

J. L. STEVENS.
BOX-LID FASTENING.

No. 170,410.

Patented Nov. 23, 1875.

Fig. 1

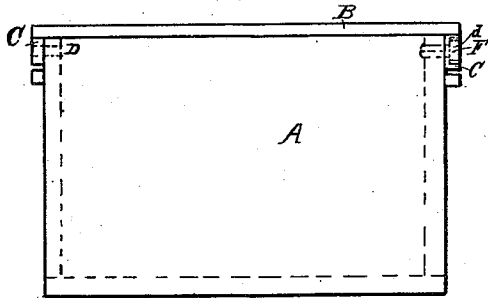


Fig. 2

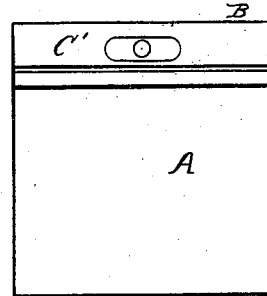


Fig. 3

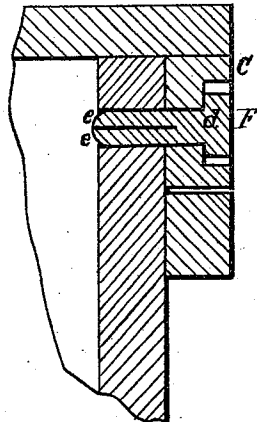
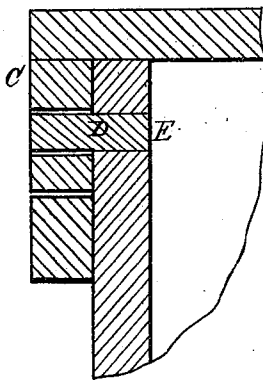


Fig. 4

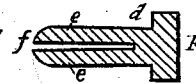


Fig. 5



Fig. 6



Fig. 7



Fig. 8



WITNESSES

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JOHN L. STEVENS, OF CHICAGO, ILLINOIS, ASSIGNOR TO BILLINGS, COBURN
& CO., OF SAME PLACE.

IMPROVEMENT IN BOX-LID FASTENINGS.

Specification forming part of Letters Patent No. **170,410**, dated November 23, 1875; application filed
October 20, 1875.

To all whom it may concern:

Be it known that I, JOHN L. STEVENS, of Chicago, in the county of Cook and State of Illinois, have invented a new, useful, and Improved Box-Lid Fastener; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming a part hereof, in which—

Figure 1 is a side elevation of a box with my improved lid-fastener attached thereto. Fig. 2 is an end view of the same. Fig. 3 is an enlarged longitudinal central section of the same. Fig. 4 is an enlarged longitudinal central section of the spring fastening-pin detached. Figs. 5 and 6 are end views of the same, and Figs. 7 and 8 are longitudinal central sections of a modified form of the spring fastening-pin.

Like letters of reference indicate like parts.

My invention relates more especially to that class of fastening devices used in boxes having a removable cover and employed in the transportation of eggs, fruit, &c., but may be used in connection with covers when hinged to the body of the case or box; and its object is to provide a cheap, reliable, and easily-adjusted fastening for securing the cover on the box. To that end it consists in a slotted bolt or pin adapted to pass through the cleat on the cover into the body of the box, and so arranged as to spring against and compress the walls of the aperture into which it passes in such a manner as to hold it in place, as will be more fully understood from the following description and claim.

In the drawing, A represents the body of the box, which is made in any suitable form to contain the articles or merchandise to be transported, and B is the lid or cover. C and C' are cleats, which are permanently attached to the lower surface of the cover, and adapted to fit closely against the sides or ends of the

body A of the box, as shown in Figs. 1 and 3. D is a pintle, permanently secured within the side or end of the body, and adapted to pass loosely through an aperture in cleat C, as shown at E, Fig. 3. F is the fastening-pin, arranged to pass loosely through an aperture in cleat C' into a corresponding aperture in the side or end of the body of the box opposite the pintle D. This fastening-pin is provided on one end with a shoulder, *d*, adapted to bear against the outer surface of the cleat, and is made tapering, being less in diameter at the shoulder than at its opposite end. The end of this pin opposite to the shoulder is greater in diameter than the aperture in the box, and is slotted, as shown at *f*, Figs. 4 and 5, the slots extending to a point near the shoulder. The area of the slots is such as to allow the parts *e* of the pin to spring together sufficiently to allow the end of the pin to be forced into the aperture in the box, when the parts *e* spring outward, pressing against the wall of the aperture, so as to thereby prevent the pin from working out, thus holding the cover securely on the box.

In Figs. 6 and 7 I have shown only one slot in the end of the pin, which may be filled with india-rubber or other elastic material, and in Fig. 8 I have shown a solid pin grooved on one side to receive a metal spring, *h*, which bears against the wall of the aperture, holding the pin in place.

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

In combination with the body A and cleat C' of the cover, the spring-pressure fastening-pin F, substantially as and for the purpose specified.

JOHN L. STEVENS.

Witnesses:

N. C. GRIDLEY,
J. H. LAWLOR.