Oct. 27, 1936. D. H. SHAPIRO 2,058,638

EGG CARTON

Filed April 18, 1935 4 Sheets-Sheet 1

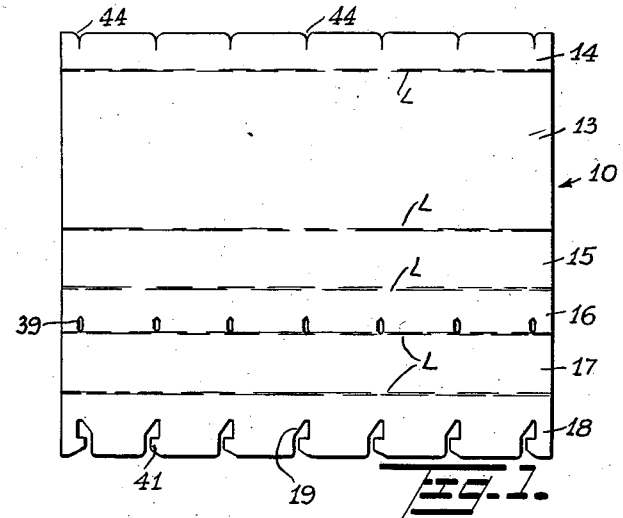



FIG. 1.

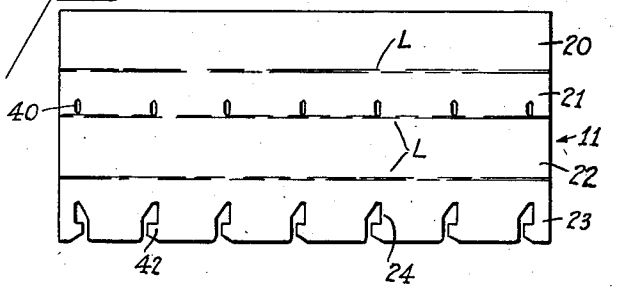



FIG. 2.

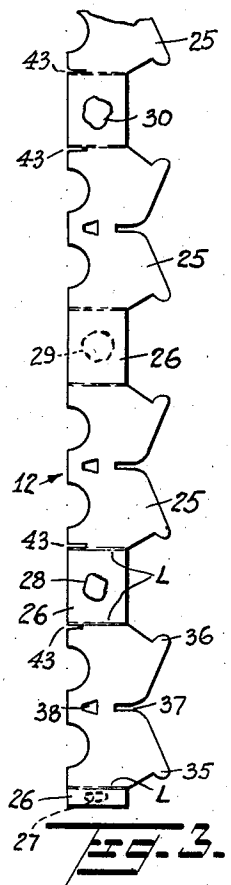



FIG. 3.

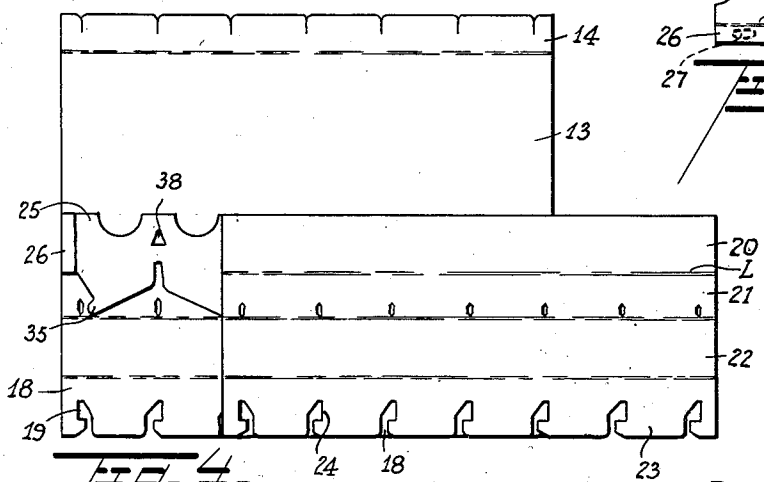



FIG. 4.

