J. CHARLTON.

MECHANISM FOR SETTING EYELET-HOOKS.

No. 195,341. Patented Sept. 18, 1877.

Fig. 1

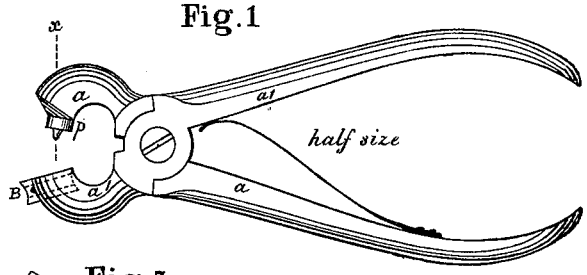

Fig. 2

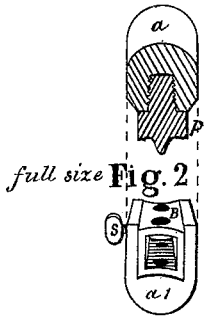

Fig. 3

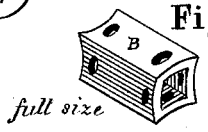

Fig. 4

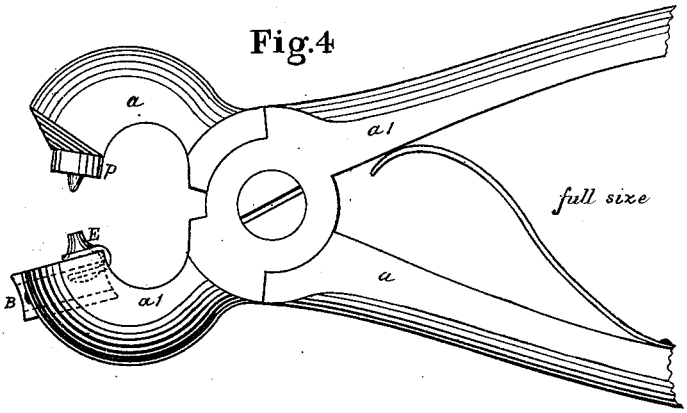

Fig. 5

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IMPROVEMENT IN MECHANISMS FOR SETTING EYELET-HOOKS.

Specification forming part of Letters Patent No. **195,341**, dated September 18, 1877; application filed February 15, 1877.

To all whom it may concern:

Be it known that I, JOHN CHARLTON, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Machines for Attaching Eyelet-Hooks to Leather, &c., which improvement is fully set forth in the following specification.

The object of my invention is to make an instrument adapted to fastening eyelet-hooks of various sizes to boots or shoes which fasten by laces.

The invention consists of a hollow block of steel in the form of a parallelopiped, about three-eighths of an inch square by about thirteen-sixteenths of an inch long, the ends being concave, having an aperture about one-fourth of an inch square, whose sides are parallel with the outer sides of the block, and extending lengthwise through it, and having at varying distances from the ends, on every side, two round holes drilled through the sides into the central aperture. The entire block is fitted into a slot cut into one of the peculiar-formed jaws of an instrument having jaws and handles jointed together like a pair of tongs, and held in its place by a set-screw, there being a suitable punch in the opposite jaw for compressing the eyelet, the instrument being opened by a spring or not, and compressed by hand like pliers; and by means of the set-screw the block can be fastened or unfastened, as desired, or its position altered to suit a change in the size of the eyelet-hook, and then fastened in the altered position.

Figure 1 in the annexed drawings is a view of the eyelet-riveting instrument, containing the block B in the jaw *a'* and the punch P in the opposite jaw *a*. Fig. 2 is an end view, showing the block B and set-screw S in the lower jaw *a'*; also a section of the upper jaw *a* and punch P through the line *x*. Fig. 3 is a perspective view of the steel block B. Fig. 4 is a view of the jaws *a* and *a'*, (with part of the handles,) showing the block B and the eyelet E in the block B, and the punch P. Fig. 5 shows two views of an eyelet with its neck and hook complete.

When about to use the instrument for any given-sized eyelet-hooks, a hole in the steel block is first selected which suits the particular size of the eyelet-hooks about to be used. The block is then inserted into the slot in the jaw *a'*, and the jaws are closed to force the punch P into the selected hole, the block B being placed by hand in the proper position therefor, and while held in this position the set-screw S is tightened, thus fastening the block B in the position selected. The jaws must now be opened and an eyelet-hook, E, be inserted, having the hook inside the block, as shown at Fig. 4, and the leather or other material to which the eyelet-hook is intended to be fastened having had a suitable hole punched through it, the said hole in the leather is brought over the neck E of the eyelet, so that the neck projects through the leather, when, upon closing the jaws of the instrument, the punch P will enter the hollow neck of the eyelet, spreading it open and riveting it upon the leather, thereby fastening the eyelet thereto.

For other sizes the block is altered and set to suit in the same manner.

I claim as my invention—

1. The hollow steel block B, made with its various apertures, as shown, combined with the set-screw S and compressing-instrument *a* and *a'*, as shown and described, and for the purpose set forth.

2. The hollow steel block B, made as shown, with its various-sized apertures drilled at various distances from the ends, adapted for use with the jaws of an eyelet-hook-setting machine, for the purposes described.

JOHN CHARLTON.

Witnesses:

FREDK. W. BERRY,

THOMAS PAULIN.