April 20, 1937. N. F. SCHAEFER 2,077,588

SHIPPING BOX FOR CHICKS

Filed March 30, 1936

FIG. 1

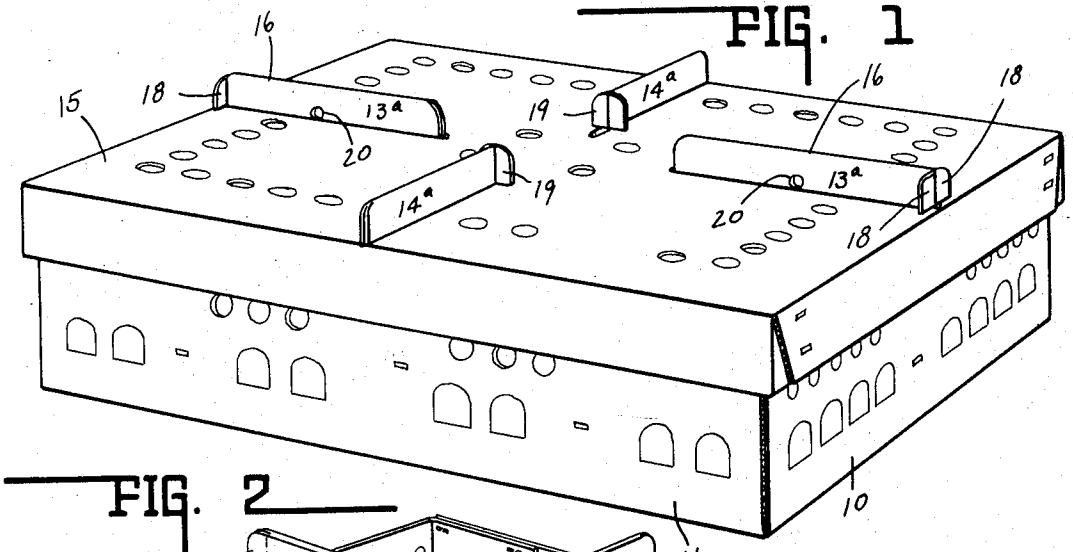


FIG. 2

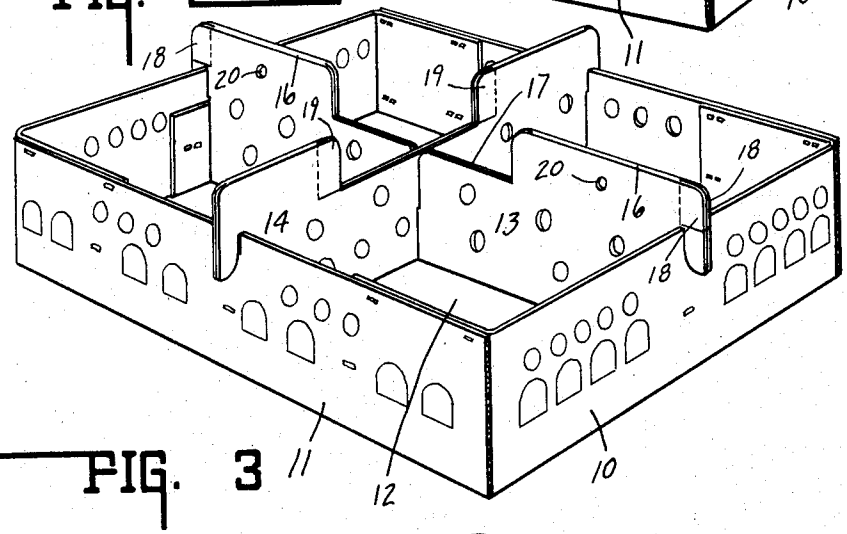
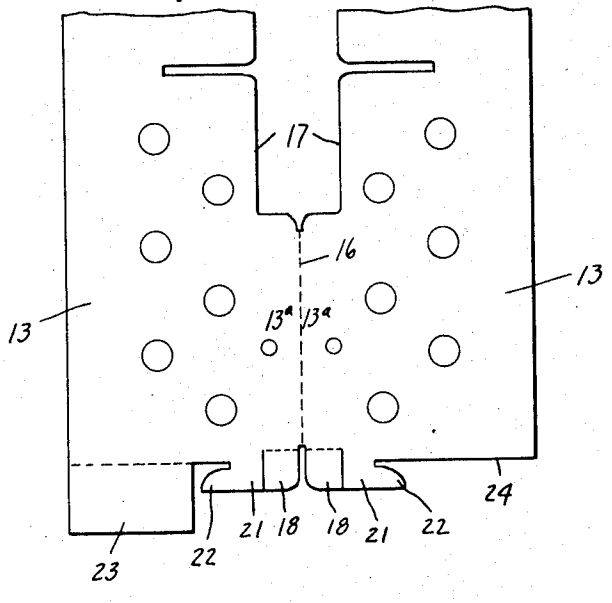


