

Oct. 8, 1929.

R. W. WILSON

1,730,870

SHAKER CAP

Filed May 15, 1925

Fig. 1.

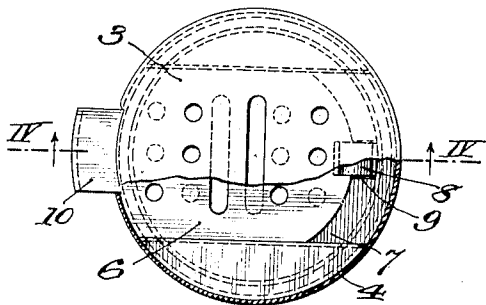


Fig. 4.

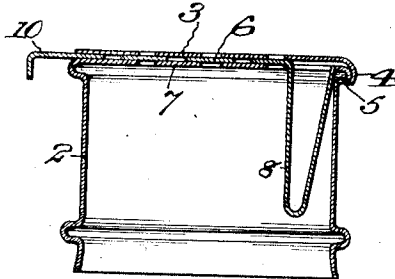


Fig. 2.

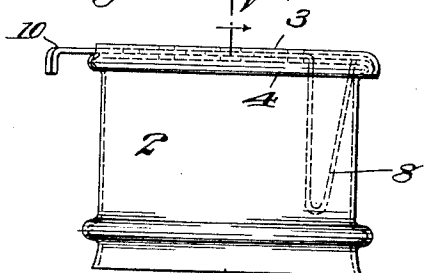


Fig. 5.

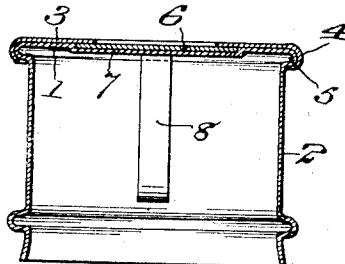


Fig. 3.

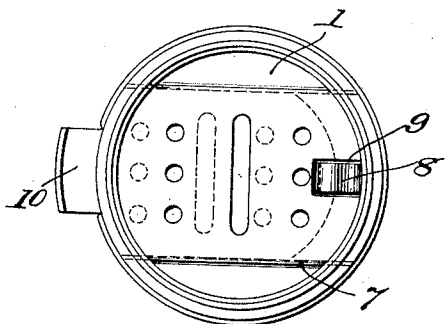
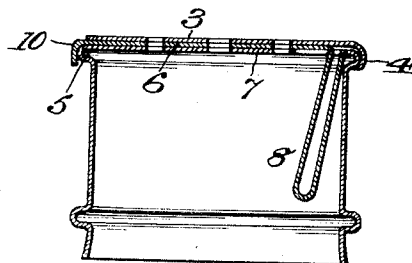


Fig. 6.



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SHAKER CAP

Application filed May 15, 1925. Serial No. 30,595.

The object of my invention is to provide a novel shaker cap which will be very simple in construction, inexpensive to manufacture, attractive in appearance, easy to manipulate and powder-tight.

A further object is to provide a shaker cap in which a shutter member is located between inner and outer perforated members and movable to open and close the perforations in the inner and outer members, the intermediate shutter member being provided with an integral spring located inside of the cap for yieldingly holding the shutter member closed, and with integral means projecting outside of the cap for moving the shutter member to its open position against the tension of said spring.

A practical embodiment of my invention is represented in the accompanying drawings, in which

Fig. 1 represents the shaker cap in top plan, a portion of the outer perforated member being broken away to more clearly illustrate the parts beneath the same.

Fig. 2 represents the shaker cap in side elevation.

Fig. 3 represents a bottom plan view of the cap.

Fig. 4 represents a vertical central section taken in the plane of the line IV—IV of Fig. 1, looking in the direction of the arrows.

Fig. 5 represents a vertical central section taken in the plane of the line V—V of Fig. 2, looking in the direction of the arrows.

Fig. 6 represents a vertical central section similar to Fig. 4, with the shutter member shown moved to its open position.

