

No. 862,611.

PATENTED AUG. 6, 1907.

J. COSTELLO.

FOOT PRESS.

APPLICATION FILED MAR. 19, 1907.

FIG. 2.

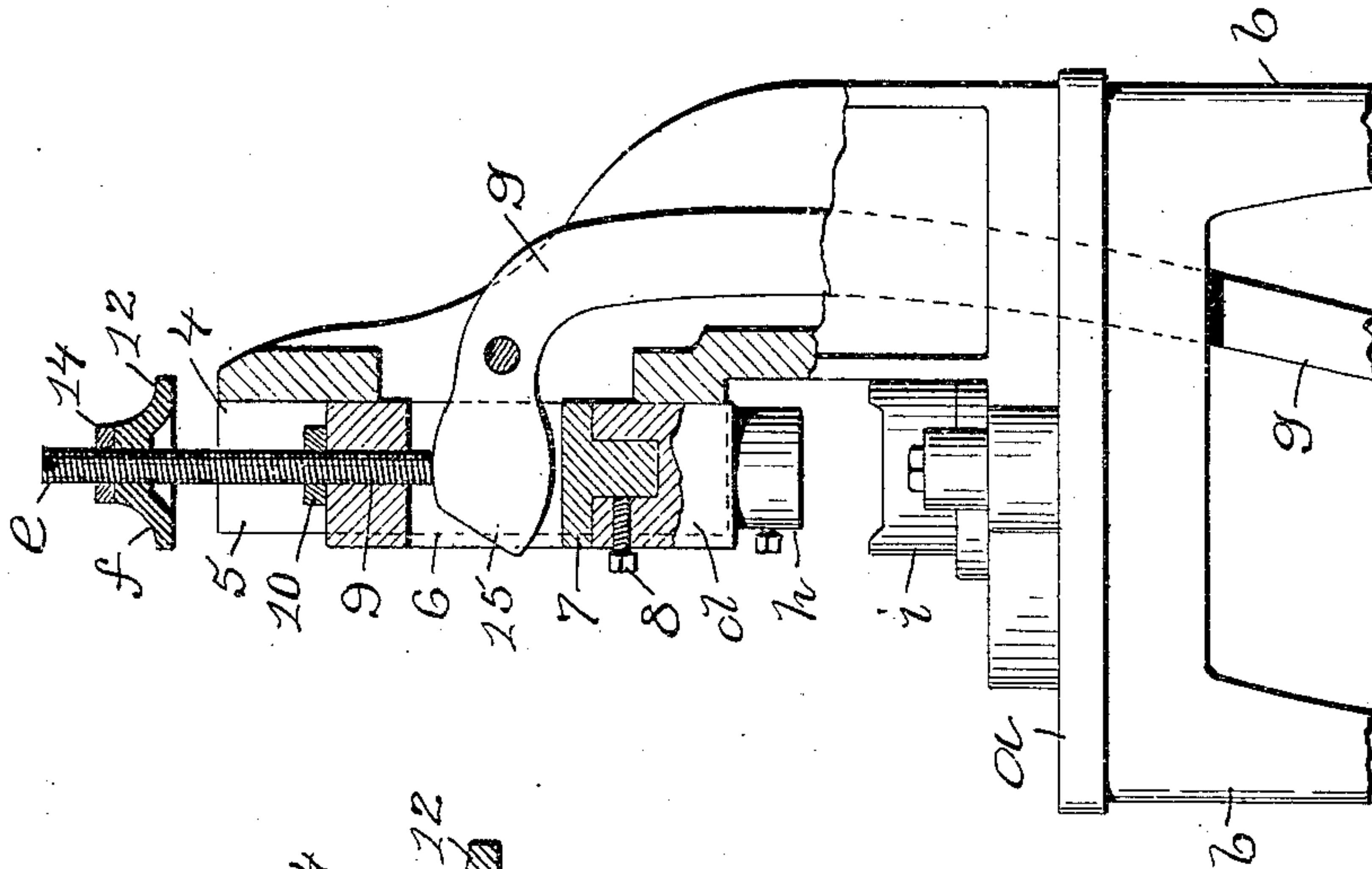


FIG. 3.

