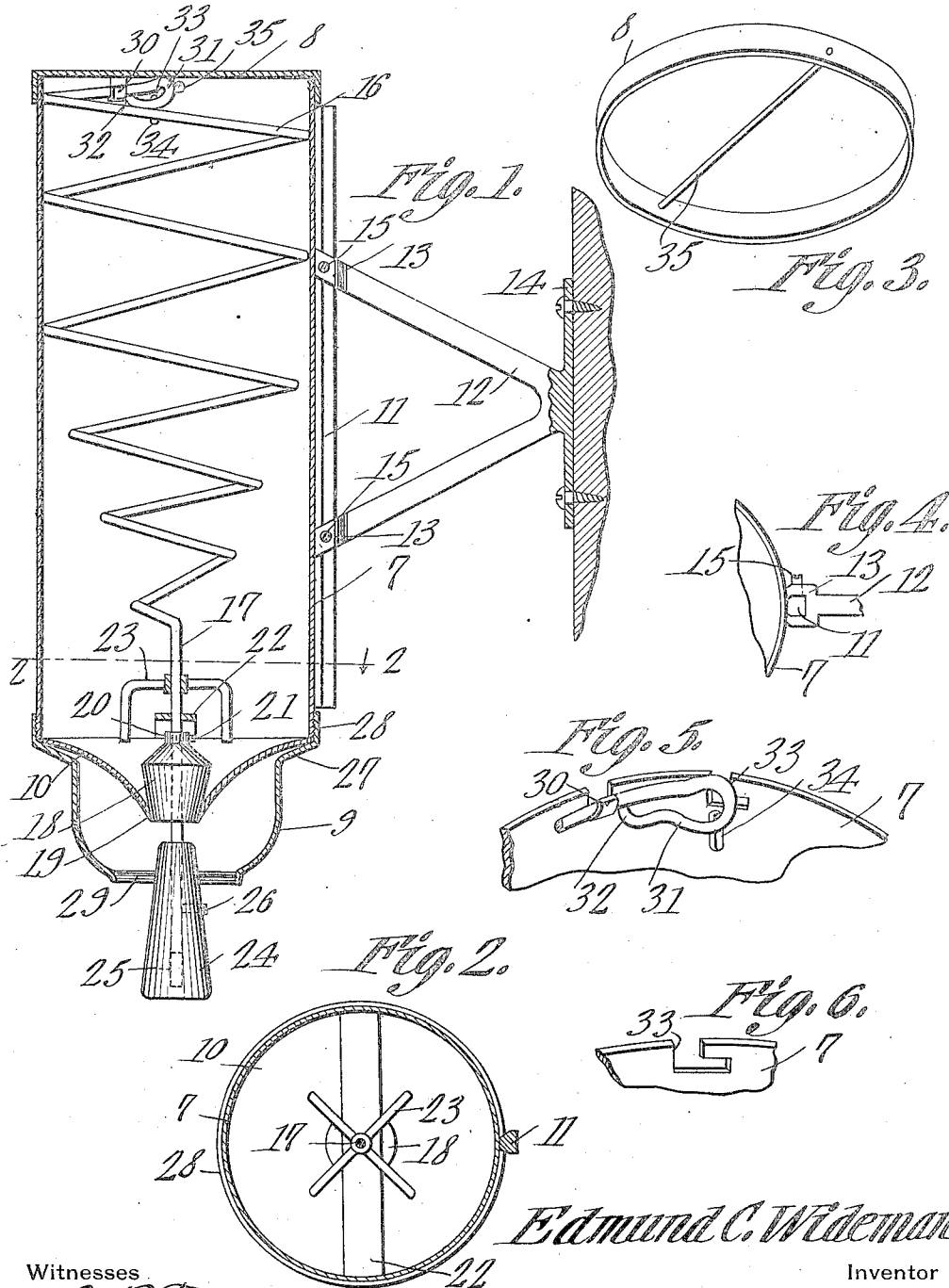


E. C. WIDEMAN.
POWDERED SOAP DISPENSER.
APPLICATION FILED JAN. 18, 1913.

1,089,097.

Patented Mar. 3, 1914.



Edmund C. Wideman

Inventor

Witnesses

J. P. Foulis
Monroe F. Miller

by

C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

EDMUND C. WIDEMAN, OF WILKES-BARRE, PENNSYLVANIA.

POWDERED-SOAP DISPENSER.

1,080,097.

Specification of Letters Patent.

Patented Mar. 3, 1914.

Application filed January 18, 1913. Serial No. 742,927.

To all whom it may concern:

Be it known that I, EDMUND C. WIDEMAN, a citizen of the United States, residing at Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented a new and useful Powdered-Soap Dispenser, of which the following is a specification.

