No. 687,891. Patented Dec. 3, 1901.

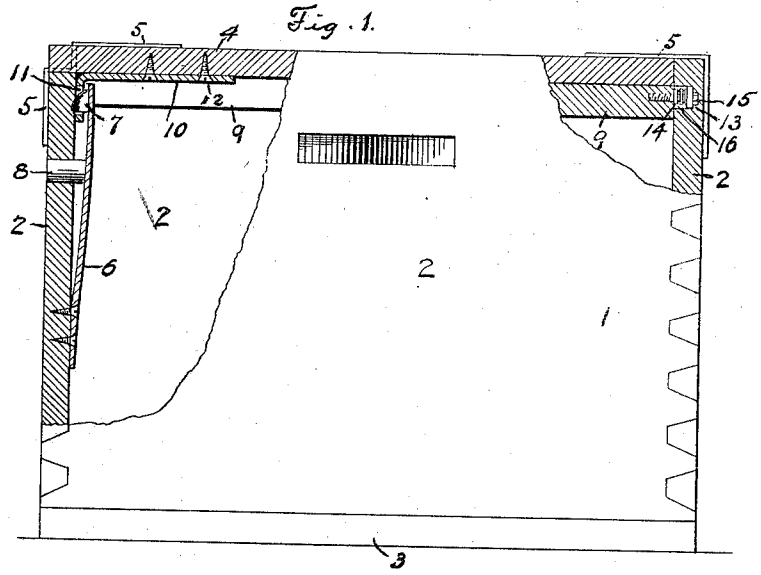
E. LARSON.

BOX FASTENER.

(Application filed Oct. 18, 1900.)

(No Model.)

Fig. 1.



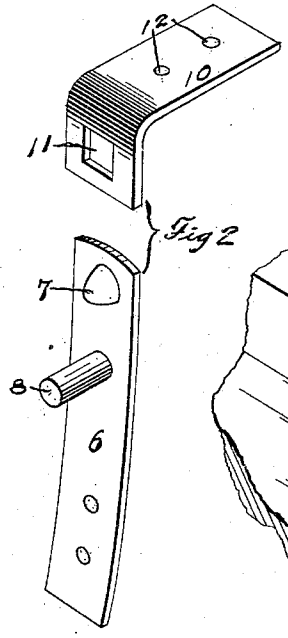


Fig 2

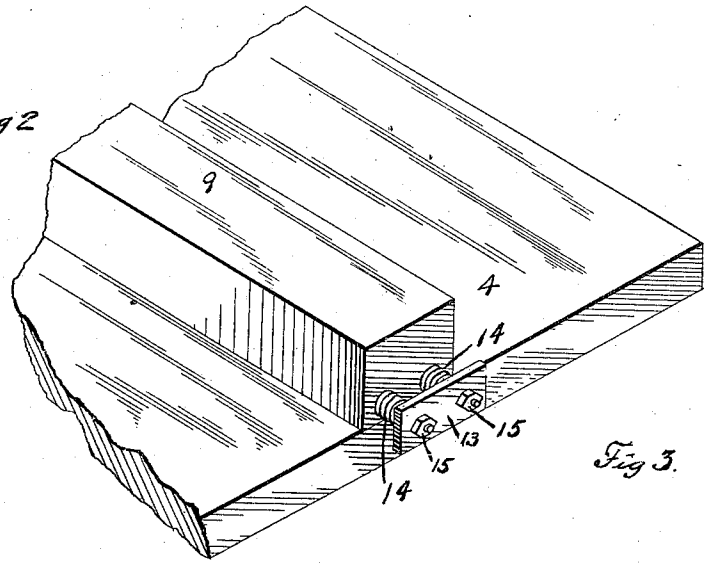


Fig 3.

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EDWARD LARSON, OF LA CROSSE, WISCONSIN.

BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 687,891, dated December 3, 1901.

Application filed October 18, 1900. Serial No. 33,447. (No model.)

