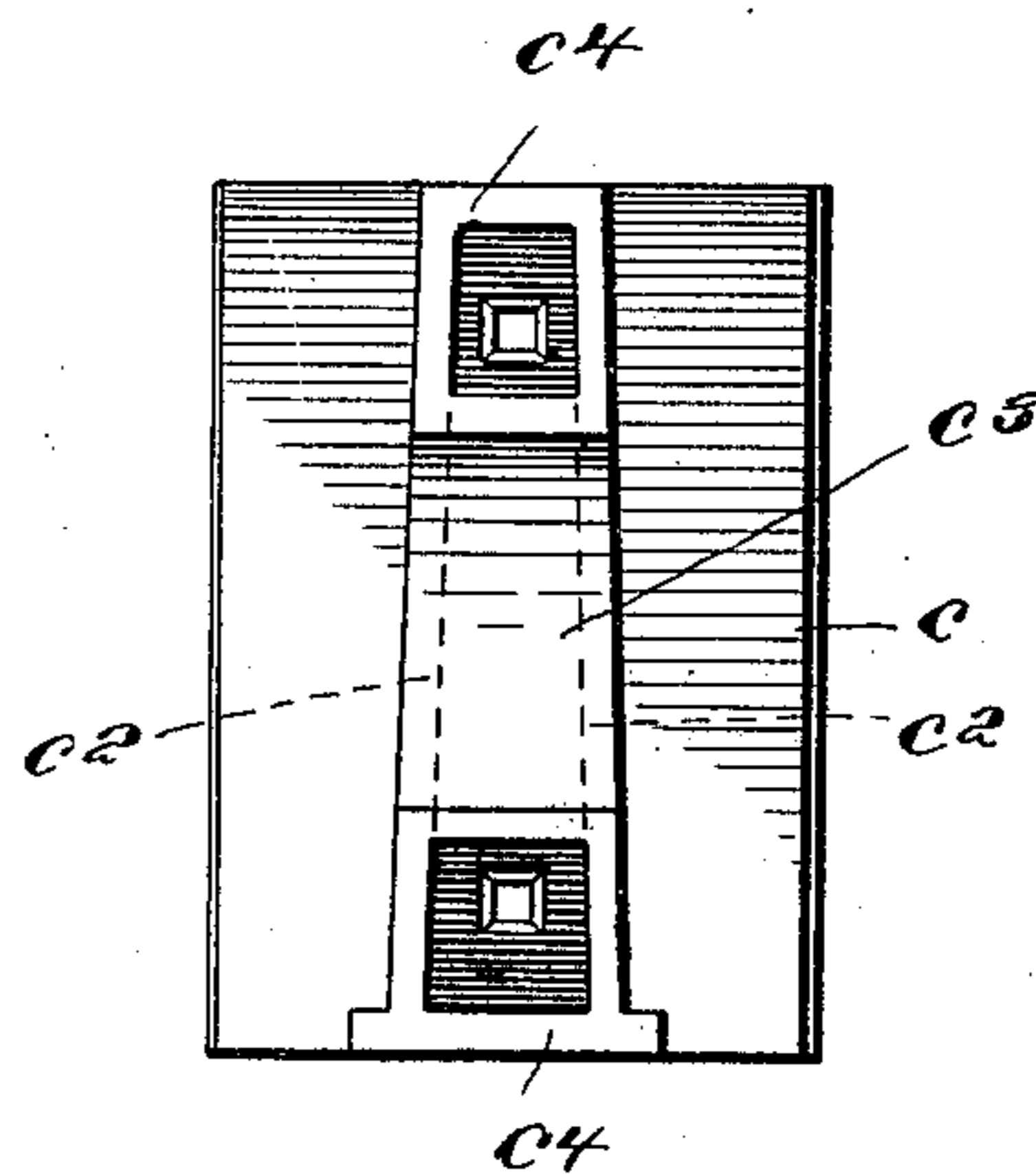
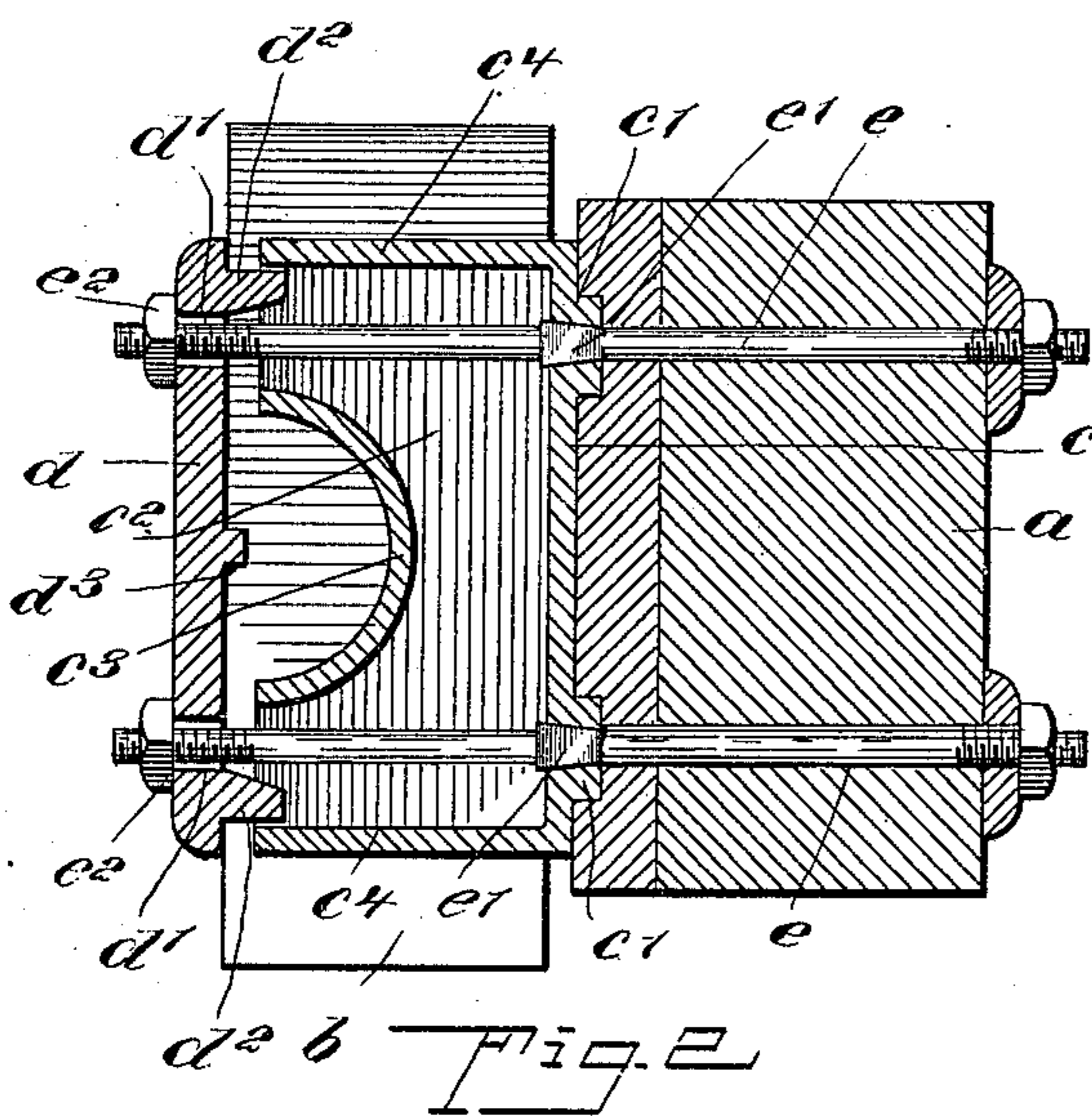
