

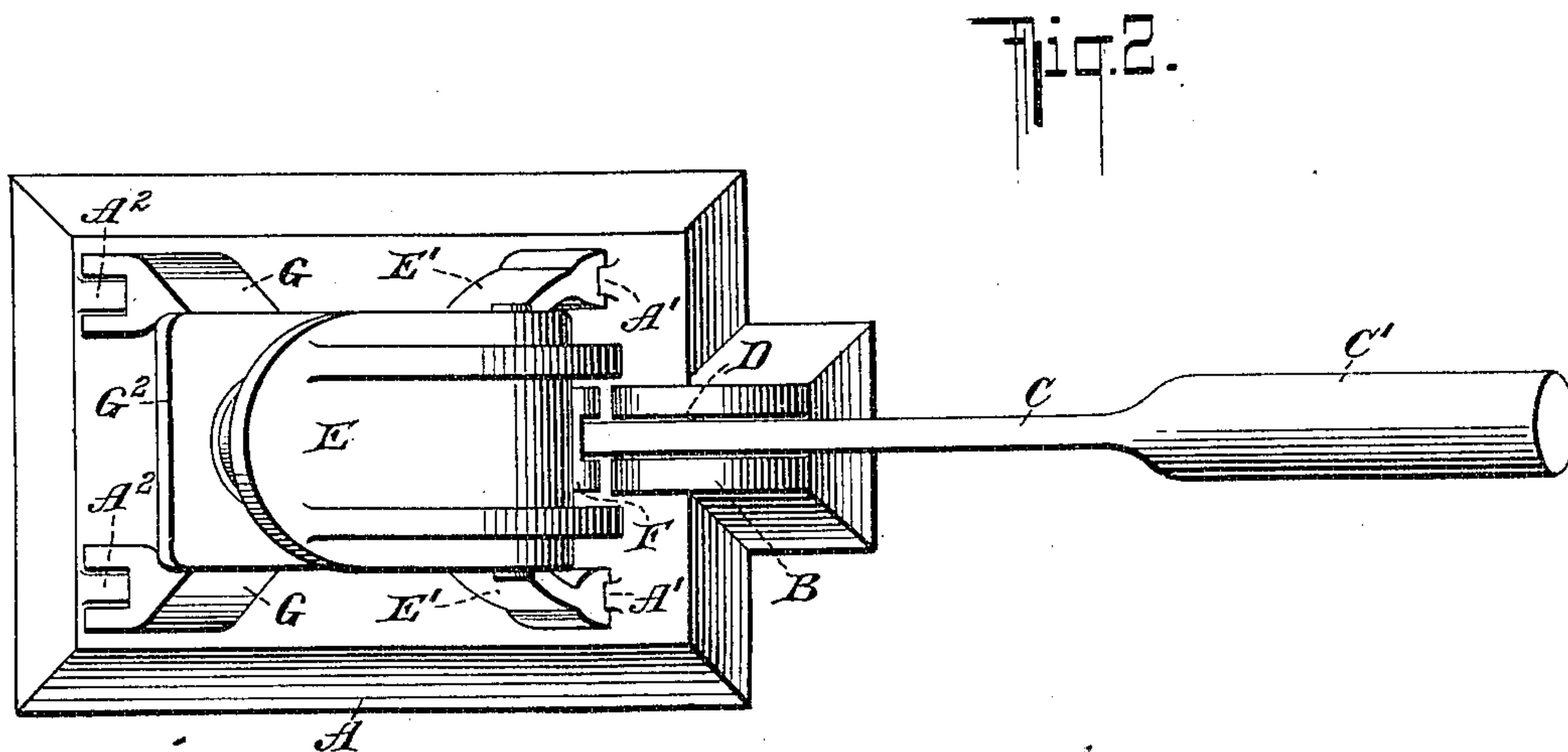