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EGG CARTON

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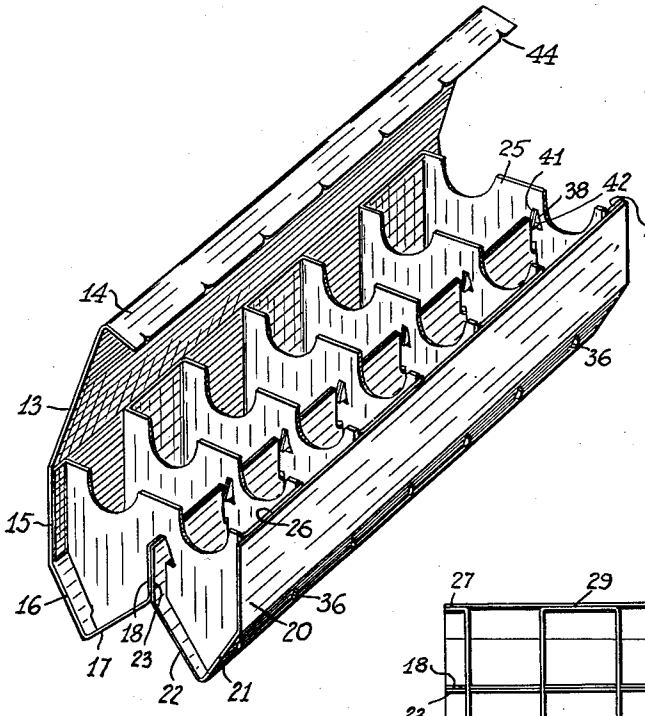



Fig. 6.

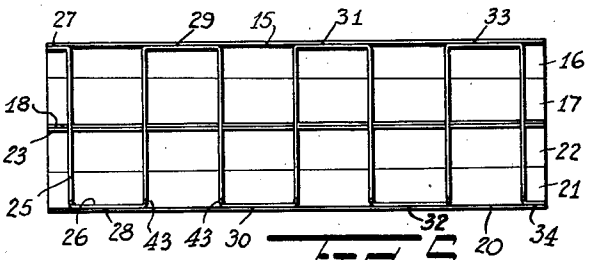



Fig. 5.

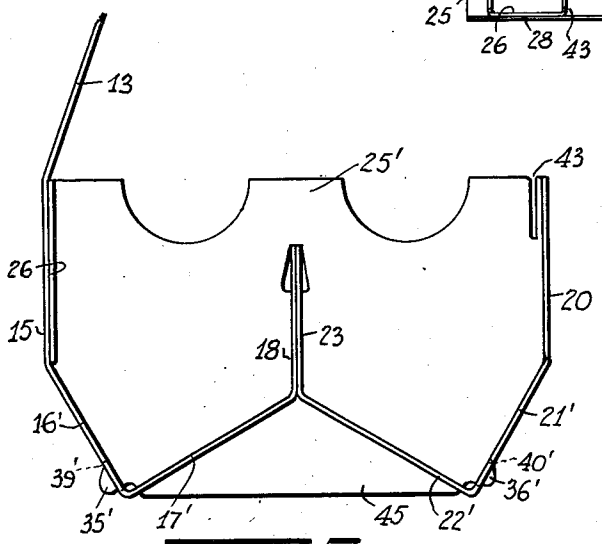



Fig. 7.

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EGG CARTON

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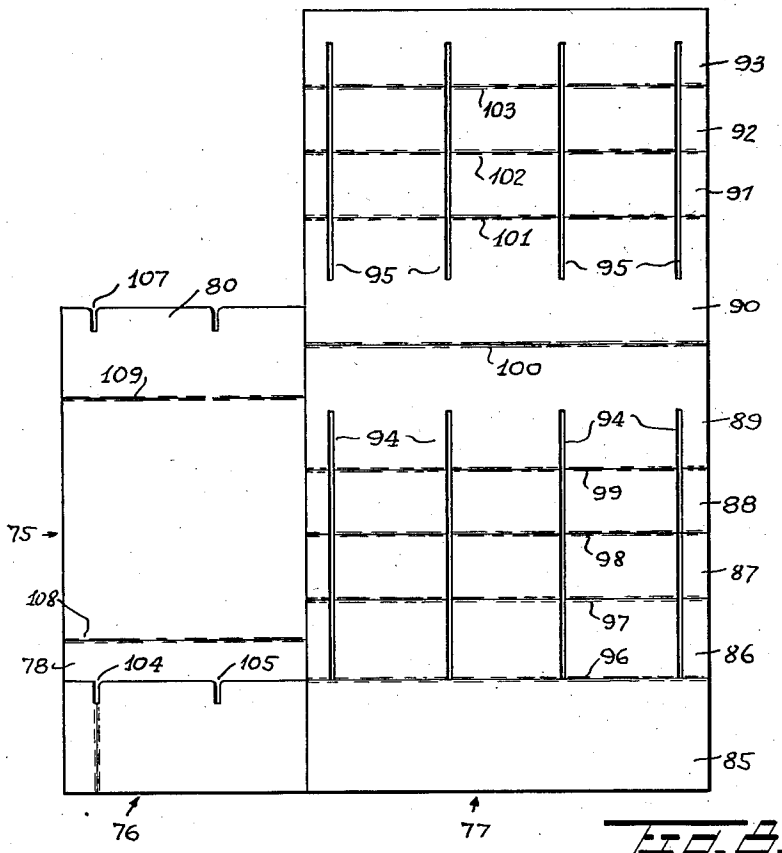



FIG. 8.

