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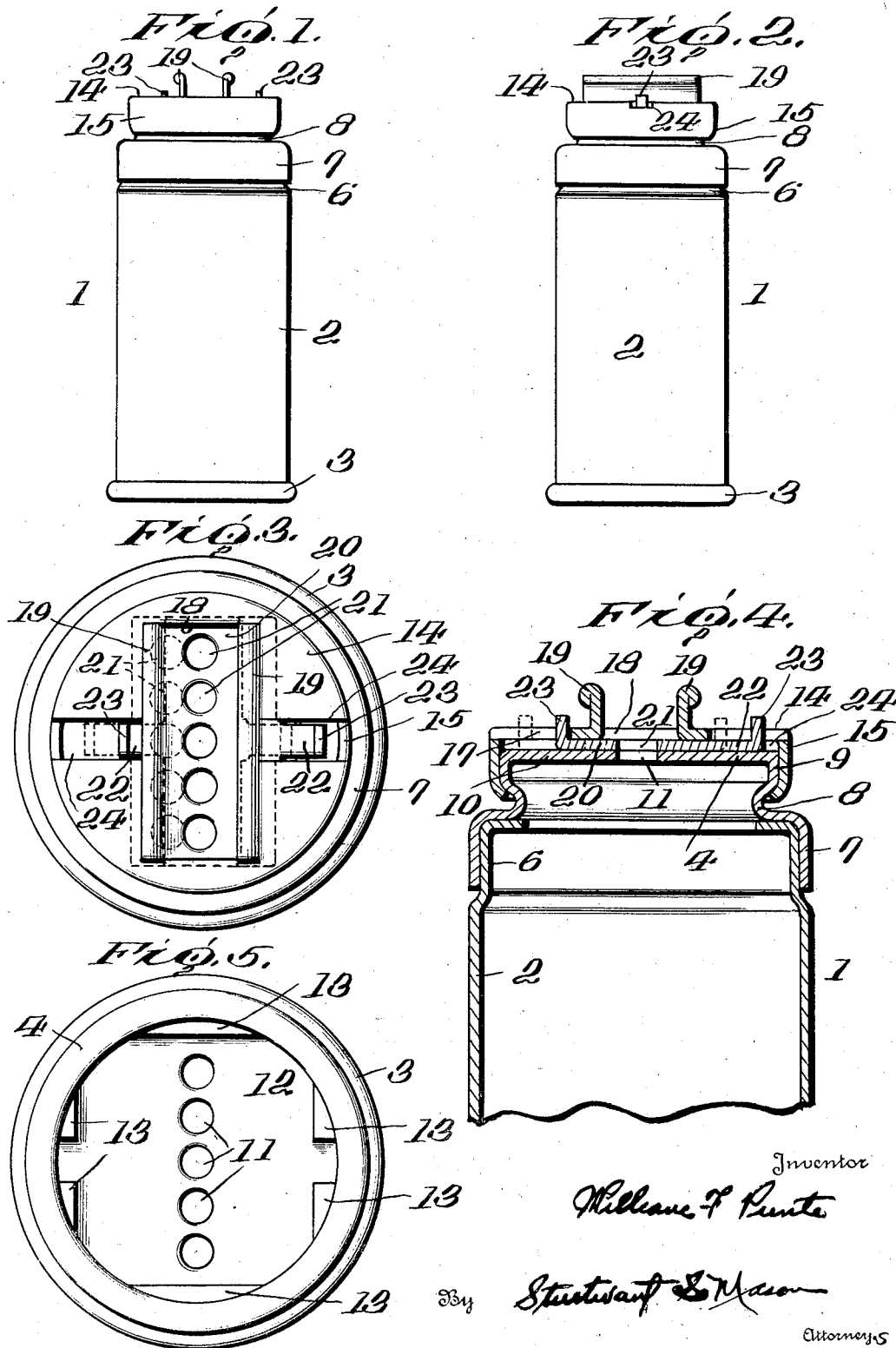
W. F. PUNTE

2,026,433

TOOTH POWDER CONTAINER

Filed Sept. 21, 1934

2 Sheets-Sheet 1



Dec. 31, 1935.