FIG. 3



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Patented Apr. 20, 1937 2,077,588

UNITED STATES PATENT OFFICE

2,077,588

SHIPPING BOX FOR CHICKS

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Application March 30, 1936, Serial No. 71,578

4 Claims. (Cl. 229—6)

This invention relates to a shipping box for chicks, particularly that character of box having a slotted lid with portions of the inner partitions extending upwardly therethrough to provide spacing devices for supporting superimposed boxes, reference being had to Letters Patent No. 1,781,279, issued November 11, 1930 to Robert A. Gorsuch for "Shipping box for chicks".

The purpose of this invention is to provide a shipping box such as shown and described in the above-entitled Letters Patent with locking devices for holding the lid in place comprising improvements over those heretofore employed for a like purpose.

One feature of the invention resides in splitting the partitions along the top fold a short way from the outer or inner ends thereof and cutting the adjacent portion of the walls backwardly to provide end tabs which may be bent laterally away from each other to extend over the upper surface of the lid when in place to provide a double lock therefor at their respective locations. Thus, one set of locks, preferably on the partition extending longitudinally of the box, may engage the cover adjacent its ends for holding the ends of the cover tightly in place on the box. Another pair of locks may be provided on the inner ends of the transverse partition for locking the central portion of the lid in place. Wherefore, the lid will be locked snugly in closed position both at its ends and adjacent its center for preventing bulging with the consequent danger of chicks being caught between the partition and cover. The double locks have the further advantage, as distinguished from a single lock of this character, in doubly insuring the locking of the lid, whereas a single lock may accidentally move into alignment with the partition and slot in the lid so as to release the latter and cause possible danger to the chicks in that location.

A further feature of the invention resides in the particular construction of the ends of the partitions where they engage with the side walls of the box.

Other objects and features of the invention will be understood from the accompanying drawing and the following description and claims:

Fig. 1 is a perspective view of the box with the cover in locked position. Fig. 2 is a perspective view of the box with the cover removed. Fig. 3 is a layout of one end of the longitudinal partition.

In the drawing there is illustrated a shipping box for chicks including the perforated end walls 10, side walls 11 and bottom 12. Mounted therein there are longitudinal partitions 13 and lateral partitions 14 which may be perforated. A portion of each of said partitions is adapted to extend upwardly through suitable slots formed in the lid 15 of the box to provide spacing members 13a and 14a. Said members are adapted to support a superimposed box in spaced relation to the supporting box.

As illustrated herein, the partitions are formed of double thickness, being folded over upon themselves whereby the upper edge forms a fold 16. Preferably the partitions are formed of lined corrugated board with the corrugations extending vertically for strengthening purposes. Said partitions are cut away adjacent their central portion, as indicated at 17, so as to permit of the central portion of the lid being without slots formed therein.

The opposite ends of both the longitudinal and laterally extending partitions are adapted to extend outwardly beyond the walls of the box adjacent the upper edges thereof through suitable slots provided therein. The lid 15 which fits over the box and through which the portions 13a and 14a extend, has its side walls or flanges so formed as to fit over the exposed ends of the partitions. The purpose of this arrangement is to provide a bulge about the upper portion of the box when the lid is in place which will serve to space the walls of the box from the next adjacent box when stacked one against the other, thereby preventing circulation of air through the apertures in the wall of the box from being shut off.

