(No Model.)

C. C. RICHMOND.

BOX FASTENING.

No. 413,245. Patented Oct. 22, 1889.

Fig. 1.

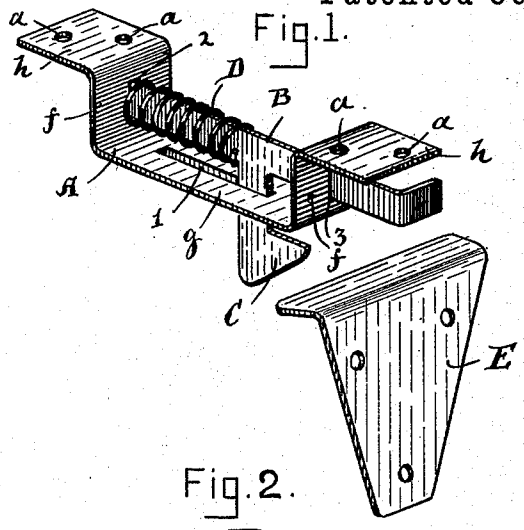


Fig. 2.

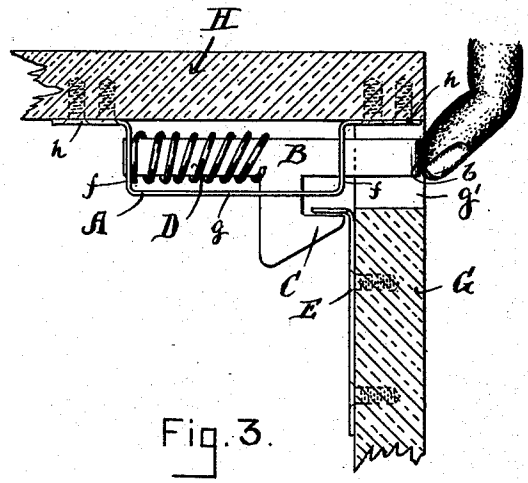


Fig. 3.

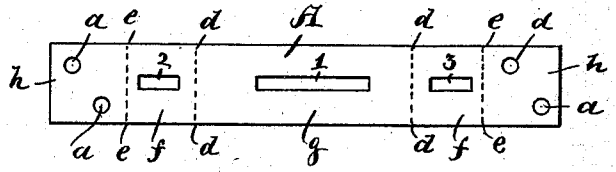
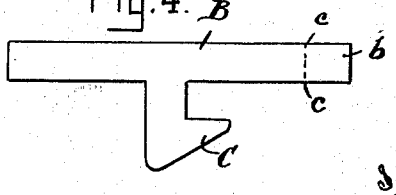


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

CHARLES C. RICHMOND, OF BOSTON, MASSACHUSETTS.

BOX-FASTENING.

SPECIFICATION forming part of Letters Patent No. 413,245, dated October 22, 1889.

Application filed June 1, 1889. Serial No. 312,907. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. RICHMOND, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Box-Fastenings, of which the following, taken in connection with the accompanying drawings, is a specification.

The object of my invention is to produce a strong, secure, and inexpensive fastening for boxes or cases employed for the transportation of bottles and other articles, which boxes or cases are returned to the sender to be refilled, the fastenings of which must be secure, and at the same time the cover be capable of being readily opened and closed.

The invention consists in the construction of the fastener of wrought metal, as hereinafter fully described, and pointed out in the claim.

Referring to the accompanying drawings, Figure 1 is a perspective view of a box-fastener embodying my invention. Fig. 2 shows a section of a portion of the front of the box and cover, showing the fastener in the locked position. Fig. 3 is a view of a strip of metal stamped out for forming the body of the fastener and before the same has been bent into shape. Fig. 4 shows a piece of metal stamped out to form the catch and push-bar.

A represents the body of the fastener, which is stamped out of a sheet or strip of metal, and is formed with three slots 1 2 3, and at each end with two screw-holes *a*. (See Figs. 1 and 3.)

B is the push-bar, and C the catch, which are stamped out in one piece, (see Fig. 4,) and D is a coil-spring.

E represents the catch-plate, which is a piece of metal having its upper end bent at right angles to the main portion.

In constructing a fastener according to my invention the parts are first stamped out, as shown in Figs. 3 and 4. The end *b* of the push-bar is then bent on the line *c*, so that the end stands at right angles to the main portion of the bar. The body A is bent on the lines *d e*, so that the portions *f f*, containing the slots 2 and 3, stand nearly at right angles to the central portion *g*, and the ends *h h* are bent so as to be at right angles with the portion *f*. The end *b* of the push-bar B is then inserted through the slot 3, and the catch C passed through the slot 1. The spring D is then placed on the push-bar and the two portions *f f* are bent so as to be at right angles with the portion *g*, the rear end of the push-bar entering the slot 2 and is firmly secured, although free to be pressed back.

In applying the fastener to a box a notch *g'* is cut in the front G of the box the width and depth of the body A, the catch-plate E is secured to the inside of the front of the box, and the body A is secured to the cover H. It will be seen that the front end of the push-bar is in the notch *g'*, and that by pressing on the portion *b* with the thumb, as shown in Fig. 2, the push-bar will be pushed back and the catch released from the catch-plate E, when the lid can be opened. When the lid is closed, the fastener is self-locking, as the beveled portion of the catch C comes into contact with the edge of the plate E, and is forced back until the catch has passed the edge of the plate, when the catch is pushed forward by the spring D.

By this construction I am enabled to produce a secure fastener for boxes and such like articles at a very small cost.

What I claim as my invention is—

A box-fastener consisting of a body A, of wrought metal bent into form and having slots 1 2 3, a push-bar B, and catch C, of wrought metal, the coil-spring D, and catch-plate E, substantially as shown and described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 16th day of May, A. D. 1889.

CHARLES C. RICHMOND.

Witnesses:
JOHN P. S. CHURCHILL,
EDWIN PLANTA.