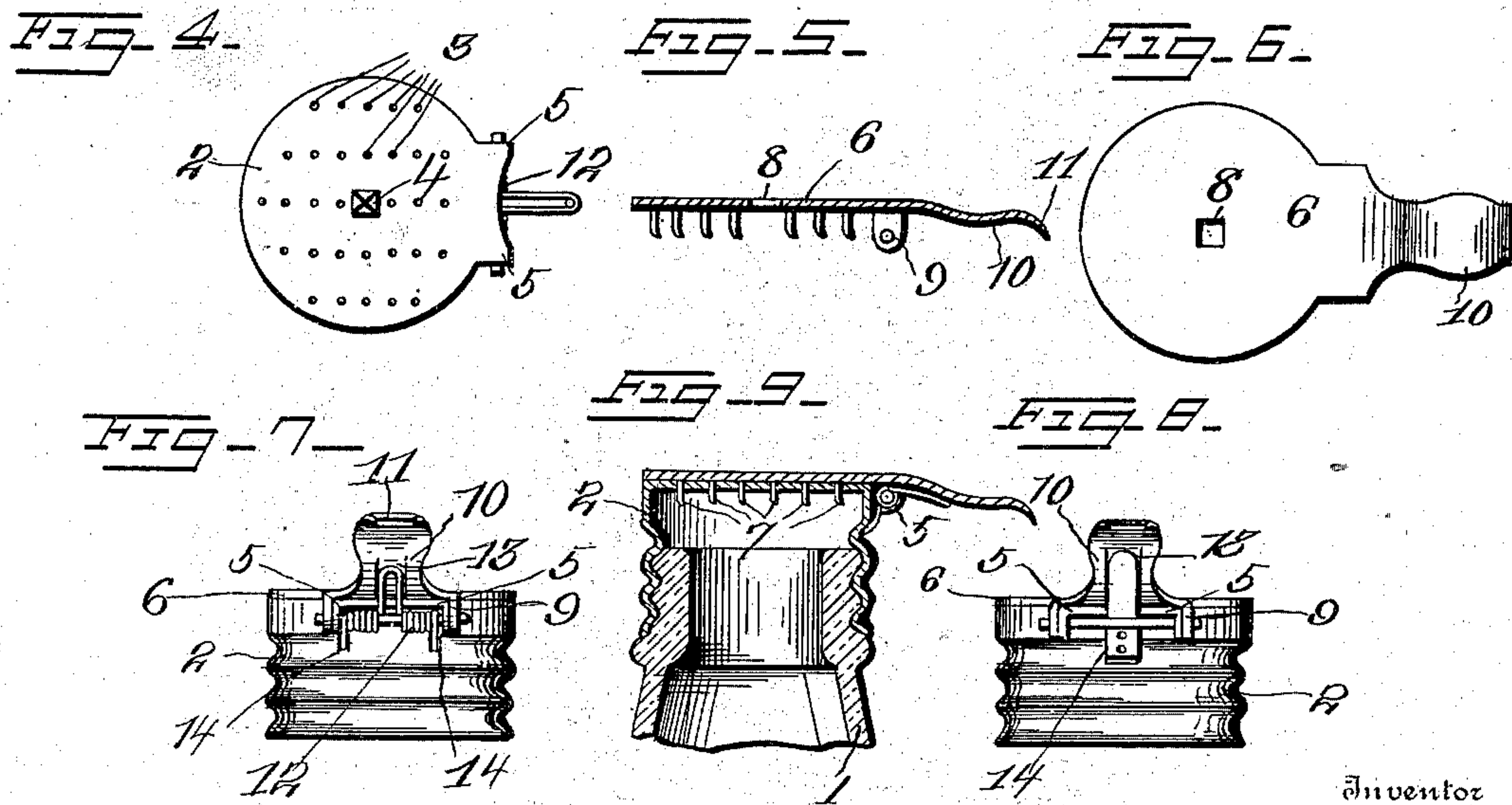