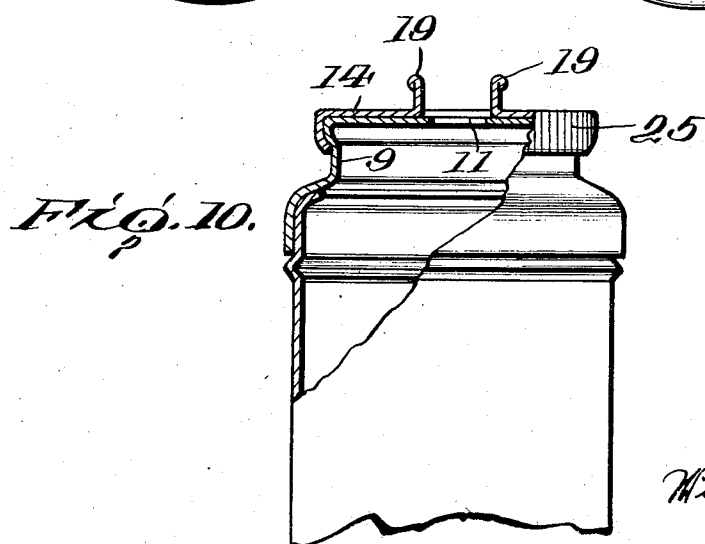
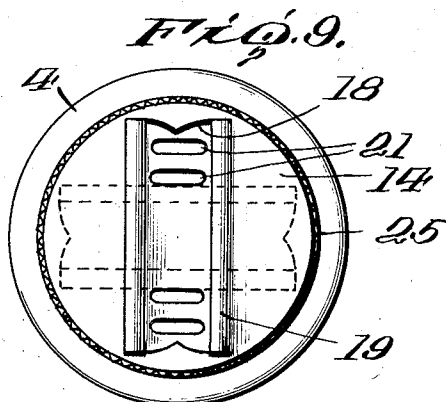
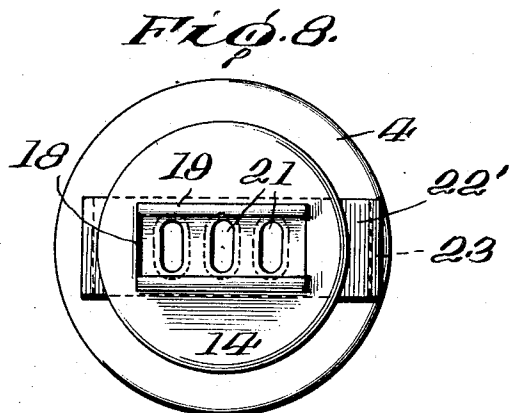
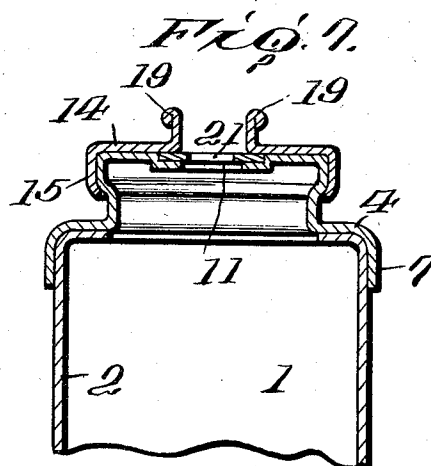
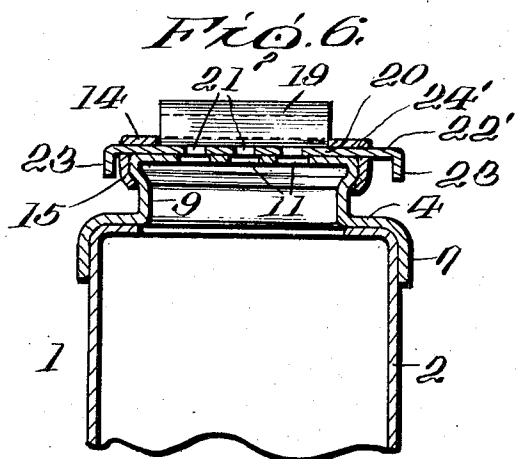
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TOOTH POWDER CONTAINER

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

2,026,433

TOOTH POWDER CONTAINER

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Application September 21, 1934, Serial No. 744,999

4 Claims. (Cl. 221—62)

The invention relates to new and useful improvements in a container for dispensing tooth powder and the like.

An object of the invention is to provide a container of the above type with a cover having a central opening therethrough with upstanding integral parallel guides at the sides thereof adapted to receive therebetween a brush upon which powder may be dispensed.