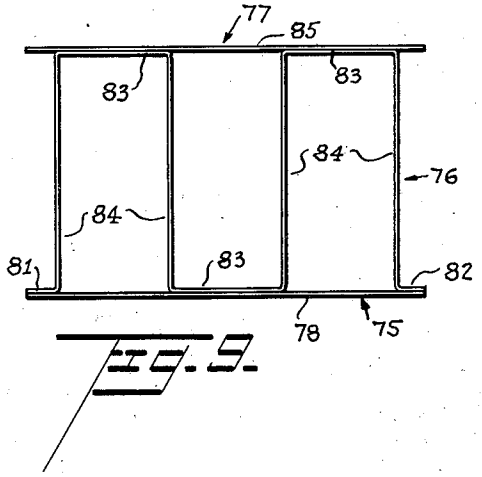



FIG. 9.

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EGG CARTON

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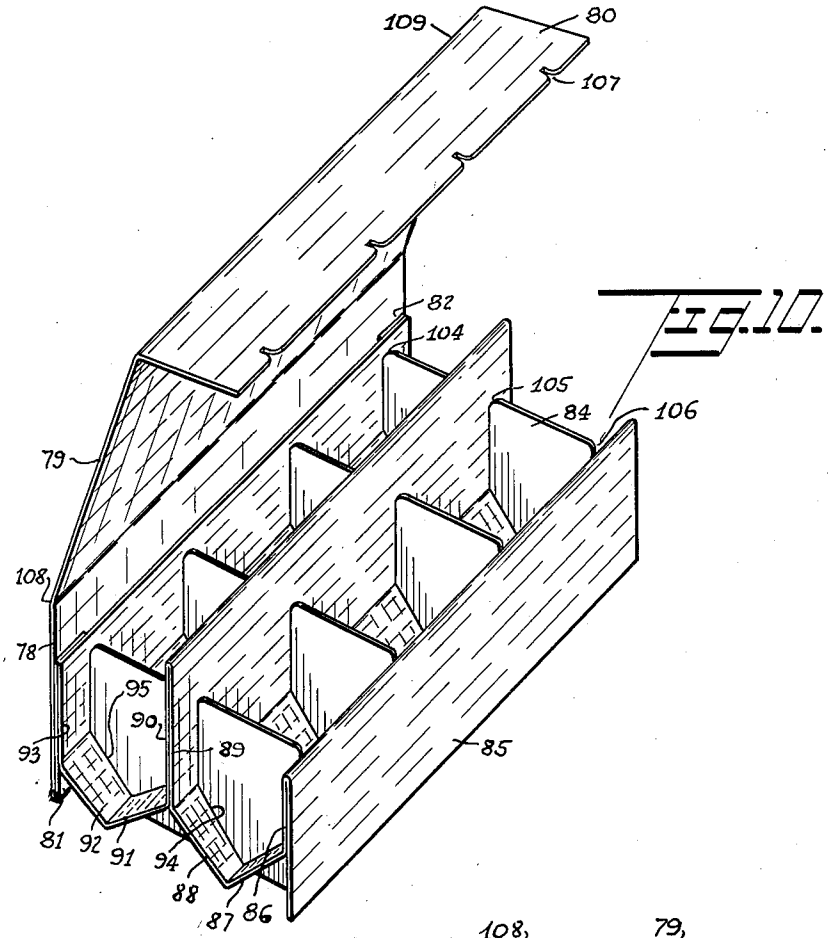



FIG. 10.

