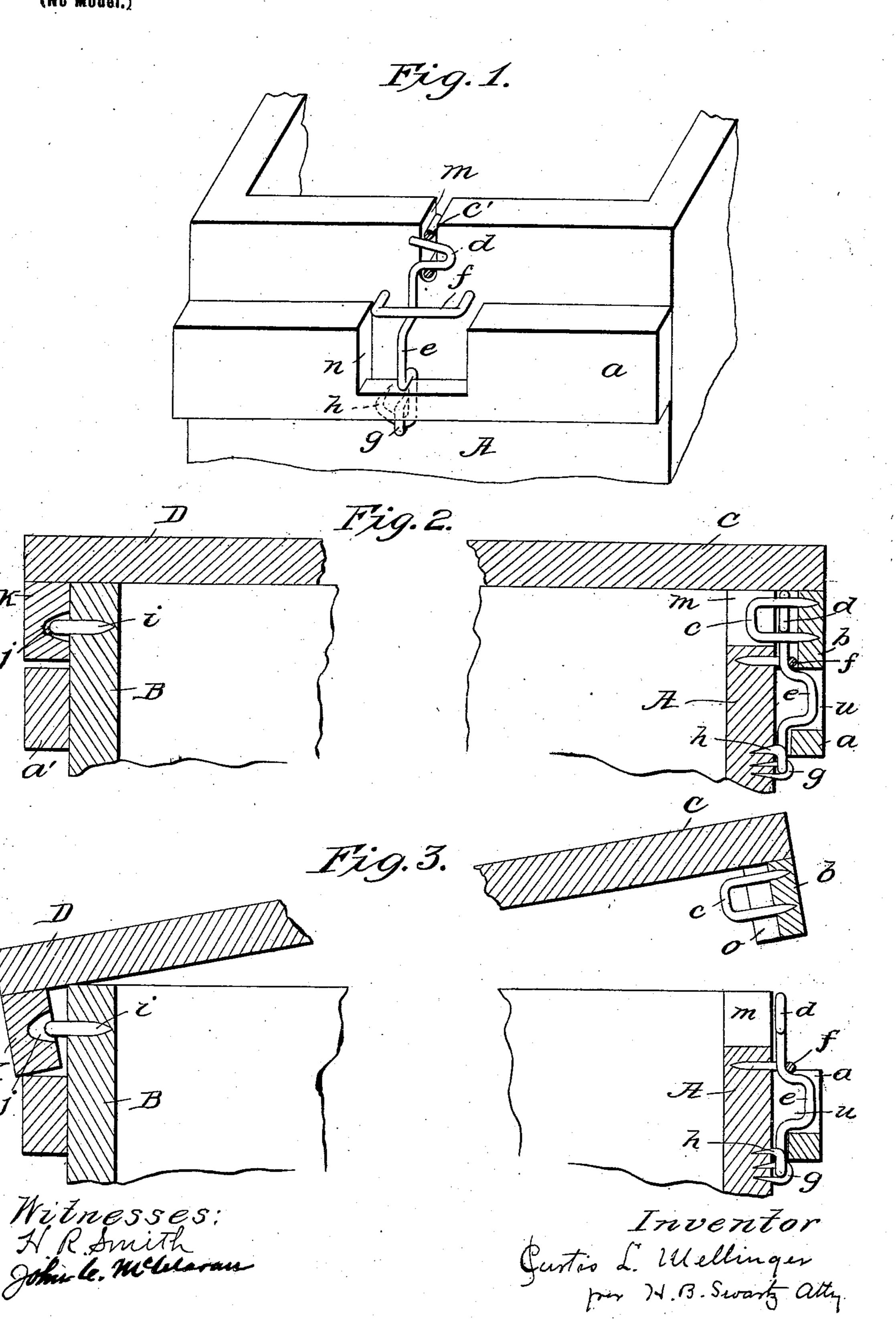
## C. L. MELLINGER. BOX FASTENER.

(Application filed Apr. 26, 1902.)

(No Model.)



## United States Patent Office.

CURTIS L. MELLINGER, OF PLAIN, OHIO.

## BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 713,233, dated November 11, 1902,

Application filed April 26, 1902. Serial No. 104,903. (No model.)

To all whom it may concern:

Be it known that I, CURTIS L. MELLINGER, a citizen of the United States, residing at Plain, in the county of Wayne and State of 5 Ohio, have invented a new and useful Box-Cover Fastener, of which the following is a specification.