The present invention appertains to dispensers, particularly those for dispensing powdered soap and the like.

One of the objects of the present invention is to provide a casing or container having novel dispensing means at its lower end.

Another object of the present invention is to provide a cap or cover for the casing, and novel means for locking the cap in position.

A further object of the present invention is to provide a coil within the casing for operating the closure for the dispensing means and also locking the cap or cover in position.

As a further object, the present invention aims to provide a novel and improved means for supporting the casing from a wall or other upright and in an adjustable manner.

It is also within the scope of the invention to provide a structure of the character indicated which shall be of utmost simplicity and compactness, and of small cost and which shall also be convenient, serviceable and efficient in its use, the present invention aiming to improve generally the construction and utility of devices of that character to which the present invention relates.

With the foregoing general objects outlined, and other objects in view, the present invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention has been illustrated in its preferred embodiment in the accompanying drawing, wherein:—

Figure 1 is a vertical section of the dispenser, constructed in accordance with the present invention. Fig. 2 is a sectional view thereof, taken on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of the cap or cover. Fig. 4 is a fragmental detail in plan. Fig. 5 is an enlarged fragmental detail in

perspective of the means for locking the cap in position. Fig. 6 is a fragmental perspective of the casing.

Referring specifically to the drawings, the casing or container for the powder or other pulverized commodity has been designated by the numeral 7, the same being preferably fashioned from tubular stock, or being cylindrical in contour. This casing is provided with a cap or cover 8 for its upper end, and has a discharge spout or guard 9 secured to its lower end, an inverted conical bottom 10 for the casing having its periphery clamped between the lower end of the casing and spout.

The means for supporting the casing from a wall or other upright embodies a rail 11 secured longitudinally on one side or the back of the casing, and a bracket 12 adjustably engaging the rail 11 and attachable to the wall or upright. The rail 11 is slightly undercut or dovetailed, and the bracket 12 is V-shaped, the ends of the arms being provided with forks 13 engaging or straddling the rail 11 so that the rail 11 is constrained to slide longitudinally through the forks 13. The bracket 12 is provided with a base or back plate 14 at its crotch, which plate is adapted to be secured to the wall or upright by means of screws or other securing members, or in any other suitable manner. The forks 13 of the arms carry set screws 15 which are adapted to engage the rail 11 in order to lock the rail in any adjusted position. The bracket not only holds the casing firmly in a spaced position relative to the wall or upright, but permits the casing to be adjusted or slid longitudinally or vertically to the most desirable or effective position. It will also be noted that the rail 11 may only be disengaged from the bracket by sliding the rail longitudinally or endwise from the forks 13.

Within the casing there is disposed an inverted spiral coil 16, the same being fashioned from suitable resilient wire or other stock and having its larger end fitting snugly within the upper end of the casing and having its tip or smaller end extending axially downward, as denoted by the numeral 17. A tapered valve or closure 18 is adjustable on the axial portion 17 of the coil and is seatable within the opening 19 in the apex of the bottom 10, which is conical or funnel shaped. The upper end of the

valve 18 is contracted so as to provide a collar 20, a set screw 21 being engaged through the collar 20 to contact with the axial portion 17 of the coil so as to adjustably support the valve. A strip or bar of sheet metal 22 fits diametrically within the lower end of the casing, the same preferably having its ends downturned and seated against the bottom 10, which strip forms a guide for the axial portion 17 of the coil. The axial portion 17 passes through the guide 22, and the valve 18 is mounted on the portion 17 below the guide, while an agitator 23 is mounted on the axial portion 17 of the coil above the guide 22. This agitator consists of a plurality of arms projecting radially from the portion 17, and preferably bent downward, although the agitator may be otherwise constructed. A tapered actuating knob or head 24 is mounted on the lower end of the axial portion 17 of the coil, the knob 24 being tapered upwardly and having a socket or recess 25 in its upper end into which the lower end of the portion 17 fits. The knob 24 also carries a set screw 26 adapted to engage or contact with the portion 17. Thus, either or both the valve 18 and knob 24 may be adjusted upon the depending or axial portion 17 of the coil, the valve 18 normally closing the opening 19 at the bottom of the casing, and the upper end of the tapered knob 24 being adapted to enter the opening 19 when the knob is forced upward by the hand. In this manner, when the knob is forced upward, the same will enter the opening 19 and will control the discharge of the powdered soap, so that by adjusting the valve and knob, the soap may be dispensed in the most economical or efficient manner. The agitator 23 tends to prevent the soap from choking about the opening, and is operable with the valve 18 when the knob 24 is forced or lifted upward.