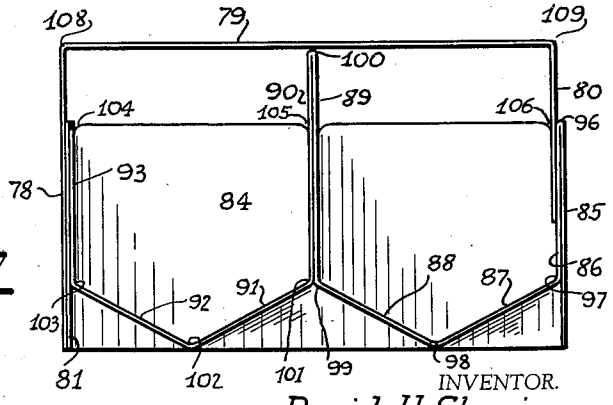



FIG. 11.

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Patented Oct. 27, 1936 2,058,638

# UNITED STATES PATENT OFFICE

2,058,638

## EGG CARTON

David H. Shapiro, Montreal, Quebec, Canada

Application April 18, 1935, Serial No. 17,036

22 Claims. (Cl. 229—29)

This invention relates to collapsible cardboard boxes or containers and more particularly to the type, in which eggs are shipped, stored and sold by the retail trade.

It is an object of this invention to provide an egg box having a pair of collapsible blanks forming the body of the box, and partitions made of one strip of cardboard, folded in such a way as to permit the partition to swing when the box is in collapsed position.

It is another object of this invention to provide a container having two collapsible sides and a folded filler strip, the inner portions of the side members being locked to the filler strip such as to give a substantial rigid box construction.

It is another object of this invention to provide a collapsible egg box with a folded filler strip, the wall portions of which filler strip are secured to the sides of the box by cementing or stapling.

It is a further object of this invention to provide a container having two blanks forming the body of the container and partitions swingably connected to the blanks whereby the blanks are movable relatively longitudinally and towards each other.

This invention accordingly consists in the features of construction, combination of parts and in the unique relations of the members and in the relative proportioning and disposition thereof; all as more completely outlined herein.

To enable others skilled in the art so fully to comprehend the underlying features thereof that they may embody the same by the numerous modifications in structure and relation contemplated by this invention, drawings depicting certain forms of the invention have been annexed as a part of this disclosure, and in such drawings, like characters of reference denote corresponding parts throughout all the views, of which:—

Fig. 1 is a plan view of a blank forming the rear or cover portion of a container, embodying and employing the invention.

Fig. 2 is a plan view of the blank forming the front of the container.

Fig. 3 is a plan view of a portion of the filler strip before it is folded.

Fig. 4 is a plan view of the complete container in the folded position.

Fig. 5 is a diagrammatic top view of the container in the operative position to show the way of folding the filler strip.

Fig. 6 is a perspective view of an embodiment of the invention with filler strips as shown in Fig. 3.

Fig. 7 is an end elevational view of another form of the container, in which the filler strip's lower center portion is straight and passes through the box to give additional strength.

Fig. 8 is a plan view of a modified form of the invention, the container being in the collapsed position ready for assembly.

Fig. 9 is a bottom view of Fig. 8, the front portion however having been drawn out in the first step in assembling.

Fig. 10 is a perspective view of the container fully assembled, the cover being partly open.

Fig. 11 is a side elevational view of Fig. 10 with the cover closed.

The rear portion of the outer casing or body is formed of one blank **10**, the front portion of the outer casing or body is formed of another blank **11** and the center filler is formed of a single blank **12**. The rear portion **10** has attached to it the cover portion **13** with a closing strip **14**. L represents fold lines along which the various portions are folded. Portion **15** represents the straight rear wall. **16** is the inclined rear wall and **17** is the inclined front wall of the rear portion. The straight upright wall **18** of the rear portion has the cutouts **19** which lock this portion to the outer filler. The front portion **11** consists of the straight front wall portion **20**, the inclined front wall portion **21**, the inside inclined wall portion **22** and the inside straight wall portion **23** which contains cutouts **24** similar in construction and spacing to cutouts **19** in the wall portion **18**.

The filler strip **12** consists of the spacer portions **25** and the wall portions **26**. The wall portions **26** are glued, cemented or stapled, or otherwise secured to the wall portions **15** and **20**. The "zigzag" way of folding the filler strip is clearly illustrated in Fig. 5, the place of fastening being at **27**, **28**, **29**, **30**, **31**, **32**, **33** and **34**. The filler portions are provided with extensions **35** and **36**, which pass through openings **39** and **40** in walls **16** and **21**, respectively. Walls **18** and **23** are held in place by the slot **37** in the fillers and are locked by having the lugs **41** and **42** of the cutouts **19**, **24**, respectively, pass through the openings **38** in the filler. Slots **43** in the filler strip are provided to receive the closing strip **14**. This closing strip **14** is provided with notches **44** which engage with the portions **25** of the filler strip **12**.

