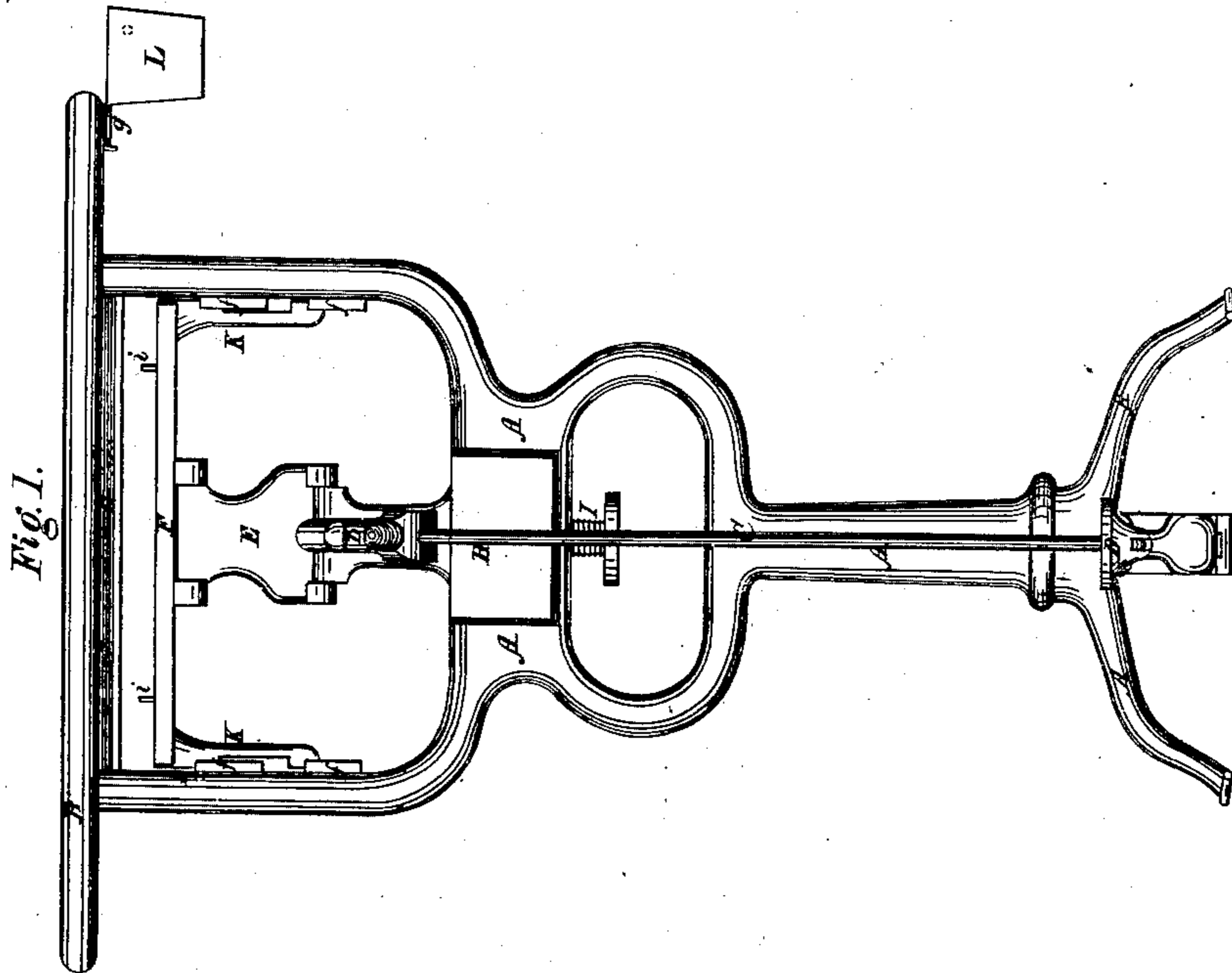
