June 10, 1952 CARL-AXEL BEIJBOM 2,599,805

DEVICE FOR DISPENSING MATERIAL FROM COLLAPSIBLE TUBES

Filed Aug. 16, 1950

FIG. 1

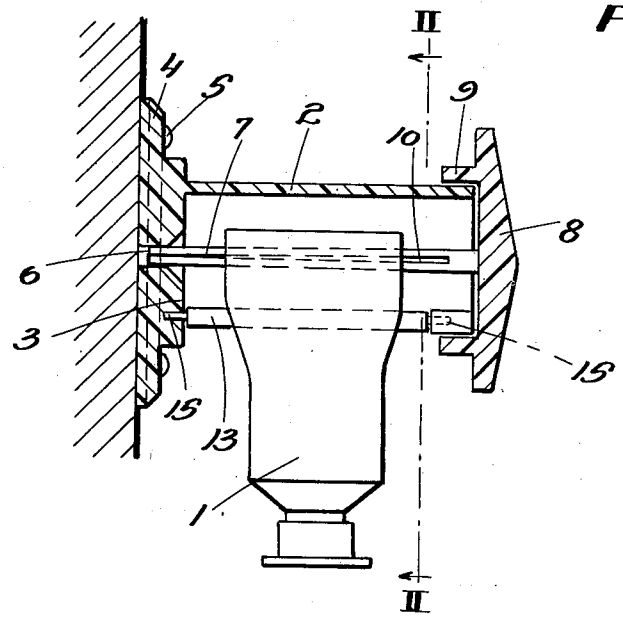
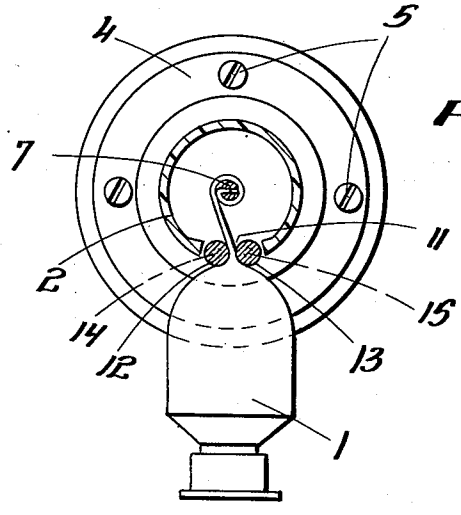


FIG. 2



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DEVICE FOR DISPENSING MATERIAL FROM COLLAPSIBLE TUBES

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3 Claims. (Cl. 222—98)

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This invention is directed to improvements in or relating to a dispensing device for dispensing tooth paste, shaving cream etc. from a collapsible tube. The general object of the invention is to provide an improved device of simple and inexpensive structure, in which the tube is convenient to mount and which is convenient and easy to operate when expelling the paste or cream from the tube.

Another object is to provide, in a device of the character referred to, means to securely fasten the flattened end of the tube to a revolubly mounted shaft. A further object is to provide in such a device roller means arranged relatively fixedly and engaging opposite sides of the flattened tube end so as to hold the tube in a fixed position, whether the tube is operated upon or not.

Other objects and advantages will appear from the accompanying drawing, where

Fig. 1 shows the devices as viewed in an axial direction, whereas Fig. 2 shows the same device on line II—II in Fig. 1.

The dispensing device shown in the drawing and intended for dispensing paste from a tube 1 comprises a cylindrical socket member 2 having an end wall 3, which has an annular flange 4 projecting radially outside of the socket member, said flange having holes for screws 5 by means of which the socket member may be secured to the wall of a lavatory or the like. In the centre of the end wall 3 there is a cylindrical or substantially cylindrical opening 6 providing a bearing for one end of a shaft 7 extending through the socket member, the outer end of said shaft being rigidly secured to a rotatory knob 8 disposed on the outer open end of the socket member and having an axial flange 9 fitting around the member to guide the knob on the member. The shaft 7 has a longitudinal slot 10 open at the free end of the shaft for the insertion of the flattened end of the tube. The opening 6 is of a somewhat smaller diameter than the shaft 7 and emerges into a conical recess made in the inner side of the end wall, said recess serving the purpose of facilitating the insertion of the end of the shaft into the opening 6 and also pressing together the resilient legs formed by the slot 10 so that these will clamp the end of the tube securely to the shaft when said shaft is in the opening 6.

Running from the outer free margin of the socket member to the end wall 3 is an axial slot 11 in the cylindrical casing of the socket member and in the margins of the slot there are cuts running from points located somewhat below the opening margin of the member to the end wall 3, into which cuts there are inserted pressing rollers 12, 13 having bearing pins 14 and 15, respectively, which are journalled in the upper transverse margins of the cuts and in the end wall. The pressing rollers extend with their sides facing one another in a line with the margins of that portion of the slot 11 which runs between the free margin of the member and the outer portions

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of the rollers. When mounting the tube, the knob and shaft are removed from the socket member, the end of the tube is inserted into the slot 10 of the shaft, whereupon the knob and shaft and the tube fixed thereto, after the end of the tube has been flattened by squeezing some paste forward in the tube, are inserted into the socket member in such a way that the flattened portion will lie between the pressing rollers 12, 13.

It is evident that the invention is not limited to the embodiment shown, but various modifications thereof are possible within the scope of the inventive idea as set forth in the enclosed claims.

What I claim and desire to secure by Letters Patent is:

1. A dispensing device for dispensing material from a collapsible tube, comprising a hollow cylindrical member, an end wall at one end of said member, means on said end wall adapted for fastening said device to a support at right angles thereto, said member having an axial slot therein open at its outer end for insertion of a flattened end of the tube axially of said member, a longitudinally slotted shaft forming two spaced resilient legs adapted for fastening the flattened outer end of the tube, said shaft being insertable with the tube and fixed thereto into said member, said end wall of said member having an opening constituting a bearing for the so inserted end of said shaft, a knob having an axial flange rigidly secured to said shaft at the other end of said shaft, said flange encompassing the free end of said member and rotatably mounting said shaft in said socket member, a pair of spaced apart rollers arranged parallel to said shaft and revolubly mounted in widened parts of the axial slot in said member and adapted for engaging opposite sides of said tube end, said knob on said shaft outside the open end of said member allowing turning said shaft to thereby expel material from the tube.

2. A dispensing device as claimed in claim 1 and wherein said opening in said end wall is of smaller diameter than that of said shaft, so as to press said resilient legs into tight engagement with the tube and when inserting the shaft into said opening.

3. A dispensing device as claimed in claim 2 and wherein said opening in said end wall is flared at the inside of said end wall to form a substantially conical recess to facilitate insertion of said shaft end into said opening.

CARL-AXEL BEIJBOM.

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The following references are of record in the file of this patent:

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