The inner perforated member of the shaker cap is denoted by 1 and it has a flange 2 which is adapted to be attached to a suitable container, not shown herein.

The outer perforated member of the shaker cap is denoted by 3 and it has a flange 4 which is bent over a peripheral bead 5 of the inner member for permanently attaching the outer member thereto.

A perforated shutter member 6 is located between the said inner and outer members within a depression 7 in the inner member.

These three members are made of thin sheet

material, capable of being formed into the required shapes.

The intermediate shutter member 6 is slidable in the depression 7 of the inner member and the shutter member is provided inside of the cap with an integral tongue 8 which is bent downwardly through a slot 9 in the depression 7 of the inner member and then upwardly to form an elongated spring, the free end of which bears against the flange 2 of the inner member for yieldingly holding the shutter member in its closed position.

The intermediate shutter member is also provided with an integral tongue 10 which projects outwardly through the flange 4 of the outer member to form a finger piece outside of the cap, which may be used for moving the intermediate shutter member to its open position against the tension of its integral spring.

From the above description it will be seen that I have provided a very simple construction which will be powder-tight and in which the shutter member is guided between inner and outer members, the shutter member having an integral spring for yieldingly holding it in its closed position and an integral means for moving the shutter to its open position.

It is evident that various changes may be resorted to in the construction, form and arrangement of the several parts without departing from the spirit and scope of my invention; hence, I do not intend to be limited to the particular embodiment herein shown and described, but what I claim is:—

1. A shaker cap comprising inner, outer and intermediate perforated members, the inner perforated member having a peripheral bead and a depressed portion extending across its top, within which depressed portion the intermediate member may be reciprocated, a slot in said depressed portion, the intermediate member being guided by the side walls of said depressed portion, the outer member having a peripheral flange bent over the bead of the inner member to secure the outer member thereto, said flange having a slot therethrough in alinement with the said depressed portion, spring means connected to said intermediate mem-

- ber through the slot in the inner member and bearing against the inner member for yieldingly holding the intermediate member in its closed position, said intermediate member being provided with a tongue projecting outwardly through said slot in the flange of the outer member and forming a finger piece for moving the intermediate member to its open position. 70
- 5 In testimony, that I claim the foregoing as my invention, I have signed my name this 12th day of May, 1925.
- RALPH W. WILSON. 75
- 10 2. A shaker cap comprising inner, outer and intermediate perforated members, the inner perforated member having a peripheral bead and a depressed portion extending across its top, within which depressed portion the intermediate member may be reciprocated, the intermediate member being guided by the side walls of said depressed portion, a slot in said depressed portion, the outer member having a peripheral flange bent over the bead of the inner member to secure the outer member thereto, said flange having a slot therethrough in alinement with the said depressed portion, said intermediate member being provided with a resilient integral tongue bent downwardly through said slot in the inner member and then upwardly to form an elongated spring, the free end of which bears against the inner member for yieldingly holding the intermediate member in its closed position, said intermediate member also having an integral tongue projecting outwardly through said slot in the flange of the outer member and forming a finger piece for moving the intermediate member to its open position. 80
- 15 3. A shaker cap comprising assembled inner, outer and intermediate perforated members, the top of the inner member having a depressed portion, within which the intermediate member is slidably located and guided, the top of the said inner member having a slot and said intermediate member being provided at one end with a finger piece extending through the wall of the outer member for moving the intermediate member to its open position, and a spring connected to said intermediate member through said slot in the inner member, said spring bearing against the inner member to yieldingly hold the intermediate member in its closed position. 85
- 20 4. A container closure of the class described comprising assembled body and cap members provided with discharge perforations in their tops, the top of the body member having a recess in its upper side, a cut-off member comprising a plate slidably disposed within the recess and having perforations therein and provided at one end with a finger piece extending through the wall of the cap member, the top of the body member having an opening therein, and the said cut-off member having a portion extending downwardly through the opening, and resilient means carried by the said portion of 90
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