E. RIORDAN.

DISPENSING DEVICE.

APPLICATION FILED SEPT. 23, 1911.

1,074,463.

Patented Sept. 30, 1913.

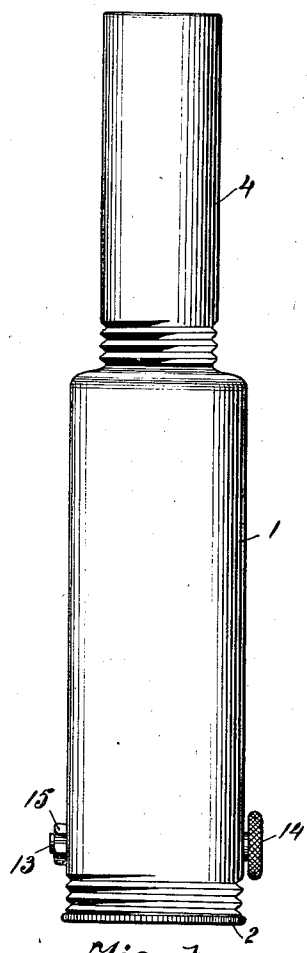

Fig. 1.

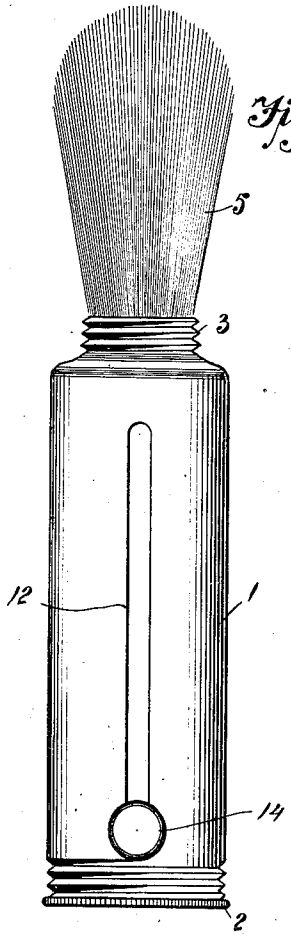

Fig. 2.

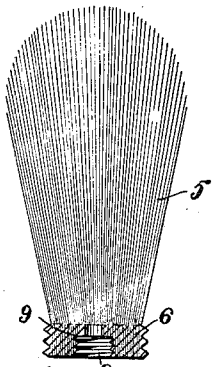

Fig. 4.

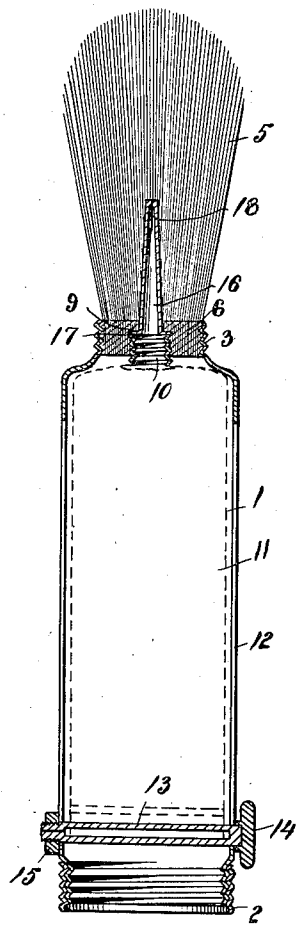

Fig. 3.

Witnesses:-

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UNITED STATES PATENT OFFICE.

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DISPENSING DEVICE.

1,074,463. Specification of Letters Patent. Patented Sept. 30, 1913.

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To all whom it may concern:

Be it known that I, EDWARD RIORDAN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Dispensing Devices, of which the following is a specification.

This invention relates to brushes and more particularly to fountain shaving brushes wherein a collapsible tube containing soap paste or other semi-solid substance is used.

The object of this invention is the provision of a simple and efficient device of this character which is compact for traveling purposes and in which the soap containing tube may be readily collapsed.

A further object of the invention is the provision of a novel tube collapsing means which can be readily applied to the tube and detached therefrom when the tube has been emptied.

Further objects of this invention will appear as the following specific description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a side elevation of the complete device. Fig. 2 is a similar view taken at right angles to Fig. 1 showing the cap removed. Fig. 3 is a longitudinal sectional view. Fig. 4 is an enlarged sectional view with the dispensing nipple removed from the brush head.

Referring more particularly to the drawing, 1 represents a casing which is threaded at its lower end to receive a closing cap 2 and is reduced and threaded at its upper end, as shown at 3, to receive a closing cap 4. The cap 4 is in the form of a tube with one end closed so as to encompass the bristles 5 when the device is fixed for travel. The bristles 5 are secured in the brush head 6 which is externally threaded so as to engage internal threads upon a reduced portion 3 and is provided with a central aperture 7 which is enlarged and threaded as shown at 8 to produce a shoulder 9 and to receive the threaded nipple end 10 of an ordinary collapsible tube 11.

The casing is slotted on opposite sides, as shown at 12, to receive a split bar or rod 13 having a knurled button 14 on one end and a nut 15 threaded upon its opposite end and adapted to hold the separate legs of the split bar together. In applying the bar 13 to the tube, the nut 15 is first removed and the bar passed through one of the slots so as to straddle the flat end of the tube and is then passed through the opposite slot and has the nut applied, as shown in Fig. 3. As this bar 13 is rotated in either direction, it will wind up the tube and force the contents thereof through the nipple 10 into a flexible discharge nipple 16. This nipple is provided with an annular flange 17 at its base which is adapted to seat against the shoulder 9 and be held in position thereagainst by the nipple 10. The outer end of the nipple projects into the bristles 5 and is provided with a sleeve closing slot 18 which automatically opens as the soap paste is forced through the nipple and automatically closes when the pressure is relieved thereon.

By the use of a device of this character, it will be readily seen that all that is necessary to do is to dip the bristles in water and squeeze the tube sufficiently by rotating the rod 13 so as to get a sufficient quantity of the soap paste on the bristles. The bristles are then rubbed on the face in the usual manner and the lather is then formed.

While the invention illustrated herein is shown adapted to a shaving brush, it will be well understood that it may also be equally applicable in other forms of brushes, such as tooth or paint brushes. In each instance, the nipple 16 gives sufficiently to prevent any damage to the face, teeth, or surface being operated upon and the rod 13 may be simply and conveniently connected or disconnected from the flexible tube. Furthermore, I do not wish to be limited to the use of the casing as the device may be utilized without the casing, the latter being simply used as a handle to manipulate the brush and to guide the rod, which latter action is unnecessary.

What is claimed is:—

The herein described device comprising a tubular casing open at both ends, one end of said casing being reduced and an internally threaded neck formed on said reduced end, a head removably threaded within said neck and having a centrally disposed aperture with its interior end expanded and threaded, a flexible tube having an outwardly projecting annular flange on one end adapted to engage the shoulder in said

aperture formed by the expanded portion and the opposite end projecting through the reduced portion of the aperture, said casing being adapted to receive a collapsible tube through the opposite end, the nipple of said collapsible tube being adapted to be threaded in said expanded portion to engage the flange of said flexible tube to press the same tightly against said shoulder, means to collapse said collapsible tube, and closing caps for the opposite ends of the casing.

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

EDWARD RIORDAN.

Witnesses:
I. R. KENNY,
W. P. DAWSON.