No. 791,011. PATENTED MAY 30, 1905.

A. B. CROUSE.

TOP FOR POWDER CANS.

APPLICATION FILED MAY 5, 1904.

Fig. 1.

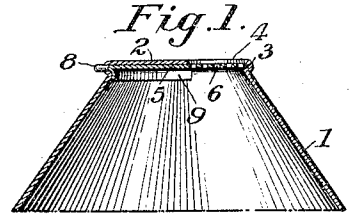


Fig. 2.

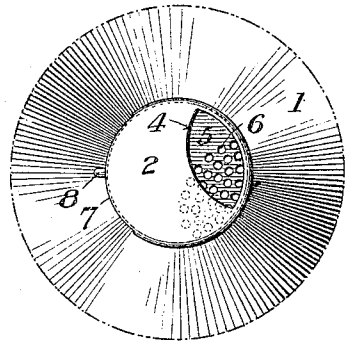


Fig. 3.

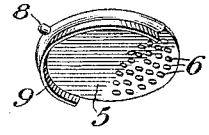


Fig. 4.

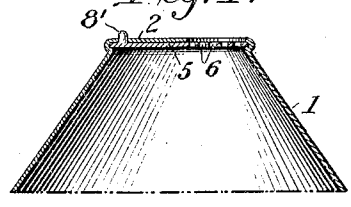
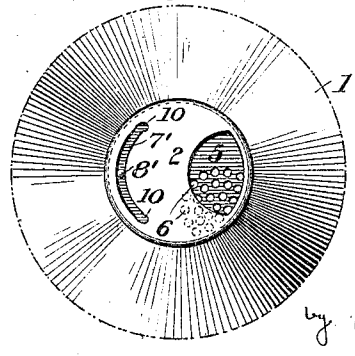


Fig. 5.



Witnesses:
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PHOTO LITHOGRAPHED BY SACHETT & WILHELMS LITHO. & PTG. CO. NEW YORK.

No. 791,011. Patented May 30, 1905.

UNITED STATES PATENT OFFICE.

ANNA B. CROUSE, OF LAKEWOOD, NEW JERSEY.

TOP FOR POWDER-CANS.

SPECIFICATION forming part of Letters Patent No. 791,011, dated May 30, 1905.

Application filed May 5, 1904. Serial No. 206,555.

To all whom it may concern:

Be it known that I, ANNA B. CROUSE, a citizen of the United States, residing at Lakewood, in the county of Ocean and State of New Jersey, have invented certain new and useful Improvements in Tops for Powder-Cans, of which the following is a specification.

This invention is a top for powder-cans provided with a discharge-opening and a rotary cut-off therefor, said opening being so located as to permit the complete discharge of the contents of the can and said cut-off being constructed to prevent too free discharge.

For a full understanding of my invention reference is made to the accompanying drawings, wherein—

Figure 1 is a longitudinal section of the upper portion of the can constructed in accordance with my invention. Fig. 2 is a plan view thereof. Fig. 3 is a perspective view of the rotatable disk shown in Figs. 1 and 2 viewed from beneath. Fig. 4 is a longitudinal section of a slightly-modified form, and Fig. 5 is a plan thereof.

My improved top for powder-cans comprises an evenly-tapered and preferably conical portion 1 and a cover-plate 2, which is preferably integral with the portion 1. Said cover-plate is provided with an opening 4, through which the contents of the can may be discharged. Inside of the rim of the cover-plate 2 is formed a shallow annular recess 3, constructed to receive and support the revoluble disk 5. Said disk 5 is provided with perforations 6, covering an area approximately equal to that of the opening 4 in the cover-plate. The rim of the cover-plate is cut away, as indicated at 7, Fig. 2, to form a slot, through which extends a pin or projection 8 from the disk 5, said projection affording a convenient means for rotating the disk. In order to seal the slot 7 at all times, I provide, as shown at 9, a reflexed strip, preferably integral with the disk 5 and extending around the periphery thereof for a distance on either side of the projection 8 substantially equal to the entire length of the slot 7. When the disk is in position within the cover, this strip serves to prevent all leakage of the contents of the can through the slot 7, as will be clear from Fig. 1. The length of the slot 7 is sufficient to permit such rotation of the disk 5 as will bring the perforated area into coincidence with the opening 4 for the open position of the can or entirely out of coincidence therewith for the closed position.

The modification shown in Figs. 4 and 5 differs in that the slot 7′ in the form of an arc is provided in the cover 2, through which slot the pin 8′ on the disk 5 extends upwardly through the cover. In this construction no sealing-strip is required. The aperture 4 and the perforated area of the disk should in this case be so formed that when the can is in its closed position the perforated area of the disk will not extend under the slot. I have indicated at 10, Fig. 5, slight irregularities in the curvature of the slot of such form as to frictionally hold the pin 8′ against accidental displacement when the cut-off is in its open or closed position. A precisely similar device may be applied in the construction shown in Fig. 1.

The construction of the can may be otherwise modified, and I do not limit myself to the precise forms herein illustrated and described. It will be noted that in each form the can is provided with an evenly-tapered and preferably conical or frusto-conical top, at the contracted portion or apex of which the cut-off is located. By this construction I am enabled to insure the complete discharge of the contents of the can when desired. In order to avoid too rapid or irregular discharge, the disk 5 is provided with the perforations 6 above described, which will vary in number and size according to the character of the material to be delivered. While I have shown the cover-plate as provided with a single aperture and the disk as perforated, I may reverse this construction, the cover-plate being multiperforated and the disk having a single opening. However, I consider the construction shown to be preferable, since a free opening is provided in the cover-plate and there is less liability of material collecting between the cover and the disk and interfering with the movement of the latter or

sifting out when the cut-off is in its closed position.

I claim—

1. A top for powder-cans, comprising an unobstructed frusto-conical portion, and a rotary cut-off at the contracted end thereof, whereby a complete and free discharge of the material is permitted, substantially as described.

2. A top for powder-cans, comprising an evenly-tapered portion, and a rotary cut-off at the contracted end thereof, said cut-off comprising an apertured cover and a perforated disk carried by the rim of said cover and rotatable within it, substantially as described.

3. A top for powder-cans, comprising an evenly-tapered portion, and a rotary cut-off at the contracted end thereof, said cut-off comprising an apertured cover and a perforated disk revolubly supported within said cover, substantially as described.

4. A top for powder-cans, comprising an evenly-tapered portion, a rotary cut-off at the contracted end thereof, said cut-off comprising an apertured cover and a perforated disk rotatable within said cover, a slot in said cover, and a pin secured to said disk and extending through said slot, substantially as described.

5. A top for powder-cans, comprising an evenly-tapered portion, a rotary cut-off at the contracted end thereof, said cut-off comprising an apertured cover and a perforated disk rotatable within said cover, a slot in said cover, a pin secured to said disk and extending through said slot, and locking devices near the ends of said slot, substantially as described.

6. A top for powder-cans having a contracted portion, an apertured cover for said contracted portion, and a perforated disk revolubly supported within said cover, substantially as described.

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

ANNA B. CROUSE.

Witnesses:
BENJAMIN E. FOWLER,
JAMES H. CARTON.