

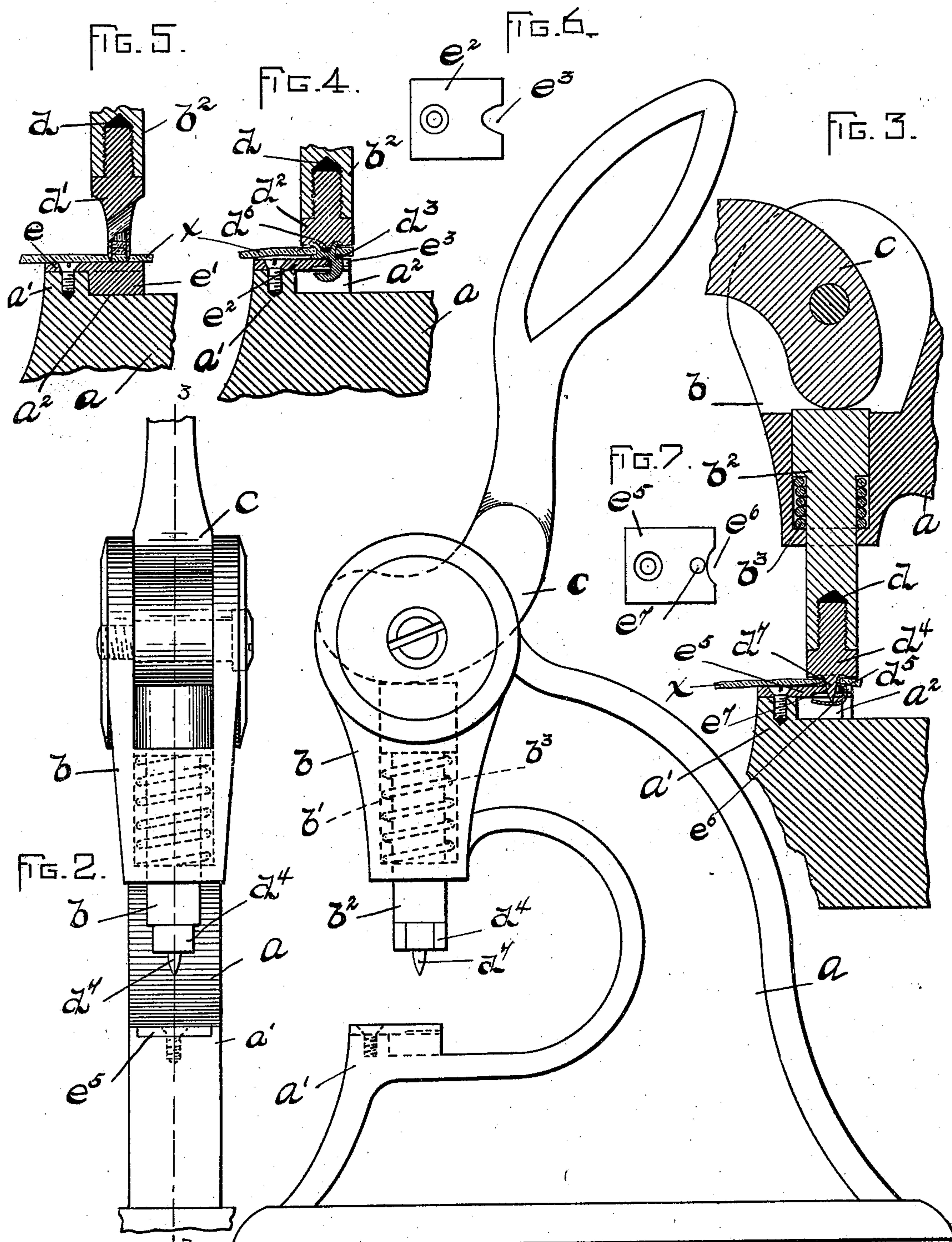
(No Model.)

R. F. BARRY.

MACHINE FOR SETTING LACING STUDS OR HOOKS.

No. 504,295.

Patented Aug. 29, 1893.



WITNESSES:

A. D. Hanson  
Parker Bros.

FIG. 1.

INVENTOR:

by R. F. Barry,  
Wright, Brown & Rossby.  
174-20.



# UNITED STATES PATENT OFFICE.

RICHARD F. BARRY, OF NEWTON, MASSACHUSETTS.

## MACHINE FOR SETTING LACING STUDS OR HOOKS.

SPECIFICATION forming part of Letters Patent No. 504,295, dated August 29, 1893.

Application filed March 30, 1893. Serial No. 468,320. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD FREDERICK BARRY, of Newton Highlands, in the county of Middlesex and State of Massachusetts, have  
5 invented certain new and useful Improvements in Machines for Setting Lacing Studs or Hooks, of which the following is a specification.

