

(No Model.)

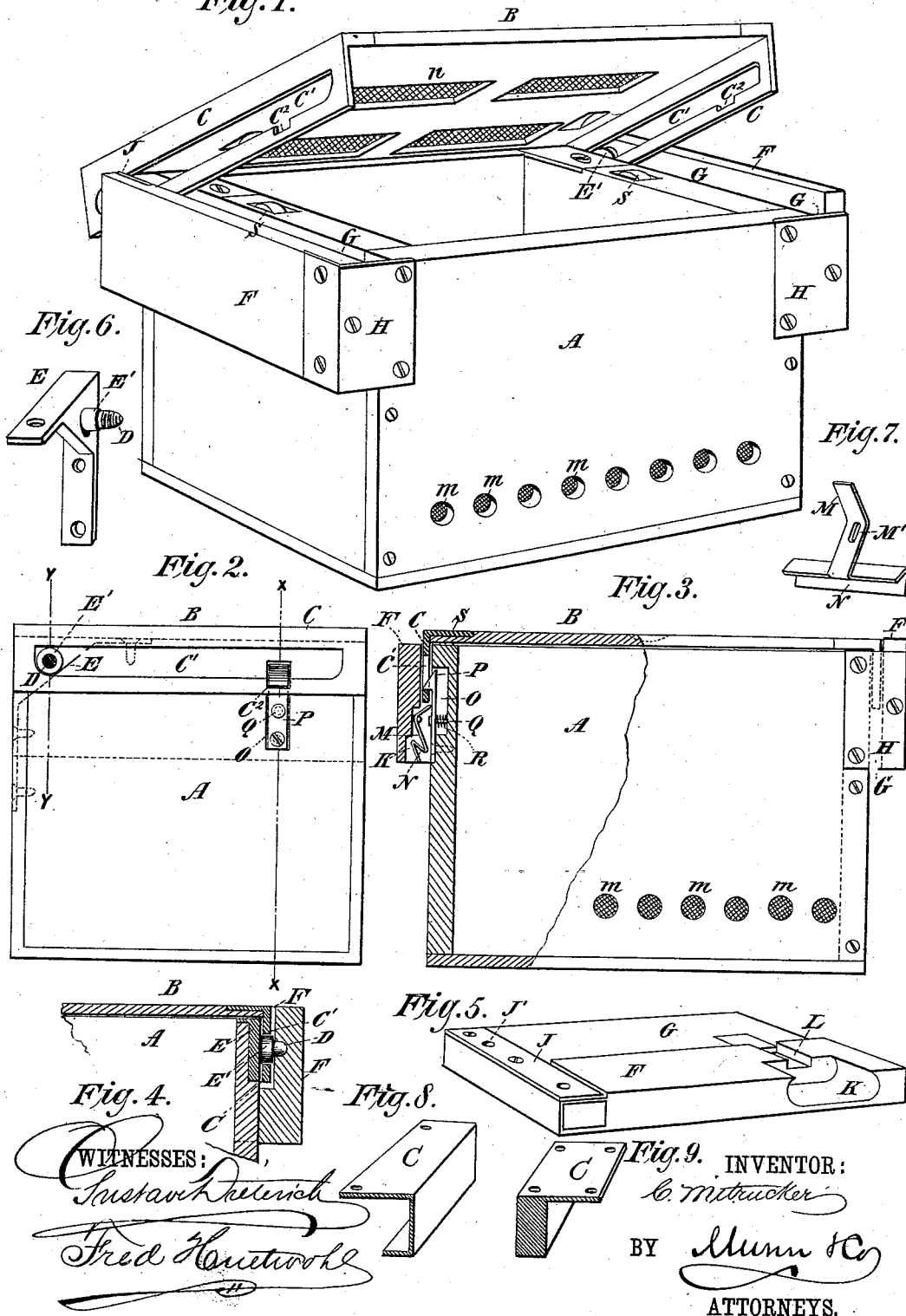
C. MITRUCKER.

SHIPPING CASE.

No. 311,025.

Patented Jan. 20, 1885.

Fig. 1.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHRISTIAN MITRUCKER, OF CHICAGO, ILLINOIS.

SHIPPING-CASE.

SPECIFICATION forming part of Letters Patent No. 311,025, dated January 20, 1885.

Application filed April 29, 1884. (No model)

To all whom it may concern:

Be it known that I, CHRISTIAN MITRUCKER, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Shipping-Case, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved shipping-case for shipping fruits, vegetables, meats, dressed poultry, fish, butter, eggs, and other perishable articles.

The invention consists in certain new and useful improvements in shipping-cases, as will be hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved shipping-case, showing the cover partially raised. Fig. 2 is an end view of the same, the guards being removed. Fig. 3 is a longitudinal elevation of the case, parts being shown in section on the line *xx*, Fig. 2. Fig. 4 is a longitudinal sectional view on the line *yy*, Fig. 2. Fig. 5 is an inside view of the guard on the end of the case. Fig. 6 is a perspective view of the angle-piece to which the pivot is secured. Fig. 7 shows the lever for disengaging the latch that locks the case. Figs. 8 and 9 are perspective views of modifications of the flanges for the cover.

