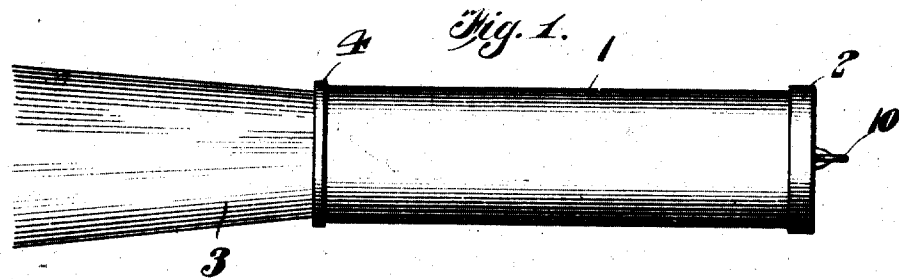
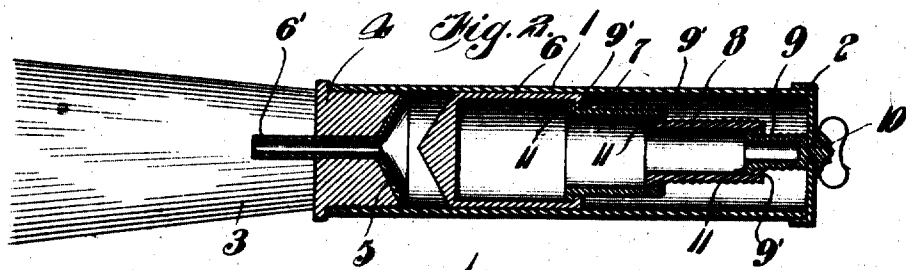
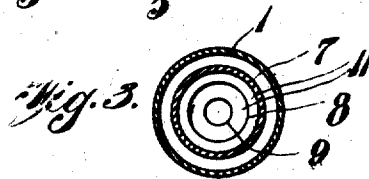
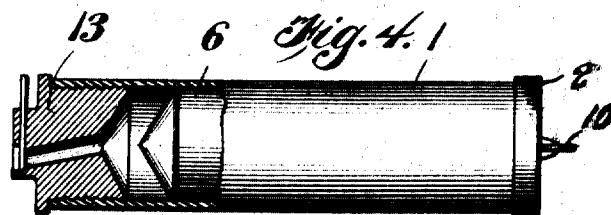
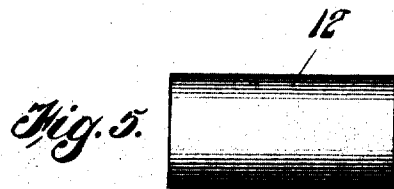


F. HESS.
SOAP DISPENSING DEVICE.
APPLICATION FILED MAY 19, 1916.

1,249,957.

Patented Dec. 11, 1917.



Witnesses

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SOAP-DISPENSING DEVICE.

1,249,957.

Specification of Letters Patent.

Patented Dec. 11, 1917.

Application filed May 19, 1916. Serial No. 98,596.

To all whom it may concern:

Be it known that I, FREDERICK HESS, a citizen of the United States, residing at Sioux Falls, in the county of Minnehaha and State of South Dakota, have invented new and useful Improvements in Soap-Dispensing Devices, of which the following is a specification.

This invention relates to improvements in dispensing devices and has particular application to a shaving brush wherein the dispensing device may be incorporated in the handle of the brush to supply soap thereto.

In carrying out the present invention, it is my purpose to provide a dispensing device adapted to dispense soap, tooth paste, or other plastic substances, which has a maximum capacity relative to the size of the dispensing device.

A further object of the present invention is to provide a dispensing device of durable nature which may be operated conveniently and with a minimum amount of exertion.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the claims.

In the accompanying drawing:

Figure 1 is a view in side elevation of a shaving brush constructed in accordance with the present invention.

Fig. 2 is a longitudinal sectional view therethrough.

Fig. 3 is a cross sectional view through the same.

Fig. 4 is a longitudinal sectional view showing the brush head removed from the handle and the handle employed as a paste dispensing tube.

Fig. 5 is a view in side elevation showing the stick of shaving soap.

