Nov. 19, 1935. T. H. CLARK 2,021,683

BUCKET CLOSURE

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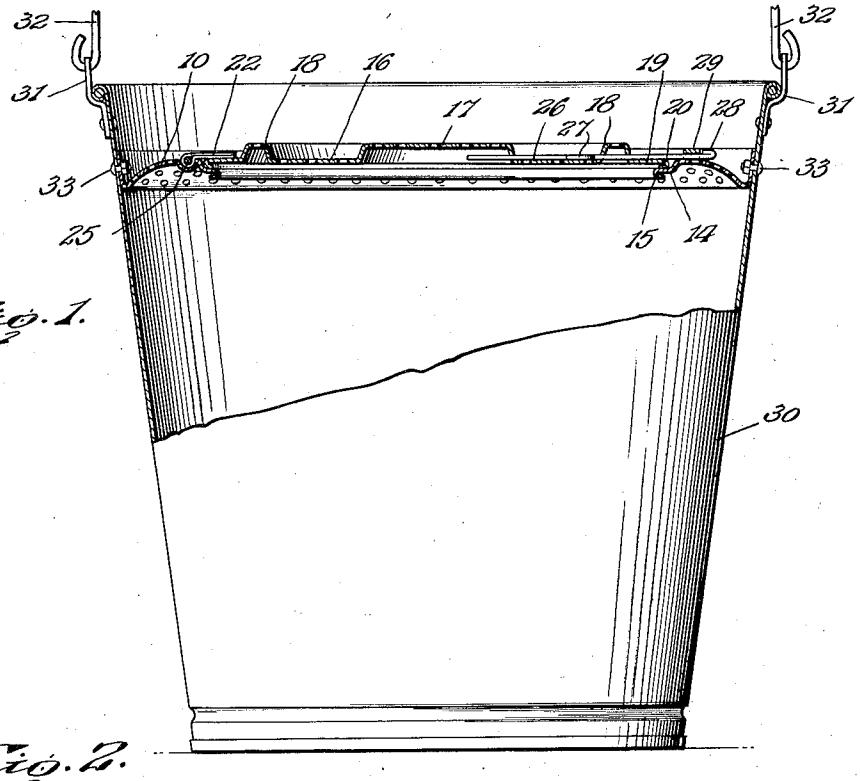
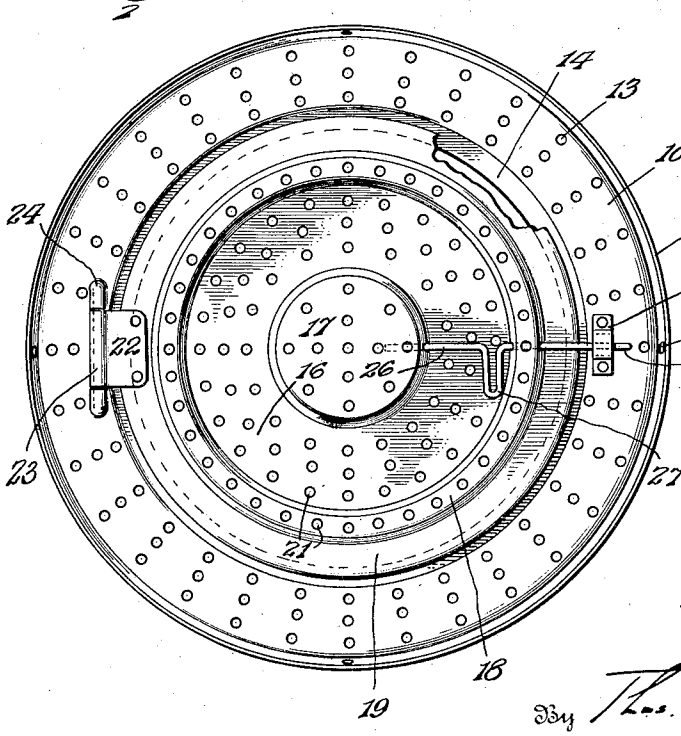


Fig. 1.

Fig. 2.



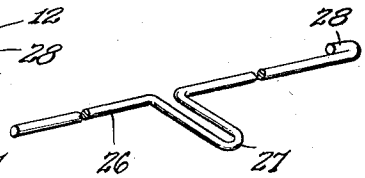


Fig. 3.

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BUCKET CLOSURE

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2 Claims. (Cl. 43—56)

This invention relates to an improved bucket closure and seeks, among other objects, to provide a device whereby an ordinary metal bucket may be readily converted into a bait bucket.

The invention seeks, as a further object, to provide a device which may be readily produced and sold as an independent article of manufacture and which may be conveniently installed in any ordinary tapered metal bucket.

A further object of the invention is to provide a device so formed that it may, within reasonable limits, be used in connection with buckets of different sizes.

And the invention seeks, as a still further object, to provide a novel latch for the lid of the device and wherein the latch will normally be locked against retraction so as to securely hold the lid closed.

Other and incidental objects of the invention not specifically mentioned in the foregoing will appear during the course of the following description.

Figure 1 is an elevation partly broken away and shown in section and illustrating my improved closure installed in a conventional metal bucket.

