

L. L. WESTLING.
 PACKING CASE FOR ICE CREAM CONES.
 APPLICATION FILED JULY 22, 1909.

985,870.

Patented Mar. 7, 1911.

Fig. 1.

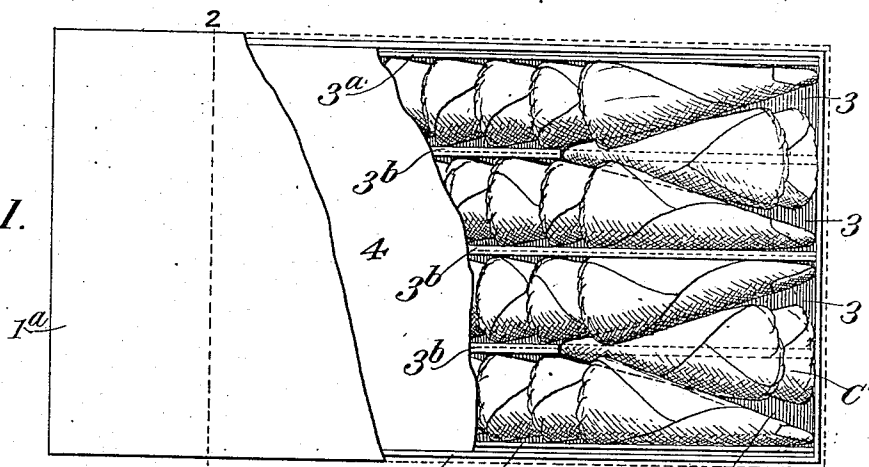


Fig. 3.

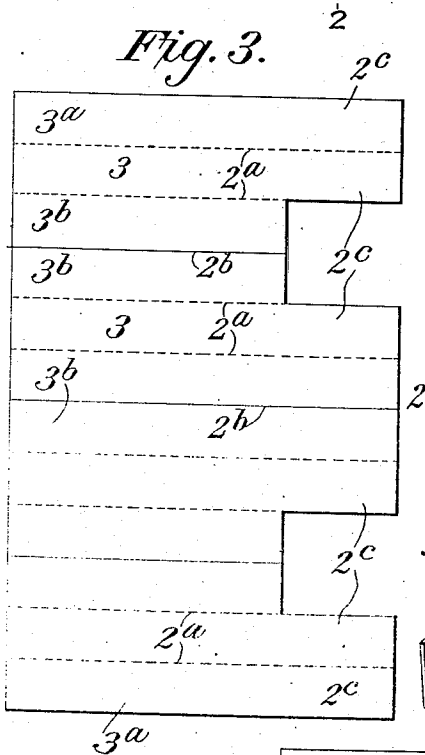


Fig. 2.

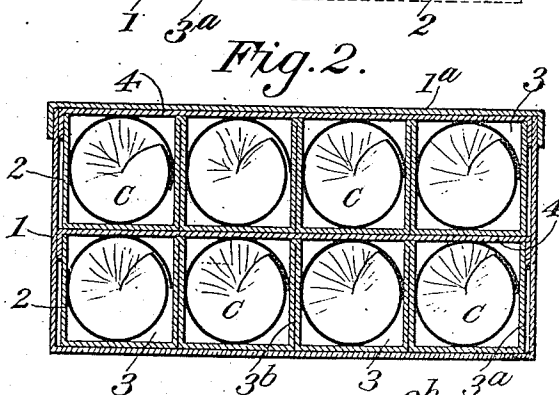


Fig. 4.

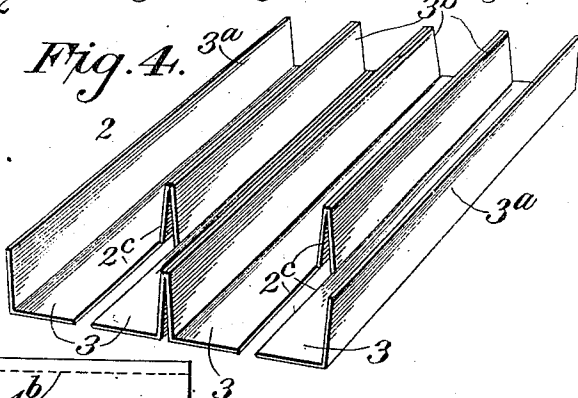
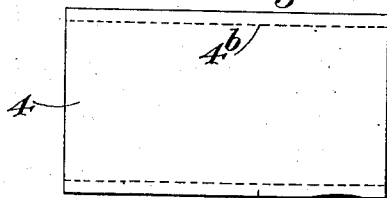


Fig. 5.



Witnesses

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PACKING-CASE FOR ICE-CREAM CONES.

985,870.

Specification of Letters Patent.

Patented Mar. 7, 1911.

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To all whom it may concern:

Be it known that I, LEONARD L. WESTLING, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Packing-Cases for Ice-Cream Cones; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

This invention relates to means for packing fragile articles in bulk for transport; and is especially designed for packaging so called ice-cream cones.

The particular object of the invention is to provide means for packing large quantities of such cones in small space and in such manner that they will not be injured in transport. The package comprises an outer box, a series of tiers of troughs and covers therefor. The troughs in each tier are made of a one-piece blank scored and cut in such manner that it can be readily bent into shape to form a series of parallel troughs as hereinafter explained, and whereby the package containing same shall be thoroughly braced in all directions; so that the box can be made of ordinary paste-board if desired.

I will now describe the invention in detail as illustrated in the accompanying drawings which show one practical embodiment thereof, as used to transport ice-cream cones.