Referring now to the drawing in detail, 1 designates a hollow handle preferably of tubular form and has one end interiorly screwthreaded and the other end closed by a cap or end plate 2. 3 designates a brush having the head 4 exteriorly screwthreaded to engage in the threaded end of the tube 1 so that the brush may be connected to the tube and detached therefrom. Formed in the end of the head 4 of the brush within the tube 1 is a concavity and seated in such concavity is a plate 5 similar in shape to the concaved end of the head and connected

to the plate 5 centrally thereof is one end of a tube 6' extending through the head 4 and having the other end projecting into the bristles of the brush. Within the handle 1 and disposed adjacent to the other end thereof is a plunger composed of telescopic sections 6, 7, 8 and 9, arranged one within the other and each having the outer end thereof formed with an inwardly projecting flange 9' threaded onto the adjacent section. The innermost section 9 of the plunger has the outer end thereof connected to a thumb piece 10 projecting through an opening in the end of the tube and capable of rotary movement to impart a similar motion to the inner section 9. The inner end of each section 7, 8 and 9 is formed with a stop flange 11 adapted to engage the flange 9' when the sections are moved outwardly of one another and these stop flanges act to limit the turning of one section relatively to another in the operation of the plunger.

The sections of the telescopic plunger are arranged one within the other at the end of the handle 1 remote from the brush head 5, and a cartridge 12 of shaving soap placed in the space between the inner end of the plunger and the remote end wall of the handle. When it is desired to use the brush, the thumb nut 10 is rotated and in the initial rotation of the thumb nut the outer section 9 revolves relatively to the other sections with the effect to force all of the other sections, as a unit, toward the other end of the handle, thereby forcing the shaving soap through the tube 6' into the bristles of the brush. In the continued use of the brush, the stop flange 11 on the inner end of the section 9 engages the flange 9 on the outer end of the flange 8, thereby locking the sections 9 and 8 together for simultaneous movement so that the sections 7 and 6 may be moved as a unit along the section 8 and when the flange 9 on the outer end of the section 7 engages the stop flange 11 on the inner end of the section 8, the section 7 is locked to the section 8 so that the section 6 will move along the section 7 in the rotation of the sections 9, 8 and 7 under the action of the thumb piece 10.

If desired, the brush head 4 may be detached from the tube and a valved head 13 threaded onto the tube. When the valve in the head 13 is opened and the plunger operated any paste or powder in the handle

will be forced outwardly through the head 13 past the valve. When the brush head is detached from the handle and the valved head 13 applied thereto, the handle may be employed to dispense tooth powder, paste or any other desired material.

While I have herein shown and described the preferred form of my invention by way of illustration, I wish it to be understood that I do not limit or confine myself to the precise details of construction herein described and delineated, as modification and variation may be made within the scope of the claims and without departing from the spirit of the invention.

I claim:

1. A device of the character described comprising a hollow cylindrical casing having a closed end and a removable outlet end, a plunger adapted to slide in said cylinder, a recess formed in said plunger and having screw threads formed therein, a series of stepped bushings having internal and external screw threads formed thereon, the internal screw threads of one bushing being engageable with the corresponding outer screw threads of the next bushing, and the external screw threads of the largest bushing being engageable with said internal screw threads on said plunger, a screw threaded stem mounted for rotation on said casing and engaging the internal screw threads of the smallest bushing, flanges formed upon the screw threaded parts engageable with

the flanges of the adjacent parts for preventing disengagement thereof when the parts are in extended position relative to each other, and means without the casing for rotating said stem.

2. A device of the character described comprising a hollow cylindrical casing having an outer open end and an inner closed end, a plunger within said casing comprising a series of stepped telescopic sections, the outer section thereof having its outer end closed and having an internally projecting flange formed at its inner end, the internal periphery of said flange having internal screw threads formed thereon, the inner section of said series having its inner end mounted for rotation on the closed end of said casing and having external screw threads formed thereon and having an externally projecting flange formed at its outer end, the intermediate sections of said series having external screw threads formed thereon and having externally projecting flanges formed at their outer ends and having internally projecting flanges formed at their inner ends, the internal peripheries of said internal projecting flanges of the intermediate sections being formed with internal screw threads adapted to be engaged by the external screw threads of the next section, and means without the casing for rotating said inner section.

In testimony whereof I affix my signature.
FREDERICK HESS.