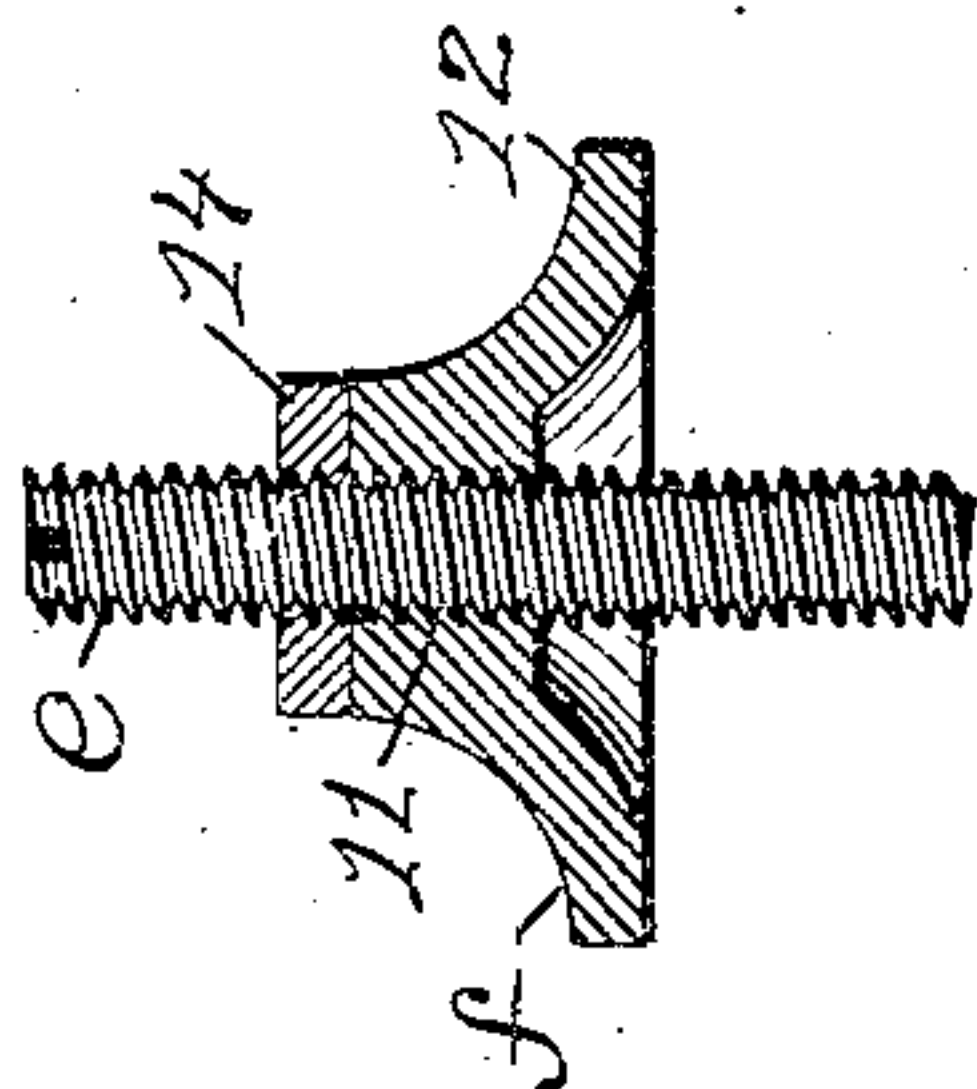
