April 3, 1928.

1,665,033

S. K. JENSEN

INSULATED CONTAINER

Filed April 30, 1926

Fig. 1

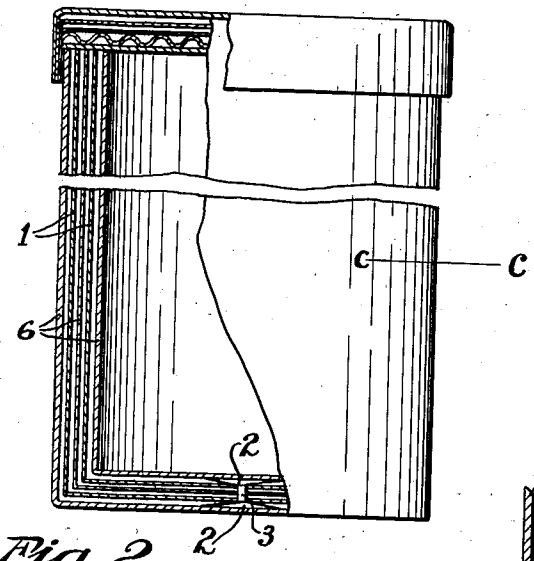


Fig. 6

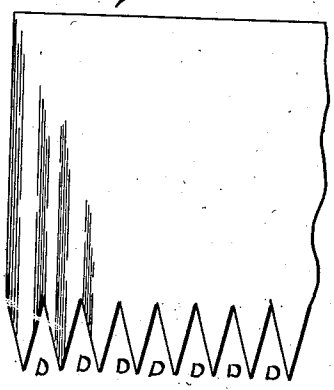


Fig. 3

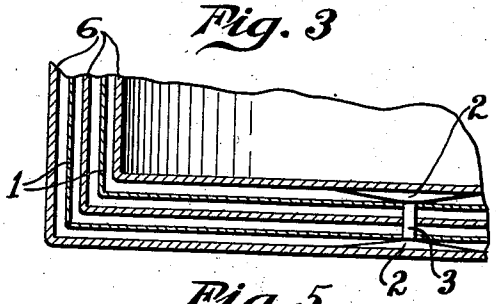


Fig. 2

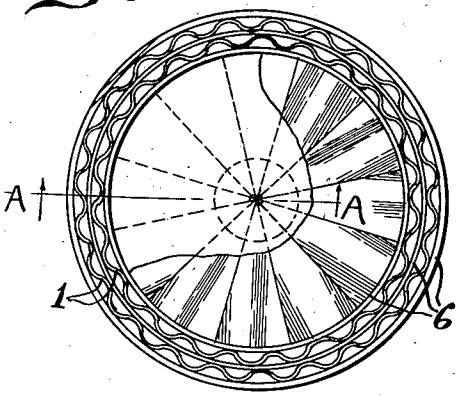


Fig. 5

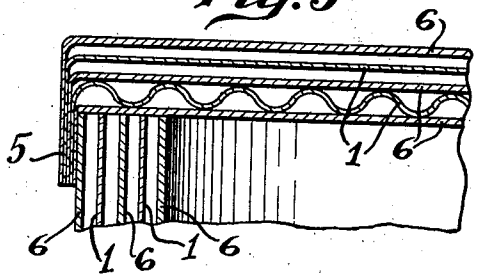


Fig. 4

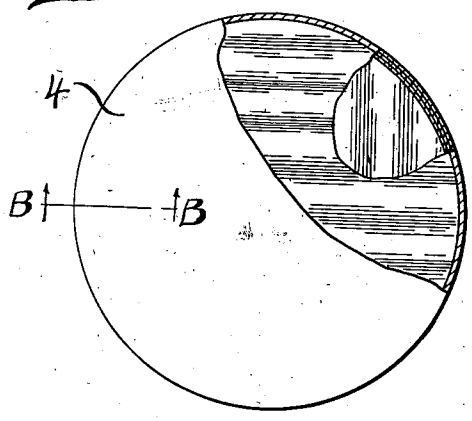
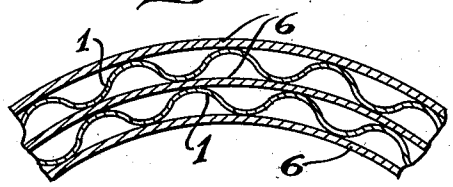


Fig. 7



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Patented Apr. 3, 1928. 1,665,033

UNITED STATES PATENT OFFICE.

