R. W. WILSON.

SHAKER TOP OR CAP.

APPLICATION FILED MAY 8, 1920.

1,386,043. Patented Aug. 2, 1921.

Fig. 2

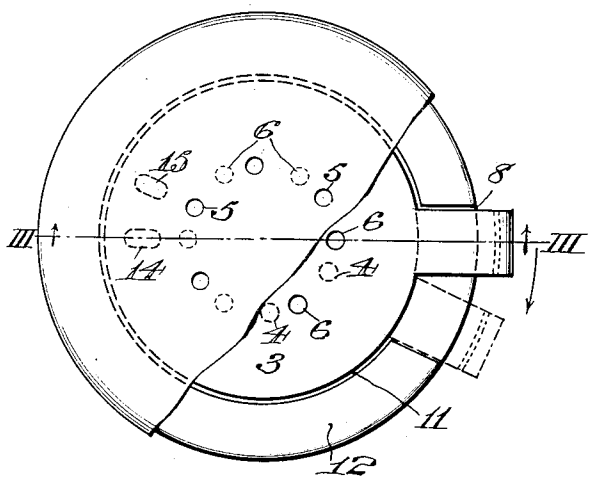


Fig. 1.

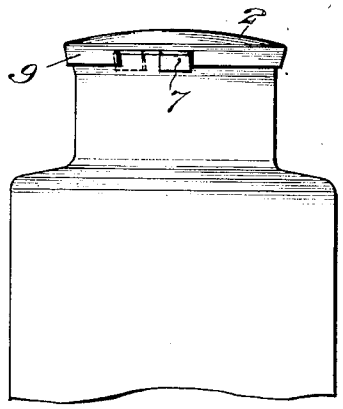


Fig. 3.

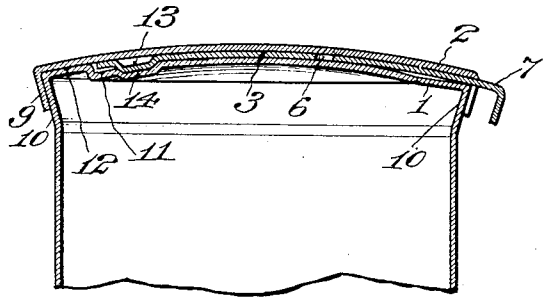
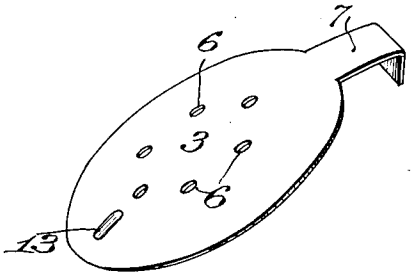


Fig. 4.



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UNITED STATES PATENT OFFICE.

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SHAKER TOP OR CAP.

1,386,043. Specification of Letters Patent. **Patented Aug. 2, 1921.**

Application filed May 8, 1920. Serial No. 379,857.

To all whom it may concern:

Be it known that I, RALPH W. WILSON, a citizen of the United States, and resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Shaker Tops or Caps, (Case I,) of which the following is a specification.

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

A further object is to provide a shaker top or cap in which the shutter member is held frictionally between the inner and outer perforated top or cap members and movable to open and close the perforations in said inner and outer members, the location of the shutter member giving a much neater appearance to the receptacle to which the top or cap is applied and also protecting the shutter member from injury and from exposure to dust and dirt.

A further object is to provide a shutter member which is held in position by friction, thereby eliminating the necessity and expense of riveting it to the top or cap or of providing a separate spring.

A still further object is to provide certain improvements in the construction, form and arrangement of the several parts whereby the device is materially simplified and rendered more effective for the purposes intended.

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

Figure 1 represents in side elevation a portion of a receptacle with my invention applied thereto.

Fig. 2 represents a top plan view of the top or cap on an enlarged scale, a portion of the outer top or cap member being broken away, the shutter member being shown in full lines in its opened position and in dotted lines in its closed position.

Fig. 3 represents a section taken in the plane of the line III—III of Fig. 2.

Fig. 4 represents a perspective view of the shutter member of the top or cap.

The top or cap may be made of sheet metal or other suitable material capable of being formed into the required shape. This top or cap comprises the inner perforated top or cap member 1, the outer perforated top or cap member 2, and the interposed shutter member 3, which shutter member is held by friction between the said inner and outer top or cap members.

The perforations 4 in the inner top or cap member 1 are always in alinement with the perforations 5 in the outer top or cap member 2. The interposed shutter member 3 is provided with perforations 6, which are arranged to be bought into and out of alinement with the perforations 4 and 5 as the shutter member is moved to its opened and closed positions.

