J. O. Lewis.

Belt Tightener.

No. 98,507. Patented Jan. 4, 1870.

Fig. 1

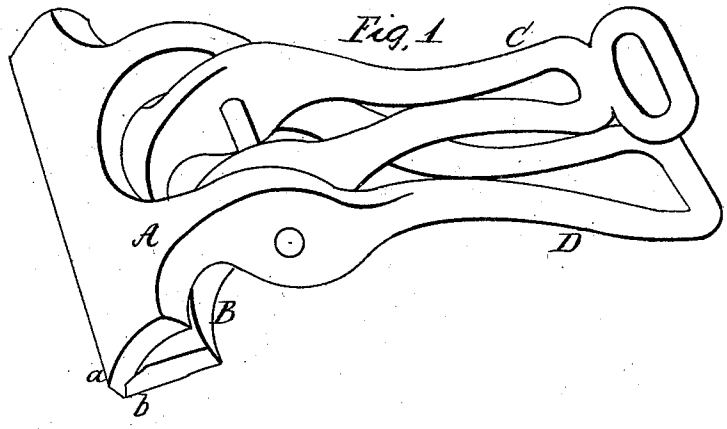


Fig. 2.

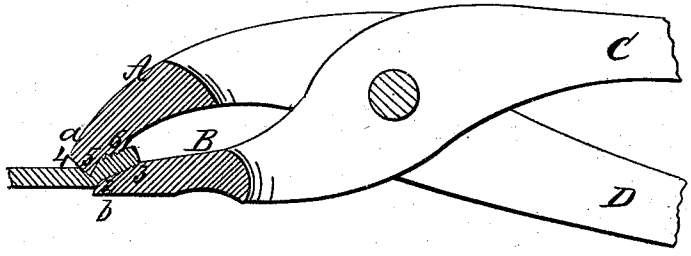
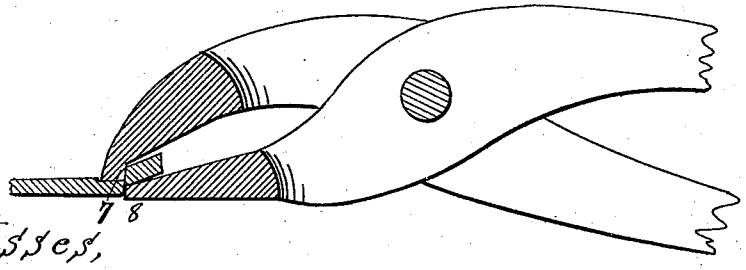


Fig. 3.



Witnesses,

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JOSHUA O. LEWIS, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 98,507, *dated January* 4, 1870.

IMPROVEMENT IN CARD-CLOTHING CLAMPS

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOSHUA O. LEWIS, of the city and county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Card-Clothing Clamps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of my improved clamp;

Figure 2 represents a cross-section through the jaws; and

Figure 3 represents a cross-section through the jaws of the clamp, as made prior to my present improvement.

To enable those skilled in the art to which my invention belongs, to make and use the same, I will proceed to describe it more in detail.

The nature of my invention relates to an improvement upon the card-clothing clamp for which Letters Patent were granted to me April 11, 1865, and consists in the peculiar form and construction of the lips of the jaws, as will be hereafter explained.

In the drawings—

A is the upper, and B, the lower jaw.

The rear operating levers C and D are constructed and operated the same as in my patent above referred to, but the lips *a* and *b* are constructed differently.

The front edge of the lip *b* of the under jaw is bevelled back from 1 to 2, and the upper side of the same jaw is bevelled off from 2 to 3, while the front edge of the upper jaw is bevelled under from 4 to 5, and then bevelled up and back from 5 to 6, as fully indicated in fig. 2 of the drawings.

By making the lips of the jaws in the manner as shown and described, the grasp upon the edge of the card clothing is more secure and firm, while, at the same time, there is not that liability of cutting the leather during the operation of clothing the cards, as there is in the use of the clamp as used prior to my present invention, the lips of which are made in the form as shown in fig. 3, and by reference to which it will be seen that the leather is clamped between the points 7 and 8, and that when the jaws are forced together sufficiently tight to hold the card-clothing while it is being drawn or secured in position, the sharp points 7 and 8 act like shears, and are very liable to cut the card-clothing. Then, again, the under side of the lip of the upper jaw having a plane surface, it requires much power to force it and hold it down sufficiently to retain the hold on the edge of the card-clothing.

All the above objections are obviated by my improved clamp, as shown in figs. 1 and 2 in the accompanying drawings.

Having described my improvements in card clothing clamps,

What I claim therein as new and of my invention, and desire to secure by Letters Patent, as an improvement upon the clamp patented to me April 1, 1865, is—

The combination of the jaws A B, having lips *a b*, made with bevelled surfaces 1, 2, 3, and 4, 5, 6, as and for the purposes shown and described.

JOSHUA O. LEWIS.

Witnesses:

THOS. H. DODGE,

ALBERT E. PEIRCE.