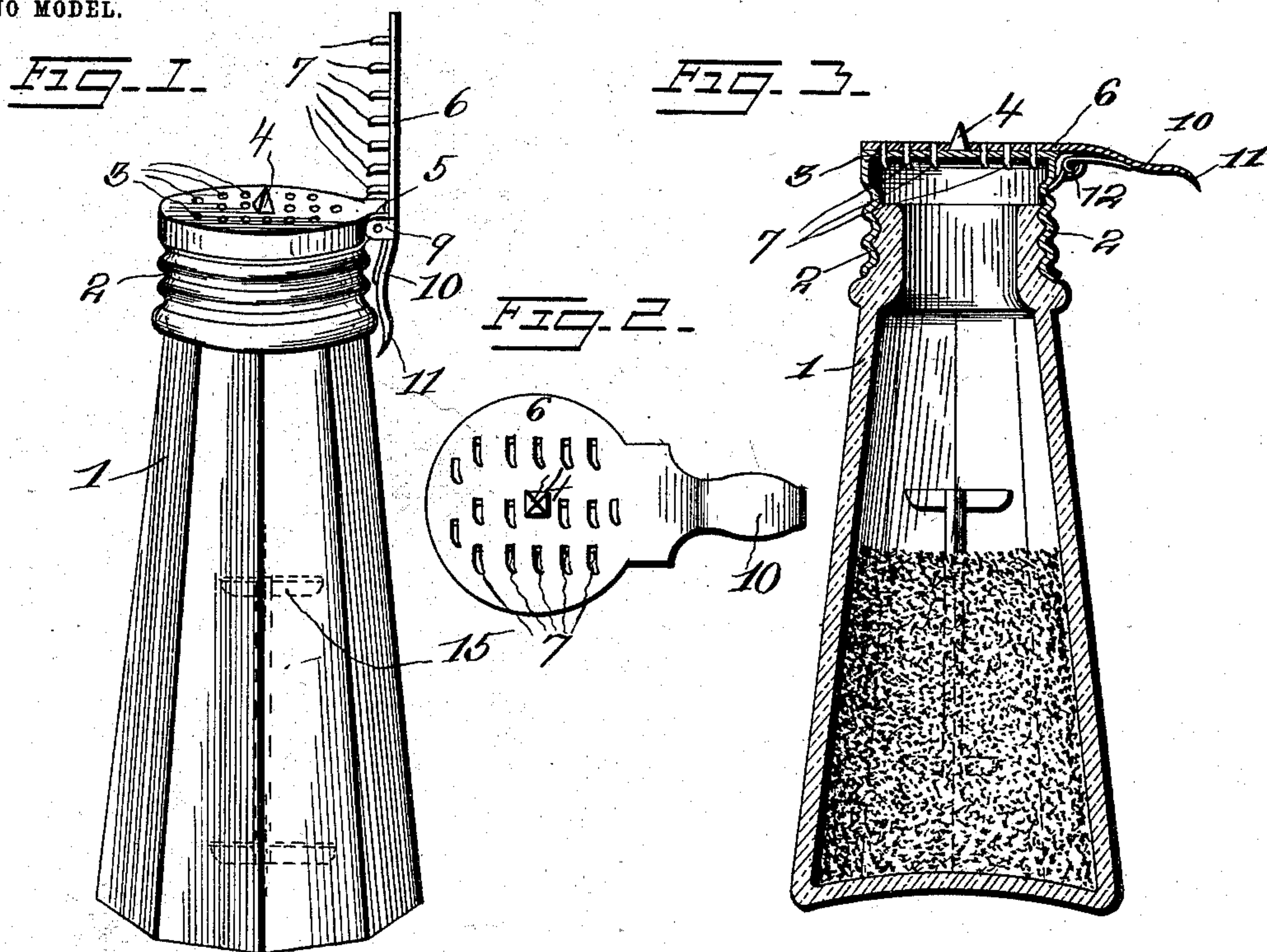