This shutter member 3 is herein shown as rotatable to a limited extent, the means for turning the shutter member back and forth between its opened and closed positions being shown as a finger piece 7 which projects through a slot 8 in the side wall 9 of the outer top or cap member 2. This side wall 9 of the outer top or cap member 2 overlaps and is firmly secured to the side wall 10 of the inner top or cap member 1. The inner top or cap member 1 is provided with a circular depressed portion 11 for receiving the shutter member 3, the raised peripheral portion 12 of said inner top or cap member snugly engaging the inner face of the outer top or cap member 2, except at the point where the slot 8 is provided in the side wall 9 of the outer top or cap member. Here the raised peripheral portion 12 is omitted for a sufficient distance to permit the swinging back and forth of the finger piece 7 of the shutter member to turn the shutter member into its opened and closed positions. This feature makes a powder tight connection between the parts, which is of great importance.

The means which I have shown for yieldingly holding the shutter member in its opened and closed positions is a follows:

The shutter member 3 is provided with a downwardly extended projection 13 which is caused to snap into one of the two depressions 14 or 15, struck into the face of the inner top or cap member 1 as the shut-

ter member is turned to its opened or closed position. The inner top or cap member is sufficiently yielding to permit the passage of this projection 13 across the face of the inner top or cap member 1 from one of the depressions 14 to the other depression 15.

It is obvious that various changes may be resorted to in the construction, form and arrangement of the several parts of my top or cap without departing from the spirit and scope of my invention; hence I do not wish to limit myself to the particular embodiment herein shown and described, but

What I claim is:—

1. A shaker top or cap comprising inner and outer perforated members and an intermediate rotatable perforated shutter member, all composed of thin sheet material, the inner member having a raised peripheral portion engaging the outer member and a depressed central portion forming a seat for the rotatable shutter member, the inner member pressing the shutter member against the outer member, the said shutter member being provided with a finger piece projecting through the side wall of the outer member, the said raised peripheral portion of the inner member having a break therein of a length sufficient to permit the movement of the shutter member and the finger piece, the depressed portion and the said break in the raised peripheral portion of the inner member being of a depth substantially equal to the thickness of the shutter member, to form a powder tight joint therefor.

2. A shaker top or cap comprising inner and outer perforated members and an intermediate rotatable perforated shutter member, all composed of thin sheet material, the inner member having a raised peripheral portion engaging the outer member and a depressed central portion forming a seat for the rotatable shutter member, the inner member pressing the shutter member against the outer member, the said shutter member being provided with a finger piece projecting through the side wall of the outer member, the said raised peripheral portion of the inner member having a break therein of a length sufficient to permit the movement of the shutter member and the finger piece, the depressed portion and the said break in the raised peripheral portion of the inner member being of a depth substantially equal to the thickness of the shutter member, to form a powder tight joint therefor, said inner member having integral side walls and said outer member having integral side walls overlapping and permanently secured to the side walls of the inner member.

3. A shaker top or cap comprising inner and outer perforated members and an intermediate rotatable perforated shutter member, all composed of thin sheet material, the inner member having a raised peripheral portion engaging the outer member and a depressed central portion forming a seat for the rotatable shutter member, the inner member pressing the shutter member against the outer member, the said shutter member being provided with a finger piece projecting through the side wall of the outer member, the said raised peripheral portion of the inner member having a break therein of a length sufficient to permit the movement of the shutter member and the finger piece, the depressed portion and the said break in the raised peripheral portion of the inner member being of a depth substantially equal to the thickness of the shutter member, to for a powder tight joint therefor, and means for yieldingly holding the shutter member opened or closed.

4. A shaker top or cap comprising inner and outer perforated members and an intermediate rotatable perforated shutter member, all composed of thin sheet material, the inner member having a raised peripheral portion engaging the outer member and a depressed central portion forming a seat for the rotatable shutter member, the inner member pressing the shutter member against the outer member, the said shutter member being provided with a finger piece projecting through the side wall of the outer member, the said raised peripheral portion of the inner member having a break therein of a length sufficient to permit the movement of the shutter member and the finger piece, the depressed portion and the said break in the raised peripheral portion of the inner member being of a depth substantially equal to the thickness of the shutter member, to form a powder tight joint therefor, and means for yieldingly holding the shutter member opened or closed, said means forcing one of the members out of its normal position as the shutter member is moved between its opened and closed positions.

5. A shaker top or cap comprising inner and outer perforated members and an intermediate rotatable perforated shutter member, all composed of thin sheet material, the inner member having a raised peripheral portion engaging the outer member and a depressed central portion forming a seat for the rotatable shutter member, the inner member pressing the shutter member against the outer member, the said shutter member being provided with a finger piece projecting through the side wall of the outer member, the said raised peripheral portion of the inner member having a break therein of a length sufficient to permit the movement of the shutter member and the finger piece, the depressed portion and the said break in the raised peripheral portion of the inner mem-

ber being of a depth substantially equal to the thickness of the shutter member, to form a powder tight joint therefor, and means for yieldingly holding the shutter member opened or closed, comprising a projection and recess connection between the shutter member and one of the other members, said connection serving to force said members apart as the shutter member is moved between its opened and closed positions.

In testimony that I claim the foregoing as my invention, I have signed my name this third day of May, 1920.

RALPH W. WILSON.