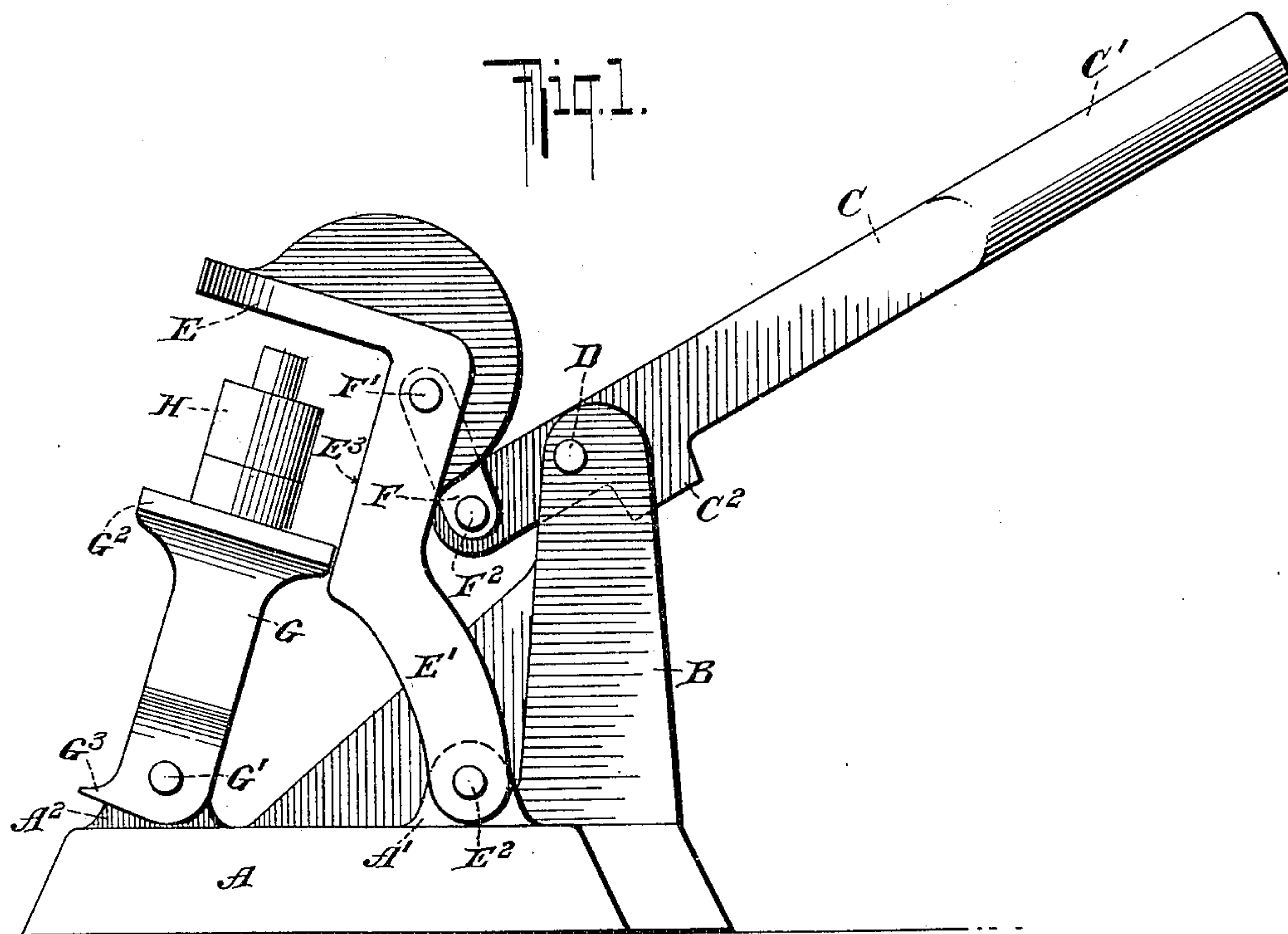
No. 812,101.

