1,166,743.

SALT SHAKER. APPLICATION FILED NOV. 14, 1914.

E. A. COCHRAN.

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Patented Jan. 4, 1916.



TTORNEY

## WITNESSES:

F.E. Maynard. Jonie Sinnett.

INVENTOR

Edward a bochraw. BY G. H. Mong,

UNITED STATES PATENT OFFICE.

EDWARD A. COCHRAN, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-THIRD TO GEORGE M. DAVIS, OF SAN FRANCISCO. CALIFORNIA.

SALT-SHAKER.

1,166,743.

Specification of Letters Patent.

Patented Jan. 4, 1916.

Application filed November 14, 1914. Serial No. 872,099.

To all whom it may concern:

Be it known that I, Edward A. Cochran, a citizen of the United States, residing at the city and county of San Francisco and 5 State of California, have invented new and useful Improvements in Salt-Shakers, of

which the following is a specification.

This invention relates to salt shakers and particularly to a moisture-proof container 10 for preserving table salt against the absorption of moisture.

The invention consists of a container with a removable cap having a peculiar valve closure which is also effective as a lump disin-15 tegrator.

The invention consists of the parts and the material and all its members are, therefore, construction and combination of parts as integrally formed at one operation, thus hereinafter more fully described and claimed, having reference to the accompanyavoiding any machining. Having thus described my invention, what 65 20 ing drawings, in which— Figure 1 is a side elevation of the device I claim and desire to secure by Letters Patent is—

locking the valve to the cap by the simple method of flattening the ends of the stems 8 by the application of a pinching tool which also forms points 9 on the stems useful to break up salt lumps impinging thereon. 50

When the container is tilted over, the valve shifts automatically away from the cap and allows the contents to be discharged and automatically closes when the container is righted.

It will be noticed that I utilize three stems 8 which play in respective of the cap perforations 4, thus again tending to cheapen cost of manufacturing by eliminating any special stem guide. Moreover the 60 valve is preferably cast of a non-corrosive

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partly in section. Fig. 2 is a bottom plan of the valve. Fig. 3 is a view of the salt shaker in discharging position.

25 2 indicates a container with a threaded removable top cap 3 having numerous perforations 4. Above the cap is a disk valve 5 having on its underside a circumferential knife edge 6 which acts to cut away any ac-30 cumulations on the cap surface and thus seat well to keep out moisture.

The value is provided with a number of short pointed spurs 7 which enter the cap holes 4, keeping them clear of salt particles 35 and also preventing the free circulation of moist air. Play or movement of the value is permitted by a set of stems 8 projecting from one side of the disk and into respective apertures.

Manufacturing the device so cheaply as to 40

1. The combination with an open month container having a removable perforated cap, of a reciprocable valve closure for the 70 cap having an annular knife edge operative to cut and keep a clean seat on the cap. 2. In a salt shaker of the character described, a removable perforated flat top, a guided disk valve having downturned pe- 75 ripheral knife edges closable against the top, and having spurs fixed and movable therewith, and guides extending through the top into the container and having the inner ends formed with flattened darts which 80 serve to contact with the cap when the valve opens and to break up lumps of contained material.

In testimony whereof I have hereunto set my hand in the presence of two subscribing 85

enable its possible free distribution as an witnesses. advertising novelty is one of the objects of EDWARD A. COCHRAN. the invention, and to that end the parts are Witnesses: so designed as to be simple and most inex-IRVINE SINNETT, 45 pensively produced. This is carried out by W. W. HEALEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,

Washington, D. C."