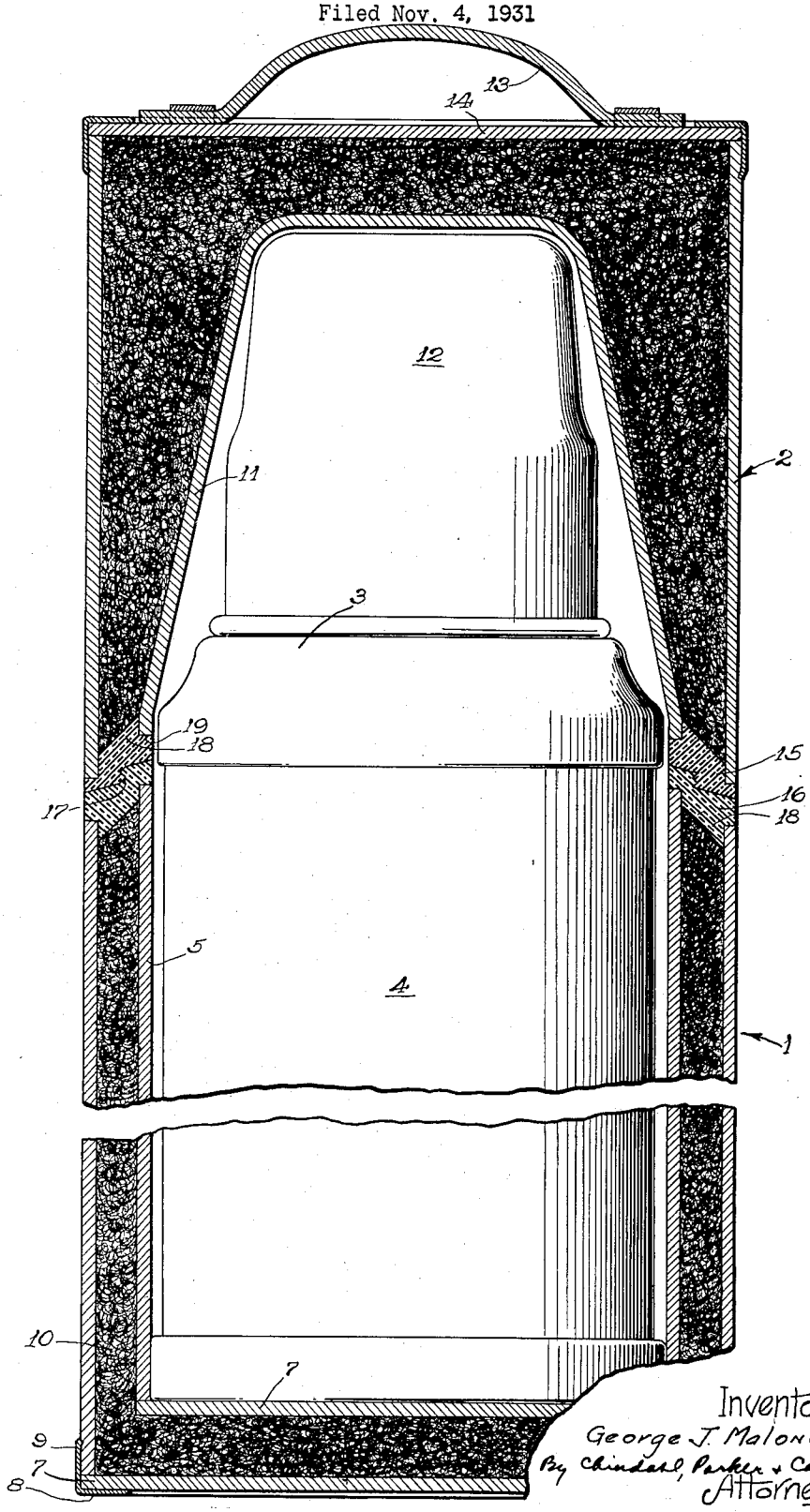
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INSULATING CARRIER FOR CONTAINERS

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INSULATING CARRIER FOR CONTAINERS

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3 Claims. (Cl. 229—14)

This invention relates to improvements in insulated packs or containers for carrying bottles containing beverages and the like and more particularly to a casing with its cover and body portions adapted to be secured together so that the container can be carried about by a handle on the cover.