A further object of the invention is to provide means slidable in respect to the opening between the brush guides for covering and uncovering the dispensing opening therein.

These and further objects will be in part obvious and will be in part more fully disclosed.

Referring to the drawings:

Figure 1 is a view in side elevation of the improved container looking endwise of the brush guides.

Figure 2 is a similar view taken in side elevation looking sidewise of the brush guides.

Figure 3 is a top plan view of the improved container and showing in dotted lines the movement of the control slide.

Figure 4 is a vertical sectional view taken centrally through a container in a plane at right angles to the brush guides and showing in dotted lines the control slide moved to a position for closing the openings.

Figure 5 is a top plan view of the container with the cover and control slide removed.

Figure 6 is a vertical sectional view taken parallel to the brush guides of a slightly modified form of container.

Figure 7 is a vertical sectional view taken crosswise of the brush guides of the container shown in Figure 6.

Figure 8 is a top plan view of the container shown in Figure 6.

Figure 9 is a top plan view of a further modified form of container.

Figure 10 is a view partly in side elevation and partly in section of the modified form of container shown in Figure 9.

The invention relates broadly to a container for dispensing tooth powder and the like. The improved container consists of a body portion having ends attached thereto. One of said ends has a reduced extension or neck portion which is closed at the outer end, except for a series of dispensing openings formed therethrough. The reduced neck portion is provided with an annular groove. Associated with this end portion is a cover having a depending skirt which is adapted to be bent inwardly at the lower edge thereof into said groove in the neck portion for securing the cover to said neck portion of the container. The cover is also provided with a central opening therethrough and has upstanding integral parallel guides at the sides of the opening therein

which are adapted to receive therebetween a brush. Powder may be dispensed through the openings in the end and the opening between the brush guides onto the brush when placed between the parallel guides. A control means is provided for covering and uncovering these openings in the cover and in the end. In one form of the invention the control means consists of a slide which is free to move in suitable guideways between the cover and the end. By shifting the slide, the openings may be uncovered to dispense the contents of the container and thereafter closed to keep the contents fresh. In another form of the invention the cover is bodily rotated to bring the opening therein into and out of registry with the openings in the end.

Referring more in detail to the drawings and particularly to Figures 1 to 5 inclusive in which the preferred form of improved container for dispensing tooth powder is illustrated, a container 1 is shown having a body portion 2 with ends 3 and 4 secured thereto. The body portion and the ends of the container are preferably made of metal and the end 3 which forms the bottom of the container is secured to the container body by the usual form of double seam. The upper end of the body portion of the container is slightly reduced in diameter as indicated at 6 and the upper end 4 is provided with a depending skirt portion 7 which is of such diameter as to tightly fit over the reduced portion 6 of the body portion. If so desired, solder or other well known means may be employed to insure a tight joint between the end and the reduced portion of the container body. The reduced portion of the end is provided with a circumferential groove 8, thus producing a portion 9 above the groove which is of greater diameter than the groove. The end 4 is integrally closed at the top portion thereof as indicated at 10, and this closure end 10 is provided with spaced dispensing openings 11 lying in a line diametrically of the end portion 10. The top portion of the end has a central depressed portion 12 of such shape as to leave upstanding bosses 13 spaced at intervals around the periphery of the outer edge thereof.

A cover 14 having a depending skirt portion 15 is permanently attached to the end. The skirt 15 is adapted to fit over the neck portion 9 of the end and is secured thereto by turning the lower edge thereof into the groove 8 in the end. The cover 14 is integrally closed at the top thereof and is adapted to rest on and be supported by the upstanding bosses 13, thereby forming a space as indicated at 17 between the upper face of the central depressed portion 12 of the end and the underside of the top of the cover. The cover has a rectangular central opening 18 in the top thereof, the metal displaced by forming the opening being bent upwardly at the sides of said opening

to form integral parallel guides 19. The opening between the guides is adapted to overlie the openings 11 in the end and the guides are so spaced as to receive a brush therebetween in order that powder may be dispensed from the container onto the brush.

