

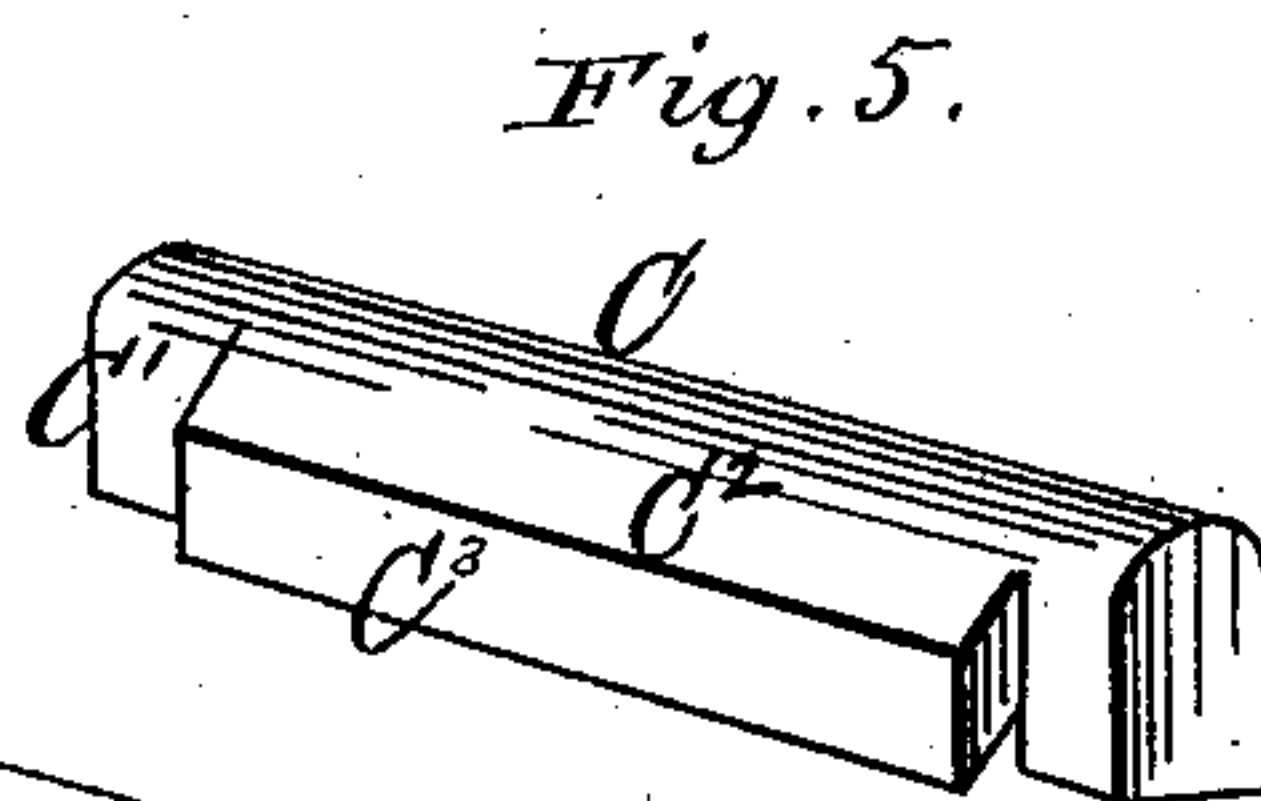
