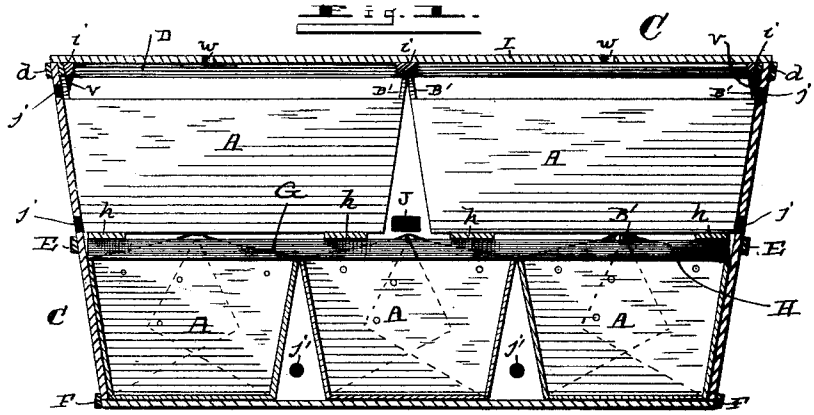
(No Model.)

J. T. MOTT.

TRANSPORTING PACKAGE FOR FRUIT.

No. 410,429. Patented Sept. 3, 1889.

Fig. 1.



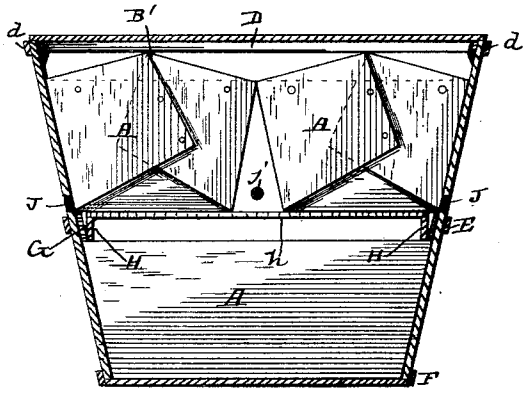


Fig. 2.

Fig. 3.

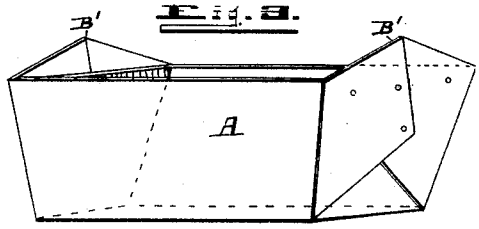
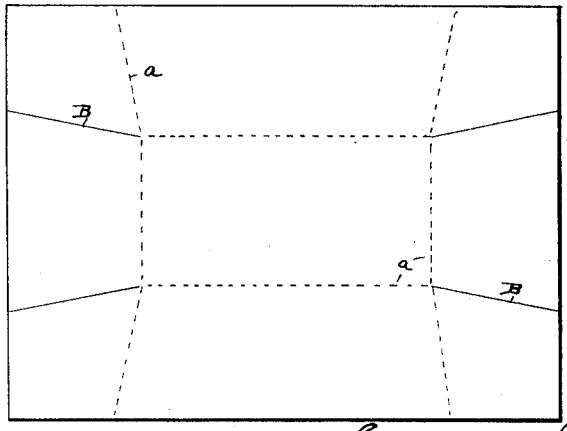


Fig. 4.



Witnesses

P. L. Brooks.

C. M. Lewis.

Inventor

J. T. Mott

By his Attorney

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UNITED STATES PATENT OFFICE.

JOSEPH T. MOTT, OF BROOKLYN, NEW YORK.

TRANSPORTING-PACKAGE FOR FRUIT.

SPECIFICATION forming part of Letters Patent No. 410,429, dated September 3, 1889.

Application filed April 20, 1889. Serial No. 307,991. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH T. MOTT, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Transporting-Packages for Fruit; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a vertical central longitudinal section through my improved fruit-transporting package. Fig. 2 is a transverse central vertical section of the same. Fig. 3 is a perspective view of one of the boxes. Fig. 4 is a detail view of a blank from which the box is formed.

This invention is an improvement in packing-vessels for fruits, vegetables, and other perishable articles; and its object is to provide boxes and a case wherein the boxes can be packed in compact manner, so that ample ventilation is given to the articles contained therein, which cases have inclined sides and ends, so that they can be "nested" in transportation when empty, or placed one within the other, the boxes being also made with inclined sides and ends, so that they can be nested when empty, and so that they will also fit snugly and securely within the case, and when so placed, as hereinafter described, will be braced by each other and the sides of the case.

To this end the invention consists in the novel construction and arrangement of parts hereinafter described and claimed.

Referring by letters to the accompanying drawings, A designates one of the boxes, which is preferably formed from a single blank of rectangular form, as indicated in Fig. 4. This blank is scored, as indicated by dotted lines *a a*, and cut through on the lines B B, the cuts and scores being at angles to each other, as shown, so that when the ends are turned up and the side pieces lapped thereover a box is formed, as shown in Fig. 3, having flaring sides and ends, and the ends having upstanding portions B′ B′, formed by the turned-in ends of the side pieces, the portions B′ rising above the level of the sides of the box and forming ears or handles by which the box can be conveniently lifted and handled.