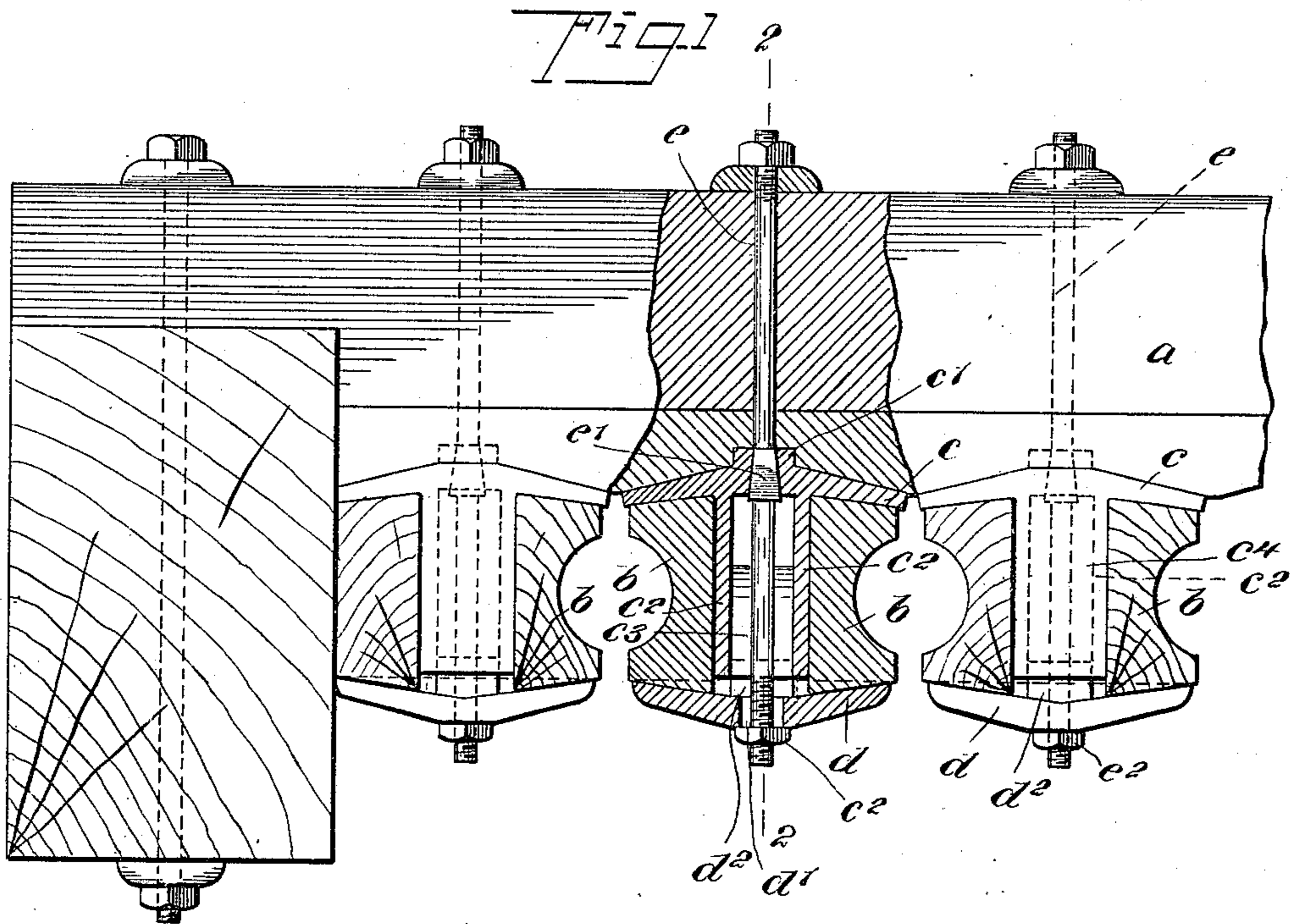
No. 685,622.