In the modification shown in Fig. 7, the spacer **25'** has a straight portion **45** which passes through slots in the bottom portions **17'** and **22'**. The lugs **35'** and **36'** pass through the openings **39'** and **40'** of portions **16'** and **21'**.

To assemble the device, the blank **10** is placed,

say on a table and the filler strip 12 in its folded condition is attached to wall 15 by any suitable means, at the points 27, 29, 31 and 33.

Blank 11 is then placed over the folded filler strip and secured thereto at the points 28, 30, 32 and 34. In this construction the body portions of the box are built upon the filler strip 12, which differs radically from the conventional manner of building the filler strips or partitions upon the body of the box. The box is now ready for storing or shipping. To fold the container into position ready for use, all that is required is to swing the blank 11 forwardly, which when the box is positioned as in Fig. 4, will be to the left, until the spacers 25 are at right angles to the blanks 10 and 11. The spacers 25 act as swinging arms. Then the center or locking upright walls 18 and 23 of the blanks 10 and 11 are locked in the position as clearly illustrated in Fig. 6.

In the embodiment of the invention, shown in Figs. 8–11, inclusive, the container consists of three parts, the rear wall portion 75, the filler portion 76 and the front portion 77. The rear portion 75 consists of the rear wall portion 78, the cover portion 79 and the closing strip 80. The filler portion 76 consists of the partitions 84 swingably attached to the portions 75, 76, which may be, for example, by means of the end strips 81 and 82 and the intermediate strip 83 cemented or otherwise secured to the respective wall sections.

The front portion 77 consists of the outside front wall 85 the inside front wall 86, the two inclined, front bottom portions 87 and 88, the two center partition portions 89 and 90, the two inclined rear bottom portions 91 and 92 and the rear wall portion 93. Portions 86 to 93 inclusive are provided with slots 94 and 95, respectively, which permit in the assembling for the bottom portion of the center spacers 84 to pass through.

The container is assembled very easily and readily. The collapsed blank as shown in Fig. 8 has the front portion 77 moved out into the position shown in Fig. 9, and the portions 86 to 93 inclusive are folded inwardly and downwardly along the fold lines 96, 97, 98, 99, then through the center partition fold line 100 and again through fold lines 101, 102 and 103. The cover portion 79 folds along fold lines 108 and 109.

Notches 104, 105 and 106 will hold the folded portions in their respective places. The closing strip 80 is provided with notches 107 for keeping the cover in the closed position as shown in Fig. 11. This embodiment of the invention shows a container for 6 eggs only, but the construction can be made for any number of eggs by lengthening the box similar to that illustrated in Fig. 6.

It is believed from the above description that those skilled in the art will have no difficulty in understanding the construction, the method of use and operation of the device herein disclosed and a detailed discussion thereof is unnecessary. The invention is of simple and practical construction and is adapted to accomplish among others all of the objects and advantages herein set forth.

Without further analysis, the foregoing will so fully reveal the gist of this invention that others can by applying current knowledge readily adapt it for various applications without omitting certain features, that, from the standpoint of the prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention, and therefore, such adaptations should and are intended to be comprehended within the meaning and range of equivalency of the following claims.

I claim:

1. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box and part of the box bottom, the other of said blanks comprising the other side wall for the box and the other part of the box bottom, and a collapsible cell forming filler for dividing the space between the said side walls into a multiple of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box.

2. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box and part of the box bottom, the other of said blanks comprising the other side wall for the box and the other part of the box bottom, and a collapsible cell forming filler for dividing the space between the said side walls into a multiple of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, each of the said box bottom parts having vertical extensions forming longitudinal partitions dividing the said compartments into individual cells for containing the eggs.

3. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box and part of the box bottom, the other of said blanks comprising the other side wall for the box and the other part of the box bottom, and a collapsible cell forming filler for dividing the space between the said side walls into a multiple of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, each of the said box bottom parts having vertical extensions forming longitudinal partitions dividing the said compartments into individual cells for containing the eggs, and means for interlockingly engaging the said partitions with transverse members of said filler.

4. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box and part of the box bottom, the other of said blanks comprising the other side wall for the box and the other part of the box bottom, and a collapsible cell forming filler for dividing the space between the said side walls into a multiple of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, at least one of the said box bottom parts having a vertical extension forming a longitudinal partition dividing the said compartments into individual cells for containing the eggs.

5. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box and part of the box bottom, the other of said blanks comprising the other side wall for the box and the

other part of the box bottom, and a collapsible cell forming filler for dividing the space between the said side walls into a multiple of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, at least one of the said box bottom parts having a vertical extension forming a longitudinal partition dividing the said compartments into individual cells for containing the eggs, and means for lockingly engaging the said extension with transverse members of said filler.

6. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box and part of the box bottom, the other of said blanks comprising the other side wall for the box and the other part of the box bottom, and a collapsible cell forming filler for dividing the space between the said side walls into a multiple of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, at least one of the said bottom parts having a vertical extension forming a longitudinal partition dividing the said compartments into individual cells for containing the eggs, means for lockingly engaging the said extension with transverse members of said filler, and means for lockingly engaging the said transverse members with the said box bottom parts.

7. An egg box comprising a pair of spaced foldable blanks forming the body of the box, and a collapsible cell forming filler for dividing the space between the blanks into compartments, the said filler being made from a single strip of material bent into substantially zig-zag fashion to form both transverse and longitudinally extending filler parts, the longitudinally extending parts being attached to the said blanks.

8. An egg box comprising a pair of foldable blanks forming the body of the box, and a single strip connecting the blanks forming partitions, the said strip having alternate sides attached to the blanks.

9. An egg box comprising a pair of collapsible blanks forming the body of the box, and partitions swingably connected to the blanks, whereby the blanks are moved relatively longitudinally and towards each other, the said partitions comprising a single folded strip having alternate sides attached to the blanks.

10. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover, a side wall and part of the box bottom, the other of said blanks comprising the other side wall and other part of the box bottom, and a blank folded to present partitions between the said side walls, the said blank having alternate sides attached to the said side walls.

11. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and partitions swingably connected to the blanks, whereby the blanks are movable relatively longitudinally and towards each other, said partitions dividing the space between the said side walls into a plurality of compartments, the said box bottom having vertical extensions formed from the blank comprising the same, whereby a central longitudinal partition is provided dividing the said compartments into individual cells for containing the eggs.

12. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box.

13. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, said partition and said members having slots for interlocking engagement.

14. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover, a front flap and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, said partition and said members having slots for interlocking engagement.

15. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, the said bottom and partition being transversely slotted to permit placement thereof with respect to said members.

16. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said box bottom having vertical extensions formed from the blank comprising the same, whereby a central longitudinal partition is provided dividing the said compartments into individual cells for containing the eggs.

17. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other

of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, the said box bottom having vertical extensions formed from the blank comprising the same, whereby a central longitudinal partition is provided dividing the said compartments into individual cells for containing the eggs.

18. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, the said box bottom having vertical extensions formed from the blank comprising the same, whereby a central longitudinal partition is provided dividing the said compartments into individual cells for containing the eggs, said partition and said members having slots for interlocking engagement.

19. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover, a front flap and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, the said box bottom having vertical extensions formed from the blank comprising the same, whereby a central longitudinal partition is provided dividing the said compartments into individual cells for containing the eggs, said partition and said members having slots for interlocking engagement.

20. An egg box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall for the box, the other of said blanks comprising the other side wall for the box and the box bottom, and a collapsible cell forming filler dividing the space between the said side walls into a plurality of compartments, the said filler being made from a single strip of material bent into zig-zag fashion to form both transverse and longitudinally extending filler members, the longitudinally extending members being attached to the said side walls of the box, the said box bottom having vertical extensions formed from the blank comprising the same, whereby a central longitudinal partition is provided dividing the said compartments into individual cells for containing the eggs, the said bottom and partition being transversely slotted to permit placement thereof with respect to said members.

21. A box comprising two blanks forming the body of the box, one of said blanks comprising the cover and a side wall of the box, the other of said blanks comprising the other side wall for the box and the box bottom, and partitions swingably connected to the blanks, whereby the blanks are movable relatively longitudinally and towards each other dividing the space between the said side walls into a plurality of compartments.

22. A box comprising two blanks forming the body of the box one of said blanks comprising the cover and a side wall of the box, the other of said blanks comprising the other side wall of the box and the box bottom, and partitions swingably connected to the blanks, whereby the blanks are movable relatively longitudinally and towards each other, said partitions dividing the space between the blanks into a plurality of compartments when the blanks are in operative positions, a vertical extension formed from one of the blanks providing a central longitudinal partition dividing the said compartments into individual cells.

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