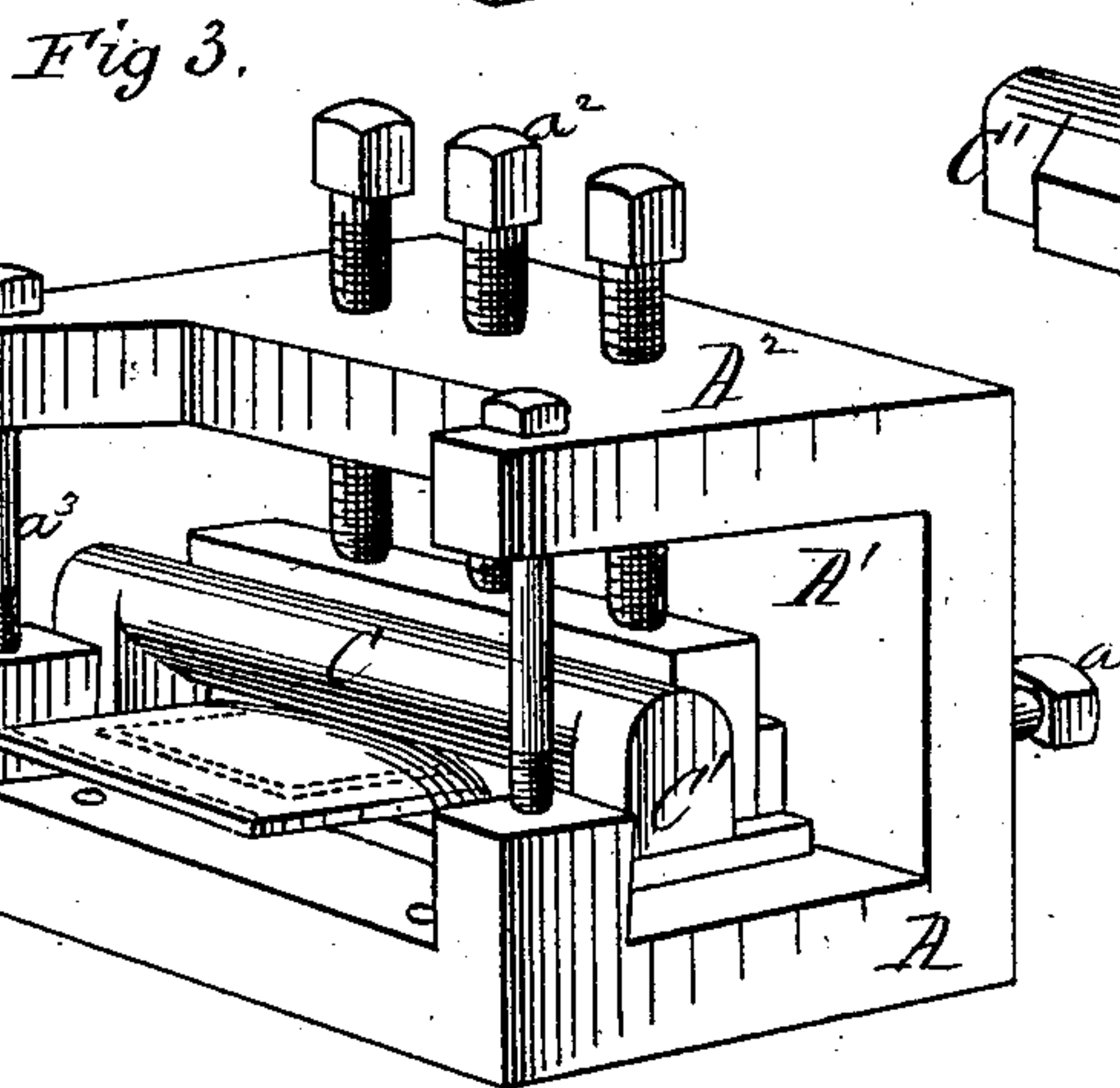
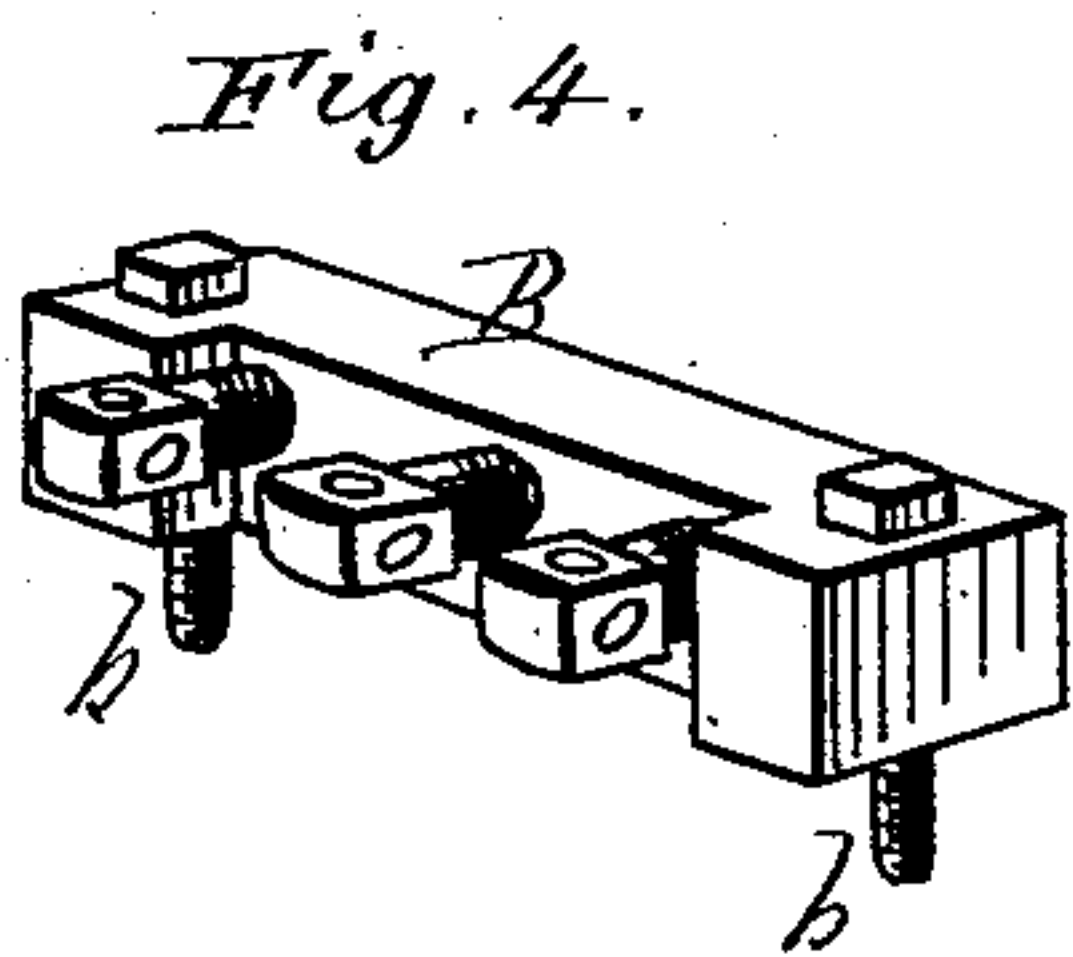