J. S. DUFFIE.  
DISTRIBUTER OR SALT AND PEPPER SHAKER.

APPLICATION FILED SEPT. 12, 1901.

NO MODEL.



Witnesses

R. L. Bowell  
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# UNITED STATES PATENT OFFICE.

JOHN S. DUFFIE, OF WASHINGTON, DISTRICT OF COLUMBIA.

## DISTRIBUTER OR SALT AND PEPPER SHAKER.

SPECIFICATION forming part of Letters Patent No. 743,626, dated November 10, 1903.

Application filed September 12, 1901. Serial No. 75,201. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN S. DUFFIE, a citizen of the United States, residing at Washington, District of Columbia, have invented certain new and useful Improvements in Distributers or Salt and Pepper Shakers, &c., of which the following is a specification.

My invention is a distributing vessel, and is intended chiefly to distribute such articles as salt, pepper, sugar, &c., used for dining-table purposes, and it may also be used for distributing flour, condiments, &c. It also prevents the contents of the vessel from spilling out through the perforated cap and also prevents dampness from getting into the contents.

My invention consists of a vessel, preferably in the shape of the common salt-distributer, having on its top a perforated cap and on the upper surface of the cap an elevation forming a guide, and hinged to the cap is the lid, having a perforation for the guide to enter or pass through and having pins projecting from the lower side of the lid adapted to enter and be withdrawn from the perforations in the cap and also a lever-handle and means to throw the lid down and force the pins through the perforations. Said pins pass through said perforations and keep the salt cut up fine as the bottle is shaken.

In the accompanying drawings, Figure 1 is an elevation of my invention. Fig. 2 is a top view of the lid, showing the pins or teeth struck down. Fig. 3 is a vertical sectional view of my invention. Fig. 4 is a top view of the cap, the perforations being small, and therefore are adapted to distribute finely-powdered material. Fig. 5 is a sectional view of the lid, showing the pins secured to the under face thereof or cast integral therewith. Fig. 6 is a top view of the lid shown in Fig. 5. Fig. 7 is a view of the cap, showing a spiral spring, which throws the lid down. Fig. 8 is another view of the cap where a flat spring is used. Fig. 9 is a vertical sectional view of a modified form—that is, a form in which the guide is not used.

My invention is described as follows:

1 is the vessel, which is made, preferably, in the shape of a salt shaker or distributer.

2 is the cap, preferably threaded and screwed on the neck of the vessel. The top

of the cap is preferably flat and is provided with perforations 3 and a central projection 4. This cap is also provided with perforated hinging-ears 5.

6 is the lid, provided with pins 7, central guide-perforation 8, perforated hinging-ears 9, and lever-handle 10, the end of which is turned down, so as to prevent the lid from being raised to a position more than at right angles to the face of the cap. The lid is hinged to said cap by means of a hinge-pin passing through the perforations in said ears 5 and 9.

12 is the coil-spring, which throws the lever-handle up and the lid down, forcing the pins to enter the perforations 3, and thereby clean them out.

The pins 7 may be struck down through the lid, as shown in Fig. 2.

The central perforation 8 fits snugly over the central elevation 4, and therefore the teeth are thereby so guided that they unfailingly enter the perforations 3.

The diagram shown in Fig. 4 is for the purpose of showing the spring 12 and showing the perforations smaller and closer together than in Fig. 1, and the diagram shown in Fig. 5 illustrates a sectional view of the lid used in connection with the last-mentioned cap. This lid may be cast all in one piece, and the diagram shown in Fig. 6 shows the top face of this lid.

In the lower face of the lever-handle is a slight depression 13 to keep the upper end of the spring in place, and corresponding thereto are depressions 14 in the cap to keep the lower end or ends of the spring in place.

In connection with this invention I use a salt-crusher 15. (Shown in Fig. 1.) Any style salt-crusher may be used; but the one I use and consider better adapted for the purpose intended has on each end four blades extending radially from the shaft, their upper and lower edges being sharp.

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

1. A distributer, consisting of a vessel, preferably in the shape of a salt-distributer; a cap secured on the top of said vessel, and provided with perforations; a guide secured on said cap; a lid fitting on the top of said



cap, provided with a perforation for the guide to pass through, and with pins to enter said perforations, and with means to raise and lower said lid, substantially as shown and described and for the purposes set forth.

2. A distributor, consisting of a vessel, preferably in the shape of a salt-distributor; a cap provided with perforations, secured on the top of said vessel; a guide secured on said cap; a spring-actuated lid fitting on the top of said cap and provided with a perforation for the guide to pass through, and with pins to enter said perforations; said lid hinged to said cap, substantially as shown and described and for the purposes set forth.

3. A distributor, consisting of a vessel, preferably in the shape of a salt-distributor; a cap provided with perforated hinging-ears,

perforations in its top and vertical depressions in its side; a lid, having perforated hinging-ears, a lever-handle provided with an under depression, hinged to, and fitting on the top of said cap; pins extending from the lower face of said lid, and adapted to enter said perforations, and a spring operating in the lower depression of the lever-handle, and the vertical depressions of the cap, and adapted to throw said lever-handle up, and said lid down, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN S. DUFFIE.

Witnesses:

REBECCA PARKER,  
J. E. LAMBERT.