

(No Model.)

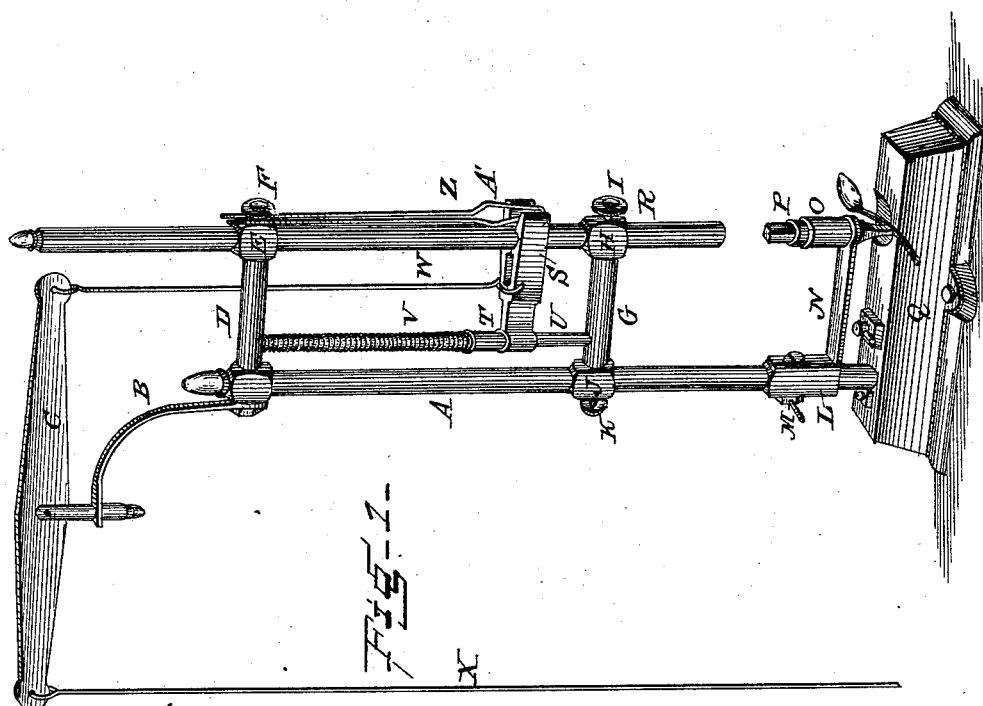
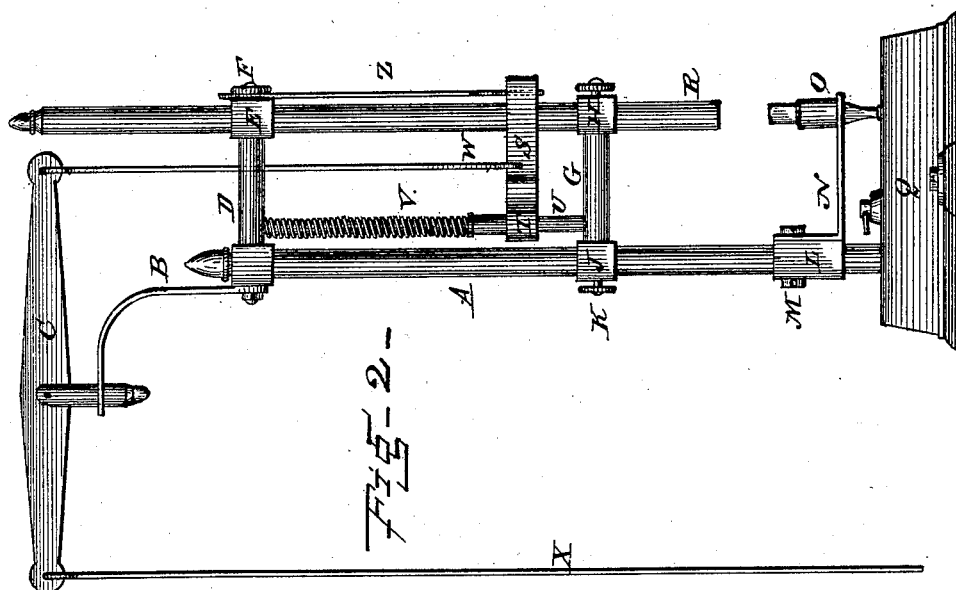
2 Sheets—Sheet 1.