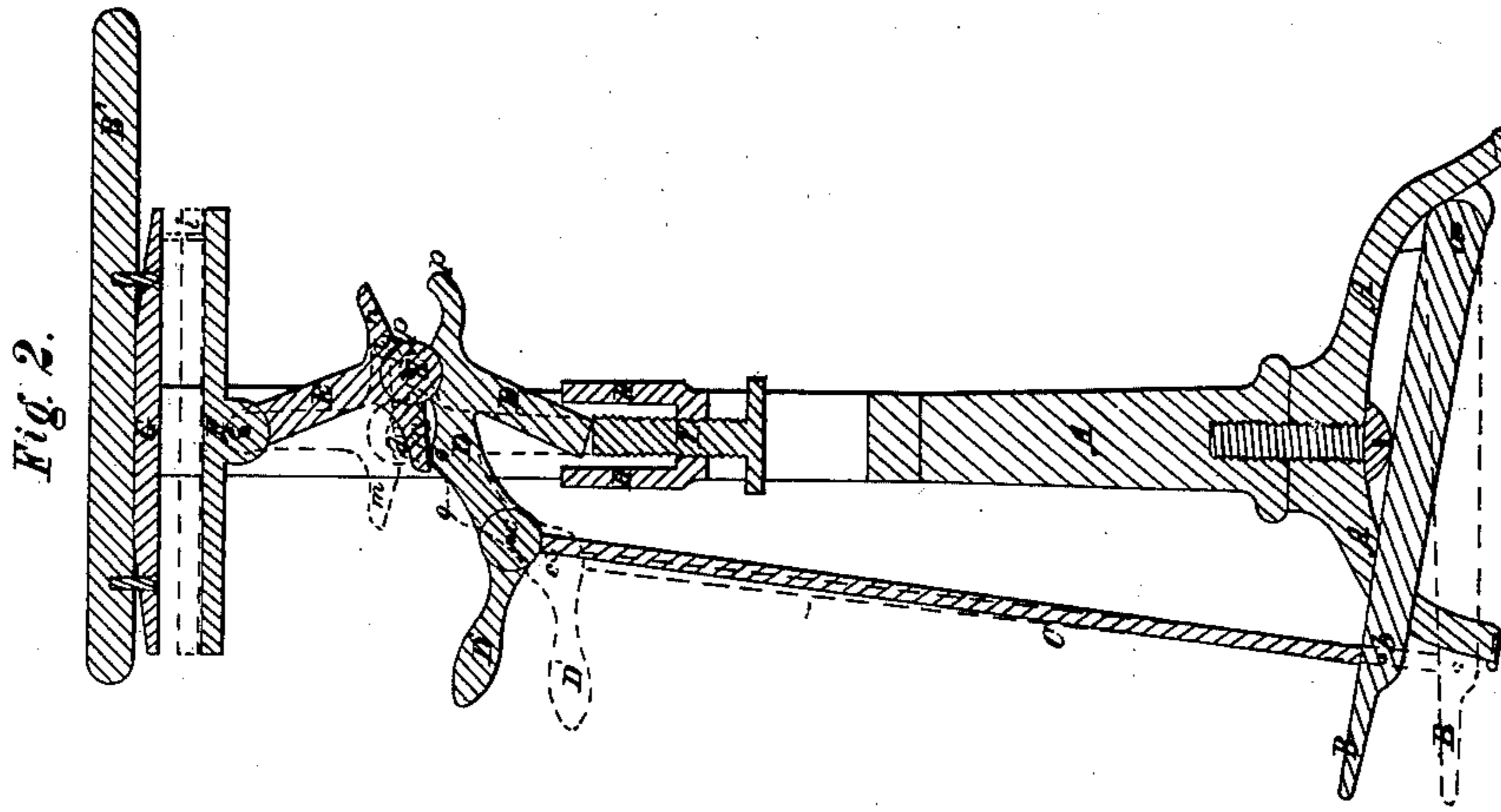