This invention relates to a machine for setting  
10 eyelet devices, such as lacing studs or hooks for shoes.

The object of the invention is to provide a hand stamping press constructed to accommodate interchangeable bed-plates and dies,  
15 whereby the machine may be used for punching out holes to receive the eyelets and converted into a machine for setting either studs or hooks.

To this end the invention consists in certain  
20 novel features of construction and combinations of parts which will be fully described hereinafter, and pointed out in the claim.

Referring to the accompanying drawings which illustrate a construction by which the invention may be carried out, Figure 1 shows  
25 a side elevation of the stamping press. Fig. 2 shows a front elevation. Fig. 3 shows a section on line 3—3 of Fig. 2, illustrating the operation of the machine when adapted for attaching lacing hooks; Fig. 4 a similar section illustrating the adaptation of the machine for attaching lacing studs; Fig. 5 a sectional view illustrating the machine adapted  
30 for punching holes to receive the eyelets. Figs. 6 and 7 show details of different forms of bed-plates.

The reference letter, *a*, designates a frame, which is formed with a horizontal bed, *a'*, having a recess, *a<sup>2</sup>*, opening out of its top and  
40 rear sides. The frame has a head, *b*, standing over the said bed, and provided with a bore, *b'*, in which fits a plunger, *b<sup>2</sup>*, and a retracting spring, *b<sup>3</sup>*, around said plunger. The plunger is actuated by means of a cam lever, *c*,  
45 pivoted to the head, *b*, and engaging the top of the plunger. The plunger, *b<sup>2</sup>*, has a screw threaded socket, *d*, which is adapted to receive interchangeable dies, one of which, *d'*, is a circular punch for cutting holes in the

leather, *x*, or other material, as illustrated in  
50 Fig. 5, another, *d<sup>2</sup>*, a die for upsetting lacing studs, as, *d<sup>3</sup>*, see Fig. 4, whose eyelet portions are closed, and another, *d<sup>4</sup>*, a die for upsetting lacing hooks as, *d<sup>5</sup>*, whose eyelets are  
55 open through, see Fig. 3. The die, *d<sup>2</sup>*, has a slight blunt projection, *d<sup>6</sup>*, at the center to engage the eyelet of the stud, while the die, *d<sup>4</sup>*, has a pointed spur, *d<sup>7</sup>*, to pierce the eyelet of the hook.

The bed, *a'*, is adapted to receive interchangeable bed-plates to correspond with the  
60 dies. When the punch, *d'*, is used, a soft metal bed-plate, *e*, having a block, *e'*, is fastened on the bed, *a'*, and the block fills the recess, *a<sup>2</sup>*, and constitutes a bed to receive the  
65 impact of the punch.

When the die, *d<sup>2</sup>*, is in use, a plate, *e<sup>2</sup>*, is fastened on the bed, *a'*, and projects over the recess, *a<sup>2</sup>*. This plate serves as a holder for  
70 a stud as, *d<sup>3</sup>*; and the recess, *a<sup>2</sup>*, affords space in which to receive the hook portion of said stud. The hook of the stud having a thick shank, a notch, *e<sup>3</sup>*, of considerable depth is made in the plate, *e<sup>2</sup>*, to receive the shank of  
75 the hook and allow the eyelet portion of the stud to take position under the die. When the die, *d<sup>4</sup>*, is in use, a similar plate, *e<sup>5</sup>*, is fastened on the bed, *a'*, but this plate has not so deep a notch, *e<sup>6</sup>*, as the plate, *e<sup>2</sup>*, for the reason that a lacing hook, as, *d<sup>5</sup>*, is thinner than  
80 a lacing stud. In this case as before the recess, *a<sup>2</sup>*, affords a space for the reception of the hook.

The plate, *e<sup>5</sup>*, is provided with a hole, *e<sup>7</sup>*, to allow the passage of the spur, *d<sup>7</sup>*.  
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Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A stamping-press, comprising in its construction, a frame having a bed with a recess  
90 open at one side, interchangeable bed-plates for attachment on said bed, one of said plates having a block which fills the recess, and another adapted to project over the said recess when applied on the bed, and constituting a  
95 holder for a lacing stud or hook, a plunger, and interchangeable dies for attachment to said plunger, one of said dies constituting a punch

to co-act with the block in cutting out holes  
to receive the lacing studs or hooks, and an-  
other constituting an upsetting die to act in  
the studs or hooks in conjunction with the  
5 holding-plate on the bed.

In testimony whereof I have signed my  
name to this specification, in the presence of

two subscribing witnesses, this 23d day of  
March, A. D. 1893.

RICHARD F. BARRY.

Witnesses:

C. F. BROWN,

F. PARKER DAVIS.