Patented Oct. 29, 1901.

E. MAJOR.  
GUIDE FOR STAMP MILLS.

(Application filed Jan. 12, 1901.)

(No Model.)



WITNESSES:  
*J. A. Brophy*  
*J. B. Owens.*

INVENTOR  
*Edmund Major*  
BY *Mumford*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

EDMUND MAJOR, OF DENVER, COLORADO.

## GUIDE FOR STAMP-MILLS.

SPECIFICATION forming part of Letters Patent No. 685,622, dated October 29, 1901.

Application filed January 12, 1901. Serial No. 43,000. (No model.)

*To all whom it may concern:*

Be it known that I, EDMUND MAJOR, a citizen of the United States, and a resident of Denver, in the county of Arapahoe and State of Colorado, have invented a new and Improved Guide for Stamp-Mills, of which the following is a full, clear, and exact description.

This invention relates to a guide for the stems of stamps in stamp-mills; and it consists in certain hereinafter-described improvements over the structures previously patented by me, as follows: Patent No. 469,157, dated February 16, 1892; No. 490,973, dated January 31, 1893, and No. 499,130, dated June 6, 1893.

This specification is a specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the invention with parts in section. Fig. 2 is a section on the line 2 2 of Fig. 1, and Fig. 3 is a front elevation of the back clamping-plate.

