

997,676.

Patented July 11, 1911.

Fig. 1.

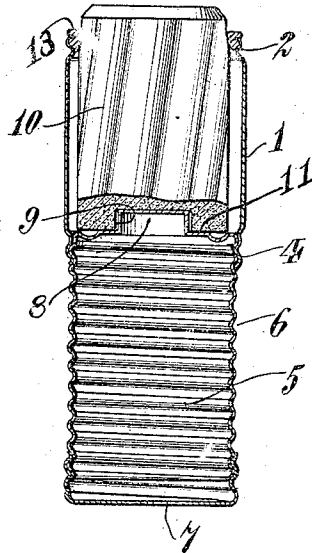


Fig. 2.

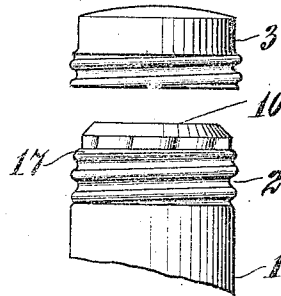


Fig. 3.

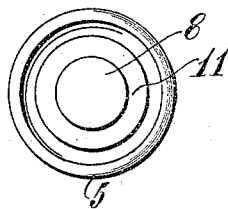


Fig. 4.

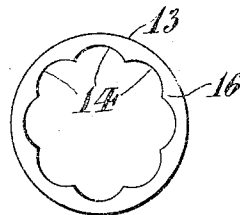


Fig. 5.

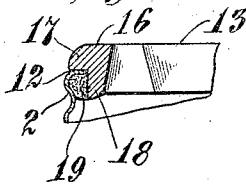
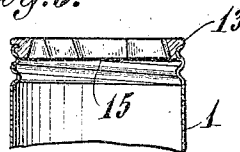


Fig. 6.



Witnesses:
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 Inventor
 By his Attorney *Ronald Day*

UNITED STATES PATENT OFFICE.

GEORGE M. IRWIN, OF YONKERS, NEW YORK, ASSIGNOR TO LIGHTFOOT SCHULTZ COMPANY, A CORPORATION OF NEW YORK.

SOAP-CONTAINER.

997,676.

Specification of Letters Patent.

Patented July 11, 1911.

Application filed February 7, 1911. Serial No. 607,027.

To all whom it may concern:

Be it known that I, GEORGE M. IRWIN, a citizen of the United States, and a resident of Yonkers, county of Westchester, and State of New York, have invented certain new and useful Improvements for Soap-Containers, set forth in the following specification.

This invention relates to improvements in extruding holders for stick shaving soap, such as described in United States Letters Patent 918,053 to G. M. Irwin. In holders of the type referred to the shaving stick is contained within an enveloping shell, only a small portion of its end projecting for application to the face of the shaver. Difficulty has been experienced in providing a satisfactory extruding mouth for this shell. Heretofore these holders have been provided with a sheet metal mouth providing the extrusion opening. Such a sheet metal mouth has the objection of abrading or cutting the face and in addition difficulty has been experienced in plating the cut edge of such a mouth and in consequence this edge was liable to corrode.

An object of the present invention is to overcome the above objections. To this end a bushing of non-corrosive material is formed with a smooth somewhat extensive outer surface and it is fixed into the top end of the extruding shell.

A further object of the invention is to provide for the positive centering of the stick to be extruded from the top shell of the holder.

The above and further objects of the invention will be clear from the following specification and claims which should be read in connection with the accompanying drawings which illustrate one embodiment of the invention, in which like numerals designate corresponding parts, and in which,—

Figure 1 is a vertical section through the extruding holder showing a stick of shaving soap in elevation and partly in vertical section; Fig. 2 is an elevation with parts broken away of the structure shown in Fig. 1; Fig. 3 is a plan view of the pusher-member; Fig. 4 is a plan view of the top shell; Fig. 5 is an enlarged detail vertical section showing the method of fixing the bushing to the top shell; and Fig. 6 is a vertical sec-

tion, with parts broken away, showing the top portion of the top shell with the stick of soap removed.

