No. 693,350. Patented Feb. 11, 1902.

M. H. FLETCHER.

PACKAGE FOR TOOTH POWDER OR LIKE PREPARATIONS.

(Application filed July 26, 1901.)

(No Model.)

Fig. 1.

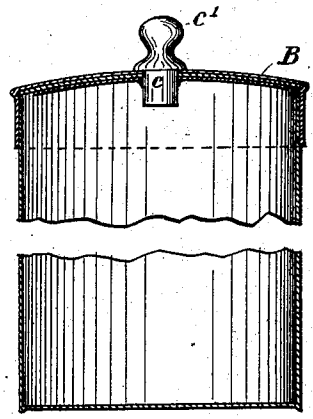


Fig. 3.

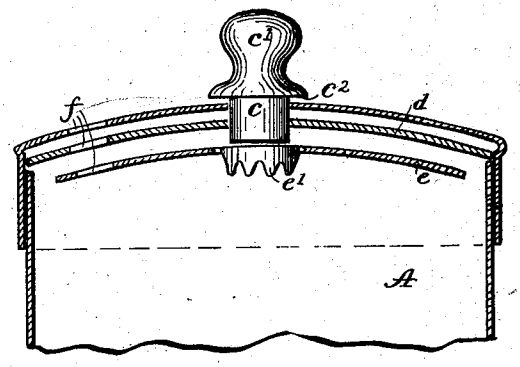


Fig. 2.

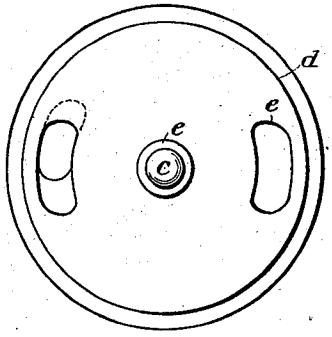
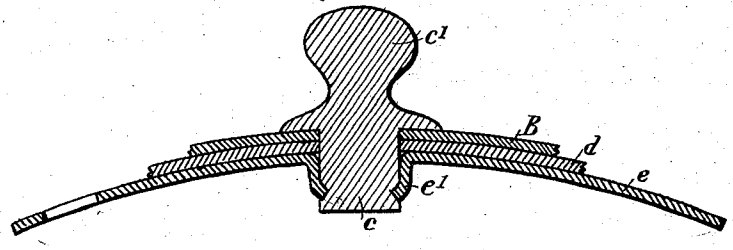


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

MORDECAI H. FLETCHER, OF CINCINNATI, OHIO, ASSIGNOR TO THE VEGETOL COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

PACKAGE FOR TOOTH-POWDER OR LIKE PREPARATIONS.

SPECIFICATION forming part of Letters Patent No. 693,350, dated February 11, 1902

Application filed July 26, 1901. Serial No. 69,749. (No model.)

To all whom it may concern:

Be it known that I, MORDECAI H. FLETCHER, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Packages for Tooth-Powder and Like Preparations, of which the following is a specification.

My invention relates to packages intended particularly to hold face-powder, tooth-powder, or the like material to be used in small quantities upon occasion; and its object is to provide a package which shall be perfectly secure and tight and protect the contents from moisture and at the same time be provided with means, convenient of operation, for discharging in small quantities, as required from time to time.

To this end the invention consists in a box or package, preferably cylindrical in form, having a perforated cover, a rotating disk valve within said cover and operated from the outside, having registering perforations in the cover and this valve, and a compressible sheet-packing interposed between the disk valve and the cover and serving to prevent leakage and extending beyond the circumferential limits of the disk valve to constitute also a packing between the cover and the walls of the box or package.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a vertical axial section of the package complete. Fig. 2 is an under plan view of the cover removed, showing valve half open. Fig. 3 is a vertical axial section, on an enlarged scale, showing the parts separated. Fig. 4 is a detail showing the turning spindle with an axial section of the disk, showing the mode of clamping the disk to the spindle.

Referring now to the drawings, A designates the package, and B its cover, to which my invention is applied. The package in the case illustrated is of an ordinary cylindrical form, with a corresponding cover, designed to be used as a receptacle for powder of any kind which is to be used in small quantities from time to time and is necessary to keep perfectly dry.

The cover B has one or more openings through which the powder is to be discharged. Centrally through the cover B is a circular aperture for the reception and play of the spindle c, having a terminal knob c', between which and the spindle proper is a ledge or shoulder c^2. The spindle is preferably made of wood. Next within the cover is a similarly-perforated disk d, preferably of heavy absorbent paper or any other suitable compressible material adapted to form a packing, in connection with the disk valve presently to be described. This packing-disk d has one or more openings corresponding with those in the cover B. Next below the said packing is a centrally-perforated disk e, of sheet metal, whose central aperture is turned downward to form a rim or raised margin e'. In placing these parts together the spindle c is first inserted through the cover B from outside down to its shoulder c^2. The packing-disk d is then slipped over the spindle c inside the cover B and should be large enough to completely fill the cover to contact with its marginal wall. The disk valve e is then slipped over the spindle c from within until the packing-disk d is sufficiently compressed between itself and the cover B. In this position the marginal rim e' of the disk valve projects downwardly upon the spindle, to which it is secured by the action of a suitable compressing instrument, which compresses the said marginal rim into the body of the spindle c at one or more points, thus making a secure holding, whereby the rotating of the spindle c rotates the disk valve e. Suitable perforations f in the disk valve e, packing d, and box-cover B are formed so as to register as the disk is rotated and enable the contents of the package to be discharged as wanted.

It may sometimes be desirable to interpose a small quantity of cement between the interior of the box-cover B and the packing-disk d to keep said disk from rotating, although it is a function of the packing-disk by its fixedness and its state of compression to produce friction in the rotative action of the disk e to hold the disk securely in whatever position it may be placed, this function being additional to that of packing the adjacent parts against the atmosphere, as well as leakage of the contents of the box.

The disk *e*, it will be noticed, is of less diameter than the packing-disk *d*, in order that when the cover B is seated upon the box A the upper edge of the box seats against the packing-disk just outside the circumferential limits of the rotating disk valve *e*, forming a secure joint against the atmosphere, as well as preventing any leakage of the contents of the box.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. In a package of the character indicated, the combination of a cover, an inner rotatable valve-disk, and a compressible packing-disk interposed between the cover and valve-disk and having its marginal edges exposed and capable of being directly confined between the upper edges of the body portion and the under surface of the cover.

2. In a package of the character indicated a centrally-perforated cover, centrally-perforated compressible packing-disk of substantially the same diameter as the cover, a valve-disk below the cover and centrally perforated and having a flange surrounding the perforation, in combination with a spindle passing through the central perforations of the cover, packing-disk and the valve-disk, said flange being compressed into the spindle to unite the parts, substantially as specified.

3. In a package of the character indicated, the combination of the cover, the compressible packing-disk on the under side thereof, and extending to the outer wall, the valve-disk below the packing-disk, and of less diameter whereby the marginal edges of the packing-disk are exposed and permitted to seat directly upon the upper edge of the box, and a spindle passing through each of said disks and having a flange c^2 to bear upon the outside of the cover, said valve-disk having a flange surrounding its central opening adapted to be compressed into the spindle to unite the parts.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MORDECAI H. FLETCHER.

Witnesses:
WALTER A. KNIGHT,
LLOYD T. BRUNSON.