In said drawings:—Figure 1 is a top plan view of a package with the box top and the cover of top tier of troughs broken away. Fig. 2 is an enlarged vertical transverse section of such package on line 2—2, Fig. 1. Fig. 3 is a plan of one of the foldable trough-blanks flat. Fig. 4 is a view of such trough-blank partly folded. Fig. 5 is a view of a cover blank.

The package comprises a box 1, which may be of any desired material and size according to the number of cones it is intended to contain; and is provided with a removable top 1^a. The box and top may be of any desired material being indicated as if made of veneer or pasteboard.

As shown in the drawings the box is of a size to carry eight dozen or more cones; and within such box are two tiers of troughs; each tier containing four troughs arranged parallel. Each tier is formed of a bent sheet of suitable material, preferably

card-board which is shown flat or in blank form in Fig. 3; and as partly bent in Fig. 4; and as fully bent into shape in Fig. 2.

The trough-blank 2 is of a width equal to one diameter of the box, and of a length approximately equal to three or more times the other diameter of the box, in the example shown; its length however depending upon the number and cross-section size of the troughs to be formed thereby. Said blank is scored on its under side as indicated at 2^a, and on its upper side as indicated at 2^b in Fig. 3, so that it can be folded upwardly along the scores 2^a and folded downwardly along the scores 2^b; when so folded the blank forms a series of connected parallel U-shaped troughs 3, see Figs. 2 and 4. The outermost folds 2^c of the blank being parallel with and fitting close against the sides of the box 1. The blank 2 as thus scored, may be said to be divided into two outer or end portions 3^a; four parallel portions 3, one between each adjacent pair of scores 2^a and adapted to form the bottoms of the troughs; and six parallel portions 3^b adjacent the scores 2^b as indicated in Fig. 4; and when the blank is properly folded or bent the adjacent parts 3^b will close together and stand parallel with the parts 3^a and each other; and the parts 3 will form the bottoms of the troughs, while the parts 3^b form partitions therebetween. One of these trough-blanks properly folded is placed within the bottom of the box and divides it into a series of parallel troughs, and in each of these troughs can be placed the objects to be transported. In the drawings I have shown so called "ice-cream cones," which are very fragile. These cones C can be wrapped in paper, nested together as indicated, and a row of cones placed in each box. Adjacent rows of cones are separated by partitions 3^b. After the lower tier is filled a cover 4, of suitable material, preferably card-board, is placed thereon, the sides 4^a of such cover being scored as indicated at 4^b in Fig. 5 so they can be bent down over the upper edges of the side pieces 3^a of the outer troughs, and thus serve to stiffen the latter. A second trough-blank is then folded and placed on top of the cover 4, then filled with cones as described, and covered by another cover 4. The box is filled in this way by tiers of troughs and covers 4 until it is full. The top 1^a is then placed on the box. By this construction every trough is practi-

cally formed of or surrounded by at least two thicknesses of material on all sides, and the box is strongly braced,—by the troughs and covers,—longitudinally, transversely and vertically, and will withstand a great deal of exterior pressure without crushing, and the fragile articles therein will be sufficiently protected.

In order to enable a greater number of cones to be placed in a box I make the alternate partitions 3^b of different lengths; this is easily done by cutting out portions of the blank, at the ends of alternate scores 2^b, as indicated at 2° in the drawings, so that when the blank is folded the alternate partitions 3^b will be shorter than the intermediate partitions, as shown in Figs. 1 and 4. This enables me to place more cones in the box; as additional cones C' can be inserted at these cut-away portions, said cones C' being set oppositely to the cones in the adjacent rows and being braced by and in turn bracing the latter as shown in Fig. 1.

The box is ordinarily made to contain a certain number of cones in each trough, but as the cones are not always uniform in length, by cutting away part of the alternate partitions, as described, I am enabled to certainly pack the intended number within the desired space, should the cones be a little longer than usual; or I can pack more cones in the same package than could be done if the partitions were all of full length.

The box 1 can be made of wood or any suitable material and filled with tiers of troughs and covers as described. The size of the box can be varied to suit the number of articles it is intended to contain; and of course the size of the trough-blanks will be varied according to the size and number of troughs that are to be formed thereby.

It will be seen that in this package each row of cones is kept separate; and that the cover between the troughs of cones is scored and bent over the edges of the outer troughs so that they cannot get out of place.

Each tier of troughs being formed of one sheet of material has more carrying power and is more rigid when folded than it would be if formed of separate U-shaped pieces. The trough-blanks being cut and scored as described can be much more easily handled and put in position than if the troughs were formed of separate pieces. When used for ice-cream cones the latter should be individually wrapped in waxed paper so as to keep them air-tight and at the same time assist in protecting them from injury by shock if the box should be tossed about.

While I have described the box as specially adapted for carrying ice-cream cones it can be used for other fragile articles.

Having described my invention what I claim as new and desire to secure by Letters Patent thereon is:

1. A transport package for ice-cream cones, etc., comprising a box, a series of parallel troughs therein composed of a blank scored on opposite sides and then bent along the scores into a series of parallel U-shaped troughs, said blank being cut so that the alternate partitions between the troughs will be of different lengths, and a top for the box.

2. A transport package for ice-cream cones etc. comprising a box, a series of parallel troughs therein composed of a blank scored on opposite sides and then bent along the scores into a series of parallel U-shaped troughs, said blank being cut so that the alternate partitions between the troughs will be of different lengths, and a cover for said troughs having its side edges bent down over the outer sides of the outermost troughs within the box; and a top for the box.

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

LEONARD L. WESTLING.

Witnesses:

JAMES A. JOHNSTON,
HENRY J. BOCK.