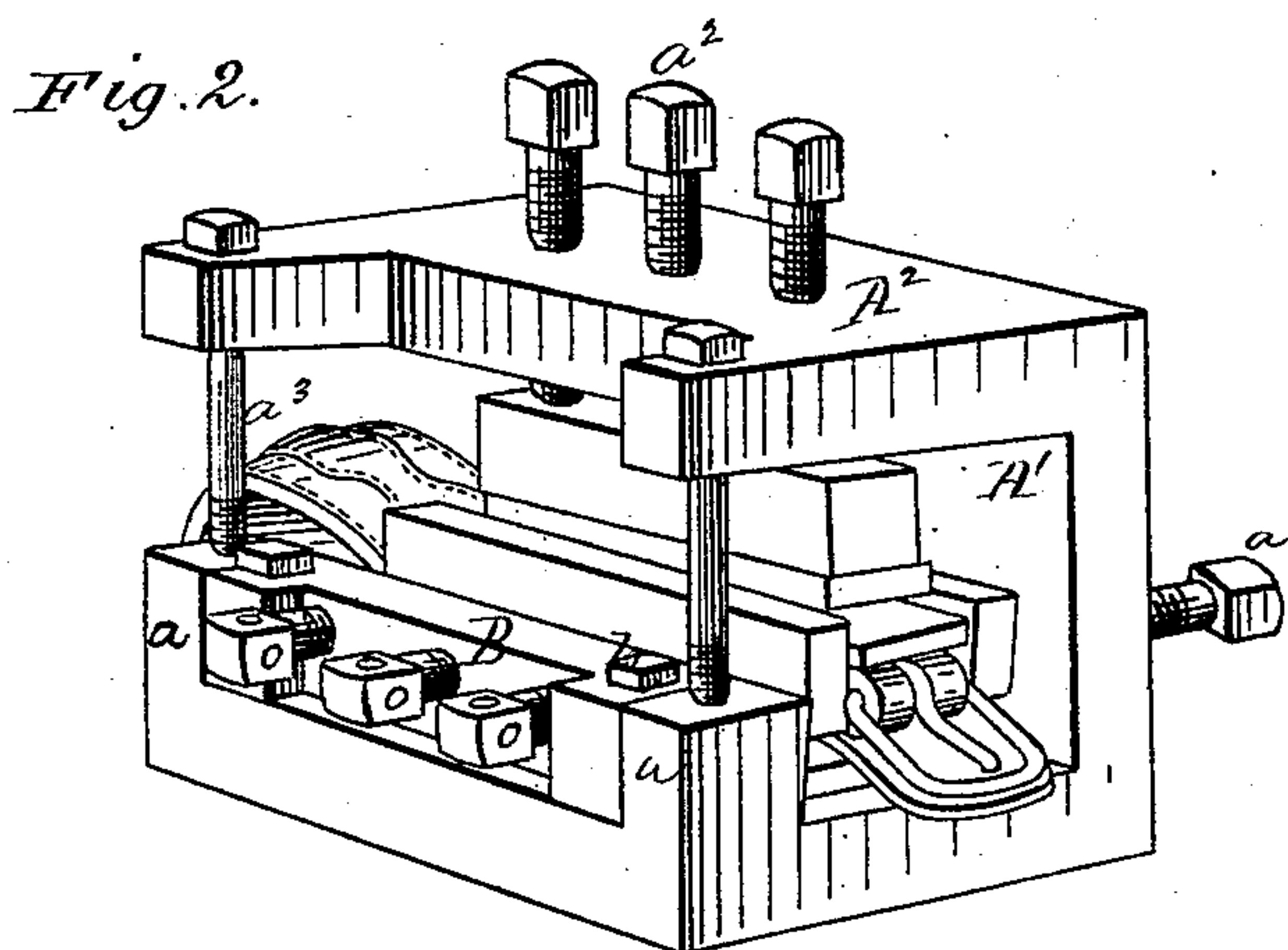
