

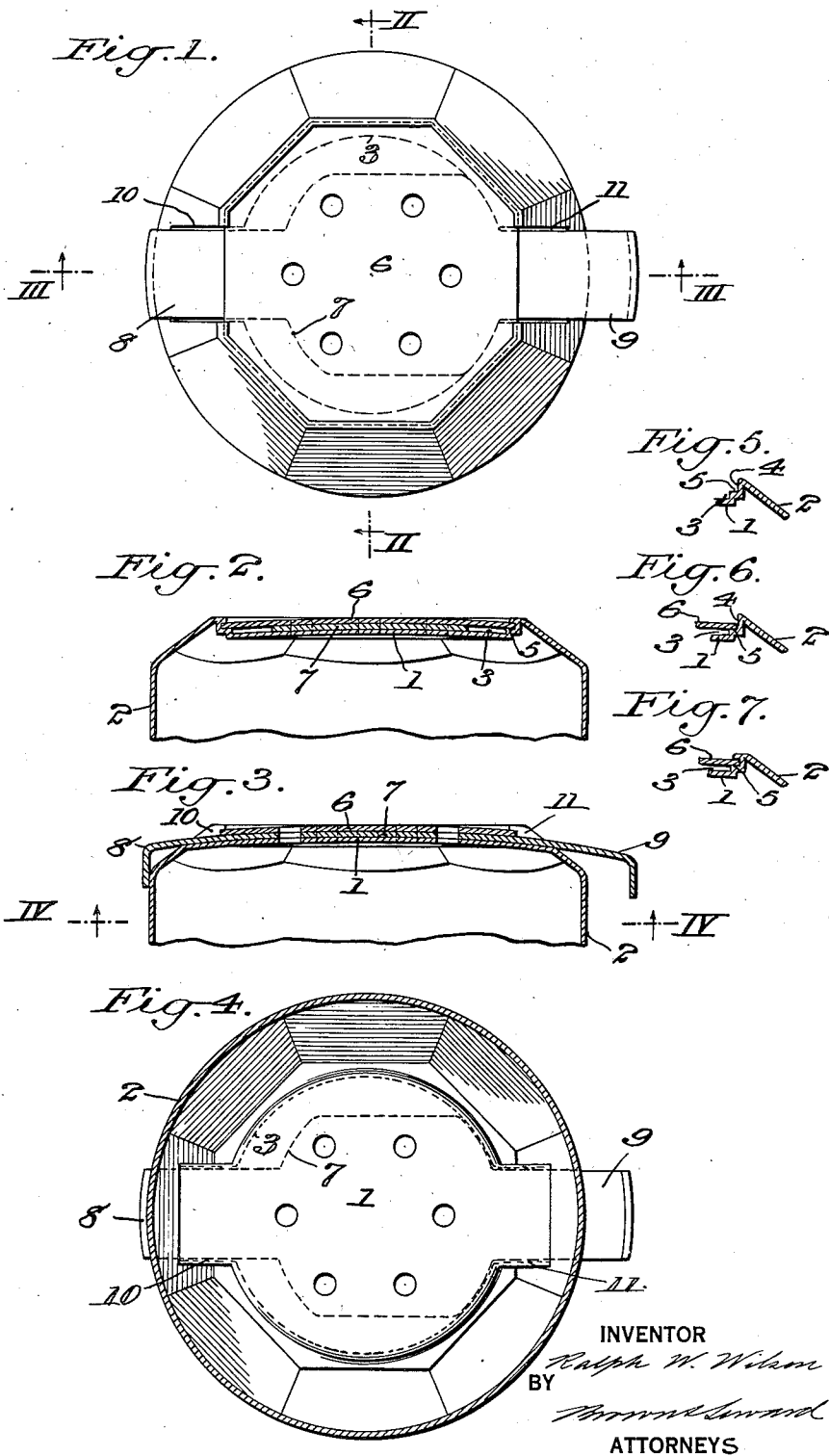
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R. W. WILSON

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SHAKER CAP

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UNITED STATES PATENT OFFICE

RALPH W. WILSON, OF NEW YORK, N. Y.

SHAKER CAP

Application filed February 16, 1929. Serial No. 340,528.