My invention relates to box-cover fasteners. Its object is to provide improved means to for securing a separable cover upon a box or crate, with special reference to crates for eggs and other merchandise requiring a cover for storage and shipment; and it consists of the novel fastening device hereinafter set forth 15 and described.

My invention is illustrated by the accompanying drawings, in which similar letters of

reference indicate like parts.

Figure 1 is a front view of a box, showing 20 my improved hook-fastener for the cover thereof. Fig. 2 is a vertical longitudinal cross-section of a box and cover embodying my invention. Fig. 3 is a similar view showing the cover elevated and partially detached 25 and the fastening mechanism therefor.

In the drawings, A is the front end of the box. B is the rear end of the same. C is the front end of the cover, and D is the rear end

thereof.

a a' are strips secured across the ends of the box near the upper part thereof. Strip ais cut away at or near its center to make a horizontal notch u for access to the springcatch, as shown, Fig. 1. The upper edge of 35 the front end of the box is provided with a transverse mortise or notch m, adapted to engage the staple c, which is attached to the

inner surface of a cross-strip b, which forms an overhanging lip or margin for the front 40 end of the cover C. Space is provided between said lip and the upper front surface of the box for play of the spring-catch d therein,

as shown; Fig. 2.

My improved spring-fastener is constructed 45 of a single piece of substantial spring-wire bent and shaped with an upward-slanted portion beyond the hook d to act automatically when the staple c moves down its incline to enter the notch and engage the hook c', as 50 shown, Fig. 1. It is further provided with

an outwardly-bent portion e, adapted to project forwardly in a notch of the cross-strip a. A longitudinal staple f extends across the arm of the fastener and bears downwardly upon and against an outwardly-bent portion 55 e thereof, which also serves as a finger-catch to disengage the hook d, and thus coacts with the fastening at the lower end of the springhook in bearing the strain of the lock, thereby giving the same added strength and se- 60

curity.

The fastener is securely attached to the box and held in proper position by a sharp upward turn in the form of a hook, over which is fastened the staple g. The end of said up- 65wardly-bent portion is bent inwardly toward the box and securely attached thereto, thereby giving full energy to the spring of the hook-fastener. The lower parts of said fastener are preferably further secured and con-70 cealed by the overlapping lower part of the cross-strip a. At or near the upper part of the opposite end of the box I make separable hinges for the cover, and for this object employ one or more projections i, which may be 75 of either wood or metal and driven or screwed into the body of the box. The adjacent end of the box-cover is provided with a downwardly-extending lip or margin k, similar to that used at the front end of the box. Its in- 80 ner surface is provided with notches j to receive the hinge projections i, and thereby securely hold the rear end of the cover in position on the box, both laterally and vertically. When the spring-hook is disengaged from 85 the staple c, the cover may be raised and removed from the box, the hinged parts separating readily, as shown, Fig. 3. If preferred, the hinges may be reversed—that is, the projections ii and the notches jj may be reversed 90 in relation to their described positions on the margins of box and cover, respectively-and two or more hook-fasteners may be employed in a manner similar to that shown. I do not limit myself to the precise form of construc- 95 tion, as some of the parts may be modified to suit the trade.

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

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1. The combination with a box and cover therefor, said cover provided with an end cross-strip having an opening between its inner surface and the body of the box; of a fas-

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tening device comprising a spring-hook adapted to movement sidewise between said cross-strip and the adjacent part of the box, to engage a coacting staple in the cover, said fastener provided with a raised portion below the hook thereof projecting outwardly and adapted to engage and bear underneath and against a cross-bar or staple secured to the body of the box, the lower end of said fastener being attached to the body of the box by a bent portion thereof, substantially as set forth.

2. The combination with a box and cover; of a fastener secured to the box by a bent portion thereof, said fastener having a hook

formed at its upper end; a staple attached to the inner surface of the cover to engage said hook; a notch in the upper edge of the box to admit said staple; an intermediate crossbar attached to said box below said hook, and said fastener further provided with a raised portion adapted to engage underneath and against said cross-bar, substantially as set forth.

In witness whereof I hereunto set my hand 25 this 3d day of March, A. D. 1902.

C. L. MELLINGER.

Witnesses:

P. J. KEEHN, E. J. MCAFEE.

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