PATENTED FEB. 6, 1906.

H. THURSTON.
PRESS.

APPLICATION FILED JULY 12, 1905.

2 SHEETS—SHEET 1.



WITNESSES:
Julius H. Hutz
John A. Schenck

INVENTOR
Horace Thurston
BY *his* ATTORNEYS
Brisson & Knauth

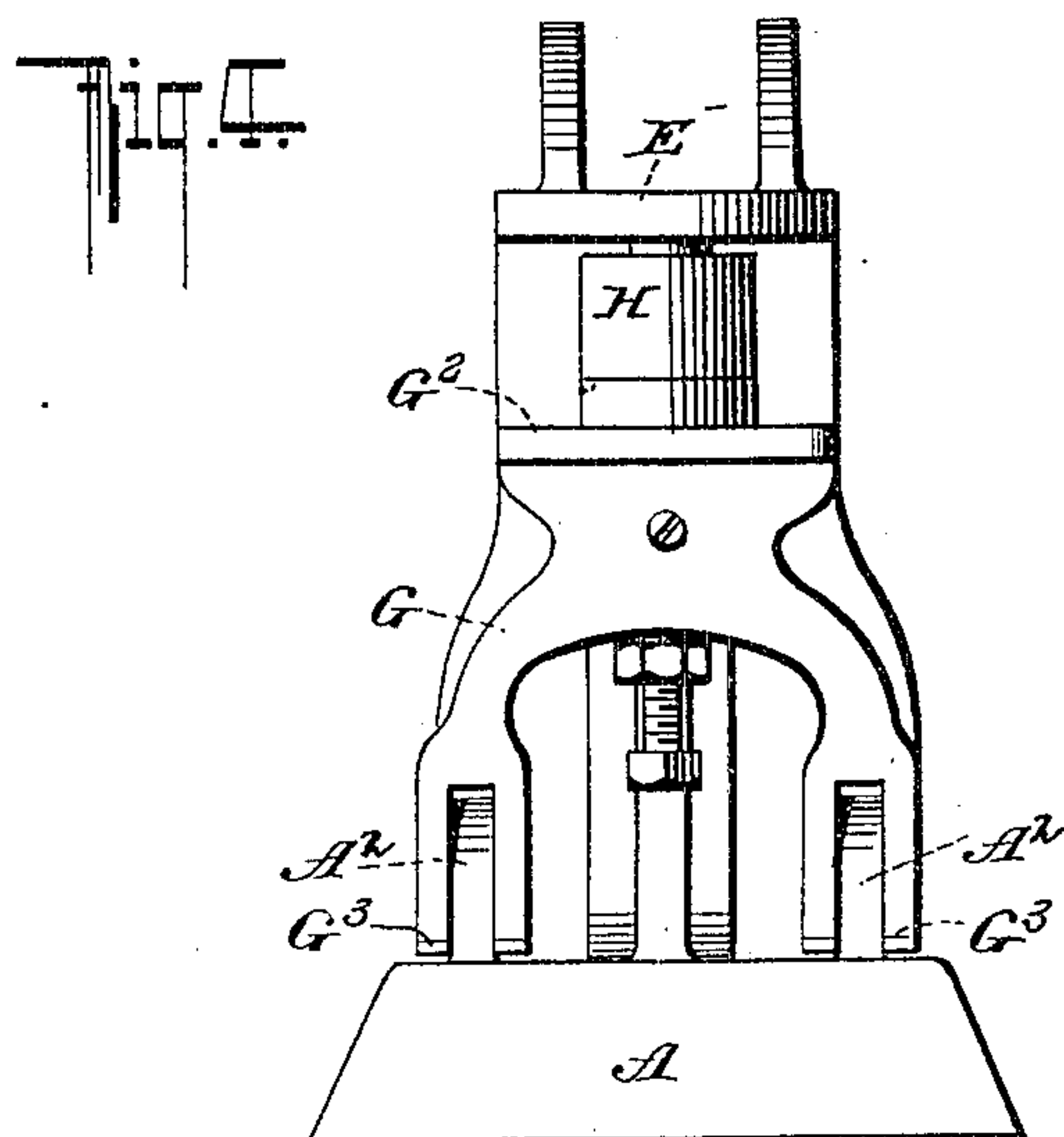
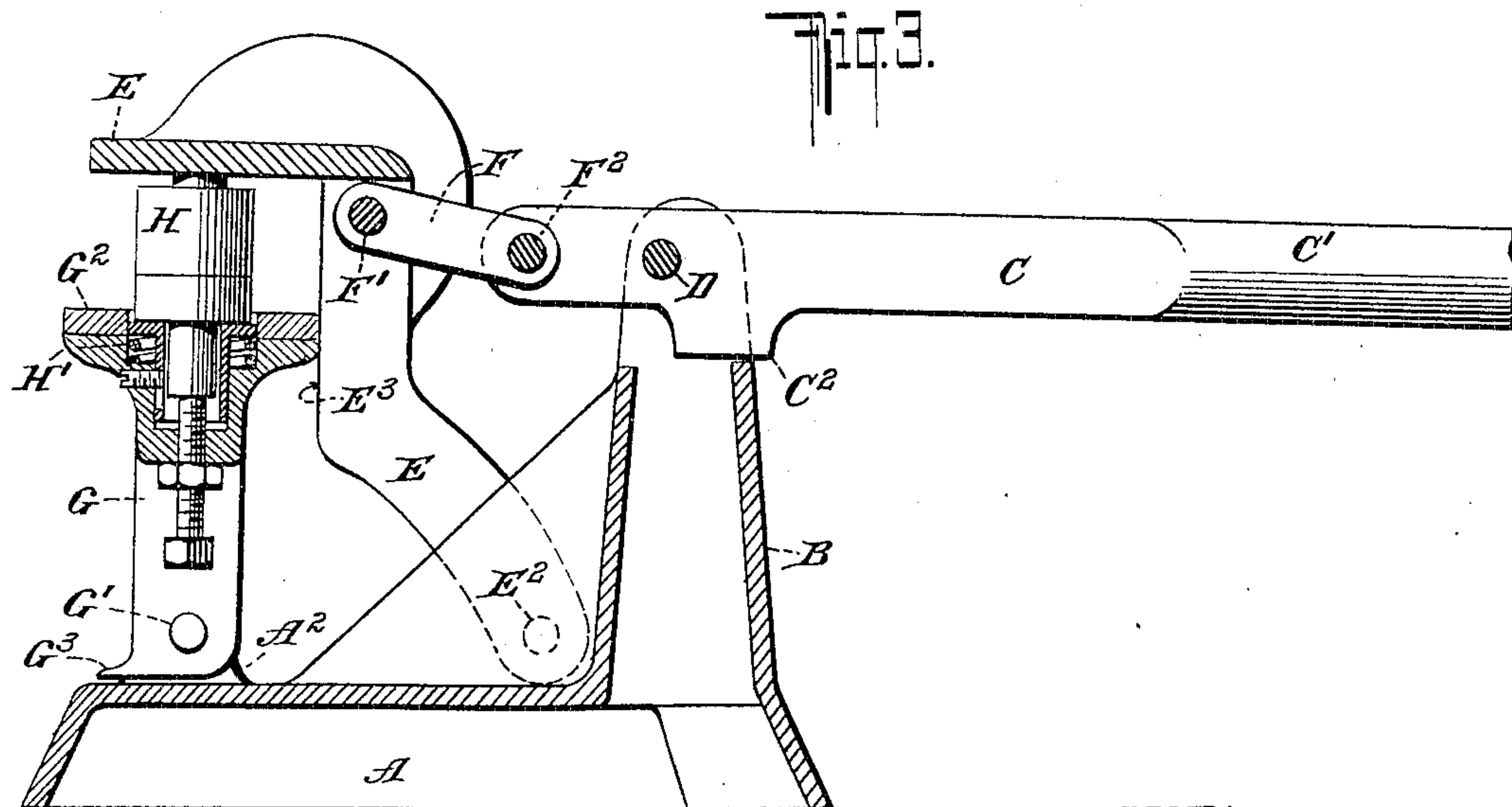
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UNITED STATES PATENT OFFICE.