The spout or guard 9 has its lower end contracted and is provided at its upper end with a shoulder or seat 27 upon which the periphery of the bottom 10 rests or seats, the shoulder 27 having an upstanding peripheral flange 28 in screw threaded engagement with the lower end of the casing in order that the periphery of the bottom 10 is firmly held or seated against the lower end of the casing. The knob 24 depends loosely through the opening 29 at the lower end of the spout, so that the said knob may be raised or forced upward by the hand to open the closure and permit the soap to gravitate into the palm of the hand.

The upper end of the casing 7 is provided with an inturned ear or seat 30 for the upper end of the coil 16. The upper end of the coil 16 rests or fits within the ear or seat 30 and the free portion thereof is bent back downwardly into a loop 31, the inner end of

which forms a shoulder 32 resting against the seat or ear 30. The upper end of the casing is also provided with a pair of diametrically opposite bayonet slots 33, one of which is arranged adjacent the seat 30, so that the bight of the loop 31 extends over the tail of the adjoining bayonet slot. The casing is further provided with an opening or slot 34 below the respective bayonet slot and adjoining the lower arm of the loop 31, this opening or slot 34 permitting the insertion of a nail, wire or other implement for the purpose of depressing the loop or upper end of the spring. The cap or cover 8 is provided with a diametrical rod or wire 35 connecting opposite portions of its flange, the said rod 35 being adapted to enter the bayonet slots 33 when the cap is engaged on or over the upper end of the casing. The bight of the loop 31 is so disposed that when the rod 35 is engaged within the tail of the respective bayonet slot, the bight of the loop will first be depressed and will then spring in back of the rod 35 to lock the same within the tail of the bayonet slot and thereby prevent the cover or cap from being removed unless the loop or upper end of the coil is manually depressed by the insertion of a suitable implement into the slot or opening 34. By inserting a nail, wire or other suitable implement into the slot, 34 above the lower arm or portion of the loop 31, the loop or upper end of the coil may be depressed out of engagement with the rod 35, in which event, the cap or cover will be free to be removed. In this manner, the cap may be locked against malicious or casual removal, and only those possessing the requisite implement or knowledge of the operation necessary, can successfully remove the cap or cover. It will be noted that the end of the loop opposite the bight seats or rests against the ear or seat 30 so as to prevent the loop from being forced backwardly should the cap 8 be given a rotary tension. It will therefore be manifest that the cap is effectively locked in position on the casing, but may be readily removed in the manner above described.

Particular attention is directed to the fact that the coil 16 serves the dual function of holding the closure or valve 18 in position, and of locking the cap or cover in position, which provides a desirable and meritorious feature.

The use of the present dispenser and the advantages thereof will be manifest from what has been said above, and it will be noted that the objects aimed at have been carried out satisfactorily.

What is claimed is:—

1. In a dispenser, a casing having a dispensing opening at its lower end, a closure for the opening, a coil in the casing for yieldingly holding the closure in position, a

cover engageable on the upper end of the casing, the upper end of the coil serving to lock the cover against retrograde movement, and the casing having an opening adjoining the upper end of the coil for the insertion of an implement to release the upper end of the coil from the cover.

2. In a dispenser, a casing having a dispensing opening at its lower end, a closure for the opening, a coil in the casing for yieldingly holding the closure in position, a cover engageable on the upper end of the casing, the casing having a slot in its upper end, the cover having a member to enter the slot, and the upper end of the coil serving to lock the said member against retrograde movement, and the casing having an opening adjoining the upper end of the coil for the insertion of an implement to release the upper end of the coil from the said member.

3. In a dispenser, a casing having a bayonet slot, a cap for the casing having a member to enter the slot, a coil in the casing, the casing having a seat for the upper end of the coil adjoining the bayonet slot and the upper end of the coil being bent back downwardly into a loop, the bight of the loop projecting over the tail of the bayonet slot and the other end of the loop resting against the seat.

4. In a dispenser, a casing having a bayonet slot, a cap for the casing having a member to enter the slot, a coil in the casing, the casing having a seat for the upper end of the coil adjoining the bayonet slot and the upper end of the coil being bent back downwardly into a loop, the bight of the loop projecting over the tail of the bayonet slot and the other end of the loop resting against the seat, the casing having a slot adjoining the lower arm of the loop for the insertion of an implement to depress the loop.

5. In a dispenser, a casing having a dispensing opening at its lower end, a closure for the opening, a cover engageable on the upper end of the casing, and a coil disposed in the casing, a coil having its lower end connected to the said closure for yieldingly holding the same within the dispensing opening, the casing having means for holding the upper end of the coil, the upper end of the coil and cover having cooperating means for normally maintaining the cover in position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EDMUND C. WIDEMAN.

Witnesses:

GEORGE KESSLER,
JOS. C. LANG.