

(No Model.)

D. C. McNAUGHTON.
CASE FOR POWDER, SEEDS, OR THE LIKE.

No. 533,822.

Patented Feb. 5, 1895.

Fig. 1.

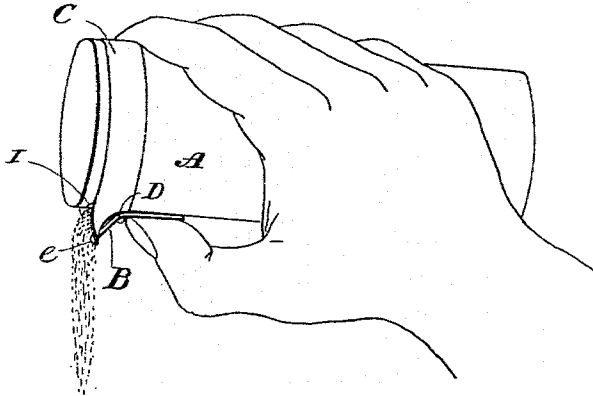


Fig. 2.

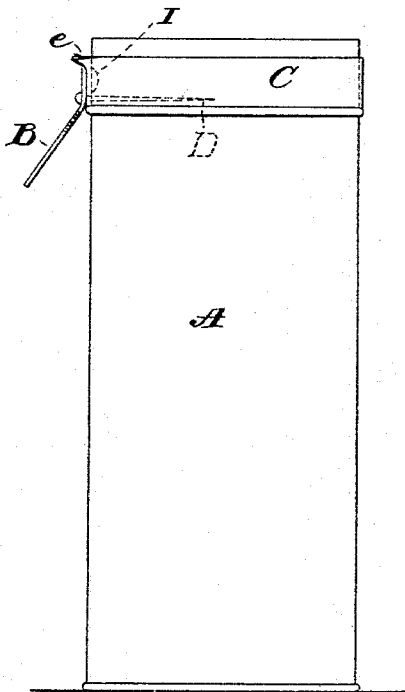


Fig. 3.

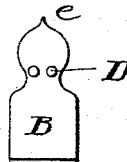


Fig. 4.

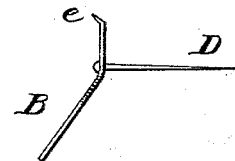


Fig. 5.

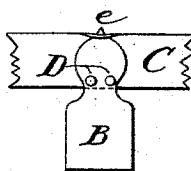
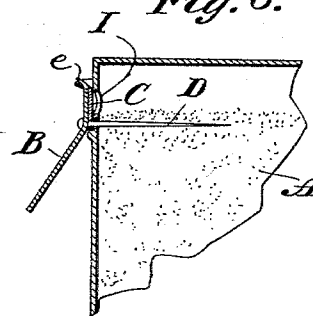


Fig. 6.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DANIEL C. McNAUGHTON, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO THE ASSOCIATED DENTISTS' COMPANY, OF SAME PLACE.

CASE FOR POWDER, SEEDS, OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 533,822, dated February 5, 1895.

Application filed March 12, 1894. Serial No. 503,342. (No model.)

To all whom it may concern:

Be it known that I, DANIEL C. McNAUGHTON, a citizen of the United States, residing at Jersey City, county of Hudson, and State of New Jersey, have invented certain new and useful Improvements in Cases for Powder, Seeds, or the Like, of which the following is such a full, clear, and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The principal objects of my invention are to provide a simple device for retaining powder, seeds, granulated matter or the like, and from which the contents may be readily discharged in comparatively small quantities and by which such contents may be guided or directed to the particular point where it is to be applied or delivered and thereby avoiding waste of the contents.

To these ends my invention consists in the certain novel and peculiar arrangements and combinations of the several parts of the device, all as hereinafter fully described and then pointed out in the claims.

I have illustrated a type of my invention in the accompanying drawings, wherein—

Figure 1 is a perspective view of my improved case or box shown as grasped in the hand of the operator. Fig. 2 is an enlarged side view of the same. Fig. 3 is a front view of the finger-lever shown as detached and Fig. 4 is a side view of the same. Fig. 5 is a front view of the finger-lever together with a portion of the elastic strip or band with which it is connected. Fig. 6 is a view of a section taken on a vertical plane to one side of the center of the discharge-opening—only a portion of the body of the can being here shown.

Referring to the drawings in which like letters of reference designate like parts throughout, A is a cylindrical box or case closed at the bottom and top and in the side of which near one end thereof is formed an opening I, from which the contents of the case may be shaken or discharged when the opening is uncovered. An elastic strip or band C is placed over the opening and in the construction shown the strip takes the form of an endless band that is adjusted around the box

A so as to cover the opening I, and I preferably use for this purpose an ordinary india rubber band. This band is seated over the exterior of the opening I so as to constitute therefor a valve and in order to open such valve one edge of the band is raised away from the opening so as to uncover it, as shown in Fig. 1, and the band at such time also serves as a spout for the opening, so that the contents of the case as they are discharged from the opening may be directed or guided by the spout with accuracy and can be delivered with certainty to any desired point. When acting as a spout for the opening the elastic strip or band C forms a lip or spout that is practically continuous with the walls of the receptacle since the elasticity of the band causes it to lay closely against the exterior of the case, thus making it impossible for the matter to fall out of the spout at any place other than along its edge. By thus constituting the valve of an ordinary elastic or rubber band, the same may be readily replaced in case it becomes injured or when the elasticity of the material becomes impaired.