The general object is to provide a heat insulating casing for a beverage container which is efficient in operation and inexpensive to manufacture by reason of the novel construction of the inner and outer walls of the casing and of the means for joining the body and cover portions of the casing.

Other objects and advantages of the invention will become apparent from the following detailed description taken in connection with the accompanying drawing, which is a vertical central sectional view of a bottle carrier embodying the features of the present invention.

The container shown in the drawing is of circular cross-sectional shape and comprises a lower or body portion 1 and a cover or cap 2 which are adapted to be secured together a short distance below the mouth or open end 3 of the bottle 4 which is intended to be carried in the container. The inner and outer side walls of the body 1 are in the form of two concentric tubes 5 and 6 of heat insulating material such as wood pulp or other fibre. Each may be formed by compressing the pulp to form a rigid compact structure or may be of socalled card-board formed by rolling sheets of paper layer upon layer with the successive layers glued together.

The bottom walls 7 are also formed of heat insulating material and may take the form of card-board plates abutting against the ends of the tubes 5 and 6 and spaced the same distance apart. The outer bottom wall is held in place by a sheet metal ring 8 having an upstanding flange 9 into which the lower end of the tube 6 is pressed and securely fastened as by turning the upper edge or portion thereof inwardly. The space between the outer and inner walls is packed full of porous insulating material 10 such for example as rock wool or granulated cork thereby giving rigidity to the walls and forming a dead air space of substantial thickness.

The cap or cover 2 is constructed in a manner similar to the body except that the inner wall 11 is preferably of conical shape to conform more closely to that of the bottle cover 12 which is of smaller diameter than the body of the bottle. A strap 13 with its opposite ends secured to the top plate 14 forms a handle by which the assembled container may be carried about.

The open ends of the cap and body are fitted with rings 15 and 16 of heat insulating material having the proper strength and rigidity to enable screw threads to be used as a means for securing the two parts firmly together. Preferably the rings are made of a phenolic condensation product and generally conical in shape, each having a shoulder 17 concentric with the ring axis and located about midway between the inner and outer edges of the ring. Male and female threads are formed in these shoulders.

Around the upper side of the ring 15 and the lower side of the ring 16 are flanges 18 of such radial thickness as to fit snugly in the space between the ends of the inner and outer card-board walls of the cap and body, which ends abut against shoulders 19 formed on the rings. The rings may be secured to the card-board tubes in any suitable manner. Preferably the end surfaces of the flanges 18 are inclined and extend parallel to each other so as to minimize the axial length of the parts of the joint.

When the body and cover are assembled with the rings 15 and 16 screwed together as shown in the drawing, the adjacent end surfaces of the rings are drawn firmly into abutment thereby forming a tight yet readily detachable joint which, owing to the heat insulating property of the material of which the rings are composed and the short axial length of the assembled rings, effectually minimizes the loss of heat through the joint. With the joint thus constructed, the assembled container presents a smooth outer surface so that the surface may be decorated to give a neat and artistic appearance.

I claim as my invention:

1. An insulating carrier for beverage bottles combining a body and a cover each composed of concentric tubes of card-board and having spaced parallel walls at one of their ends, porous insulating material filling the space between the walls of said body and cover, and two rings each composed of a phenolic condensation product and having an annular flange projecting into the space between and secured to the open ends of said tubes, said rings being formed intermediate their side edges with male and female threads adapted when screwed together to draw the rings into abutting engagement and thereby form a rigid heat insulating joint between said body and cover enabling the assembled container to be supported by a handle on said cover.

2. An insulating carrier for beverage bottles

combining a body and a cover each composed of spaced concentric tubes of compressed wood or other fibre pulp and closed at one of their ends by spaced plates of similar heat insulating material, a filling of porous insulating material packed in the space between said tubes and end plates, and rings composed of heat insulating material abutting against the open ends of said tubes and having an annular flange projecting into and snugly fitting in the space between said tubes, said rings being formed with interfitting screw threads adapted to permit the assembled container to be carried by grasping said cover.

3. An insulating carrier for beverage bottles combining a body and a cover each composed of spaced concentric tubes of compressed wood or other fibre pulp and closed at one of their ends by spaced plates of similar heat insulating material, a filling of porous insulating material packed in the space between said tubes and end plates, and rings composed of heat insulating material secured to the open ends of said tubes in closing relation thereto and having interfitting screw threads formed thereon whereby said body and cover may be secured together to permit the assembled carrier to be supported from said cap.

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