A slide 20 having dispensing openings 21 corresponding to the openings 11 in the end is located in the space 17 between the end 4 and the cover 14 and is adapted to be freely moved by hand to cover or uncover the openings in the end. The slide is preferably rectangular in shape and large enough to overlie the opening 18 in the top of the cover. Centrally disposed of the slide are extensions 22 which are upturned at the ends thereof to form portions 23 which may be readily grasped by the hand for moving the slide to bring the openings therein into or out of alignment with the openings in the end. Suitable slots 24 are cut through in the top of the cover 14 through which the portions 23 extend. The slots 24 are of such width in respect to the width of the portions 23 which extend through the cover as to prevent the slide from turning, thereby keeping the openings therein in substantial axial alignment with the opening between the guides and the openings in the end. The length of the slots 24 inwardly toward the center of the cover is sufficient as to allow the portions 23, which limit the lateral movement of the slide, to abut at the inner ends thereof, the movement being greater than the diameter of the openings in the end so that the slide in closed position will completely cover the openings in the end and protect the contents of the container.

In the modified form of dispensing container shown in Figures 6, 7 and 8 of the drawings, the slide 20 is adapted to be moved longitudinally of the openings in the end. The central depression 12 in the top of the end is in the form of a narrow recess which extends longitudinally of the openings therein. The slide 20 is adapted to rest within this recess and the extensions 22' thereof protrude through suitable slots 24' at the edges of the cover. The end portions 23 of the slide are downturned in this form of the invention and afford suitable projections to be grasped by the hand for moving the slide to closed or open position.

In the further modified form of the invention shown in Figures 9 and 10 of the drawings, there is no slide for covering and uncovering the openings in the cover and the end. The cover 14 is loosely attached by its depending skirt portion 15 to the neck portion 9 of the end, and by suitable knurling 25 around the skirt portion thereof, is adapted to be freely rotated in respect to the neck portion by hand. The openings 11 in the end are spaced further apart from the center of the container than the width of the slot 18 in the cover so that the turning of the cover 180 degrees brings the openings therein out of registry and closes the openings in the end of the container.

From the above it will be apparent that an improved dispensing container has been devised which is simple in construction and cheap to manufacture. When the dispensing openings are open, a desired amount of powder may be dispensed across the full length of a brush without undue waste because of the confinement of the brush within the integral brush guides provided therefor, after which the container may be quickly closed to preserve the freshness of the powder within.

It is obvious that minor changes in the details of construction may be made without departing from the spirit of the invention as set forth in the appended claims.

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

1. A container for dispensing tooth powder and the like comprising a body portion, ends attached thereto, one of said ends having a reduced neck portion and a series of dispensing openings in the top portion thereof lying in a line diametrically of the end, a cover having a depending skirt secured to the reduced neck portion of said end, said cover having a central opening therethrough with upstanding integral parallel guides at the sides thereof adapted to receive therebetween a brush, said opening in the cover being adapted to register with the openings in the end.

2. A container for dispensing tooth powder and the like comprising a body portion, ends attached thereto, one of said ends having a reduced neck portion and a series of dispensing openings in the top portion thereof lying in a line diametrically of the end, a cover having a depending skirt secured to the reduced neck portion of said end, said cover having a central opening therethrough with upstanding integral parallel guides at the sides thereof adapted to receive therebetween a brush, said opening in the cover being adapted to register with the openings in the end, and a control means movable between the cover and the end for covering and uncovering the openings in the end.

3. A container for dispensing tooth powder and the like comprising a body portion, ends attached thereto, one of said ends having a reduced neck portion and a series of dispensing openings in the top portion thereof lying in a line diametrically of the end, a cover having a depending skirt secured to the reduced neck portion of said end, said cover having a central opening therethrough with upstanding integral parallel guides at the sides thereof adapted to receive therebetween a brush, said opening in the cover being adapted to register with the openings in the end, a slide having projecting portions with upturned ends movably supported between the cover and the end for covering and uncovering the openings in the end, said cover skirt having openings through which the projecting portions of the slide extend, said slide being provided with openings adapted to register with the openings in the end so that said slide may be used for covering and uncovering said openings.

4. A container for dispensing tooth powder and the like comprising a body portion, ends attached thereto, one of said ends having a reduced neck portion and a series of dispensing openings in the top portion thereof, a cover having a depending skirt secured to the reduced neck portion of said end, said cover having a central opening therethrough with upstanding integral parallel guides at the sides thereof adapted to receive therebetween a brush, said cover being rotatably attached to the end and said cover and end having the openings therein so disposed that when the cover is in one position, the openings will register and when the cover is in another position, the openings will be closed.