No. 671,766. Patented Apr. 9, 1901.

J. H. JOHNSON.

POWDER BOX AND DUSTER.

(Application filed Dec. 26, 1900.)

(No Model.)

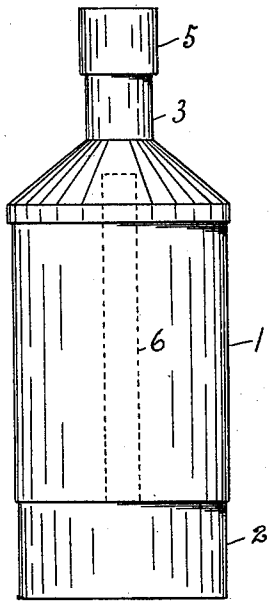


Fig. 1.

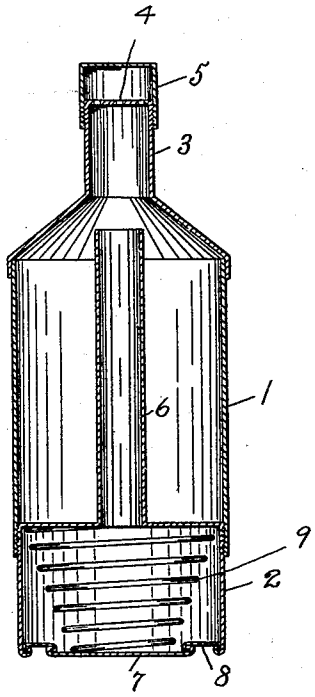


Fig. 2

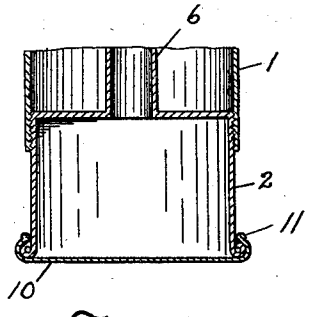


Fig. 3.

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UNITED STATES PATENT OFFICE.

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POWDER BOX AND DUSTER.

SPECIFICATION forming part of Letters Patent No. 671,766, dated April 9, 1901.

Application filed December 26, 1900. Serial No. 41,033. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. JOHNSON, a citizen of the United States, residing at Ellicott City, in the county of Howard and State of Maryland, have invented certain new and useful Improvements in Powder Boxes and Dusters, of which the following is a specification.

This invention relates to an improved powder box and duster, and is especially adapted for toilet powder.

The object of the invention is to provide a receptacle for containing toilet powder with means to dust the said powder upon any part of the body desired.

The boxes in which toilet powder is generally sold are usually provided with holes in one end through which the powder is shaken. This method is objectionable, as the powder packs in the end of the box having the holes therein and will not come out freely. By my present invention I overcome this objection by providing the box with an air-chamber at the bottom and a tube extending from the said chamber through the box containing the powder and terminating near the top thereof. The powder is forced freely through the apertures in the top of the box by simply pressing the thumb upon the flexible bottom of the air-chamber, which forces the air through the tube and out through the apertures in the top of the box, carrying a quantity of the powder with it.

Other features of my invention will be fully set forth in the description of the accompanying drawings, in which—

Figure 1 is a side elevation of my improved box and duster. Fig. 2 is a vertical central section of the same. Fig. 3 is a modification of the air-chamber.

Similar numerals refer to like parts throughout the several views.

In the accompanying drawings, 1 designates the powder-receptacle, and 2 the air-chamber, both of which parts may be made of tin or other suitable metal and of any preferred shape. The powder-receptacle 1 in this instance is cylindrical in cross-section and is provided with a contracted neck 3, in the top of which latter are a number of holes 4, through which the powder is forced. The lower end of the receptacle 1 is screw-threaded on the interior surface for the reception of the air-chamber. A cap 5 is fitted over the neck 3 of the powder-receptacle to close the holes 4 when the device is not in use.

The air-chamber 2 is cup-shaped and has one end screw-threaded on its exterior surface to fit within the powder-receptacle 1. Secured to the upper end of the air-chamber 2 and communicating therewith is a tube 6, which extends upwardly within the powder-receptacle and terminates near the contracted neck 3 thereof. The air from the chamber 2 is forced through this tube 6 and out through the holes 4 in the top of the contracted neck 3. The chamber 2 is provided with a flexible bottom consisting of a disk 7, connected to the lower end of the chamber 2 by an elastic ring 8, or the disk 7 may be connected to the said chamber by a non-elastic fabric strip 8 of sufficient length to allow the disk 7 to be forced down into the chamber 2. The fabric strip or ring 8 is connected to the disk 7 and receptacle 1 in a manner to make the bottom of the chamber 2 air-tight. The disk 7 is held to its normal position by a spring 9, having one end impinging against the said disk and the other against the top of the chamber 2.

In Fig. 3 I have shown a modification of the air-chamber 2. In this instance the lower edge of the receptacle 1 is rolled over to form a smooth contracting surface. A rubber disk 10, having a thick round edge 11, is forced over the end of the receptacle 1, the edge 11 of the disk 10 resting above the rolled edge of the receptacle 1 and is held thereon. When it is desired to force the air from the chamber 2, the thumb is pressed upon the rubber disk 10 and the latter forced downward, and when released it will return to its normal position.

When it is desired to use the device, the cap 5 is removed from the top thereof and the box tilted, allowing the powder to fall into the contracted neck 3. The flexible bottom of the air-chamber 2 is then forced inwardly, which forces the air through the tube 6 and out through the holes 4, carrying with it a certain amount of powder. This may be repeated as often as desired.

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

1. In a powder box and duster, the combination of a powder-receptacle having one or more apertures in the upper end; an air-chamber rigidly secured by one end to the lower end of the said receptacle; a tube communicating with the said chamber and extending into the powder-receptacle; and a flexible bottom connected to the said air-chamber.

2. In a powder box and duster, the combination of a powder-receptacle having one or more apertures in the upper end; a cap to fit over the upper end to close the said aperture; an air-chamber rigidly secured by one end to the lower end of the said receptacle; a tube communicating with the said air-chamber and extending upwardly into the powder-receptacle; and a flexible bottom secured to the said air-chamber.

3. In a powder box and duster, the combination of a powder-receptacle having a contracted neck, provided with apertures in the top thereof; an air-chamber rigidly secured by one end to the lower end of the said receptacle; a tube secured to and communicating with the said air-chamber, and extending upwardly into the said powder-receptacle; and a flexible bottom secured to the said air-chamber.

4. In a powder box and duster, the combination of a powder-receptacle having its lower end screw-threaded on the interior surface and provided with one or more apertures in the upper end; an air-chamber having its upper end screw-threaded and screwed within the lower end of the powder-receptacle; a hollow tube connected to the said air-chamber and communicating with the powder-receptacle; and a flexible bottom secured to the lower end of the said air-chamber.

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

JOSEPH H. JOHNSON.

Witnesses:
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