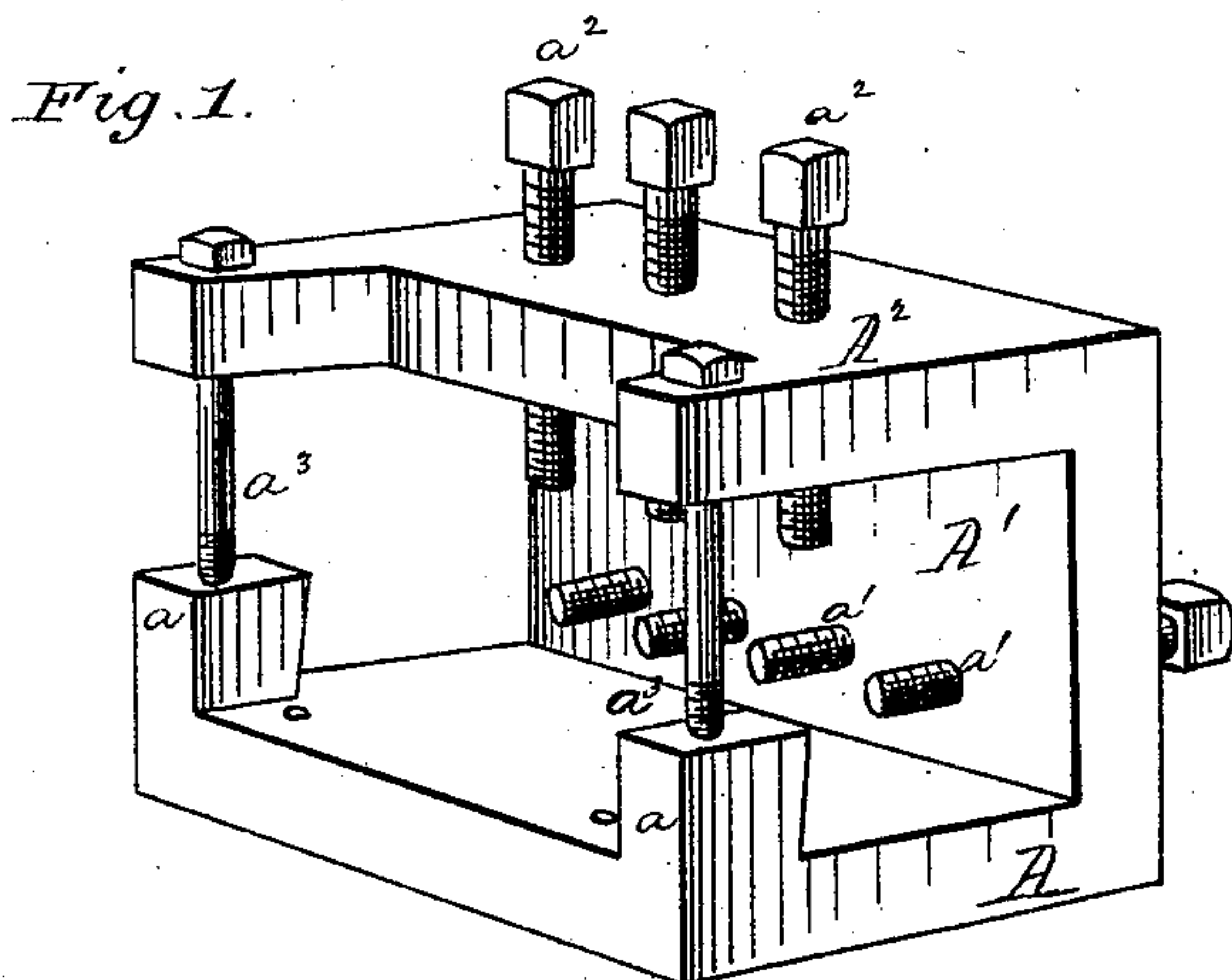
(No Model.)

