

Oct. 28, 1924.

C. U. NORCROSS

1,512,945

SHIPPING RECEPTACLE

Filed March 12, 1924

Fig. 1

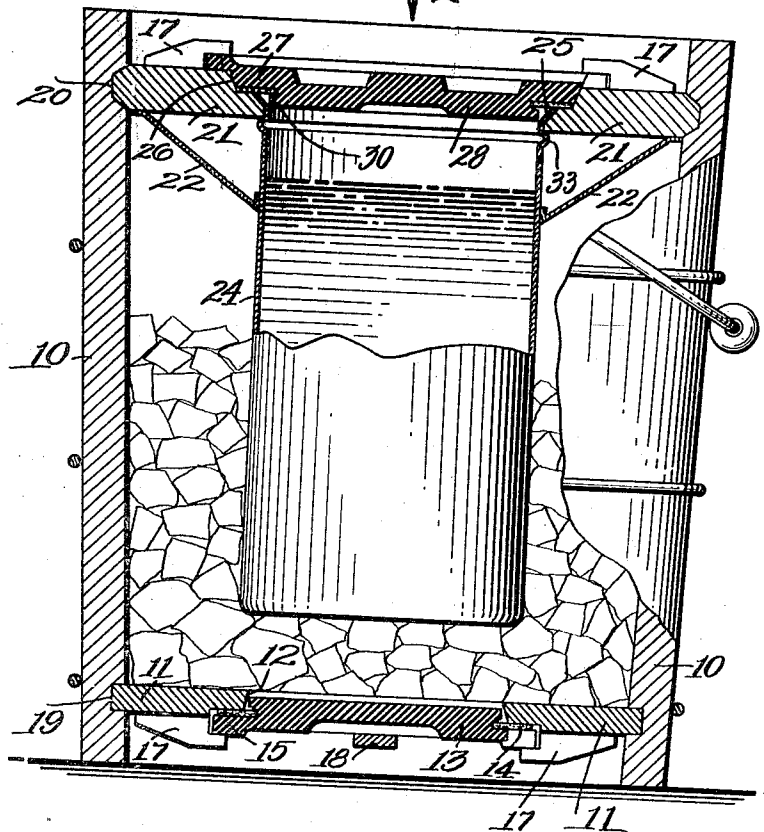
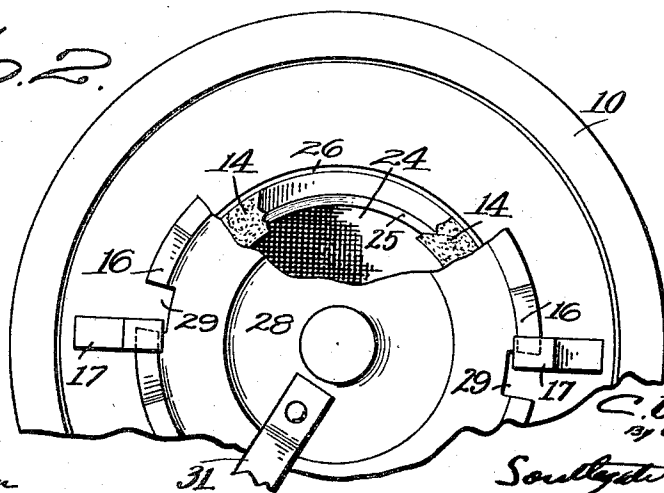


Fig. 2



Witness
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UNITED STATES PATENT OFFICE.

CRANDALL U. NORCROSS, OF WINCHENDON, MASSACHUSETTS.

SHIPPING RECEPTACLE.

Application filed March 12, 1924. Serial No. 698,764.

To all whom it may concern:

Be it known that I, CRANDALL U. NORCROSS, a citizen of the United States, residing at Winchendon, in the county of Worcester and State of Massachusetts, have invented a new and useful Shipping Receptacle, of which the following is a specification.

This invention relates to a shipping receptacle suitable for shipping articles of food that have to be chilled all the time, such as oysters, milk, and other foods. The principal objects of this invention are to provide a durable and strong receptacle that can be shipped long distances for receiving ice or a freezing mixture effectively insulated all around so as to reduce the entrance of heat; to provide it with means for holding a can for the food being shipped; and to provide an improved cover with means applied thereto to prevent leakage.