HORACE THURSTON, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR OF ONE-HALF TO CHARLES H. SCHOTT, OF BROOKLYN, NEW YORK.

PRESS.

No. 812,101.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed July 12, 1905. Serial No. 269,335.

To all whom it may concern:

Be it known that I, HORACE THURSTON, a citizen of the United States, and a resident of Providence, county of Providence, State of Rhode Island, have invented certain new and useful Improvements in Presses, of which the following is a specification.

My invention relates to presses; and it consists in the novel construction and combination of parts, as will be hereinafter described.

The object of my invention will appear from the following detailed description, and the features of novelty will be pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a side elevation of a button-assembling press provided with my improvements. Fig. 2 is a plan view thereof. Fig. 3 is a side elevation, partly in section, with the parts in a different position; and Fig. 4 is an end view of the press.

A is the base of the press and is provided with a standard or lug B, which is split at its upper end to receive the lever C, pivoted at D. The said lever D is provided with a handle C' and a projection C², the purpose of which will be described hereinafter. A power-jaw E is provided with arms E', pivoted at E² to lugs A' on the base A. The said jaw E has pivoted thereto at F' a toggle or link F, which toggle or link F is pivotally connected at F² to the lever C. A swinging platform member or lower jaw G is pivoted at G' to a lug A² on the base A and is provided near its upper portion with a flange or plate G², the one edge of which leans and rides against the guide-surface E³ of the jaw E. A spring-pressed plunger H is mounted in the member G and is normally held in its outward position by a spring H'. This part of the mechanism is common to a great many button-assembling presses, and I therefore do not deem it necessary to further describe it, as said mechanism forms no part of my invention.

In operation the handle C' of the lever C is pressed in a downward direction, thus swinging the power-jaw E on its pivot E² into the position shown in Fig. 3. During this operation the flange G² of the member G rides along the guide-surface E³ of the jaw E, as illustrated in Fig. 3. A projection G³ prevents the lower jaw G from being thrown too far to the left in Fig. 3.

It will be understood by reference to Figs. 1 and 3 that the center of gravity of the lower jaw member G should always be to the right of the supporting-pivot G', or, in other words, that a vertical line drawn through the center of gravity of the jaw G should pass between the centers of the pivots G' and E² during the movement of the parts from the position shown in Fig. 1 to that shown in Fig. 3.

It will be seen from the above description that by having the flange G² of the jaw G riding on the guide-surface E³ of the jaw E the two jaws E and G are always retained in proper relation to each other to obtain the best results. It will also be noticed that my device is very simple in construction and that a very great amount of pressure can be obtained with very little exertion. The projection C² serves to limit the downward movement of the lever C by engaging a portion of the standard B.

Various modifications may be made without departing from the nature of my invention. I also wish it distinctly understood that while I have described my machine in connection with a button-press the said invention may be used as a seal-press or, in fact, as a press of this description for any purpose. It is to be further understood that the press although described as a hand-press may also be operated by foot-power by suitably connecting the lever C with a treadle.

I claim and desire to secure by Letters Patent—

1. A press comprising a base, swinging jaws each pivotally connected with said base, and a lever also pivotally mounted on said base and operatively connected with one of said jaws to swing it, one of the said jaws having a guide engaged by the other jaw, to cause one jaw to follow its mate as it is swung by the lever, so as to maintain both jaws in proper working relation to each other.

2. A press comprising a base, a swinging jaw pivoted thereto and provided with a guide, another jaw likewise pivoted to the base and arranged to lean and ride against the guide during the movement of the jaws, a lever fulcrumed on said base, and a link the ends of which are pivoted to said lever and to the first-named jaw respectively.

3. A press comprising a base, two swinging jaws pivoted thereto, one of said jaws being

provided with a guide and the other with an
engaging portion so arranged that gravity
will cause one jaw to lean against the other
and follow its movement, and means for
5 swinging the jaw against which the other
leans.

In testimony whereof I have hereunto set

my hand in the presence of two subscribing
witnesses.

HORACE THURSTON.

Witnesses:

ALEXANDER BEVAN,
EDMUND D. SHERMAN.