No. 30,204,

PATENTED OCT. 2, 1860.

C. CHAMBERS, JR.
COPYING PRESS.



Witnesses,
J. M. Howard
R. H. Keeler.

Inventor,
Cyrus Chambers Jr.
by his Attorney
Chas. F. Mansbury

UNITED STATES PATENT OFFICE.

CYRUS CHAMBERS, JR., OF PHILADELPHIA, PENNSYLVANIA.

COPYING-PRESS.

Specification of Letters Patent No. 30,204, dated October 2, 1860.

To all whom it may concern:

Be it known that I, CYRUS CHAMBERS, JR., of the city and county of Philadelphia, in the State of Pennsylvania, have invented an
5 Improved Copying-Press; and I do hereby declare the following to be a correct description of the same, reference being had to the accompanying drawings, in which—

10 Figure 1, is a front elevation of my improved press, and Fig. 2, a vertical central section of the same from front to rear.

The nature of my invention consists in constructing a copying press with the traveling platen working upward and operated
15 by a toggle connected with a treadle controlled by the foot, so that the upper part of the press is left free to receive a top which can be used as an office table or stand, the whole forming a most convenient and
20 ornamental press, as hereinafter more particularly set forth.

To enable others to make and use my improved press, I will proceed to describe its construction and operation referring to
25 the drawings, where the same part is marked in both figures by the same letter of reference.

A marks the cast iron frame of the press all of which, except the feet, is cast in one
30 piece including the upper platen. The column is supported on three feet which are attached by a screw as shown in Fig. 2, or in any other suitable manner. On top of the frame is attached a top of wood of
35 proper size and shape to be used as a table or stand.

Pivoted at *a* to the rear leg of the frame is a treadle B in a convenient position to be worked by the foot. To this is pivoted at
40 *b* a rod C, the upper end of which is similarly united at *c* to the lower arm D of the toggle which is hinged at *d* to the upper arm E of the same. This arm is hinged at *e* to the lower platen F of the press. The upper
45 platen or bed G is in one piece with the frame A, and supports the wooden table B' above it. The lower arm D of the toggle rests in a mortise H and on top of a screw I by which it can be raised and lowered. This
50 screw regulates the pressure given by the platen and enables it to be adjusted to books of different thicknesses. The arms of the toggle have stops *m, n, o, p*, upon them to limit the motion of the platen F. This
55 platen has side brackets K, which slide in

guides *j* on the inner sides of the frame. Stops *i, i*, on the rear part of the upper face of this platen prevent the book introduced between the platens, from going back too far.

A water cup L is attached by a catch *g* at one end of the table in such a manner as to be readily removable for cleansing or other desired purpose.

The red dotted lines in Fig. 2, show the position of the parts when the platen F is at its highest point, and pressure applied. The full black lines show it in its lowest position the pressure being taken off. The lower arm of the toggle has an arm or handle D' by raising which the pressure is relieved.

The operation of my improved press is as follows:—The book in which the copies are to be made, is placed on platen F and the press adjusted by screw I to its thickness, and so as to give the proper pressure. To give the pressure, the foot is applied to the treadle B by depressing which the toggle is brought into the position shown by red lines in Fig. 2. The foot may then be removed, the platen F remaining in its raised position as long as may be necessary. To relieve the pressure and release the book, it is only necessary to raise handle D' when platen F falls and the book can be removed.

Having thus fully described my improved press, what I claim and desire to secure by Letters Patent is—

1. The combined stand and press constructed substantially as described.
2. The combination of the bed, toggle, platen and treadle for the purpose and substantially in the manner specified.
3. The stops *m, n, o, p* on the arms of the toggle arranged and operating as specified.
4. The lugs or stops *i* on the platen F to determine the position of the book in the press.
5. The combination of the mortise and screw for the purpose set forth.

6. Casting the column, frame and bed in one piece in the manner described and shown.

The above specification, signed and witnessed this 14th day of August, A. D. 1860.

CYRUS CHAMBERS, JR.

Witnesses:

R. L. ARMSTRONG,
GEO. W. HOLLINGSWORTH.