*a* represents a girth-beam, which may be formed in two parts, as shown, or in one part, as desired. *b* represents the blocks which form the guides for the stamp-stems. These guides are held on the girth-beam *a* in pairs, as shown, by the clamping-plates *c* and *d*, the plates *c* being the rear or back plates and the plates *d* being the front plates. Passing through the girth-beam *a* and the plates *c* and *d* are bolts or tie-rods *e*, which hold the several parts together, as shown.

The back plates *c* are dished rearward, as shown in Fig. 1, and the girth-beam is intended to receive the plates snugly. These plates *c* are formed with rearwardly-projected bosses *c'*, surrounding tapered square or pyramidal openings in the plate, which openings are two in number and which receive the tapered or swaged enlargements *e'* of the bolts *e*. These enlargements *e'* bind in the openings in the back plates *c*, and the tie-rods or bolts pass through the girth-beam and are secured at the rear side thereof by nuts or other analogous devices, as illustrated. Two flanges *c<sup>2</sup>* are formed on the back plates *c*, these flanges projecting forwardly and being connected at their front edges by a semicircular web *c<sup>3</sup>*.

The tie-rods or bolts *e* pass between the flanges *c<sup>2</sup>* and project forwardly beyond these flanges, the tie-rods being arranged on opposite sides of the web *c<sup>3</sup>*. The flanges *c<sup>2</sup>* are connected at their top and bottom edges by webs or walls *c<sup>4</sup>*, and the bottom wall *c<sup>4</sup>* is extended beyond the respective flanges *c<sup>2</sup>* to form ribs adapted to engage with the guide-blocks *b* and assist in holding them in place. The flanges *c<sup>2</sup>* stand at an angle to each other, as shown in Fig. 3, and when the back plates *c* are arranged side by side in pairs a tapered space is formed, in which the guide-blocks *b* are fitted and held.

The front plates *d* are dished forwardly, as illustrated in Fig. 1, and lie against the front walls of the guide-blocks *b*. These plates *d* are formed with openings *d'* therein, through which the front ends of the tie-rods *e* pass. Nuts *e<sup>2</sup>* are mounted on the front ends of the tie-rods and engage the plate *d* to press the same firmly against the guide-blocks *b*. The front plate *d* is provided with rearwardly-extending lugs *d<sup>2</sup>*, which enter the spaces between the flanges *c<sup>2</sup>* to fit together the plates *c* and *d*, and the plate *c* is further provided with a rib *d<sup>3</sup>*, located at approximately the middle thereof and projecting rearwardly to engage the guide-blocks and steady them in their proper position. The openings *d'* are sufficiently large to permit the swaged portions *e'* of the tie-rods or bolts *e* to pass through them. This enables one of the tie-rods to be withdrawn forwardly without necessitating the removal of the front plate *d*. The parts being thus constructed, when adjusted as shown in Figs. 1 and 2 the guide-blocks *b* are held securely in place, and should one of the bolts break the other will hold the parts in place until the broken bolt may be repaired. It will be observed that the swaged portions *e'* on the bolts cause the back plates *c* to be held in position independently of the front plates *d*, and owing to the peculiar construction of these parts all of them are held with the utmost security. The dished shapes of the plates *c* and *d* and the blocks *b*, correspondingly formed, together with the various ribs projecting from the parts which engage the guide-blocks, cause these blocks to be held properly in position.

To adjust or replace the guide-blocks *b*, the front clamping-plate should be loosened, and

the block may then be moved upward to dis-  
place it or downward to place it. To adjust  
the blocks to take up the wear caused by the  
stamp-stem, the front clamping-plate should  
5 be loosened and a bushing of the required  
thickness placed back of the guide-block to  
be adjusted.

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

1. A guide for stamp-mills, comprising front  
and back clamping-plates, and a tie-rod or  
bolt having an enlarged or swaged portion  
intermediate of its ends to engage one of the  
15 clamping-plates and hold it in position inde-  
pendent of the other plate, and one end of  
the tie-rod serving to hold the other clamp-  
ing-plate.

2. In a guide for stamp-mills, the combina-  
20 tion with the girth-beam, of a bolt or tie-rod  
secured thereto, and a front and a back clamp-  
ing-plate, the back clamping-plate engaging  
the girth-beam, the tie-rod having an enlarged  
or swaged portion intermediate its ends and  
25 engaging the back clamping-plate and hav-  
ing its outer end arranged to be engaged with  
the front clamping-plate.

