J. E. TUCKER.

EGG CARRIER.

APPLICATION FILED JAN. 17, 1914.

1,104,719.

Patented July 21, 1914.

2 SHEETS—SHEET 1.

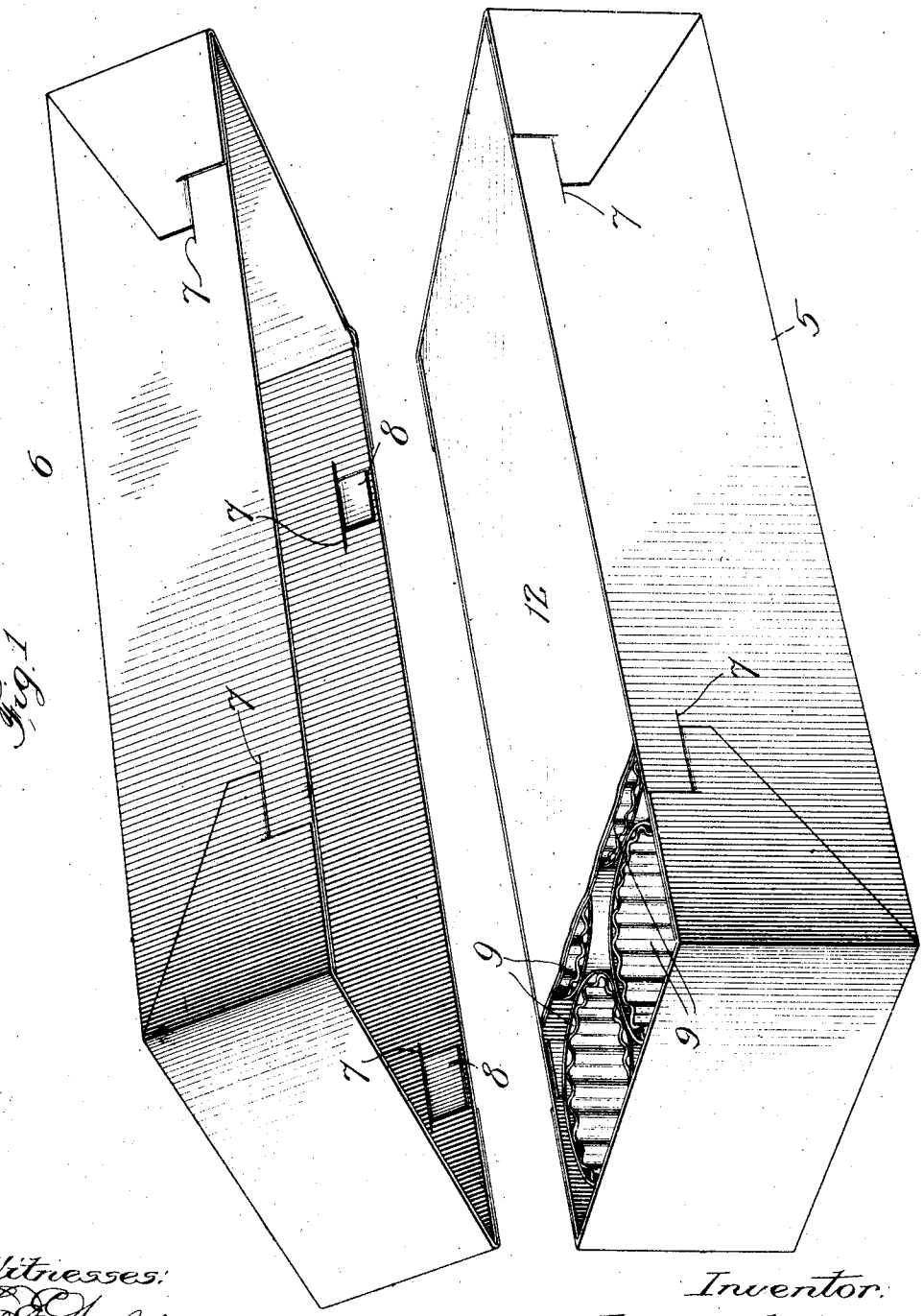


Fig. 1

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2 SHEETS—SHEET 2.

