

A. BRUNNERT.
EGG CASE AND MEANS FOR EMPTYING THE SAME.
APPLICATION FILED FEB. 26, 1912.

1,032,182.

Patented July 9, 1912.

2 SHEETS—SHEET 1.

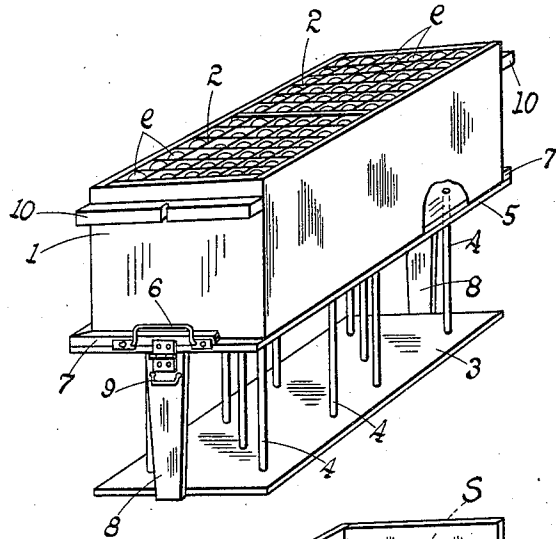


FIG. 1.

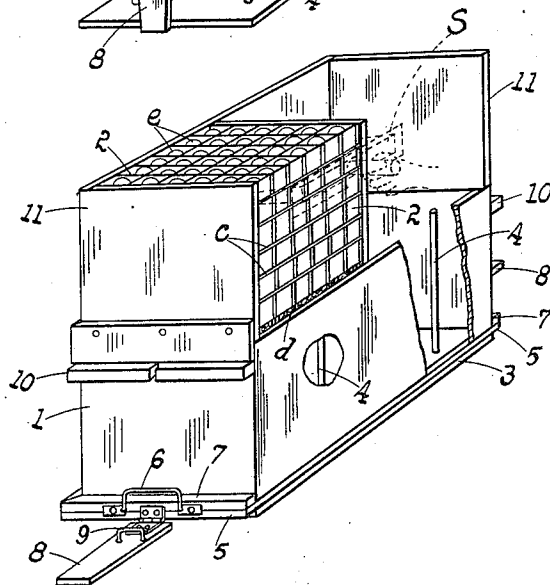


FIG. 2.

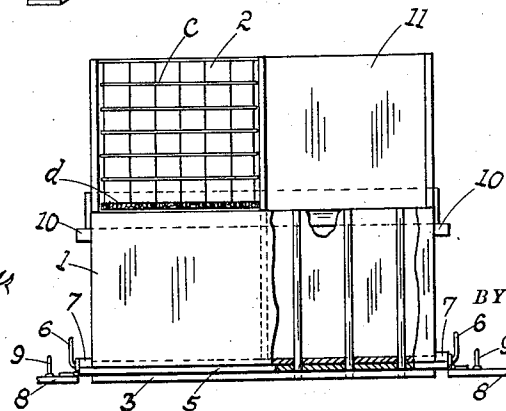


FIG. 3.

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2 SHEETS-SHEET 2.

FIG. 4.

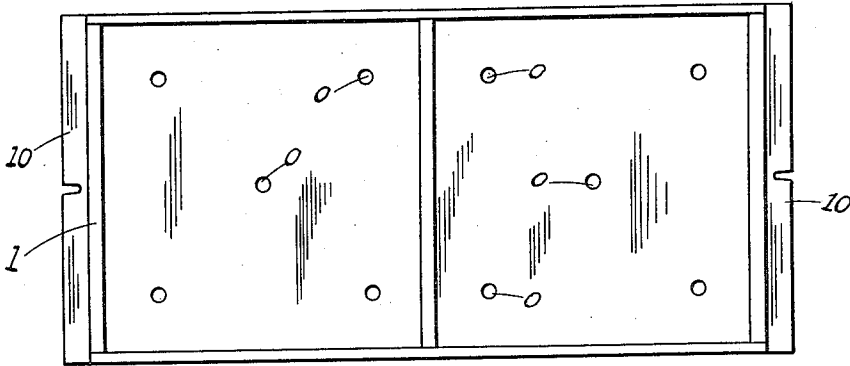


FIG. 5.

