Dec. 14, 1926. 1,611,111

O. B. FRAZIER ET AL.

COMBINATION CAN OPENER AND SEALER

Filed July 12, 1926

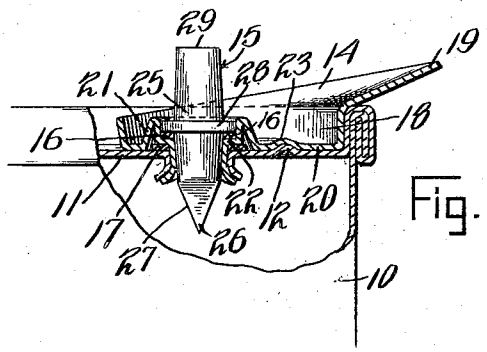


Fig. 1.

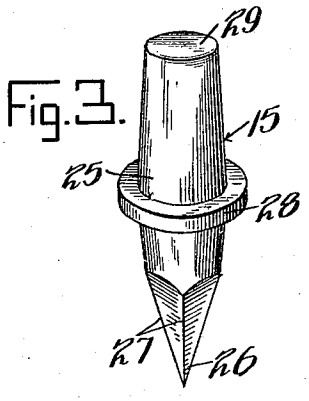
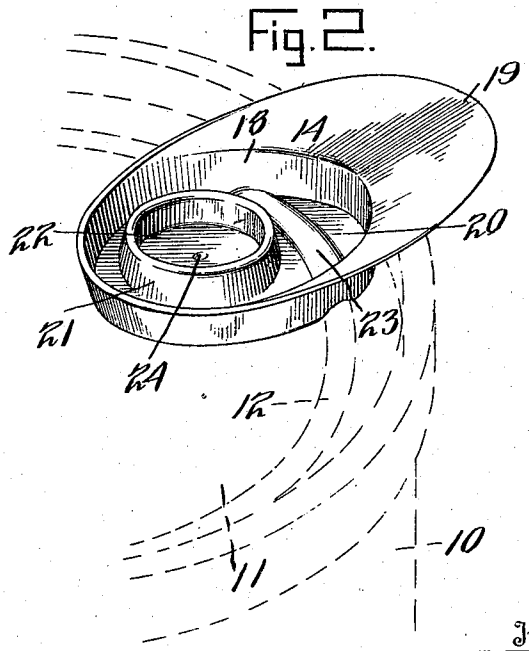


Fig. 3.

Fig. 2.



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UNITED STATES PATENT OFFICE.

CLIVER B. FRAZIER AND CLIFFORD G. HUGHES, OF ELWOOD, INDIANA.

COMBINATION CAN OPENER AND SEALER.

Application filed July 12, 1926. Serial No. 122,012.

Our said invention consists in an improved construction and arrangement of combined can openers and sealers, the same being a further development of the invention disclosed in Letters Patent No. 1,567,950, granted December 29, 1925 to Clifford G. Hughes, the improvements enabling the can to be more perfectly converted into a dispensing vessel, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts—

Figure 1 is a section of a portion of the top of milk can or other container with our invention applied thereto,

Figure 2 is a perspective view of the spout with a portion of the can shown in dotted lines, and

Figure 3 is a similar view of the perforating plug and stopper.

In the drawings, the numeral 10 denotes the can and 11 the top thereof which is provided with the usual beading or ridge 12. Our improvement consists of a spout 14, a perforating plug 15 and two gaskets or washers 16 and 17.

The spout 14 comprises a stamping of sheet metal having a cylindrical body portion 18 with an outwardly extending pouring lip 19 on one side. The bottom 20 of the body has formed therein a circular boss 21 the bottom 22 of which is a little higher than the bottom 20 of the body. An arcuate ridge 23 is formed in the bottom 20 between the boss 21 and the pouring lip 19 and conforms with and is designed to fit over the beading or ridge 12 on the can to prevent rotation or movement of the spout portion. In forming the spout 14 an indentation 24 is placed in the center of the bottom 22 to mark the spot where a plug should be driven in.

The plug 15 is composed of a non-corrosive metal and comprises a cylindrical body 25 with one end formed into a rectangular point 26 having sharp cutting edges 27 for a purpose to be more fully explained. An annular flange 28 is formed about midway the body while the upper end terminates in a flat face 29 to receive the impact of a hammer or other medium for driving it through the spout and can.

In applying the device to a can, the gasket 17 is placed on the can top 11 and the spout 14 is placed over the gasket with the ridge 23 over the ridge 12 and the gasket beneath the bottom 22. The gasket 16 is then placed inside the circular boss 21 and the point 26 of the plug is placed in the indentation 24 and driven through the bottom 22 and the top 11 of the can. In so doing, the edges 27 cut the portions 22 and 11 to form burrs which tend to bend away from the point 26 and clinch themselves together. The plug is driven far enough in to slightly compress the gasket 17 forming a tight seal, while the gasket 16 forms a seal for the plug. By withdrawing the plug 15 an opening into the can communicating with the spout is established enabling the contents of the can to be readily poured therefrom and directed by means of the spout, as will be readily understood, thus converting the can into a convenient dispenser for its contents and also providing for the perfect sealing of the can to protect and preserve its contents when not used for dispensing purposes.

It will be obvious to those skilled in the art that various changes may be made in our device without departing from the spirit of our invention and we therefore do not limit ourselves to what is shown in the drawings and described in the specification, but only as set forth in the appended claims.

Having thus fully described our said invention, what we claim as new and desire to secure by Letters Patent, is:

1. The combination of a can having a top, an annular ridge therein, a spout adapted to rest on said top and project over the edge thereof, a ridge formed in said spout conforming with said ridge on said top and a perforating plug adapted to be driven through said spout and the top of the can and clinch the two together, substantially as set forth.

2. The combination of a can having a top, of a spout adapted to rest on said top and project over the edge thereof, a circular boss on said spout, a depression in said boss, a gasket between said depression and said can top, a gasket within said depression and a perforating plug adapted to pierce said depression and can top to clinch the two together and then be removable to form a stopper for said can, substantially as set forth.

3. A combined can opener and sealer comprising a spout having an outwardly extending pouring lip on one side of a size to pro-

ject over the edge of a can, a boss on said spout and a perforating plug adapted to be driven through the spout and the top of a can for clinching the two together said plug being of a size to fit snugly within the said boss, substantially as set forth.

4. The combination with a can top of a spout adapted to rest on said top and project over the edge thereof, and a perforating plug adapted to be driven through said spout and can top for clinching the two together said spout being provided with an upstanding boss snugly conforming to the periphery of the perforating plug and having an annular recess on its underside to house a packing for forming a tight joint between the spout and the can, substantially as set forth.

5. The combination with a can top of a spout adapted to rest on said top and project over the edge thereof, and a perforating plug adapted to be driven through said spout and can top for clinching the two together and forming a closure for said perforation said spout being provided with an upstanding boss snugly conforming to the periphery of the perforating plug, said upstanding boss having recesses to house a gasket at each side of the spout for sealing the closure between the spout and the can and between the plug and the spout, substantially as set forth.

In witness whereof, we have hereunto set our hands and seals at Elwood, Indiana this 9th day of June, A. D. nineteen hundred and twenty-six.

OLIVER B. FRAZIER. [L. S.]
CLIFFORD G. HUGHES. [L. S.]