July 2, 1929. H. D. GEYER 1,719,220

ICE CREAM CABINET LID

Filed Dec. 15, 1926

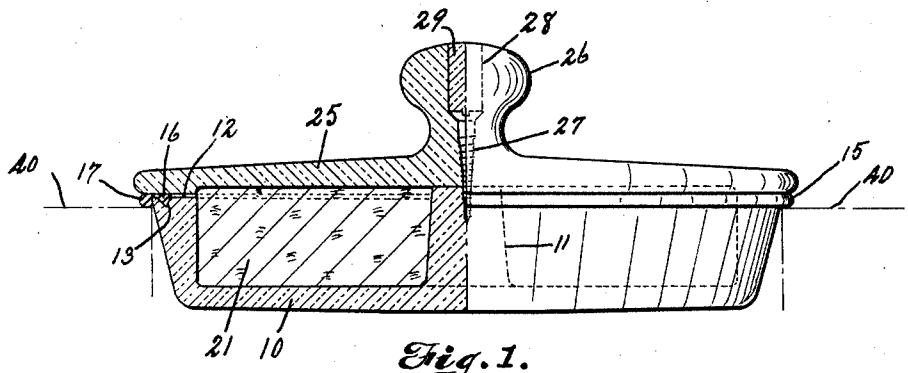


Fig. 1.

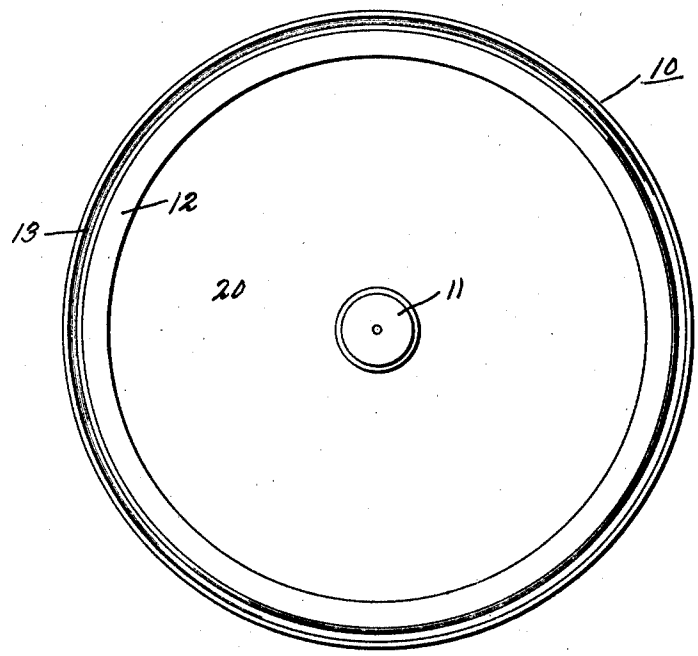


Fig. 2.

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UNITED STATES PATENT OFFICE.

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ICE-CREAM-CABINET LID.

Application filed December 15, 1926. Serial No. 154,909.

This invention relates to removable covers or lids, and particularly to lids for closing the openings in the top of ice cream cabinets provided to afford access to the ice cream containers therebelow.

An object of this invention is to provide an improved form of lid for this purpose which will be very economical to manufacture, of increased heat insulating efficiency due to the heat insulating qualities of the relatively thick non-metallic molded material of which it is made, and which will not "sweat" or collect condensed moisture upon its top surface when in use.

Further objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawings, wherein a preferred form of embodiment of the present invention is clearly shown.

In the drawings:

Fig. 1 is in part a side elevation and in part a vertical section through a lid for an ice cream cabinet made according to this invention.

Fig. 2 is a detail view looking down on the bottom molded member and with the heat insulating material and gasket removed.

Numeral 10 designates the bottom cup-shaped molded member having a central upstanding projection 11 integral therewith. The upper face 12 of the cupped member 10 has molded therein a peripheral groove 13, preferably shaped as clearly shown in Fig. 1. An elastic rubber gasket 15, preferably molded in an endless loop, has an inner portion 16 which conforms to and seats within the groove 13, and an outer portion 17 which hangs over the peripheral edge of the member 10, all as clearly illustrated in Fig. 1. The central chamber 20 of member 10 is filled with some suitable heat-insulating material, such as the ground cork board 21 shown.

The top member 25 is molded from the same material as the bottom member 10 and preferably has the hand knob 26 molded integral therewith, as shown. A wood screw 27 passes downwardly through the center of the hand knob 26 and into the central projection 11 of the bottom member to rigidly clamp the two members together. Preferably a hole 28 of the diameter of the head of screw 27 is drilled down in the center of hand knob 26 for a considerable distance so that an ordinary type of wood screw 27 may be used for securing the top and bottom members together. The top 25 is thus held tightly clamped down upon elastic rubber gasket 15 which is thus held fixed in place. This gasket 15 serves two functions. It completely seals the joint between the top 25 and the bottom member 10 and thus prevents any possibility of moisture entering the interior chamber 20 occupied by the heat insulating material 21 and causing the insulating material to deteriorate or bad odors to escape therefrom through the joint. Also the projecting portion 17 of gasket 15 serves to seal the joint between the top of the cabinet 40 and the lid to prevent the escape of cold air past the lid.

After screw 27 is driven home by means of a screw-driver inserted through the hole 28, the hole 28 is sealed up with a suitable sealing material 29 of the same color as the hand knob 26.