W. T. LANE & J. P. AVERY.

Machines for Pressing and Ornamenting Harness-Loops.

No. 226,761.

Patented April 20, 1880.



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# UNITED STATES PATENT OFFICE.

WILLIAM T. LANE AND JOHN P. AVERY, OF NORWICH, CONNECTICUT.

## MACHINE FOR PRESSING AND ORNAMENTING HARNESS-LOOPS.

SPECIFICATION forming part of Letters Patent No. 226,761, dated April 20, 1880.

Application filed March 8, 1880. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM T. LANE and JOHN P. AVERY, both of Norwich, county of New London, State of Connecticut, have invented certain new and useful Improvements in Machines for Pressing and Ornamenting the Loops of Harness, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of the press with the front or movable clamp removed. Fig. 2 is a perspective view, showing the removable clamping-block in place and the parts in the position which they occupy when pressing a strap or loop. Fig. 3 is a perspective view of the press, showing the manner of pressing the winker-strap. Fig. 4 is a perspective view of the removable pressing block or jaw, and Fig. 5 is a similar view of the block or jaw used when the press is used for pressing the winker-strap.

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

Our invention relates to a novel construction of press whereby it is adapted to press the sides and top of the straps of harness at one and the same operation; also, to a novel construction of device whereby the sides and top of the winker-strap may also be pressed in a similar manner and after being connected to the winker, all as hereinafter described.

In the accompanying drawings, A A' A<sup>2</sup> represent the frame of the press, cast in one piece and forming the top, bottom, and one side thereof. The bottom or base plate A is provided with lugs or ears *a*, one at each corner of its open end, which are also cast with the frame, the top and bottom of the frame being secured together by means of bolts *a*<sup>3</sup> passing through the top plate, A<sup>2</sup>, and into the lugs or ears *a*.

B is a block or plate which fits between the lugs or ears *a*, and is secured to the base-plate A by means of bolts or screws *b*, and in which plate the clamping-screws which move one of the side dies are mounted. The side plate, A',

is also provided with similar clamping-screws *a'* *a'* *a'*, which are preferably arranged so as to alternate with those in the front bar, B, and which screws serve to move the opposite die.

The top plate, midway of its width, is provided with clamping-screws *a*<sup>2</sup> *a*<sup>2</sup>, two or more being used as desired, by means of which the die for pressing or pressing and ornamenting the face of the strap is moved.

In Fig. 2 the machine is shown as being used to press or ornament any ordinary strap with buckle, in which case the plate or bar B is used, and from which it will be seen that the top and bottom of the strap, as also the sides, can be pressed at one and the same operation through the intervention of suitable clamping blocks or dies, as shown. When it is desired to press or ornament a winker-strap, or any strap having a similar projecting side, the block B is removed and a block, C, substituted. This block is composed of the uprights C', which, when in position, rest against the inner faces of the lugs or ears *a* and of the central portion, C<sup>2</sup>, this central portion corresponding in length to the space between the lugs or ears *a*, and extending in beyond the uprights C' in a downwardly-inclining direction, terminating at its inner side in a vertical wall or face.

By this construction of bar it will be seen that the side of the strap next to the winker can be pressed without injuring the face of the winker, as the face C<sup>3</sup> forms the pressing-wall or face of the block C, the winker being protected from injury by the beveled bar C<sup>2</sup>, under which it passes. When this bar is used no pressure is applied from the front, the clamping-screws on the back only being required to force the strap up against the face C<sup>3</sup> of the block. The upper and lower faces of the strap are pressed by means of the screws *a*<sup>2</sup> *a*<sup>2</sup> in the upper plate, A<sup>2</sup>, as in the case of the ordinary strap or loop.

Having now described our invention, we claim—

1. In a machine for pressing and ornamenting harness-loops, the angular press-frame having the three sides made in one piece, and

provided with the clamping-screws at side and top, substantially as and for the purpose described.

2. The angular frame A, provided with its  
5 clamping-screws, as described, in combination with the removable block B, provided with clamping-screws operating substantially as described.

3. The angular frame provided with the

lugs or ears, in combination with the removable angular block C for pressing the loop on the winker, substantially as described.

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