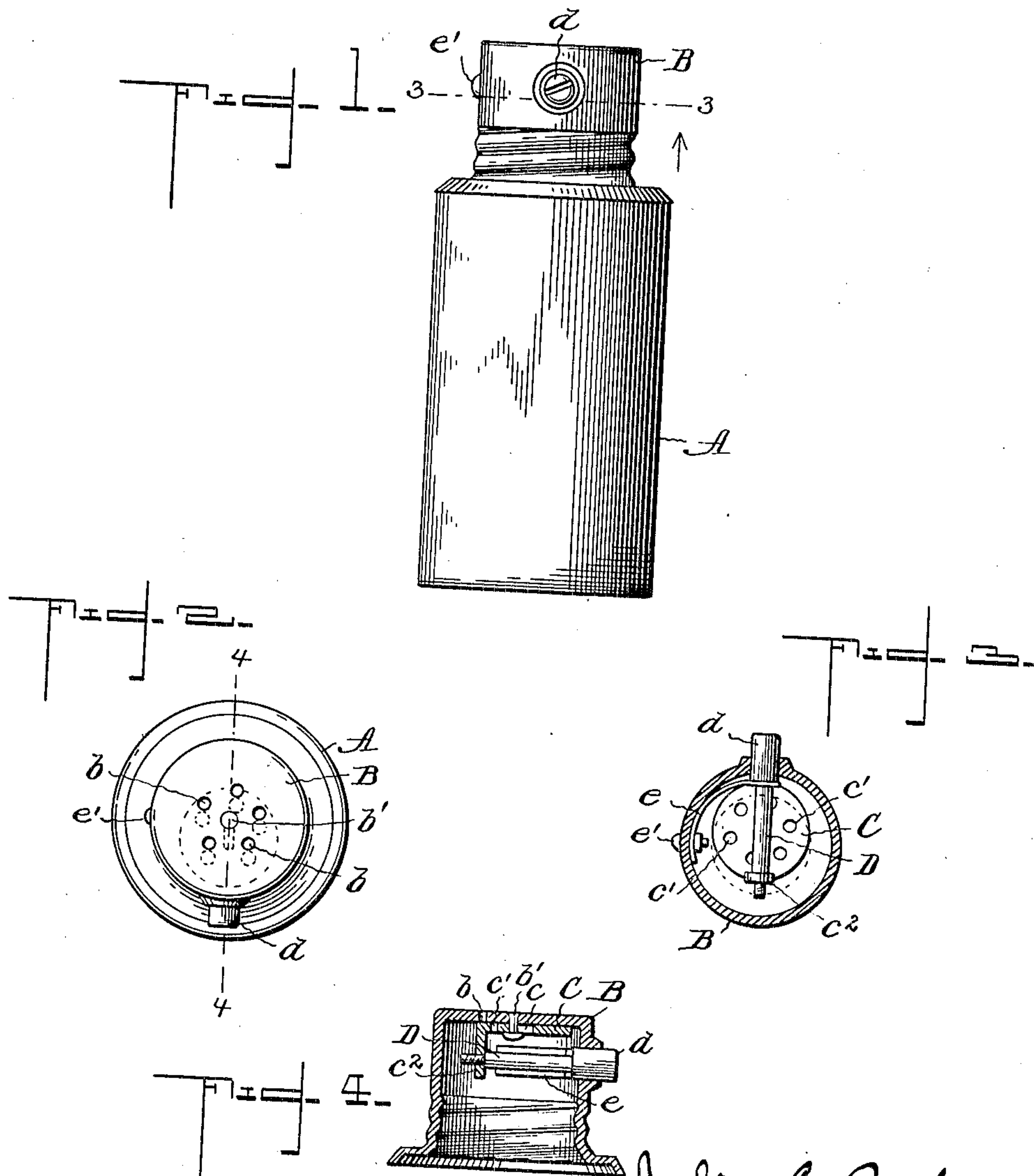


No. 843,438.

PATENTED FEB. 5, 1907.

J. A. BUCKE.
POWDER BOX.
APPLICATION FILED APR. 2, 1906.



Witnesses:-

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UNITED STATES PATENT OFFICE.

JULIUS A. BUCKE, OF LINCOLN, ILLINOIS.

POWDER-BOX.

No. 843,438.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed April 2, 1906. Serial No. 309,473.

To all whom it may concern:

Be it known that I, JULIUS A. BUCKE, a citizen of the United States, residing at Lincoln, in the county of Logan and State of Illinois, have invented certain Improvements in Powder-Boxes, of which the following is a full and complete specification.

This invention is an improvement in powder boxes or cans, and relates more especially to that class which are provided with perforated tops for the purpose of sifting out the contents.

The primary object of the invention is to provide a box of this general character with a spring-actuated cut-off which is adapted to normally close the perforations in the top, and which cut-off may be readily and conveniently actuated against the operation of the spring to open the perforations when it is desired to use the powder.