The molded material of which members 10 and 25 are made may be a hard rubber composition or other well known molding compositions. However there is preferably used a cold molding composition consisting approximately of the following materials and propertions by weight: gilsonite (Utah asphalt) 46%; asbestos fiber 19½%; korite (a bituminous residue of low melting point derived from the cracking process of gasoline refining) 11½%; and a heavy filler such as ground slate 23%. These materials are converted into a plastic doughy mass in a suitable mixing machine at a temperature of approximately 370 degrees F. and then the proper amount of this hot compound is put in the unheated molds and formed under a high pressure ranging from something like 3,500 lbs. to 10,000 lbs. per square inch depending upon the shape and size of the part being molded. After about three minutes the finished molded part can be removed from the molds. This cold molding material is described in greater detail and claimed in a separate application, Serial No. 169,669, filed Feb. 9, 1927.

While the form of embodiment of the present invention as herein disclosed, constitutes a

preferred form, it is to be understood that other forms might be adopted, all coming within the scope of the claims which follow.

What is claimed is as follows:

1. In an ice cream container, a removable lid adapted to seat by gravity upon the upper open end of said container and comprising: a molded composition cupped bottom member, a molded composition top member having a hand knob molded integral therewith, heat insulating material in the interior chamber formed between the said cupped bottom member and top member, a peripheral sealing gasket interposed between said bottom and top members for sealing said interior chamber, and means for clamping said bottom and top members rigidly together thus retaining said gasket in place.

2. In an ice cream container, a removable lid adapted to seat by gravity upon the upper open end of said container and comprising: a molded composition cupped bottom member, a molded composition top member having a hand knob molded integral therewith, heat insulating material in the chamber formed between the said cupped bottom member and top member, a peripheral sealing gasket projecting beyond the edge of the bottom member and adapted to sustain the weight of the lid and having a portion interposed between said bottom and top members, and means for clamping said bottom and top members rigidly together thus retaining said gasket in place.

3. A removable lid for an opening in the top of an ice cream cabinet and adapted to seat by gravity upon said top, comprising: a molded composition cupped bottom member, a molded composition top member, heat insulating material in the chamber formed between said bottom and top members, a peripheral sealing gasket interposed between said bottom and top members and having a portion projecting beyond the periphery of the bottom member and adapted to sustain the weight of the lid resting upon said cabinet top, and means for rigidly clamping said top and bottom members together.

4. A removable lid for an opening in the top of an ice cream cabinet and adapted to seat by gravity upon said top, comprising: a molded composition cupped bottom member, a molded composition top member, heat insulating material in the chamber formed between said bottom and top members, said bottom member having a peripheral groove molded into its upper face, a sealing gasket seated in said groove and projecting beyond the edge of said bottom member and adapted to sustain the weight of the lid resting upon the top of the cabinet, and means for rigidly clamping said bottom and top members together.

5. A removable lid for an opening in the top of an ice cream cabinet and adapted to seat by gravity upon said top, comprising: a molded composition cupped bottom member, a molded composition top member, heat insulating material in the chamber formed between said bottom and top members, a resilient rubber peripheral sealing gasket partially interposed between said bottom and top members and adapted to sustain the weight of the lid resting upon the cabinet top, and centrally located means for clamping said bottom and top members together.

6. A removable lid for an opening in the top of an ice cream cabinet and adapted to seat by gravity upon said top, comprising: a molded cupped bottom member, having a centrally located upward projection integral therewith, a molded top member, heat insulating material in the chamber formed between said bottom and top members, and a wood screw driven downwardly through said top member into the molded material of said projection for clamping said bottom and top members together.

7. A removable lid for an opening in the top of an ice cream cabinet and adapted to seat by gravity upon said top, comprising: a molded cupped bottom member, having a centrally located upward projection integral therewith, a molded top member, having a central hand knob molded integral therewith, heat insulating material in the chamber formed between said bottom and top members, a screw passing downwardly through said hand knob and into said projection for clamping said members together, said screw having its head countersunk into said knob, and sealing material covering said screw head.

8. In an ice cream container having an opening at its top surface, a removable lid seating by gravity upon said opening and comprising: a one-piece molded composition bottom cup having an interior chamber therein, a one-piece molded composition top member fixed to said bottom cup and having a peripheral margin overhanging said bottom cup, a peripheral sealing gasket partially interposed and clamped between said bottom cup and top member whereby to seal said interior chamber, and having a portion underlying said overhanging peripheral margin whereby to serve as a seating gasket for the lid when set upon said container opening.

9. In an ice cream container having an opening at its top surface, a removable lid seating by gravity upon said opening and comprising: a molded bituminous composition bottom cup having an interior chamber therein, heat insulating material filling said chamber, a molded bituminous top member fixed to said bottom cup and having a projecting marginal portion adapted to overlie the edges of said container opening, a peripheral sealing gasket having an inner portion interposed and clamped between said bottom cup and top member whereby to seal the joint therebetween, and also having an outer por-

tion underlying said marginal portion of said top member whereby to serve as a seating gasket for the lid when set upon said container opening.

10. In an ice cream container having an opening at its top surface, a removable lid seating by gravity upon said opening and comprising: a one-piece molded bituminous composition bottom cup, a one-piece molded bituminous composition top member having a hand knob integral therewith and fixed to said bottom cup and forming an interior chamber therebetween, heat insulating material filling said interior chamber, a seating gasket for said lid partially interposed between said molded members and thereby completely sealing said interior chamber against entrance of moisture therein.

In testimony whereof I hereto affix my signature.

HARVEY D. GEYER.