Jan. 27, 1942. S. O. HEISER 2,271,008

EGG BOX

Filed March 10, 1941

FIG. 1.

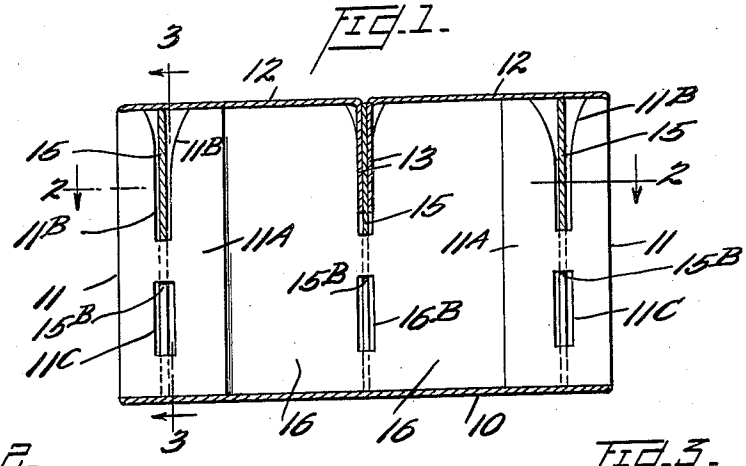


FIG. 2.

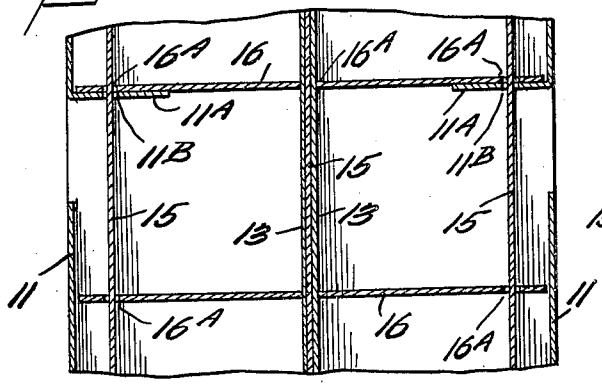


FIG. 3.

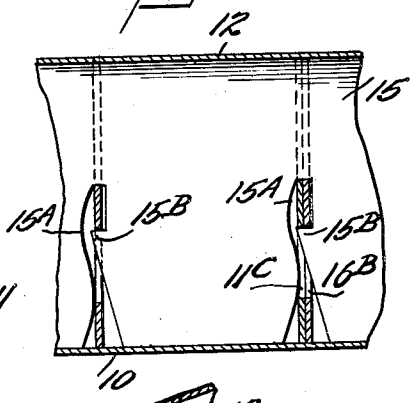


FIG. 4.

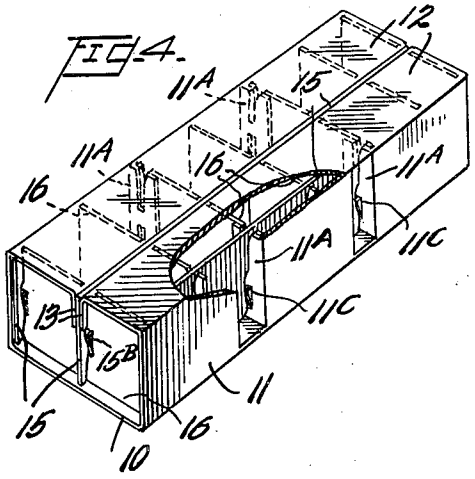
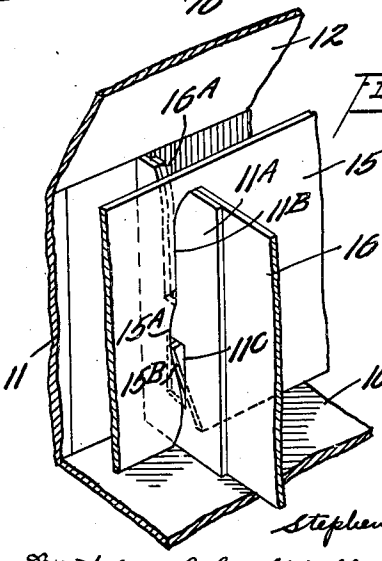


FIG. 5.



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UNITED STATES PATENT OFFICE

2,271,008

EGG BOX

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Application March 10, 1941, Serial No. 382,615

3 Claims. (Cl. 229—29)

This invention relates to egg boxes or carriers of the type having an outer casing or wrapper and an inner filler made up of longitudinal and cross strips having interlocking slots by which the strips are connected to form cells. The invention is concerned principally with simple means for effectively securing the filler in the casing so that these parts may be shipped in collapsed condition and easily assembled to form the complete box by inserting the filler in the casing when the box is to be prepared for use. Other improved details of structure are also contemplated as will later appear.