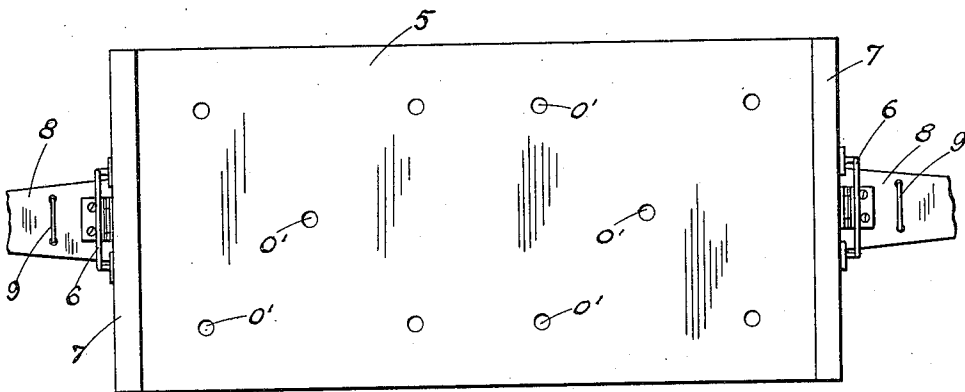
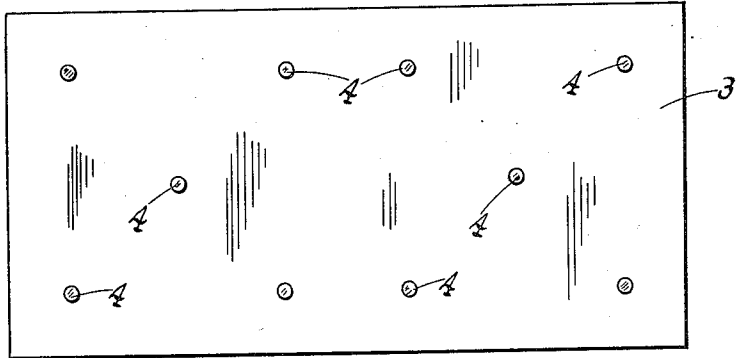


FIG. 6.

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EGG-CASE AND MEANS FOR EMPTYING THE SAME.

1,032,182.

Specification of Letters Patent.

Patented July 9, 1912.

Application filed February 26, 1912. Serial No. 679,933.

To all whom it may concern:

Be it known that I, ANTON BRUNNERT, citizen of the United States, residing at Old Monroe, in the county of Lincoln and State of Missouri, have invented certain new and useful Improvements in Egg-Cases and Means for Emptying the Same, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in egg-cases and means for emptying the same; and it consists in the novel details of construction more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of an egg-case showing the same filled with eggs and positioned preparatory to being emptied; Fig. 2 is a perspective with parts broken away showing the contents of the case expelled and protected by a temporary holder; Fig. 3 is a front elevation of Fig. 2, parts being broken away; Fig. 4 is a top plan of the egg-case; Fig. 5 is a top plan of the bottom stationary member of the ejecting device showing the posts or stilts carried by the same; and Fig. 6 is a top plan of the upper movable member or follower which operates along the posts of the stationary member.

The object of my invention is to provide means for lifting out of an egg-case the entire contents of fillers and their eggs by a single operation, said contents being, when so lifted, positioned above the plane of the top of the case where ready access may be had to the several egg-fillers for purposes of either candling the eggs within them, or transferring them to another case if so desired.

A further object is to provide an emptying device or ejector which may be applied to a variety of shipping cases from which the contents may be lifted by an application of the ejector to the bottom of the material packed in the case.

The advantages of the invention will be better apparent from a detailed description thereof which is as follows:—

Referring to the drawings, 1 represents a conventional form of egg-case opening from the top, and provided in the present instance with a series of openings or per-

forations *o* in its bottom. Packed in the case are fillers 2 filled with eggs *e*, the superposed series of fillers being separated by sheets of cardboard *c*, the bottom sheet having preferably a layer of excelsior *d* as well understood in the art.

Adapted to be placed beneath the case 1 is a base plate 3 from whose upper surface project a series of posts or stilts 4 which are distributed to conform to the disposition of the openings *o* in the bottom of the case 1. Sliding along the posts 4 is a platform or movable member 5 capable of being manipulated by the terminal handles 6 as shown. At opposite ends of the platform 5 are secured transverse strips or ledges 7 between which the case 1 snugly fits when deposited thereon, and when so deposited, the openings *o* in the bottom thereof are brought in direct alinement with the posts 4. To the ends of the platform 5 opposite the handles 6 are hinged the legs 8 which when swung to a vertical position and allowed to rest on the floor or other support, hold the platform 5 in its highest elevated position, that is to say with the upper surface of the platform in the plane of the upper terminals of the posts 4, so that the posts are flush with said surface (Fig. 1). For ready manipulation the legs 8 are provided with finger holds or handles 9 as shown. The platform 5 is provided with openings *o'* for the free play of the posts or stilts 4 therethrough. The opposite end walls of the case 1 are provided with ledges 10 primarily intended as securing means for the latches carried by the cover or lid of the case (cover and latches not being shown) though in the present instance they serve as supports for the temporary holder 11 which is deposited on the ledges around the elevated or ejected filler contents of the case (Figs. 2, 3), the application of this holder being more apparent from a description of the operation of the invention which is as follows:—