The top shell 1 is of spun sheet metal, open at both ends and having threads 2 at the top end to engage the threaded cap 3; and threads 4 at the bottom end to engage the interiorly telescoping bottom shell 5, provided throughout its length with threads 6 which serve to secure the threaded cap 7 to form a complete inclosure within the bottom shell 5. This inclosure is serviceable for containing a reserve stick of soap so that the bottom shell 5 may be termed a reservoir. The engaging ends of the bottom shell or pusher-member 5 and the soap stick 10 are formed with relatively embracing and embraced parts for the purpose of centering the soap stick and to extrude it without binding or buckling. The parts may be, a projecting part of circular cross-section, on one; and a pocket also of circular cross-section to fit, one the other. In the drawings they are shown as a projecting button 8 of circular cross-section for the pusher-member 5 and an embracing pocket 9 of circular cross-section in the bottom end of the soap stick 10. A ledge 11 encircles the button 8 for direct engagement with the end of the soap stick.

The soap stick 10 is preferably of twisted prismatic form, as shown having fluted sides and a uniform polygonal cross-section as defined in United States Patent 918,053 referred to above.

The top edge 12 for the shell 1 at the outer termination of the threads 2 is inturned.

A bushing 13 is formed as indicated in the drawings and is preferably cast from a non-corrosive alloy such as an alloy of lead and antimony. It provides a choked swaging extrusion mouth 14 having twisted corrugations 15 such that the cross section of said mouth is similar in outline to that of the cross section of the soap stick. The extrusion mouth 14 preferably flares downwardly as indicated in the drawings so that it grips the soap stick 10 most closely in the neighborhood of its outer face 16 which is smooth and rounded or beveled off to present a smooth surface to prevent the cutting or abrasion of the face of the shaver. The

downward flare of the mouth 14 also makes it possible to have the smallest or top dimension of the mouth 14 slightly smaller than the cross section of the soap stick 10 so as to insure a water-tight fit. The bushing 13 is provided with a circumferential lip 17 lapping over the inturned edge 12 of the shell 1 so that the inwardly projecting ring part 18 of the bushing 13 completes a ring-like pocket inside of the threads 2 which may be filled with a fusible material such as solder 19 to fix the bushing 13 in place.

The combined effect of the centering means 8 upon the pusher member 5 and the bushing 13 operates positively to center the soap stick 10 within the shell 1 and to keep it out of contact, throughout almost its entire extent, with the shell 1 so that no corrosion stains from the shell 1 can be formed on the stick 10.

When the pusher member 5 is screwed into the shell 1 the button 8 and ledge 11 both push and tend to rotate the stick 10 so that the same is pushed and screwed out of the extrusion mouth 14. It is this combined push or thrust and tendency to rotate which makes the twisted prismatic form of the soap stick particularly advantageous as it prevents any tendency to bind in the corrugations 15.

The extrusion bushing and centering button of this invention are of great advantage in extruding holders of the class described but are not necessarily limited to those for twisted prismatic sticks of soap.

What is claimed and what is desired to be secured by United States Letters Patent is:—

1. An extruding holder for a shaving soap-stick comprising, a top tubular shell of sheet metal open at top and bottom and of substantially greater diameter than said soap-stick; a pusher-member interiorly telescoping into said top shell from the bottom;

and a separate solid ring-shaped bushing of non-corrosive metal fixed in the top end of said tubular shell, having a smooth beveled face-engaging outer surface guarding the top terminal edge of said tubular shell and providing a choked swaging extrusion mouth with its cross-section similar in outline to that of the cross section of the said soap-stick and gradually decreasing in size a substantial amount from the bottom of the mouth to the top of the mouth.

2. An extruding holder for a shaving soap-stick comprising, a top tubular shell of sheet metal open at top and bottom and of substantially greater diameter than said soap-stick; a pusher-member interiorly threading into said top shell from the bottom end; a separate solid ring-shaped bushing of non-corrosive metal fixed in the top end of said tubular shell, having a smooth beveled face-engaging outer surface guarding the top terminal edge of said tubular shell and providing a choked swaging extrusion mouth with its cross-section similar in outline to that of the cross-section of the said soap-stick and gradually decreasing in size a substantial amount from the bottom of the mouth to the top of the said mouth; and a circular centering means formed on the end of said pusher-member to fit a cooperating end formation of the soap-stick, whereby the soap-stick will be positively kept out of contact with the walls of said tubular shell and will be thrust substantially centrally through said mouth upon the screwing up of said threaded pusher-member.

In witness whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

GEO. M. IRWIN.

Witnesses:

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L. ALTMAN.