To all whom it may concern:

Be it known that I, EDWARD LARSON, a citizen of the United States, residing at La Crosse, in the county of La Crosse and State of Wisconsin, (whose post-office address is 806 Rose street, La Crosse, La Crosse county, Wisconsin,) have invented certain new and useful Improvements in Box-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of my invention is to provide reliably efficient means for removably securing the top or lid of a box or other similar receptacle. As may be readily observed, the cover is detachable. By means of its peculiarly-constructed attachments the lid when closed insures a perfectly tight fit.

To further facilitate a clear understanding of the novel features embodied in the invention, I deem it sufficient to show the following views.

Figure 1 is a side elevation, partially in section, of the invention, showing the snap-catch and the means for effecting a tight joint when the lid is closed. Fig. 2 is an enlarged detail in perspective of the catch. Fig. 3 is a perspective of the under side of the lid, showing the means for effecting a tight joint when the lid is in a closed position, drawn on an enlarged scale.

The numeral 1 designates a box composed of the four similar sides 2, dovetailed or otherwise secured together, the bottom 3, and the lid or top 4, the parts being bound or otherwise strengthened by the metal strips 5, as shown.

Secured to the inner wall of the front side 2 of the box is a securing-catch 6, consisting of a piece of strap-steel, which is tempered and bent, as shown, and screwed to the box. At its upper end this spring 6 has welded to it a hook 7, and secured intermediate the hook 7 and the lower end of the spring will be seen the push-button 8, which appears on the face of the box, as it extends through a hole in the side.

The lid 4 is preferably made of one piece of material and strengthened by the braces 9. Centrally placed at the front of the top or lid, on the under side thereof, may be seen the complement 10 of the part of the catch just described. The part 10 is constructed as follows: Near one end the keeper 10 is bent at right angles and a rectangular aperture 11 cut in it to receive the lug or hook 7, as seen in Fig. 1. Suitable screw-holes 12 are formed in the end of the keeper 10, whereby the plate is secured in place. On the rear end of each of the braces 9, I secure a spring-cushion or buffer, as shown in Fig. 3. A metal plate 13 is held normally a set distance from the end of the brace by the springs 14. The plate 13 is provided with two holes, through which the stud bolts or screws 15 loosely extend, said bolts being firmly seated in the end of said braces. A coil-spring 14 is disposed around each of the bolts 15 and interposed between the end of the brace 9 and the plate 13.

The back and right and left sides of the box extend upward above the front side sufficiently to compensate for the thickness of the lid, and the lid rests on the edge of the front side and lies flush with the outside surface of the back and ends in order to make a finish. Cut into the back are recesses 16 for the reception of the parts 15 when the box is closed. The position of the recesses 16 is such that they will register with and receive the ends of the bolts 15 and also the plates 13 and accompanying buffer-springs 14, and it is obvious that the lid may be readily entered in its operative closed position by causing the plates 13 each to enter its respective recess and then moving the lid into a horizontal position, so that the part or keeper 10 will engage the hook 7. By reference to Fig. 1 of the drawings it will be observed that in order to open the lid of the box all that is required is to press inward upon the button 8, which will cause the hook 7 to become disengaged from the catch 10, permitting the lid to be freely raised and bodily removed from its connection with the box. The bottom of the recesses 16, it will be understood, is provided with suitable countersinks or auxiliary recesses designed to loosely receive the ends of the bolts 15 and the nuts thereon, thus bringing the plate 13 to bear against the bottom of the recesses and permitting the tensile properties of the cushioning effect of the springs to be fully utilized.

Having thus fully described the construction and use of my invention, what I claim as new, and desire to secure by Letters Patent, is—

A box-fastener of the character specified comprising a lid-section having braces 9; a pair of bolts 15 fitting suitable sockets in the ends of said braces; a plate 13 having apertures adapted to loosely receive said bolts and a buffer-spring carried by each bolt and disposed between the bottom of the socket formed in the end of the brace and said plate, in combination with a body portion or box having recesses in its upper edge and inner side adapted to receive the plates 13 and the protruding ends of the bolts 15 whereby said plates will engage the bottom of said recesses and thus bring the force of said springs into operation to hold the contiguous edge of the lid in place and suitable means to engage and secure the opposite edge of the lid, all operatively combined substantially as specified and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD LARSON.

Witnesses:
OLAF LARSEN,
JOHN REED.