On the outer ends of the longitudinally extending portions 13a of the partition 13 there is provided a pair of double locking tabs 18. Said tabs are formed by cutting the fold 16 back slightly further than the extension thereof beyond the end wall 10, and similarly cutting the double thickness of partition 13 backwardly to the same extent and slightly above the upper edge of the wall 10. The tabs so formed normally lie together in the plane of the partition so that they may readily pass through the corresponding slot formed in the lid when mounted in place thereover. Upon the lid being mounted in place, said tabs may then be bent back to extend in opposite directions and at right angles to the plane of the partition and the corresponding slot of the lid. In this position, the bottom edges of the tabs engage the top surface of the lid to lock it in place and hold it snugly against the upper edge of the walls of the box. The inner ends of the projecting portions 14a of the

laterally extending partitions 14 are similarly formed to provide a pair of oppositely disposed tabs 19.

As above described, said tabs 19 may be moved into alignment with the portions 14a so as to readily pass through the slot in the lid provided for that purpose, whereupon they may be turned at oppositely disposed right angles to the projecting portion 14a for providing a pair of double locks adjacent the center portion of the lid for holding that portion thereof snugly against the upper edges of the partitions 13 and 14.

Each of the projecting portions 13a of the partitions 13 are provided intermediate their ends with an aperture 20 through which a cord may extend and be held in place for tying a group of boxes together or providing means for conveniently carrying the same.

As illustrated in Fig. 3, the outwardly projecting end portions 21 of the partition 13 have a bayonet tip 22 for locking over the outer surface of the end wall 10, as indicated in Fig. 2, and one of the sides is provided with a tab 23 which folds laterally to extend from or past the edge 24 of the other side so as to bear against the inner surface of the end wall 10 and be stapled or locked thereto for further anchoring and securing the partition in place. The end walls of the laterally disposed partitions 14 are similarly formed and connected with the side walls 11.

It will thus be noted from the foregoing that the projecting portions 13a and 14a of the partitions are so formed as to not only provide suitable and convenient locking devices for the lid but to provide double locks to prevent unlocking, strengthening the locking action and locate said locking action both at the extreme ends of the box and the central portion where most needed, and the double wall feature is further taken advantage of to firmly anchor the partitions to the walls.

The invention claimed is:

1. A shipping box for chicks including end and side walls, longitudinally and laterally extending partitions mounted within said walls, each of said partitions being of double thickness and folded along their upper edges and provided with cut away portions intermediate their ends and centrally thereof, a removable lid for the box having slots formed therein through which the folded over portions of the partitions may extend, and double locking devices formed on opposite outer ends of the folded over portions of the longitudinally extending partitions and on the inner ends of the laterally extending partitions, said locking devices being adapted to engage the upper surface of the lid for locking the outer edges thereof against the corresponding walls of the box, and the central portion thereof against the corresponding cut away portions of the partitions.

2. A shipping box for chicks including end and side walls, longitudinally and laterally extending partitions mounted within said walls, said partitions being provided with cut away portions intermediate their ends and centrally thereof, a removable lid for the box having slots formed therein through which the other portions of the partitions may extend, locking devices formed on opposite outer ends of the longitudinally extending partitions for engaging the lid and locking it against the end walls of the box, and locking devices formed on the ends of the upwardly extending portion of the laterally extending partitions adjacent the cut away portion thereof for engaging the upper surface of the central part of the lid and locking it against the cut away portions of said partitions.

3. A shipping box for chicks, including end and side walls having vertical slots extending downwardly from their upper edges intermediate their ends, longitudinally and laterally extending partitions mounted within said walls, each of said partitions being of double thickness folded along their upper edges and provided with cut away portions intermediate their ends and centrally thereof, said partitions being of greater length and width respectively than the box and having a portion of their ends extending through the slots formed in said walls, a removable lid for the box having slots formed therein through which the folded over portions of the partitions may extend and having the flanges thereof engaged by the protruding ends of the partitions for spacing from the walls of the box, and double locking devices formed at the ends of the folded over portions of the partitions in the form of oppositely disposed tabs bent laterally for engaging the upper surface of the lid and locking the opposite ends thereof against the end walls of the box and the central portion thereof against the cut away portions of the partitions.

4. A shipping box for chicks including end and side walls, a set of longitudinally extending partitions and a set of laterally extending partitions mounted within said walls, said partitions being provided with cut-away portions intermediate their ends and centrally thereof, a lid for the box having slots formed therein through which the other portions of the partitions may extend, locking devices formed adjacent the outer ends of one set of partitions for engaging the lid adjacent its outer edge and locking it against the corresponding wall of the box, and locking devices formed adjacent the inner ends of the other set of partitions for engaging the upper surface of the central part of the lid and locking it against the cut-away portions of said partitions.

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