

J. H. WRAY.
 COMBINED CAN OPENER AND SEALER.
 APPLICATION FILED MAY 10, 1915.

1,212,431.

Patented Jan. 16, 1917.

Fig. 1.

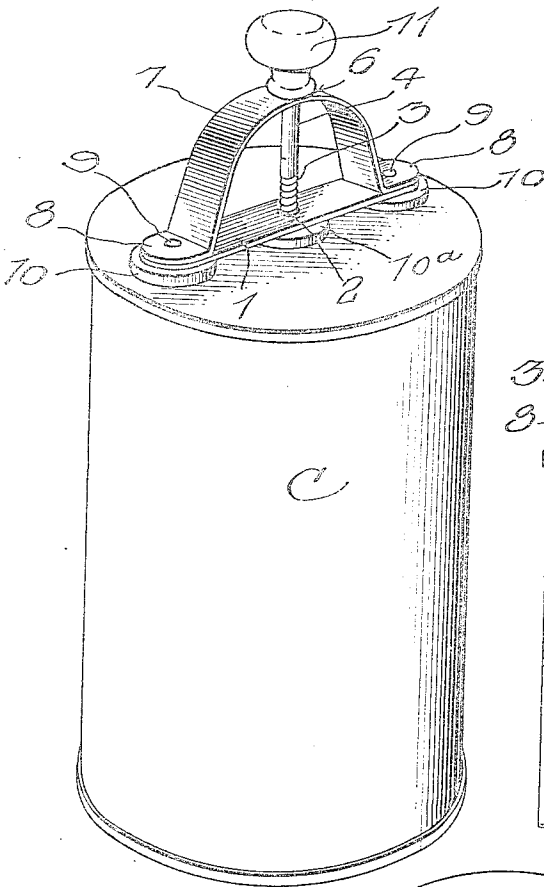


Fig. 2.

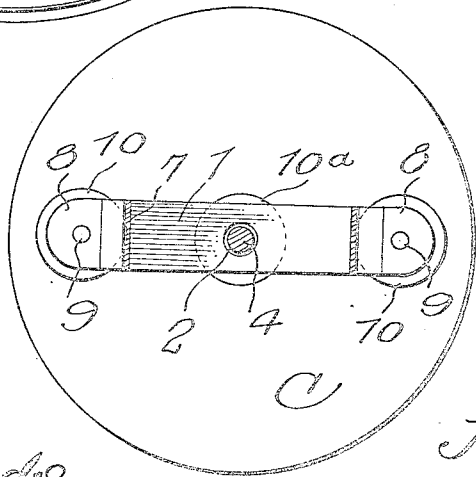
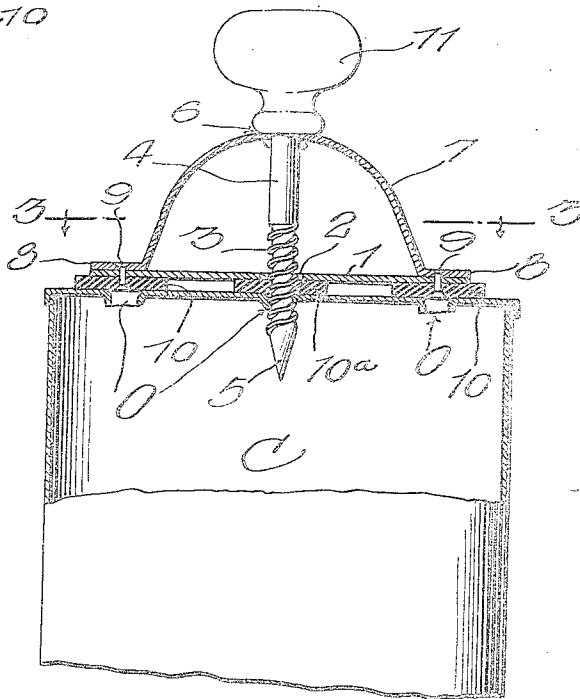


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOSEPH H. WRAY, OF SALT LAKE CITY, UTAH.