In order to readily lift the elastic valve from the discharge-opening, I provide a hand-operated device comprising a lever B which is bent on itself and is fulcrumed or hinged at or near the bend therein at a suitable point on the casing. One arm of this lever is suitably shaped to cover the opening I, and it is secured to the elastic strip C, preferably at a point directly over the opening I, and thus the elasticity of the strip, which normally closes the opening, serves to hold down the connected end of the lever flatly against it (as shown in Fig. 2) while the other end of the lever projects outwardly at a sufficient angle to be conveniently engaged by the finger or thumb of the hand which grasps the case. By pressing down this free end of the lever the end connected with the elastic strip is correspondingly elevated and the opening I being thus uncovered can discharge the contents of the box onto the strip which then serves as a spout and from which it can be readily poured or spilled, as indicated in Fig. 1. Upon releasing the lever from the pressure of the finger, the elastic strip or valve

automatically snaps back into closed position. I have provided a simple way of securing the lever to the elastic strip by merely pointing the end of the lever and passing such point through the material of the elastic strip as clearly indicated in Figs. 2 and 5.

In order to loosen or break up the contents of the box whenever it may cake around or near the discharge-opening, I arrange within the box one or more agitators D which are connected with the tilting finger-lever B in such way that as the lever is tilted the agitators will be rocked or vibrated. This movement causes the agitators to stir or break up the contents near the opening and to urge it on toward the same for delivery therefrom. In the construction shown these agitators take the form of prongs or pins which are secured fast to the lever B, they being preferably attached to the arm of the lever which extends across the opening I, and to a point thereon near the bend in the lever. These prongs extend through corresponding holes formed in the side of the box so as to project well into the interior of the case and in addition to acting as agitators they also serve as a means for mounting the lever in position and at the same time they pierce the elastic strip C and thereby hold it in place as shown in Fig. 6.

I find that it is possible to operate the device by transposing the finger-lever and the elastic band so that the band lies to the outside of the lever instead of the inside thereof. In either case the lever serves to raise the band away from the opening so that the contents may be readily discharged therefrom and I, therefore, wish it to be understood that my invention is not limited to the specific form of construction herein shown, as the same may be variously modified without departing from the spirit of the invention.

From the foregoing description the operation and use of my improved device will be readily understood. The box or can being filled with the desired material, for instance, tooth powder, seeds or granulated matter of any kind, the box is grasped in the hand as shown in Fig. 1 and tilted into about a horizontal position so as to move the contents of the box to the delivery-opening I, whereupon the lever B is pressed down by the thumb or finger, whichever may be the most convenient, and the strip C is stretched or lifted away from the opening so as to uncover it and allow the contents to fall through the opening onto the band from whence it can be delivered as by an ordinary spout. After the desired quantity of the contents has thus been delivered, the opening is then automatically closed by the elastic valve or strip, upon the removal of the finger from the lever.

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

1. The combination of a receptacle provided with a discharge-opening, a set of agitators

for the contents of the receptacle, a rocking-lever mounted upon the exterior of the receptacle, and intermediate connections whereby the operation of the lever may serve to move the agitators.

2. The combination of a receptacle provided with a discharge-opening, a hand-operated valve normally closing said opening, a set of agitators for the contents of the receptacle and connections intermediate said valve and agitators whereby the latter are moved whenever the valve is operated.

3. The combination of a receptacle provided with a discharge-opening, a finger-lever adapted to normally close said opening with one end thereof and a set of agitators for the contents of the receptacle connected with and operated by said lever.

4. The combination of a receptacle provided with a discharge-opening, a finger-lever adapted to normally close said opening with one end thereof, and a set of agitator prongs mounted on said lever and projecting within the receptacle for agitating the contents thereof.

5. The combination of a receptacle provided with a discharge-opening, a finger-lever provided with one or more agitator prongs projecting through the wall of the receptacle and serving both as a means for mounting the lever in place and as agitators for the contents of the receptacle.

6. The combination of a receptacle provided with a discharge-opening, a valve formed of elastic material and seated over the exterior of said opening, and a finger-lever engaging with one end of said valve for raising it from its seat.

7. The combination of a receptacle provided with a discharge-opening, a valve formed of elastic material and seated over the exterior of said opening, and means for raising one edge of the valve from its seat.

8. The combination of a receptacle provided with a discharge-opening, an elastic strip seated across the exterior of said opening so that one edge thereof may be raised from the opening and constituting a valve therefor and forming a spout for the opening when raised away from it.

9. The combination of a receptacle provided with a discharge-opening, an elastic strip seated across the exterior of said opening so that one edge thereof may be raised away from it and constituting a valve therefor and forming a spout for said opening when its edge is raised, and a finger-lever having one end thereof secured to the edge of said elastic strip for raising it away from the opening.

10. The combination of a receptacle provided with a discharge-opening, an elastic band placed around the receptacle covering said opening, and means for raising one edge of the band away from the opening, said band constituting a spout for the opening when its edge is raised.

11. The combination of a receptacle pro-

vided with a discharge-opening, a rubber band placed around the receptacle covering said opening, a finger-lever having one arm thereof secured to the band at or near the opening for raising the band away from it.

12. The combination of a receptacle provided with a discharge-opening, an elastic strip seated over the exterior of said opening, and a bent finger-lever having the end of one of its arms inserted through said band for raising the same away from the opening.

13. The combination of a receptacle pro-

vided with a discharge-opening, an elastic band seated over the exterior of said opening, a bent finger-lever secured by one end to said band and provided with one or more prongs, said prongs being passed through the band and the wall of the receptacle for holding the parts in place.

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Witnesses:

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