The box A is provided with a cover, B, provided at the ends with downwardly-projecting flanges C, each having a longitudinal slot, C', in the bottom edge of which a notch, C'', is formed, preferably a short distance from the front end. Through the slots C' pins D pass, which are preferably screw-threaded, and project from angle-pieces E, secured on the top rear edges of the end pieces, the said pins or pivots D projecting outward from the ends of the box. A thimble, sleeve, or roller, E', is mounted on each pin. On the outer surface of each end piece a guard, F, is held, the said guards having their inner surfaces recessed along their top edges to form grooves G for receiving the flanges C of the cover, which thus pass between the outer surfaces of the ends and the inner surfaces of the guards. The guards are held on the box by angle-irons H, secured to the front of the box and to the outer surfaces

of the front ends of the guards. On the inner surfaces of the guards upright plates J are secured, which are provided with apertures J', into which the threaded pivots or pins D can be screwed, thus forming a support for the outer ends of the said pivots, and also holding the inner ends of the guards to the ends of the case. The upper edges of the guards can be flush with the upper edges of the ends of the box, as shown in the left-hand side of Fig. 1, or they can project above the box, as shown in the right-hand side of Fig. 1. The flanges C of the box are preferably formed of angle-irons secured on the top surface and ends of the cover or lid, and the said flanges can also be constructed as shown in Figs. 8 and 9. Each guard is provided in its inner surface and bottom edge with a recess, K, from which a groove, L, extends upward.

In the groove L of each guard-piece a bent lever, M, is pivoted by a pin passing through the slot M' of the lever, which lever is provided at the bottom with a V-shaped plate, N, for receiving the fingers. Opposite each groove L in the guards a vertical groove, O, is formed in the outer surface of each end piece of the box, and in front of the said groove an upwardly-projecting spring-hook, P, is secured on the outer surface of the side of the box, and through the said spring-hook a pin, Q, passes, which prevents the hook from swinging laterally, and around the said pin Q a spiral spring, R, is wound, which presses the spring-hook outward, so as to engage it with the notch c' in the bottom edge of the slot C' in the corresponding flange, C, of the cover. In the top edges of the ends rollers S are journaled, on which the cover can slide. The box is provided in its front and back, and, if desired, also in its sides or ends, with a series of apertures, m, covered on the inner side by a wire-netting or perforated plates, and the cover is provided with a series of apertures, n, also covered with wire-netting or perforated plates, which apertures permit of the thorough ventilation of the box.

The box is opened and closed in the following manner: When the cover is closed, the flanges C rest in the grooves G between the guards and the box, and the hooks of the spring hooks or latches P rest in the notches C'' in the bottom edges of the slots C' of the

flange C, thus holding the cover on the box. If the box is to be opened, the fingers are placed in the V-shaped plates N, formed on the lower ends of the levers M, and the lower ends of the said levers M are pulled or pressed in the direction from the end of the box, thereby pressing the upper ends of the spring hooks or latches P inward and disengaging them from the flanges C of the cover. The cover can then be raised, or can be pushed toward the rear, the cover sliding on the rollers S and on the rollers E on the pivots. The cover can then be swung down against the back of the box, the rollers E on the pin D holding the cover in a vertical position on the back of the box. If the box is to be closed, the cover is raised, then swung down on the top of the box, the flanges C pass into the grooves G between the ends of the box and the guards F, and the spring hooks or latches P automatically catch on the bottom edges of the slots C' of the flanges C, and thus lock the cover in place. The cover can be opened more or less, as desired, can be pushed back, or can be raised. The flanges or angle-irons C on the ends of the cover prevent driving nail through the cover into the box, and thus prevent the box from being damaged.

If desired, the box can be provided with a padlock or any other lock for keeping it closed, in addition to the devices above described.

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

1. The combination, with a box, of a cover pivotally secured thereto, and provided with longitudinally-slotted end flanges, and spring hooks or catches on the ends of the box constructed to engage the edges of the slots in said end flanges.

2. The combination, with a box having pivots on its ends at the rear corners, and also provided with spring-catches on its ends, of a cover provided with flanges having longitudinal slots, and a notch in the bottom edge of each slot, the above-mentioned pivots passing through the flanges of the cover, and the notches engaging the said spring-catches, substantially as herein shown and described.

3. The combination, with a box provided with outwardly-projecting pivots on the upper rear corners of the ends, of a cover having flanges provided with longitudinal slots, through which slots the pivots pass, and thimbles or rollers on the said pivots, substantially as herein shown and described.

4. The combination, with a box, of angle-plates secured on the upper rear corners of the ends, pivots projecting outward from the said angle-plates, and a cover having flanges provided with longitudinal slots through which the pivots pass, substantially as herein shown and described.

5. The combination, with a box, of guards held to the ends a short distance from the outer surfaces of the same, pivots projecting outward from the rear corners of the ends, and a cover having flanges provided with longitudinal slots through which the pivots pass, substantially as herein shown and described.

6. The combination, with a box, of guards held on the ends a short distance from the outer surface of the same, angle-plates secured on the upper corners of the ends, pivots projecting from the angle-pieces, and screwed into plates on the inner surfaces of the guards, and a cover having end flanges provided with longitudinal slots through which the pivots pass, substantially as herein shown and described.

7. The combination, with a box having outwardly-projecting pivots at the upper corners of the ends, of rollers journaled in the top edges of the ends, and of a cover having end flanges provided with longitudinal slots through which the pivots pass, substantially as herein shown and described.

8. The combination, with a box, of a cover having downwardly-projecting end flanges, and of guards held on the ends of the box, and forming grooves between the guards and the box for receiving the flanges of the cover, substantially as herein shown and described.

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Witnesses:

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