W. D. CHAPMAN.

STAMPING PRESS.

No. 305,290.

Patented Sept. 16, 1884.



WITNESSES:

Ad. G. Dietrich.
J. J. Secher.

INVENTOR.

INVENTOR.
William D. Chapman
 By *Louis Bagger & Co*
 ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

W. D. CHAPMAN.

STAMPING PRESS.

No. 305,290.

Patented Sept. 16, 1884.

FIG-3-

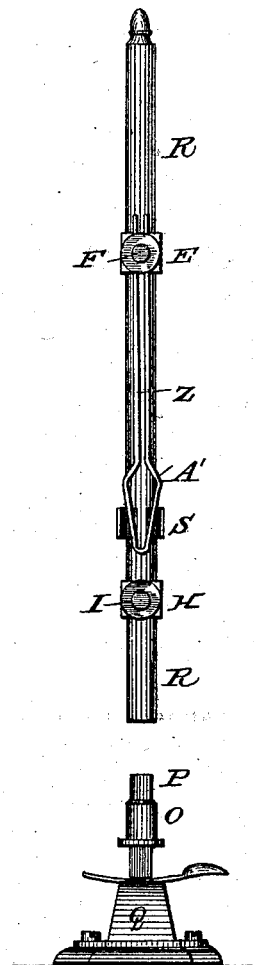
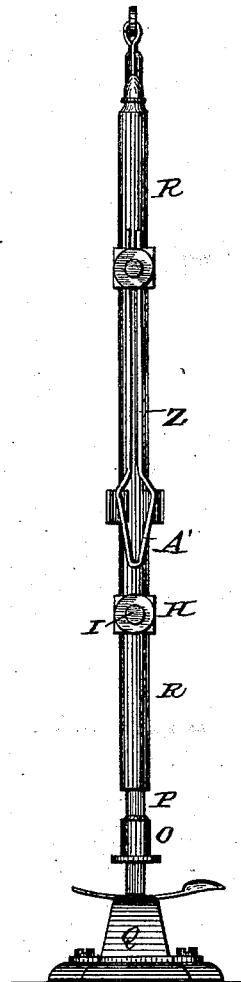


FIG-4-



WITNESSES:

And. S. Dieterich
J. H. Fecher

William D. Chapman
INVENTOR.

By Louis Baggett & Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM D. CHAPMAN, OF THERESA, NEW YORK.

STAMPING-PRESS.

SPECIFICATION forming part of Letters Patent No. 305,290, dated September 16, 1884.

Application filed February 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. CHAPMAN, of Theresa, in the county of Jefferson and State of New York, have invented certain new and useful Improvements in Stamping-Presses; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved stamping-press. Fig. 2 is a side view of the same, and Figs. 3 and 4 are front views showing the plunger and its clamp in two different positions.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to presses for stamping ornaments or letters in metallic articles; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates an upright having a rearwardly-extending bracket, B, at its upper end, upon the end of which is pivoted a horizontal double lever, C, and having a forwardly-extending bracket, D, at its upper end, the outer end of which forms a vertical bearing, E, provided with a set-screw, F. Another forwardly-projecting bracket, G, forming a vertical bearing, H, at its outer end, provided with a set-screw, I, and forming a bearing, J, at its inner end, provided with a set-screw, K, slides with the said bearing upon the upright, being capable of adjustment by the set-screw. A block, L, having a set-screw, M, slides upon the lower end of the upright, where it may be adjusted by the set-screw, and is provided with a forwardly-projecting flat spring-arm, N, the outer end of which forms a slightly downwardly-tapering sleeve or socket, O, into which the die P, the lower end of which is provided with the desired letters or ornamentation, is inserted, and in which the die may be secured by means of soft solder poured in between the sides of the die and the sleeve, or by any other desirable means. The upright is secured at

its lower end in a base, Q, the forward end of which forms an anvil, upon which the article to be stamped may be placed.