SOREN K. JENSEN, OF WICHITA, KANSAS.

INSULATED CONTAINER.

Application filed April 30, 1926. Serial No. 105,828.

My invention relates to an insulated container for transporting or storing ice cream or other soluble substance.

The object of my invention is to provide a container having air chambers in the wall and lid thereof formed from fibrous material as a non-conducting element co-acting with the air chambers.

A further object of my invention is to provide a container of the kind described as a means of reducing the weight over other containers with equal capacity of contents.

A still further object of my invention is to provide a manner of construction that will permit the use of the form and materials herein set forth to produce a structure of a shape disclosed in the drawings, the bottom being integral with the side wall.

A still further object of my invention is to provide a re-inforcing means for the corrugated sheets, whereby additional air cells are provided.

A still further object of my invention is to construct an inexpensive container that after once being used it may be discarded or considered non-refillable so far as a guarantee of sufficiency in strength is concerned.

These and other objects will hereinafter be more fully explained.

Referring to the drawings:

Fig. 1 is an elevation of the container partly in section for convenience of illustration.

Fig. 2 is a top view, the lid being removed.

Fig. 3 is an enlarged sectional detail through the bottom, taken on line AA in Fig. 2.

Fig. 4 is a plan view of the lid, parts removed for convenience of illustration.

Fig. 5 is an enlarged fragmentary sectional view through the lid, taken on line BB looking in the direction of the arrow.

Fig. 6 is a view of the corrugated material before being rolled in cylindrical form showing the V-shaped cuts along the bottom.

Fig. 7 is an enlarged fragmentary sectional view taken on line CC in Fig. 1.

The container herein disclosed is constructed of a plurality of corrugated sheets 1, being made of wood fiber or the like. The corrugations being vertically positioned for the side wall. The bottom being formed by removing V-shaped portions as at D. The apex of the remaining portion will intersect at the center when bent at a right angle to the side wall, thus forming the bottom with the joints between the V-shaped portions being radially disposed, and the points of the members being connected by metal disc members 2 connected by a pin 3, the ends of which are riveted in apertures concentrically positioned in the discs. It is possible however that the discs may be of paste board or the like and in this event the diameter will be sufficient to engage a liberal portion of the points and firmly attached by adhesive substance eliminating the use of a connecting pin.

The lid 4 being made in the same manner except that the corrugations are transversely positioned to each other; the edges thereof being pressed together and laterally extending forming a flange 5 to fit snugly over the top of the container. Between the plies of the corrugated sheets is a plain sheet 6 attached firmly to the corrugations by adhesive substance. A similar sheet is applied to the exterior and interior of the container, the exterior sheet connected to the corrugations by adhesive substance while the interior may be placed without connecting firmly by adhesion. The interior and exterior sheets when applied to the bottom function as a bonding material holding the apex members firmly together. The centrally disposed discs connecting the apex of the bottom members will be covered by the interior and exterior sheets.

The drawings disclosed show a two ply corrugated construction. Other plies may be employed when the container is made for a greater capacity or when a greater insulation is required against heat, and between the plies will be the plain sheets as shown at 6 in Fig. 7. The said sheets function for two purposes: first, to provide a tensile strength to resist expansive force of the contents; second, to divide the spaces formed by the corrugations making additional air cells.

My container is principally designed for shipping and temporarily storing ice cream, but to this purpose it is not confined, as lard or other like substance may be preserved and transported therein.

Such modifications may be employed as to the size, shape and manner of assembly, and the materials employed forming the sheets that are corrugated, and adhesive employed in the lamination.

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

In an insulated container, a cylindrical container comprising smooth sheets and corrugated sheets alternately connected by adhesive substance, pointed portions extending from one edge and having a lateral bend so that the outer points thereof will meet in the center to form a bottom, a disc to engage on both sides of the points, and a pin centrally connecting the discs as binding and aligning means for the points, a smooth covering for the inside and outside of the bottoms, all as, and for the purpose described.

SOREN K. JENSEN.