With this principal object in view the invention consists in providing the perforated top of a powder-box with a plate or cut-off in sliding engagement therewith and having perforations adapted to aline with the perforations in said top and means for operating said sliding plate or cut-off, all as will be hereinafter fully described, and specifically set forth in the appended claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a front elevation of a powder box or can, showing the application of my improved cut-off thereto. Fig. 2 is a plan view. Fig. 3 is a view looking at the inner side of the top of the powder-box, the section being taken on the line 3 3 of Fig. 1. Fig. 4 is a vertical sectional view through the top on the line 4 4 of Fig. 2.

Like letters and numerals of reference indicate like parts in all the figures of the drawings.

A designates the body of the powder-box, and B the top, said parts being secured together in any suitable manner, and the upper part of the top is provided with the usual perforations *b*, through which the powder is sifted out in dispensing the same.

In carrying out my invention the under side of the top of the box is provided with a sliding plate or cut-off C, held in slidable engagement with said top by means of the headed pin or stud *b'*, which latter passes through a slot *c* in the plate or cut-off. This plate or cut-off is provided with perforations *c'*, corresponding in number and arrangement to the perforations *b* in the top of the box, whereby

when the plate or cut-off is slid to the limit of its movement in one direction it will act to close the perforations *b* and when moved to the limit in the other direction will bring the perforations *c'* and *b* into alinement, so that the powder may be sifted out of the box.

For the purpose of operating the plate or cut-off C it is provided with a rod D, the inner end of which latter is threaded into an offset *c*² on said plate, while the outer end of said rod projects through one side of the top portion of the box and is formed with a head or button *d*. This head or button *d* projects sufficiently so that it can be pushed upon to move the plate or cut-off to bring the perforations *c'* on a line with the perforations *b*, and for the purpose of holding the plate or cut-off in the position to close the perforations *b* a flat spring *e* is secured at one end to the top of the box by means of the screw *e'*, while the other end of said spring engages the inner edge of the head or button *d* of the rod and bears thereagainst. It will be noted that the action of the spring *e* serves to push the rod outward and move the plate in position to close the perforations *b* in the top of the box, and this being the normal position of the parts the powder is contained within the box.

When it is desired to use the powder, the box is grasped in the hand and the button is pushed by means of the thumb to bring the perforations in the plate or cut-off on a line with the perforations in the top of the box, when the powder may be sifted from the box in the usual manner. As soon as pressure is removed from the button the spring returns the rod and plate or cut-off to their normal position and again closes the box.

The strength of the spring *e* is such as to require only a slight pressure to move the plate or cut-off, and as said plate or cut-off bears closely against the under side of the top of the box there is no possibility of powder getting between these parts to prevent their easy operation.

The button *d* is preferably slotted at its outer end, as shown, so that the rod which is a part thereof may be turned to screw the same in the offset of the plate, and it will be observed that the threaded end of said rod is of such length that by turning said rod the plate may be moved without disturbing the spring. Thus it will be seen that the plate may be moved to open the perforations of the top either temporarily by pushing the rod or permanently by turning said rod.

The device herein shown and described provides a very simple and convenient means for opening and closing the perforations in the top of a powder-box, and as the cut-off 5 acts automatically to close the perforations there is no likelihood of spilling the powder should the box be carelessly handled.

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

1. In a powder-box, the combination with the perforated top, of a plate or cut-off slidably mounted thereon and having corresponding perforations, an ear on said plate having 15 a threaded aperture, a rod having at one end a threaded portion which engages the ear and at the other end a slotted head, and a spring engaging the rod, whereby the plate may be moved to open the top either temporarily by 20 pushing the rod or permanently by turning said rod, as herein shown and described.

2. In a powder-box, the combination with the perforated top, of a plate or cut-off having corresponding perforations and a central 25 slot, a headed pin passed through the slot and engaging the top to slidably connect the plate thereto, an ear on said plate having a threaded aperture, a rod having at one end a threaded portion which engages the ear and at the

other end a head and shoulder, the head being 30 slotted, and an actuating-spring engaging the rod at the shoulder thereof; whereby the plate may be moved to open the perforations in the top either temporarily by pushing the rod against the action of the spring or 35 permanently by turning said rod, substantially as shown and described.

3. In a powder-box, the combination with the perforated top, of a plate or cut-off slidably mounted on the inner side of the top and 40 having perforations corresponding with those in the top, an ear on the plate having a threaded aperture, a rod having at one end a threaded portion engaging the ear and at the other end a slotted head and a shoulder, the 45 head projecting through one side of the top, and a plate-spring secured to the top and bifurcated for engagement with the rod at the shoulder thereof, substantially as shown and for the purpose set forth. 50

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JULIUS A. BUCKE.

Witnesses:

A. D. CADWALLADER,
J. E. JEWETT.