COMBINED CAN OPENER AND SEALER.

1,212,431.

Specification of Letters Patent.

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Application filed May 10, 1915. Serial No. 27,186.

To all whom it may concern:

Be it known that I, JOSEPH H. WRAY, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Combined Can Openers and Sealers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in devices designed more particularly for punching openings in the tops of condensed milk cans and the like to allow the contents thereof to be discharged and for sealing said openings when desired, the object of the invention being to provide a device of this class which may be simply and inexpensively manufactured and marketed, yet will be very efficient in operation and will possess a number of advantageous features.

With this general object in view, the invention resides in certain novel features of construction and in combinations of parts hereinafter described and particularly pointed out in the appended claim, one embodiment of the invention being illustrated in the accompanying drawing wherein like reference characters designate corresponding parts throughout the several views and wherein:—

Figure 1 is a perspective view of the invention showing its application to use; Fig. 2 is a vertical longitudinal section of the device and a portion of the can to which it is applied; and Fig. 3 is a horizontal section as seen along the plane designated by the line 3—3 of Fig. 2.

In this drawing, constituting a part of the application, the numeral 1 designates a horizontally disposed bar preferably having its opposite ends rounded as clearly shown in Fig. 1; while its center is provided with an opening 2 receiving therein the threaded portion 3 of an upright attaching screw 4, the lower end of this screw being pointed as shown at 5, while the upper end thereof is swiveled as at 6 in the center of an arched bar 7 which is disposed above the horizontal bar 2 and provided on its ends with out-turned feet 8 riveted or otherwise secured to the ends of said bar 1. The rivets 9 or other fasteners employed for securing the feet 8 to the ends of the bar 1, are passed not only through these parts but through

stopper members 10 disposed beneath the ends of said bar 1, these members being here shown in the form of circular gaskets.

It is to be observed that the upright attaching screw 4 is provided on its upper end with a knob 11 whose lower end constitutes a shoulder overlying the arched bar 7, whereby when the threads 3 are engaged with a portion of a container C, the screw may be rotated by its knob, thus forcing the arms of the arched bar 7 toward said container and thereby so moving the stoppers or gaskets 10. It will thus be seen, that it is highly advantageous to position these stoppers or gaskets directly beneath the ends of the arched bar. It is likewise essential to provide the horizontal bar 1 connecting the lower ends of the arched bar 7 and preventing the same from spreading when the screw is tightened.

In applying the invention to use, the pointed lower end 5 of the screw 4 is forced at three points through the top of the container C, thus providing a trio of openings O, one being preferably disposed at the center of the container top, while the others are spaced equi-distantly from this central opening. The screw 4 is now threaded into the central opening O as shown in Fig. 2 whereupon, when the stoppers 10 are disposed over the outermost openings O, these openings may be closed by continued rotation of the screw, it being evident that such movement forces the two stoppers into binding contact with the top of the container. When, however, it is necessary to remove the contents of the container, the screw 4 is loosened and the bars 1 and 7 are turned as a single member to expose the outermost openings, one of the latter now acting as an air vent while the other serves to discharge the contents of the container when the latter is tilted. When the proper amount of fluid is removed, the invention may be applied to use, thus again effectively closing the outermost openings O.

Although the same is not absolutely essential to the correct working of the invention, an additional gasket 10^a preferably surrounds the threaded portion 3 of the screw 4 directly beneath the horizontal bar, thus preventing the escape of any of the contents of the can through the central opening O.

From the foregoing description, taken in connection with the accompanying drawing,

it will be evident that although very simple construction has been provided for carrying out the object of the invention, the complete article will be very efficient in operation and will possess a number of advantageous features.

I claim:—

10 A closure of the class described comprising an arched bar, a horizontal bar connecting the ends thereof, a pair of stoppers carried by the ends of said horizontal bars, and

an attaching screw disposed between the arms of the arched bar, swiveled to said bar, and projecting loosely through the horizontal bar.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH H. WRAY.

Witnesses:

RUBEN BUMA,
WM. VORKINK.