

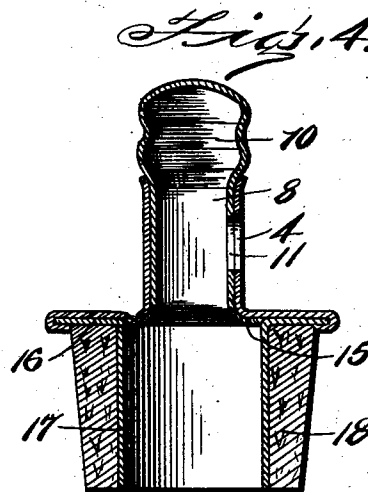
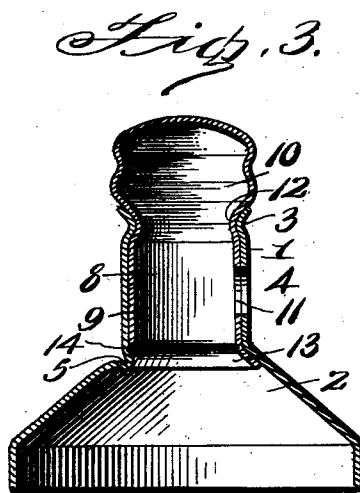
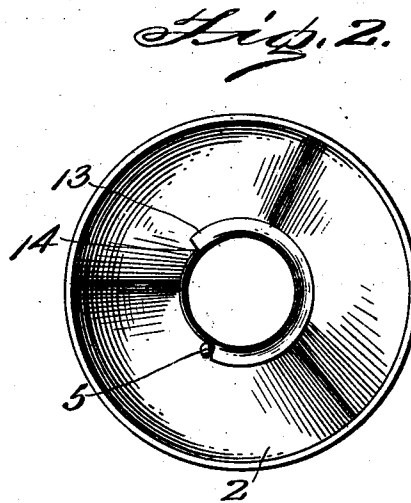
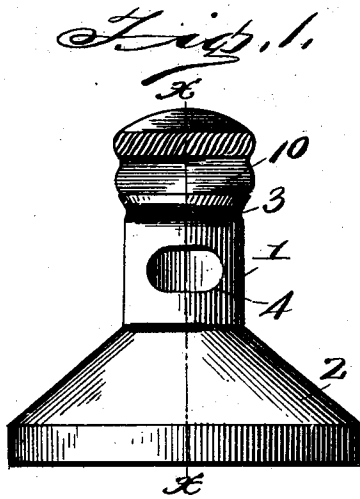
No. 755,299.

PATENTED MAR. 22, 1904.

H. B. KENT.
POWDER BOX.

APPLICATION FILED JAN. 14, 1904.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

HENRY B. KENT, OF NEW BRUNSWICK, NEW JERSEY.

POWDER-BOX.

SPECIFICATION forming part of Letters Patent No. 755,299, dated March 22, 1904.

Application filed January 14, 1904. Serial No. 189,036. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. KENT, a citizen of the United States, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented certain new and useful Improvements in Powder-Boxes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in tops and closures for boxes, cans, bottles, or other containers for tooth-powder or the like.

The object of my invention is to improve and simplify the construction of devices of this character, and thereby render them more durable and effective in use and less expensive to manufacture.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation of a top and closure for a can, box, or other similar container constructed in accordance with my invention. Fig. 2 is a bottom plan view of the same. Fig. 3 is a vertical sectional view taken on the line *x x* of Fig. 1. Fig. 4 is a vertical sectional view through a bottle stopper or closure, showing another application of my invention.

Referring more particularly to Figs. 1, 2, and 3 of the drawings, the numeral 1 denotes a tubular shank or neck upon a flaring body 2, which is adapted to be secured in any suitable manner upon the top of a can, box, or similar container. The said tubular neck is formed with an inwardly-projecting annular bead or rib 3 adjacent to its open upper end and an elongated circular discharge-opening 4 in its side. The said flaring body portion is formed adjacent to the neck with an indentation, which forms an inwardly-projecting stop 5 upon the under or inner side of the same.

Mounted to turn or rotate within the neck 1 is a cap 8, comprising a cylindrical body portion 9, disposed within said neck and snugly engaging the same, and a head or en-

largement 10, formed upon the upper end of the said body portion 9 above the top of the neck and providing a knob or finger-piece by means of which the cap may be readily turned. The body portion 9 of the cap is formed with a discharge-opening 11, similar in shape to the said opening 4 in the neck 1, with which it is adapted to register when the cap is turned to the proper point. The upper portion of the cylindrical body 9 adjacent to its head 10 is formed with an annular groove 12 to receive the bead or rib 3 upon the neck, and the lower open end of the said body 9 is flared or turned outwardly to form a flange 13, which bears against the under or inner side of the flaring body portion 2. The said flange 13 has a portion cut away, as at 14, to coact with the stop 5, as clearly shown in Fig. 2, to limit the rotation or turning movement of the cap. It will be understood that when said cap is turned so that the stop 5 engages one end of said flange 13 the openings 4 and 11 in the neck and cap, respectively, will register with each other to permit the contents of the can or box to discharge through the same; and when turned so that said stop engages the other end of said flange the said openings will be out of alignment or register, and hence closed. The flaring of the lower end of the cap to form the flange 13 not only retains the cap in the neck and provides means for limiting its movement therein, but also prevents the powder or other contents of the container from working up between the neck and cap and coming out of the top. This loss of the powder, caused by it sifting between said turning parts, is further prevented by the frictional engagement of the bead 3 in the neck with the groove 12 in the cap, and said bead and groove also prevent the removal of the cap from the neck. It will be understood that the groove and bead and also the flange 13 are formed after the cap is inserted in the neck.

In Fig. 4 of the drawings I have illustrated the application of my invention to a stopper for tooth-powder bottles or the like. The construction and operation of the cap and the upper portion of the neck are the same as in the form of my invention just described, and the parts are correspondingly numbered.

The neck 1 has at its lower end a laterally-projecting annular flange 15, which is crimped around the edge of an annular flange 16 on a tubular shank 17, which is surrounded by a packing 18, of cork or the like. This embodiment of my invention forms an ordinary plug-stopper, the use of which is apparent.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In a closure for containers of the character described, the combination of a neck portion having a discharge-opening, and a turning cap within the neck portion adapted to control said discharge-opening, the inner end of said cap being expanded or flared and having a portion cut away to coact with a stop upon said neck to limit the movement of said cap, substantially as described.

2. In a closure for containers of the char-

acter described, the combination of a neck portion having a discharge-opening, an internal annular bead and an internal stop, a turning cap within said neck adapted to control said discharge-opening and having an annular groove to coact with said bead, and an annular flange formed by expanding or flaring its inner end within said neck, said flange having a portion cut away to coact with said stop to limit the turning movement of said cap, substantially as described.

3. In a can or bottle top, the combination of a neck portion formed upon a flaring body portion and having a discharge-opening, an integral stop formed in said flaring body portion, a turning cap within said neck adapted to control its discharge-opening and formed with a flaring flange to bear against said flaring body portion, said flange having a portion cut away to coact with said stop to limit the movement of said cap, and a coacting annular groove and bead formed in said neck and cap, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HENRY B. KENT.

Witnesses:

J. F. CROUSEY,

JOHN BAMMAN.