Fig. 3.

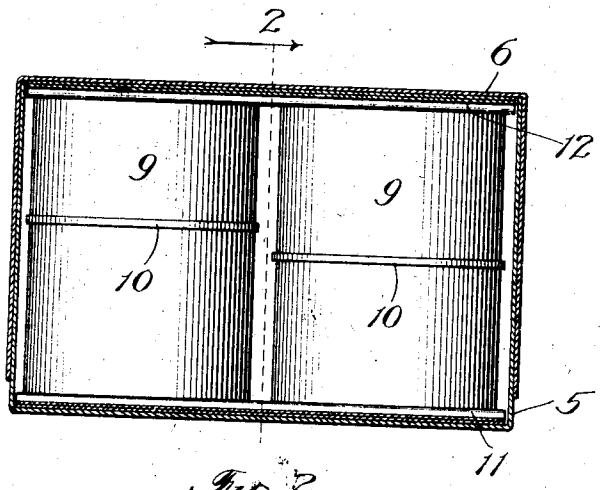


Fig. 2.

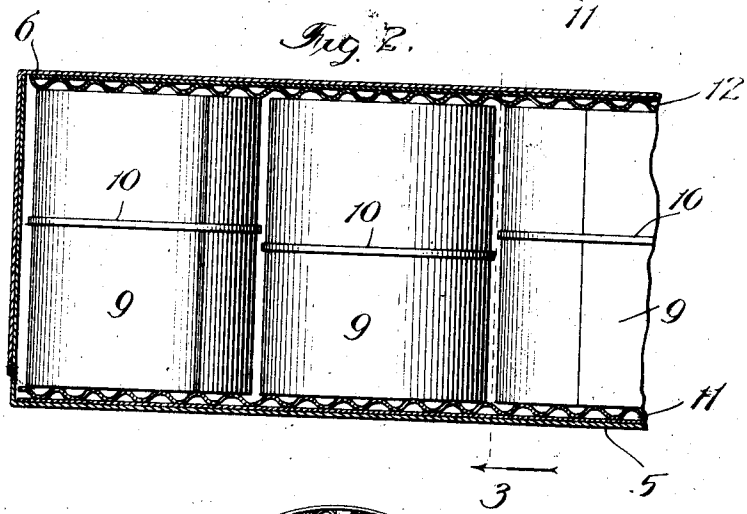
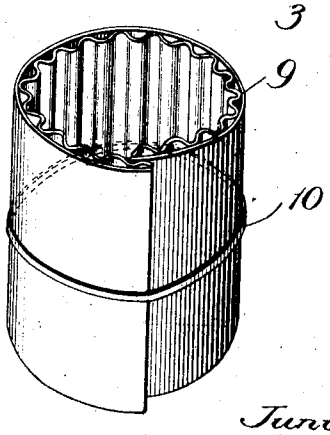


Fig. 4.



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UNITED STATES PATENT OFFICE.

JUNIUS E. TUCKER, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-THIRD TO D. C. HERNDON AND ONE-THIRD TO A. G. BALLERSBY, BOTH OF NEW YORK, N. Y.

EGG-CARRIER.

1,104,719. Specification of Letters Patent. Patented July 21, 1914.

Application filed January 17, 1914. Serial No. 812,625.

To all whom it may concern:

Be it known that I, JUNIUS E. TUCKER, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Improvement in Egg-Carriers, of which the following is a specification.

My invention relates to an improvement in carriers for eggs, small fruits, and the like, but which I have more especially devised for shipping eggs, whereby they may be protected against being broken while being shipped or handled through the mail, for which latter purpose my improvement is particularly intended.

In the accompanying drawings, Figure 1 is a perspective view, with a part broken away, of my improved carried, showing the box-cover raised; Fig. 2 is a section on line 2, Fig. 3; Fig. 3 is a section on the line 3, Fig. 2, and Fig. 4 is a perspective view of one of the similar expansible cells.