C designates a packing case or crate, which is constructed with outwardly-inclined sides and end pieces, and, as shown, its width at bottom is equal to the length of one box A, as in Fig. 2, and its length at bottom is equal to the width of three boxes A, placed side by side, as indicated in Fig. 1. The height of case C is equal to that of two boxes A A, placed one above the other, Figs. 1 and 2, and its length at top is sufficient to accommodate nicely two boxes A A, placed end to end, Fig. 1, and its top width equal to two boxes A A, placed side by side, Fig. 2. By this it will be seen that I pack seven boxes A in one case C, the three being placed side by side transversely of the case in the bottom thereof and four being placed above the others, arranged in pairs lying parallel with the length of the case. This case C is constructed of light material, preferably wood, and is strengthened at top by an interior band or hoop D and an exterior hoop *d*, placed at the top edge thereof and suitably secured to its sides and end pieces, so as to protect and strengthen the same.

E is a band running centrally and horizontally around the exterior of case C, and F is a band around the bottom edge thereof, as shown, for giving rigidity thereto.

G designates a partition fitted about centrally in case C and removable therefrom. This partition is composed of longitudinal side bars or strips H H, connected by transverse pieces *h h*, as shown, preferably four in number. The pieces H H stand edgewise and rest upon the upper edges of the sides of boxes A A in the lower portion of the case, and the strips *h h* lie about even with the extremities or points of the ears B′ B′ of said boxes, and are at such distances apart that they receive and properly support the upper series of boxes A A, as indicated in Figs. 1 and 2.

I designates the top of the case, which is suitably constructed and secured thereto, as indicated, or in other proper manner, being braced on its under side by transverse strips *i i i*, as shown.

The sides of the case are perforated or pro-

vided with openings J, as shown, which openings are made about centrally of the height of the box, so that air is admitted into the case to ventilate the fruits or articles therein. The ends and lower portions of the sides may have openings *j j'* therein opposite the angular spaces left between the bottom of boxes A A when placed side by side, as shown, and the cover and corners of the case may also be perforated for ventilation, as indicated by *w v*.

It will be observed by reference to the drawings that the partition G is supported upon the lower boxes A A, and in turn supports the four upper boxes A, but sufficiently above the lower boxes to leave an air-space through which air can circulate, the air entering through openings J. It will also be observed that a space is left between the cover and the upper boxes, as the ears B′ B′ of said boxes keep the cover from pressing on the fruit. When the cover is down, the ears B′ B′ lie close to or in contact with the strips *i* thereof, and these strips assist in steadying the boxes in the case. I am thus able to pack the boxes compactly and securely and at the same time afford ample ventilation to the contents thereof, and they can be readily removed from the case by their ears, which serve as handles for the grasp of the hand.

It will be seen by reference to the drawings that the inclined sides of the boxes fit closely against the inclined sides of the case, and that the adjoining sides of the boxes while touching at top leave angular spaces between them through which air can circulate, thus amply ventilating the packages.

The cases can also be compactly stored in a car for transportation, and their inclined sides strengthen them and enable them to support a greater weight than they could if their sides were upright, so that the cases can be made of light material without danger of being too weak, the hoops bracing the same laterally. When the cases are closely packed in a car, their inclined sides leave air-spaces between them for circulation of air, so that the entire number of cases, with their contents, are fully ventilated.

By removing the boxes, which, owing to their inclined sides, can be nested compactly, the cases can be also nested, and thus a large amount of room saved, and consequently the expense of reshipping the cases and boxes reduced.

I do not claim a packing-crate having ventilating-openings and a series of boxes arranged one upon the other in tiers, broadly, as the essence of my invention lies in the peculiar shape of the crate and the boxes therein, together with the peculiar manner of arranging the boxes in the crate,

What I do claim is—

1. The herein-described transporting-package for fruit, consisting of a case C, having inclined sides and ends and a cover, a series of boxes A of equal dimensions, each having inclined sides and ends and arranged in two tiers in said case, with a removable partition interposed between the tiers, the boxes in the upper tier lying transversely to those in the lower tier and breaking joints therewith, and the walls of the boxes in each tier adjacent to the walls of the case being parallel thereto, as set forth.

2. The herein-described transporting-package for fruit, consisting of a case C, having inclined sides and ends and a cover, its walls being provided with ventilating-apertures, a series of boxes A of equal dimensions, each having inclined sides and ends and arranged in two tiers in said case, with a removable partition interposed between the tiers, the boxes in the upper tier lying transversely to those in the lower tier and breaking joints therewith, and the walls of the boxes in each tier adjacent to the walls of the case being parallel thereto, as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOSEPH T. MOTT.

Witnesses:
CHAS. R. HENRY,
WEBSTER J. MOTT.