

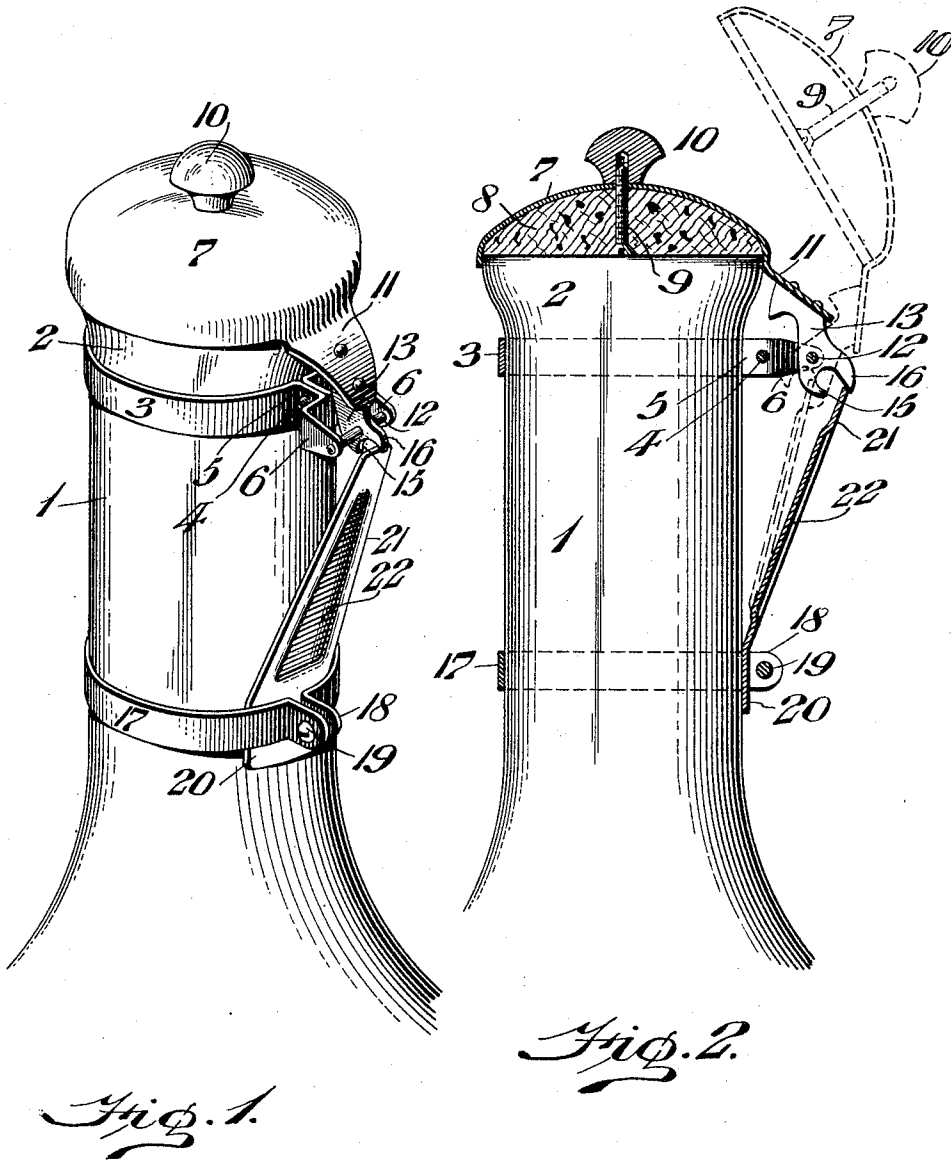
G. P. WILD.

CLOSURE.

APPLICATION FILED JUNE 24, 1913.

1,105,229.

Patented July 28, 1914.



WITNESSES

H. E. Dieterich
P. F. Nagle

BY

INVENTOR
Günther Philip Wild
Wiedersheim & Fairbanks
ATTORNEYS

UNITED STATES PATENT OFFICE.

GÜNTHER PHILIP WILD, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE CALORIS COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

CLOSURE.

1,105,229.

Specification of Letters Patent.

Patented July 28, 1914.

Application filed June 24, 1913. Serial No. 775,458.

To all whom it may concern:

Be it known that I, GÜNTHER PHILIP WILD, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Closure, of which the following is a specification.

My invention consists of a closure for bottles or similar vessels, and more especially for bottles in which the contents are retained at an equal temperature for a comparatively long space of time, such as the so-called Caloris bottles.

It further consists of such a closure pivotally supported at the mouth of the bottle to close the same and provided with means for automatically opening it when the neck of the bottle is grasped to pour out its contents.