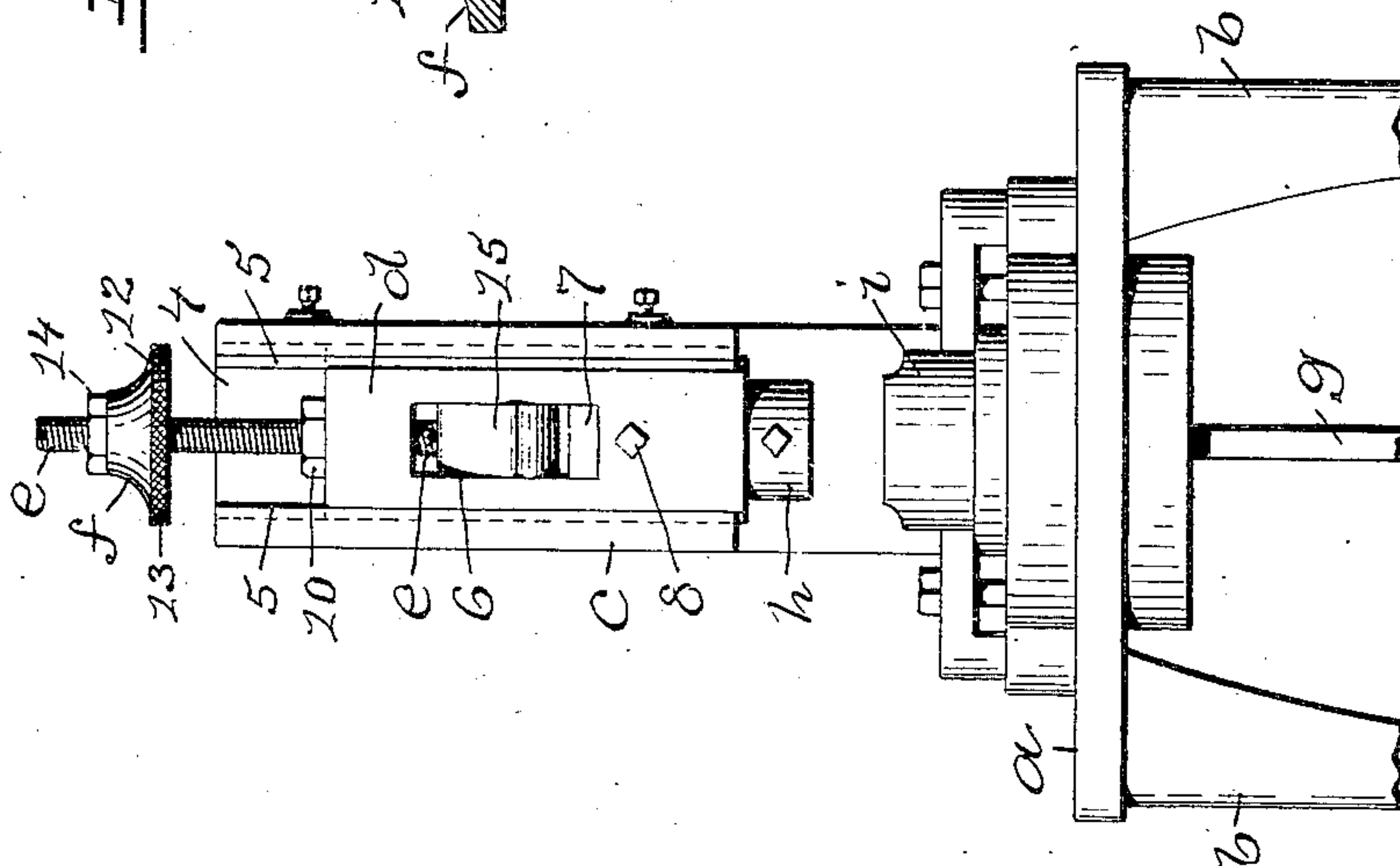