Let us assume that we have a case full of eggs contained in fillers 2, and that it is desired to empty the contents in a single operation. The operator deposits the base plate 3 on the floor and raises the platform 5 along the posts 4 the full limit, the legs automatically gravitating to a vertical or supporting position so as to maintain the platform elevated when the parts are released. The case 1 is now deposited on the

raised platform 5 between the ledges 7, 7, whereby the openings *o* in the bottom of the case come directly over the upper ends of the posts 4 (which as previously stated
 5 are flush with the upper surface of the platform) through which the posts are free to pass with any lowering of the platform and the case resting upon it (Fig. 1). It will be apparent that if the operator now
 10 seizes the platform (with its case) by the handles 6, 6, and by a deft manipulation of the handles 9 swings the legs 8 outwardly or from their vertical position so as to leave the platform 5 unsupported, the latter may
 15 then be lowered along the posts 4 until it rests on the base 3 (Figs. 2, 3). Since however, the contents of the case can not be lowered with the descending or receding perforated bottom, said contents will be left
 20 deposited on the upper ends of the posts and above the top of the case. To protect the contents (fillers 2 with their eggs *e*) at the back and sides, the holder or shield 11 is temporarily deposited on the case
 25 around the fillers (Fig. 2). The shield 11 being open in front and at the top allows for the ready removal of the successive fillers by means of a scoop *S* (dotted showing Fig. 2) on which each filler full of
 30 eggs may be candled, such candling scoop forming the subject-matter of another application for patent filed by me under date of February 5th, 1912, Serial Number 675,478.
 35 As the fillers of eggs are candled they are successively deposited into a second holder or shield mounted on a depressed case as illustrated in Fig. 2; and when the holder is full, the case and holder are raised in
 40 which reverse movement the fillers are received in the case as a single charge, ready for packing, shipment, or other disposition. The holder 11 which is nothing more than a box with the top and front removed, is
 45 very essential as its presence enables the fillers when raised out of the case to be scooped up one by one without danger of displacement of the remaining fillers. The ejection of the entire charge from the case by the
 50 single operation of lifting the contents by the posts 4, or more properly speaking, by leaving the contents supported on the posts while the case is depressed, constitutes a very rapid method of emptying the case,
 55 since the several fillers exposed to the scoop *S* may be quickly transferred to a candler or to another case, should the farmer desire the original case returned on short notice. Of course, the ejection might be ac-
 60 complished by holding the case stationary

and raising the plate 3 but the manipulation would be cumbersome. In that event the contents would be actually "lifted" by the posts or stilts 4. The invention is obviously not limited to egg-cases, as any contents 65 might be ejected in the manner described.

In practice it is immaterial whether the shield or open box 11 is deposited on the case 1 before the latter is dropped to its lowest position, or whether the same is deposited on the case while still in its raised position. If the latter method is pursued, then the member 11 is already in position to protect the fillers 2 as the case 1 is receding from them (or as the fillers are emerging 75 from the case).

Having described my invention, what I claim is:—

1. In combination with a case provided with a perforated bottom, a series of posts 80 positioned in alinement with the perforations and free to pass therethrough, a sliding platform operating along the posts and adapted to be brought in position under the case, whereby upon a lowering of the plat- 85 form along the posts the case will be simultaneously lowered, and leave the contents deposited on top of the posts.

2. In combination with a case provided with a perforated bottom, a base plate, a series of posts on said plate positioned in alinement with the perforations of the case bottom and free to pass therethrough, a sliding platform playing along the posts, and adapted to be elevated to the top thereof for 95 supporting the case, and legs hinged to the platform to temporarily maintain it in its raised position, the platform and case being adapted to drop when released from their support, and slide down the posts, the latter 100 entering the case and holding the contents supported on the upper ends thereof, as set forth.

3. In combination with an egg-case open at the top, and provided with a perforated 105 bottom, a series of posts in alined position with the perforations and free to pass therethrough, whereby upon depression of the case the fillers of eggs are left supported above the top of the case, and a 110 shield or holder deposited on top of the case around the fillers to prevent displacement thereof during removal.

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

ANTON BRUNNERT.

Witnesses:

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 Jos. A. MICHEL.