My invention relates to that type of shaker caps in which a movable shutter member is interposed between perforated inner and outer members, for opening and closing communication through said members. The object of my invention is to provide a cap of the above character 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 cap which may be made in various shapes and sizes, without interfering with the proper assembly of the inner, outer and interposed shutter members. My invention comprises a cap of the above character in which the inner member is provided with a depressed recess for receiving both the shutter member and the outer member, the wall of said recess being crimped over the edge of the outer member to hold the members in their assembled relationship. My invention further comprises a cap in which the wall of the depressed recess in the inner member is stepped to provide a seat for the edge of the outer member, for permitting the movement of the shutter member between the said outer member and the bottom of the recess, into its open and closed positions. My invention still further comprises a cap of the above character in which the shutter member is reciprocable.

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

Fig. 1 represents the shaker cap in top plan.

Fig. 2 represents a cross section taken in the plane of the line II—II of Fig. 1, looking in the direction of the arrows.

Fig. 3 represents a cross section taken in the plane of the line III—III of Fig. 1, looking in the direction of the arrows.

Fig. 4 represents a horizontal section taken in the plane of the line IV—IV of Fig. 3, looking in the direction of the arrows.

Fig. 5 represents a detail section showing the stepped recess in the inner member before the outer member is seated therein.

Fig. 6 represents a similar section after the outer member has been seated.

Fig. 7 represents a similar section after the wall of the recess has been crimped over the edge of the seated outer member.

The perforated inner member of the shaker cap is denoted by 1 and it has a flange 2 which is adapted to be attached to or from a part of a suitable container, not shown herein. This perforated inner member 1 is provided with a depressed recess 3, provided with a peripheral wall 4, which wall is stepped to provide a seat 5 for receiving the peripheral edge of the outer perforated member 6. This perforated outer member 6 and the depressed recess 3 may be of any desired peripheral contour.

The perforated shutter member 7 is located between the perforated outer member 6 and the bottom of the recess 3, which shutter member, in the present instance, is shown as to the exterior of the cap through oppositely disposed finger extensions 8, 9, projecting to the exterior of the cap through oppositely disposed slots 10 and 11 leading from the depressed recess 3 in the inner member, through the side wall 4, the sides of which slots form guides for the said finger extensions of the shutter member.

After the shutter member and outer member have been placed in position within the depressed recess 3, the wall 4 of the recess is crimped over the edge of the outer member to hold the members permanently in their assembled relationship.

The structure herein described is a very simple and inexpensive one and permits the cap to be made in various shapes and sizes, without interfering with the proper assembly of the several members.

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

What I claim is:—

1. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed movable perforated shutter member, and means located within the

periphery of the inner member for holding the members in their assembled relationship.

2. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed reciprocable perforated shutter member, and means located within the periphery of the inner member for holding the members in their assembled relationship.

3. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed movable perforated shutter member, said inner member having a depressed recess for receiving the outer and shutter members, the wall of the recess being crimped over the edge of the outer member to hold the members in their assembled relationship.

4. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed reciprocable perforated shutter member, said inner member having a depressed recess for receiving the outer and shutter members, the wall of the recess being crimped over the edge of the outer member to hold the members in their assembled relationship.

5. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed movable perforated shutter member, said inner member having a recess for receiving the outer and shutter members, the wall of said recess being stepped to form a seat for the edge of the outer member, said wall also being crimped over the edge of the outer member to hold the members in their assembled relationship.

6. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed reciprocable perforated shutter member, said inner member having a recess for receiving the outer and shutter members, the wall of said recess being stepped to form a seat for the edge of the outer member, said wall also being crimped over the edge of the outer member to hold the members in their assembled relationship.

7. A shaker cap comprising relatively fixed perforated inner and outer members and an interposed reciprocable perforated shutter member having oppositely disposed finger extensions, said inner member having a recess for receiving the outer and shutter members, the wall of the recess being crimped over the edge of the outer member to hold the members in their assembled relationship, said inner member having oppositely disposed slots leading from said recess through said wall, the sides of which slots form guides for the finger extensions of the shutter member.

In testimony, that I claim the foregoing as my invention, I have signed my name this 14th day of February, 1929.

RALPH W. WILSON.