R is the plunger, consisting of a bar sliding in the vertical bearings in the outer ends of the brackets, in which bearings the plunger may be secured and held firmly suspended over the anvil, while the work is being adjusted or while not in use, by means of the set-screws in the bearings.

A clamp, S, consisting of two forwardly-projecting arms or jaws, slides with its inner end, which forms a bearing, T, upon an upright rod, U, projecting from the inner end of the lower sliding bracket, and is forced downward by a spring, V, secured to the upper end of its bearing and to the inner end of the upper bracket, sliding upon the upper end of the upright rod, while a rod, W, is secured to the clamp near its outer end, and is secured at its upper end to the forward end of the double lever at the top of the upright, to the other end of which is secured a cord or rod, X, passing downward to a treadle or other means for drawing it down. A doubled rod, Z, forming a rhombic or lozenge-shaped enlargement, A', at its lower doubled end, slides with its upper ends between the bearing of the upper bracket and the set-screw upon the same, by which it may be clamped and held adjusted at any desired height. The outer ends of the clamp project far enough beyond the point at which they clamp the plunger to bear upon the inclined sides of the enlargement of the doubled rod; and it will be seen that when the forward end of the lever is tilted upward the clamp will raise the plunger until the outer ends of the clamp strike the inclined sides of the enlargement upon the end of the doubled bar, which will force the jaws apart, allowing the plunger to drop, striking the die, whereupon the spring bearing against the clamp will force the same down, allowing it to clamp it again for another stroke. It will also be seen that, the die being fastened in the end of a spring, the die will be forced down upon the work when struck, whereupon the spring will again raise it free of the work, allowing the work to be removed or its position changed. It will also be seen that by moving the lower

bracket up or down, the stroke of the plunger may be regulated and adjusted to any length, and consequently to any strength desired.

By the foregoing description, taken in connection with the accompanying drawings, the operation of my press will be readily understood without further explanation.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, in a press for stamping metallic articles, of an upright having brackets forming vertical bearings, a die-holding spring-arm sliding adjustably upon the upright, a plunger sliding in the vertical bearings, a clamp adapted to grasp the plunger, and means for raising the clamp and for separating its ends at the end of its upstroke, as and for the purpose shown and set forth.

2. In a stamping-press, the combination of a vertically-sliding plunger, a clamp adapted to grasp the plunger and having means for being raised and forced down, and a bar formed with an enlargement at its lower end adapted to separate the ends of the clamp at the end of its upstroke, as and for the purpose shown and set forth.

3. The combination, in a stamping-press, of a base forming an anvil, an upright having a forwardly and rearwardly projecting bracket, the forwardly-projecting bracket forming a vertical bearing at its outer end provided with

a set-screw, an adjustable sliding block having a forwardly-projecting spring-arm forming a sleeve at its outer end, a die secured in the said sleeve, a bracket sliding adjustably with its inner end upon the upright and forming a vertical bearing at its outer forward end provided with a set-screw, a plunger sliding in the bearings of the brackets, a vertical rod projecting upward from the inner end of the sliding bracket, a clamp sliding with its inner end upon the upright rod and adapted to clamp the plunger with its outer ends, a spring secured to the inner end of the upper bracket and bearing against the inner end of the clamp, a doubled rod sliding adjustably upon the upper vertical bearing and forming a rhombic enlargement at its lower doubled end, a lever pivoted upon the end of the rearwardly-projecting bracket, and having means for tilting its rear end downward, and a rod hinged at its upper end to the forward end of the lever and secured at its lower end to the clamp, all constructed to operate as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WILLIAM D. CHAPMAN.

Witnesses:

DORMAN WALRADT,
HENRY D. SCHERMERHORN.