It further consists of such a closure which will automatically close when the actuating pressure is relieved.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

The annexed drawings and the following description set forth in detail one mechanical form embodying the invention, such detail construction being but one or various mechanical forms in which the principle of the invention may be used.

In said annexed drawings—Figure 1 represents a perspective view of the neck of a bottle provided with my improved closure. Fig. 2 represents a side-elevation of a bottle-neck with the closure and its supporting and actuating mechanism shown in section.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, the reference numeral 1 indicates the neck of the bottle, having a swell or head, 2, around its mouth. A band, 3, of metal is clamped around the neck of the bottle by a pin or screw, 4, passing through the outwardly-bent ends, 5, of the band, which ends are then bent laterally and again outwardly to have their extremities form ears, 6. The closure, proper, consists of a domed shell, 7, in which is fitted a filler, 8, of cork or similar yielding material. A headed screw, 9, passes through the center of the filler and shell, and has a nut, 10, upon its upper end, to bear against the shell, and said screw and nut serve to draw the filler into the shell

and retain it there. A lip, 11, extends from the edge of the shell, and has an arm, 12, projecting from its under side. Said arm has a pin, 13, secured transversely through it, which pin is pivoted in the ears 6 to form a pintle for the closure. The outer end of the arm is forked to form an inner curved finger, 15, and an outer finger, 16, having a straight inner edge.

A band, 17, of metal is clamped around the neck of the bottle, below the above-described band, and has ears, 18, at its ends, through which a pin or screw, 19, passes to draw said ears together. The lower and preferably broader end, 20, of a spring-arm, 21, is clamped between this band and the bottle-neck, and said arm projects upward and outward to have its upper end engage between the fingers of the forked arm and to have said end bear against the end of the outer finger. The spring-arm is preferably formed with a reinforcing rib, 22.

When the closure is properly adjusted upon the bottle-neck, the end of the spring-arm, bearing against the outer finger, will prevent the closure from swinging open. When inward pressure, such as the pressure of the hand in grasping the neck of the bottle, is exerted upon the spring-arm, the upper end of the same engages the inner finger of the forked arm, and the closure will be tilted upward to admit of the contents of the bottle being poured, and release of pressure upon the spring-arm will cause the same to spring outward with its end bearing against the outer finger of the forked arm and closing the closure.

While this device is primarily intended for bottles or decanters of the Caloris type, it is evident that it may be applied to any bottle or decanter or similar vessel. The device is attachable to and detachable from the bottle or whatever container it may be, and can be applied, with suitable adjustments, to any vessel having a pouring mouth and either a neck or a body to which the spring-arm may be attached. By the use of this closure, the latter will open by the mere act of grasping the bottle in the ordinary act of pouring and will automatically close when the grasp is released.

Other modes of applying the principle of my invention may be employed for the mode herein explained. Change may therefore be made as regards the mechanism thus

disclosed, provided the principles of construction set forth respectively in the following claims are employed.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a device of the character stated, a closure adapted to be hinged to swing over the mouth of a bottle or similar container, and an inherently resilient arm adapted to be directly supported upon such bottle or container and movably and detachably connected to said closure to tilt the same open when pressed toward the container.

2. In a device of the character stated, a closure adapted to be hinged to swing over the mouth of a bottle or similar container, engaging members carried by said closure, and an inherently resilient arm adapted to be supported upon such bottle or container and movable with respect to said members to engage one thereof to tilt said closure open when pressed toward said bottle and automatically engaging the other member to return said closure to closed position.

3. In a device of the character stated, a closure adapted to be hinged to swing over the mouth of a bottle or similar container, an arm having a forked end and connected to said closure, a spring-arm having means for attaching it to said bottle or container to be actuated when the latter is grasped and having its end engaging said forked

end to open the closure when actuated and return it to closed position when released.

4. In a device of the character stated, a band adapted to be clamped around the neck of a bottle or similar container and having a pair of ears, a closure adapted to close the mouth of said bottle or container, an arm connected to said closure and pivotally supported between said ears and formed with a forked end, a band adapted to be clamped around the bottle or container, and a spring-arm movably secured by said band and having its free end engaging the forked end of said arm.

5. In a device of the character stated, a band adapted to be clamped around the neck of a bottle or similar container and having a pair of ears, a closure adapted to close the mouth of such bottle or container and having a lip, an arm upon said lip and having a forked end and a pintle pivoted in said ears, a band adapted to be clamped around the bottle or container, and a spring-arm having one end clamped by said band and having its free end outwardly springing and engaging the end of the forked arm to normally close said closure and to tilt the same open when moved toward the bottle or container.

GÜNTHER PHILIP WILD.

Witnesses:

WM. TECHER,
C. D. McVAY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."