The invention is illustrated in the accompanying drawing, forming a part hereof, in which

Figure 1 is a vertical transverse section of a box involving the invention;

Figure 2 is a horizontal section on the line 2—2 of Figure 1;

Figure 3 is a partial vertical section on the line 3—3 of Figure 1;

Figure 4 is a perspective view of a complete box with parts broken away; and

Figure 5 is an enlarged perspective view of certain parts showing particularly the means for attaching the filler to the casing of the box.

Referring to the drawing in detail by the reference characters thereon, the casing or wrapper includes a bottom portion 10, side wall portions 11 and cover portions 12, the latter along their free edges being provided with truck-in flaps 13.

The filler is made up of a plurality of spaced longitudinal strips 15 and a plurality of similarly spaced cross strips 16, these strips forming the cells. The strips 15 and 16 are provided with interengaging slots preferably of the kind disclosed in U. S. Patent No. 1,140,643. The slots 15A in the strips 15 are curved in shape and on one side thereof a locking lug 15B is formed having a square shoulder. The slots in the strips 16 comprise an outer slot 16A and an inner aligned slot 16B. When the strips 15 and 16 are assembled to form the filler, the lugs 15B on the former engage in the inner slots 16B of the latter and thereby the strips are locked together to form the filler, as fully set forth in said patent.

The means for securing the filler in the casing may now be described. The longitudinal strip 15 on each side of the filler is arranged relatively close to the corresponding side wall 11 of the casing. These sides 11 of the casing are each cut away at several points to form wings 11A which are bent inwardly of the casing and these wings are so spaced that when the filler is inserted in the casing the wings 11A will lie flat against the cross strips 16 and will extend across or intersect the adjacent longitudinal strips 15 of the filler. One or more of these wings 11A are formed on each side 11 of the casing. The wings are each provided with vertical interlocking slots 11B, 11C substantially like and arranged to register with the slots 16A, 16B in the cross strips 16. When the wings 11A are bent inwardly at right angles to the sides 11, it will be seen that a filler composed of the strips 15 and 16 can then be forced down into the casing and the longitudinal strips 15 adjacent the sides 11 will interlock with the wings 11A in the same manner that said strips interlock with the cross strips 16. The filler will thus be firmly locked in the casing by engagement between the wings 11 of the casing and the longitudinal side strips 15 of the filler.

The fillers and casings may obviously be shipped in a separated or knock-down condition and when they are to be used for packing the eggs, a filler is assembled with a casing by first bending the wings 11A inwardly and then forcing the filler down in the casing to lock the parts together. The cover portions 12 of the casing can then be bent down to form a complete cover for the box, the truck-in flaps 13 being inserted in the upper ends of the slots 16A formed in the center of the cross strips 16, these slots being made of a width to tightly receive the flaps.

What I claim as my invention is:

1. An egg box comprising, in combination, a casing having a bottom and spaced side walls, a filler for said casing having spaced longitudinal strips and spaced cross strips arranged at right angles to each other to form cells, said strips at their points of crossing having interlocking slots formed therein, the longitudinal strips at each side of the filler being arranged in close proximity to the corresponding side wall of the casing, said side walls of the casing having wings formed thereon and extending inwardly therefrom and intersecting the adjacent side wall of the filler, each of said wings being arranged adjacent to and parallel with one of said cross strips and having a slot therein corresponding to and arranged to register with the slot in the adjacent cross strip and means in said registering slots of the wings and cross strips and the corresponding slot of said longitudinal strips for locking said longitudinal strips and the filler to said wings.

2. In an egg box having a filler formed of spaced longitudinal and cross strips and a casing therefor having side walls, each of said side walls

having wings projecting inwardly therefrom transversely of the adjacent longitudinal strips of the filler, each of said wings being positioned adjacent to and parallel with one of said cross strips of the filler, said cross strips and said wings having vertical locking slots formed therein arranged to register with each other, said intersecting longitudinal strips also having vertical locking slots formed therein arranged to engage and interlock with the slots in said wings and cross strips, to thereby lock the filler in the casing.

3. In an egg box, in combination, a filler having spaced longitudinal side strips and a longitudinal center strip and also spaced cross strips, a casing in which said filler is mounted, said casing having a bottom portion, and side walls, each of the side walls of said casing having wings formed thereon extending inwardly therefrom and intersecting the adjacent longitudinal side strip in the filler, each of said wings being positioned adjacent to one of said cross strips and said wings and the adjacent cross strip having vertical interlocking slots therein registering with each other, said longitudinal side strips also having vertical slots formed therein arranged to engage and interlock with the slots in said wings and cross strips to thereby lock the filler in the casing, said longitudinal center strip and said cross strip also havng interlocking slots therein, said casing also having a cover portion extending inwardly from the top of each of said side walls, each of said cover portions having a tuck-in portion along the edge thereof adapted to be inserted in the slots of said cross strips adjacent said longitudinal center strip.

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