Reference is to be had to the accompanying drawings in which—

Fig. 1 is a central vertical sectional view of a shipping receptacle constructed in accordance with this invention; and

Fig. 2 is a plan of the same partly broken away to show interior construction.

I have shown the invention in a form in which it comprises a wooden shipping tub 10 having a thick wooden wall for effectively insulating the ice and also of course serving as a container for the whole device. Set into a circular recess 19 in the bottom of this wooden wall is set the edge of a flat annular metal or wooden bottom plate 11 having a circular opening 12 through the center. In this opening is a circular closure 13 substantially fitting it and provided with a rubber gasket 14 and lugs 15 arranged circumferentially on the bottom of the closure and having slanting bottom cam surfaces. Adjacent to these lugs are recesses through which permanent fixed lugs 17 on the bottom of the plate 11 are adapted to pass when the closure is put in place. The closure is then swung around so that the cam surfaces 16 on the lugs will press down against the tops of these lugs 17 and hold the closure firmly in place. A handle 18 for operating it extends diametrically across the bottom.

At or near the top of the tub 10 its inside surface is provided with a circular recess 20 extending all the way around it and in this is located the edge of a flat metal or wooden top plate 21. This plate like the

plate 11 is set into place in the recess in the tub during the manufacture of the latter. The plate 21 is provided with a sheet metal conical wall 22 extending down from its edge and slanting inwardly to provide a dead air space inside to prevent the passage of heat. The plate 21 is also provided with lugs 17 like those on the bottom of the device for the same purpose.

The plate 21 is centrally perforated and supports within this perforation a stationary ice-cream can 24. This can is bent outwardly at its top to form a conical surface 25 and has a circular rib 33 under the perforation to fix it in stationary position in the plate 21. The conical plate 22 can be permanently secured to it for that reason. Above the conical surface 25 there is a circular recess 26 in the plate 21 in which fits a circular flange 27 on the edge of the top closure 28. This top closure consists of a circular plate of metal having a pair of notches 29 located opposite each other for the passage of the lugs 17 on the plate 21. Adjacent to these notches are inclined surfaces 16 constituting cams for engaging under the lugs 17 and holding the closure down.

This closure is provided with a horizontal circular recess 30 in which fits a flat annular rubber packing ring 14 described in connection with the bottom closure. This rubber packing ring is not secured to the metal closure 28 but is stretched out and allowed to spring into the recess 30 which holds it in position so that its top and bottom surfaces are horizontal. It projects out to the end of the recess 26 and rests on the upper surface which constitutes the bottom of that recess. The closure also has a radially projecting handle 31 by which it can be manipulated to turn it as much as necessary to secure it and unlock it.

This provides a very substantial shipping receptacle, one in which the food can does not have to be turned or removed and, in fact, cannot be, and the ice is insulated from the entrance of heat by the wooden bucket and by the air space above the wall 22. The covers 13 and 28 both at the bottom and top are packed and leakage prevented by the rubber gaskets 14. The opening of the two covers is a very simple matter and they are very effectively closed against accidental opening.

This shipping tub is of very stable con-

struction, being made all of wood and the can 24 is permanently fixed in position and does not need to be taken out except for cleaning, repairs or replacement. It will retain the food in chilled condition a long time on account of the insulation all around.

Although I have illustrated and described only one form of the invention, I am aware of the fact that modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore I do not wish to be limited to all the details of construction herein shown and described but what I do claim is:—

1. As an article of manufacture, a shipping receptacle comprising a wooden tub having an annular top with an opening in the center, said top having a dead air space surrounding the opening for insulation, a

food can fixedly mounted in said opening and projecting therefrom down into the tub, a removable closure over the can supported by the annular top and having cam surfaces for holding it locked in position, and a bail for carrying the tub.

2. The combination with a shipping receptacle, of a closure thereof comprising a circular metal plate having an annular horizontal recess around it, the closure projecting beyond the inner edge of the recess at the center, and a flat annular rubber ring fitting in said recess and held in position thereby, the closure having a flat surface above the ring against which the ring is adapted to be pressed when the closure is clamped in position.

In testimony whereof I have hereunto affixed my signature.

CRANDALL U. NORCROSS.