The box body 5 and cover 6 telescoping it are constructed substantially alike of light and cheap paper board, cut and scored without any waste of material, with the end-sections overlapping the sides near their ends, where they contain, as the preferred construction, slits 7 to receive tongues 8 for holding the parts together in operative position from which they may be readily separated and flattened out to adapt the box for return-shipment from the dealer or shipment to the packer in knockdown condition. The box is adapted to contain a plurality of similar cells 9, each adapted to receive an egg and each comprising a strip of individual separated reinforced corrugated paper board, that used being preferably of the strawboard variety. This strip is curled into cylindrical shape with its meeting edges separable but held together by an elastic band 10 about the cell. The cells seat endwise against the corrugated face of a strip of reinforced corrugated strawboard 11 fitting the bottom of the box, and they are covered by a similar strip 12 extending with its cushioning corrugations over the upper ends of the cells and fitting in the top of the box. The box-cover 6, which snugly fits over the body 5, holds the interior parts in place, and may be fastened, for shipment of the package, by tying with cord or in any other suitable manner.

The box may be made in sizes to contain one dozen or several dozens of the cells 9, the construction of which cushions the cell about each egg therein to protect it against contact with other eggs in the box and prevent the eggs from breaking by jar in their shipment. The normal diameter of each cell, with its separable edges held together by the rubber band 10, is preferably such as will cause it to be fitted snugly by an egg of relatively small size, but the cells will admit and snugly hold eggs of larger size, the insertion of which expands the cells against the yielding resistance of their surrounding bands; and the cells in the box cushion against each other. The top and bottom strips 11 and 12 of reinforced corrugated board cushion the ends of the cells against longitudinal crushing and also cushion the ends of the eggs; and the corrugations on these strips present their ends to the box-sides to resist lateral crushing strains against the box, the contents of which, are, moreover, reinforced against injury from crushing by the walls of the box-body and cover. The box is thus sufficiently reinforced by its contents to resist considerable pressure from every direction, so that many of these boxes may be stacked one upon another without danger of crushing them and thereby injuring the eggs in the cushioning cells within them.

In the handling of the large and constantly increasing volume of packages shipped through the medium of the parcel post it is impossible to handle cartons or boxes containing eggs with such care as to insure the contents against breakage, and unless such containers are of such construction as to reduce to the minimum the danger of the breaking of the eggs carried thereby great loss and damage ensues. The package itself must not only be so constructed as to resist shock and the weight of other packages, which may be piled thereon, but the contents must be so packed as to prevent the individual cells or separate egg containers from shifting their position in the box while in transit. To these ends I have found that the edge portions of the ends of the cells 9 being at substantially right angles to the line of the corrugations of the boards 11 and 12, as clearly illustrated in Fig. 2 of the drawings, between which said cells are held, prevents the shifting of said cells in a direction lengthwise of the carrier, thereby

preventing the crowding of one cell against another with resulting breakage of the eggs inclosed thereby.

What I claim as new and desire to secure by Letters Patent is:

1. An egg-carrier comprising, in combination, a box, cylindrical corrugated cushioning cells in the box, having separable meeting-edges and provided with circumferential elastic bands, and strips of corrugated cushioning material in the box, between the corrugated faces of which the cells are confined endwise, and presenting the ends of their corrugations at substantially right angles to the corrugations of said strips, whereby said cells are individually held in place and reinforce the opposing walls of the box.

2. An egg-carrier comprising, in combination, a box having a body and a cover telescoping it, individual cylindrical cells of reinforced corrugated strawboard in the box having separable meeting edges and provided with circumferential elastic bands, and lower and upper strips of reinforced corrugated strawboard in the box, between the corrugated faces of which the cells are confined endwise, and presenting the ends of their corrugations at substantially right angles to the corrugations of said strips, whereby said cells are individually held in place and reinforce the opposing walls of the box.

JUNIUS E. TUCKER.

In presence of—
A. C. FISCHER,
F. A. FLORELL.