FIG. 1.



WITNESSES:

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FOOT-PRESS.

No. 862,611.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed March 19, 1907. Serial No. 363,298.

To all whom it may concern:

Be it known that I, JOHN COSTELLO, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Foot-Presses, of which the following is a specification.

This invention has reference to an improvement in foot presses and more particularly to an improvement in means for adjusting the movement of the plungers of foot presses.

In foot presses as heretofore constructed the top of the plunger support is closed and the downward movement only of the plunger is adjusted by lock nuts on the plunger stem adapted to engage with the closed top of the support. The guideways for the plunger extend downward from the closed top of the support and by reason of this closed top are difficult to plane, thereby increasing the cost of manufacturing the machine, also the plunger having a fixed limit of movement upward restricts the use of the machine.

The object of my invention is to improve the construction of a foot press whereby the downward and upward movements of the plunger may be adjusted, the utility of the machine increased and the cost of manufacturing the machine reduced.

My invention consists in the peculiar and novel construction of a foot press having details of construction, as will be more fully set forth hereinafter and claimed.

Figure 1 is a vertical front view of my improved foot press, showing the legs and lower end of the operating lever broken away. Fig. 2 is a vertical side view of the foot press shown partly in section with the plunger in its upward position, and Fig. 3 is an enlarged detail sectional view of the upper portion of the screw-threaded plunger stem, the adjustable stop and the lock nut on the stem.

In the drawings, *a* indicates the bed of the machine, *b b* the legs, *c* the vertical plunger support secured to the bed, *d* the plunger, *e* the screw-threaded plunger stem, *f* the adjustable stop on the plunger stem, *g* the operating lever pivotally secured in the plunger support, *h* the upper die holder secured to or forming a part of the lower end of the plunger *d*, and *i* the lower die holder adjustably secured to the bed *a* in the usual way. The plunger support *c* has an open top 4 and the vertical guideways 5 5 which extend from the open top 4 downwards, as shown in Figs. 1 and 2. The plunger *d* has a central opening 6 into which the

upper end 15 of the operating lever *g* extends, a hardened wearing piece 7 held in the bottom of the opening 6 by a bolt 8, a screw-threaded vertical hole 9 in the upper end for the stem *e* and the upper die holder *h* on its lower end, as shown in Figs. 1 and 2. The screw-threaded plunger stem *e* is adapted to screw through the upper end of the plunger *d* in the screw-threaded hole 9 into the opening 6 and is held in the adjusted position in the plunger by a lock nut 10 on the stem *e* engaging with the top of the plunger, as shown in Fig. 2. The upper end of the stem *e* may be slotted to facilitate the turning of the stem in the plunger. The adjustable stop *f* has a screw-threaded central hole 11 for the stem *e* and a circular flange 12 with a knurled edge 13, as shown in Fig. 1. This stop is adapted to screw onto the stem *e* and engage with the top of the plunger support *c* to limit the downward movement of the plunger. A lock nut 14 on the stem *e* holds the stop *f* in its adjusted position.

The operating lever *g* has the upper end 15 which extends into the opening 6 in the plunger *d* and is shaped to engage with the hardened wearing piece 7 to depress the plunger and to engage with the lower end of the stem *e* to raise the plunger, as shown in Fig. 2. The lower end of the operating lever *g* has the usual foot piece (not shown) for operating the lever.

The plunger *d* is adjusted to vary the limit of the stop *f* by hand and locking the stop in the adjusted position by the lock nut 14 and to vary the limit of its upward movement by turning the stem *e* and locking the stem in the adjusted position by the lock nut 10.

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

In a foot press, the combination of a bed *a*, a plunger support *c* having the open top 4 and the guideways 5 5 extending downwards from the open top, a plunger *d* having the central opening 6, and the screw-threaded vertical hole 9, a screw-threaded stem *e* adapted to screw through the hole 9 in the plunger into the opening 6, a lock nut 10 on the stem *e*, a stop *f* having the screw-threaded central hole 11 and the knurled flange 12 on the stem *e*, a lock nut 14 on the stem *e* and a pivoted lever *g* having an end 15 adapted to engage with the bottom of the opening 6 and the end of the stem *e*, as described.

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

JOHN COSTELLO.

Witnesses:

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