3. In a guide for stamp-mills, the combina-  
tion with a girth-beam, of front and back  
30 clamping-plates, the back clamping-plate be-  
ing dished rearwardly and engaging the girth-  
beam and the front clamping-plate being  
dished forwardly, and a bolt or tie-rod ex-  
tending through the clamping-plates and  
35 girth-beam for holding the clamping-plates  
in position, the said tie-rod being arranged  
to independently engage both plates.

4. In a guide for stamp-mills, the combina-  
tion with the girth-beam, of a tie-rod, one end  
40 of which is fastened thereto, a back clamping-  
plate through which the tie-rod extends, such  
rod having connection with the back clamp-  
ing-plate to hold the same in position on the  
girth-beam, and a front clamping-plate to  
45 which the tie-rod extends and is connected,  
to hold the same independently of the back  
clamping-plate.

5. A guide for stamp-mills, comprising two  
clamping-plates, and a bolt or tie-rod extend-  
50 ing through them, the bolt or tie-rod having  
an integral enlargement intermediate of its  
ends engaging one of the plates and the other  
plate having an opening therein receiving the  
tie-rod, such opening being sufficient to per-  
55 mit the passage of such enlargement through  
the same.

6. A guide for stamp-mills, comprising two  
clamping-plates, one of which is provided with  
flanges standing alongside of each other, and  
60 the other of which is provided near the top  
and bottom with lugs adapted to enter be-  
tween the flanges, and fastening-bolts extend-  
ing through the two plates near the top and  
bottom thereof for holding the clamping-  
65 plates together.

7. A guide for stamp-mills, comprising two  
clamping-plates one of which is provided with

flanges standing alongside each other and con-  
nected at the top and bottom edges by webs  
or walls, the bottom web extending beyond 70  
the flanges and forming ribs for engaging the  
guide-blocks, and a fastening device for hold-  
ing the clamping-plates together.

8. A guide for stamp-mills, comprising a  
front and a back clamping-plate for the guide- 75  
blocks, the back plate being provided with for-  
wardly-extending flanges connected at their  
front edges by a semicircular web, and also  
connected by webs at the top and bottom, and  
fastening-bolts extending through the two 80  
plates and passing between the flanges above  
and below the said front web.

9. A guide for stamp-mills, comprising two  
clamping-plates, one of which is provided with  
flanges extending alongside each other and 85  
connected by a top and bottom wall, and a  
semicircular web connecting the ends of the  
flanges, the other clamping-plate being pro-  
vided near the top and bottom with lugs  
adapted to enter between the flanges, and hav- 90  
ing a rib arranged between the said lugs, and  
fastening-bolts extending through the two  
plates and passing between the flanges above  
and below the semicircular web respectively.

10. In a guide device for stamp-mills, the 95  
combination with the girth-beam, of a back  
clamping-plate engaging the girth-beam,  
a front clamping-plate, a bolt extending  
through the clamping-plates and girth-beam  
and provided intermediate its ends with a ta- 100  
pered enlargement adapted to engage a cor-  
responding opening in the back clamping-  
plate, and nuts engaging the ends of the bolt  
to hold it in position, as set forth.

11. In a guide device for stamp-mills, the 105  
combination with the girth-beam, of a back  
clamping-plate dished rearwardly and having  
rearwardly-projecting bosses, the girth-beam  
being constructed to correspond with the rear  
face of the plate, the said back clamping- 110  
plate being provided with two forwardly-ex-  
tending flanges connected by a web at their  
front edges, a front clamping-plate dished for-  
wardly and provided near the top and bottom  
with rearwardly-extending lugs adapted to 115  
enter the space between the flanges of the  
back plate, guide-blocks held between the  
clamping-plates and engaging the said  
flanges, and bolts extending through the  
clamping-plates and the girth-beam, the said 120  
bolts passing between the flanges of the rear  
plate and having tapered enlargements inter-  
mediate of their ends adapted to engage ta-  
pered openings extending through the bosses  
of the back plate, the ends of the bolts being 125  
secured to the girth-beam and the front clamp-  
ing-plate, as set forth.

In testimony whereof I have signed my  
name to this specification in the presence of  
two subscribing witnesses.

EDMUND MAJOR.

Witnesses:

F. W. JOHNSON,  
JOHN H. O'BRIEN.