Figure 2 is a top plan view of the device, and

Figure 3 is a detail perspective view of the latch bolt.

Referring now more particularly to the drawing, I employ a preferably concavo-convex annular rim 10 which is preferably struck from suitable galvanized sheet metal and is provided at its outer periphery with an upturned annular flange 11 flared to inverted conical shape. Formed in said flange at equi-distantly spaced points are openings 12, preferably four in number and formed in the rim 10 are spaced radial rows of ventilating openings 13. At its inner margin the rim 10 is offset to provide a more or less flat annular imperforate lip 14 which, at its free edge is rolled downwardly and inwardly to form an annular bead 15 providing a smooth surface at the mouth of the rim.

Hinged to the rim 10 is a circular lid 16 which, like the rim, is also preferably struck from suitable galvanized sheet metal. Centrally, the lid is upstruck to provide a raised circular center portion 17 and surrounding said center portion in concentric relation thereto is an upstruck annular rib 18, both of these upstruck portions of the lid serving, of course, to reenforce and brace the lid. Outwardly of the rib 18, the lid is provided with a more or less flat annular flange 19 and, as shown in Figure 1, this flange is rolled downwardly and inwardly at its free margin to form a bead 20. This bead will, of course, provide a smooth surface at the periphery of the lid. It is now to be observed that the area of the lid encircled by the rib 18 is provided with a multiplicity of scattered ventilating openings 21.

Riveted or otherwise fixed to the flange 19 of the lid is a hinge plate 22 which is of double thickness to provide a hinge loop 23 and upstruck from the rim 10 are aligned sockets 24. Seated at its ends in said sockets is a hinge pin 25 which extends through the loop 23 of the hinge plate and swingingly connects the lid with the rim. As will be noted, the flange 19 of the lid is of a diameter to freely seat against the lip 14 of the rim, when the lid is closed.

Slidable radially on the lid 16 opposite the hinge plate 22 is a latch bolt 26. This latch bolt is preferably formed from a length of wire bent to provide front and rear aligned end portions connected by a lateral U-shaped loop 27 which provides a handle, while one end of the length of wire is bent over upon itself to form a stop 28 at the forward terminal of the latch bolt. As will be observed, the forward end portion of the latch bolt is slidable through aligned openings in the side walls of the rib 18 while the rear end portion of the latch bolt is slidable through an aligned opening in the side wall of the center portion 17 of the lid. The latch bolt is thus mounted for free longitudinal movement as well as free rotative movement and the handle 27 is disposed between the center portion 17 and rib 18 to coact therewith for limiting the latch bolt in its longitudinal movement in opposite directions.

Riveted or otherwise fixed to the rim 10 is an inverted U-shaped keeper 29 adapted to freely receive the forward end portion of the latch bolt 26 therethrough and attention is now directed to the fact that the stop 28 lies in a plane at a right angle to the handle 27. Accordingly, after the latch bolt has been projected through the keeper and the handle is swung downwardly to lie against the lid 16, the stop 28 will coincidentally be swung upwardly in front of the keeper 29 to coact therewith, as particularly seen in Figure 1, for locking the latch bolt against accidental retraction. Due to the length of the handle 27, said handle will, in fact, provide a weight tending to rotate the latch bolt to locked position so that said handle will not only serve to normally maintain the bolt locked but, after the latch bolt has been projected through the keeper and the handle is released, will serve to

automatically rotate the latch bolt to locked position.

In Figure 1 of the drawing, I have shown my improved closure installed in a conventional metal bucket 30. As will be observed, the bucket is tapered from top to bottom as is customary and is equipped with ears 31 to which is pivotally connected a handle 32. To install the closure, it is only necessary to place the rim 10 horizontally within the bucket and push downwardly on the rim until the flange 11 thereof wedges within the bucket. Openings are then provided in the wall of the bucket to register with the openings 12 in said flange when bolts 33 are installed through said openings for securing the closure in position. Thus, my improved closure provides a device whereby an ordinary bucket may readily be converted into a bait bucket and in this connection it is to be observed that the flange 11 is tilted to substantially conform to the inclination of the wall of the bucket so that said flange will fit said wall. When the closure is used in connection with a bucket having a diameter at the top smaller than the bucket shown, the closure will, of course, rest nearer the top of the bucket while, when the closure is used in connection with a larger bucket, the closure will rest further down within the bucket. I have accordingly provided a device adapted, within limits, for use in connection with buckets of different sizes.

Having thus described the invention, I claim:

1. A bucket closure including a rim, a lid hinged thereto and provided with a raised center portion as well as a raised rib surrounding said center portion, a keeper carried by the rim, and a rotatable latch bolt slidable through the side walls of said center portion and rib to project through the keeper and provided with a stop movable when the bolt is rotated to coact with the keeper for locking the bolt against retraction.

2. A closure for buckets including a rim, a lid hinged thereto and provided with a raised center portion as well as with a raised rib surrounding said center portion, a keeper carried by the rim, and a rotatable latch bolt slidable through the side walls of said center portion and rib to project through the keeper, said bolt being provided with a stop and with a laterally extending handle forming a weight tending to rotate the bolt and dispose said stop in a position to coact with the keeper for locking the bolt against retraction.

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