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E. L. CHOTT
DENTAL POLISHING CUP
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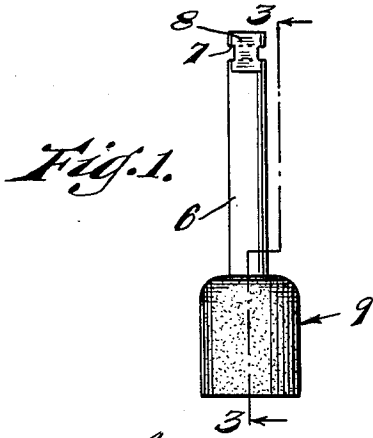


Fig. 1.

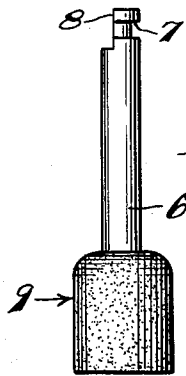


Fig. 2.

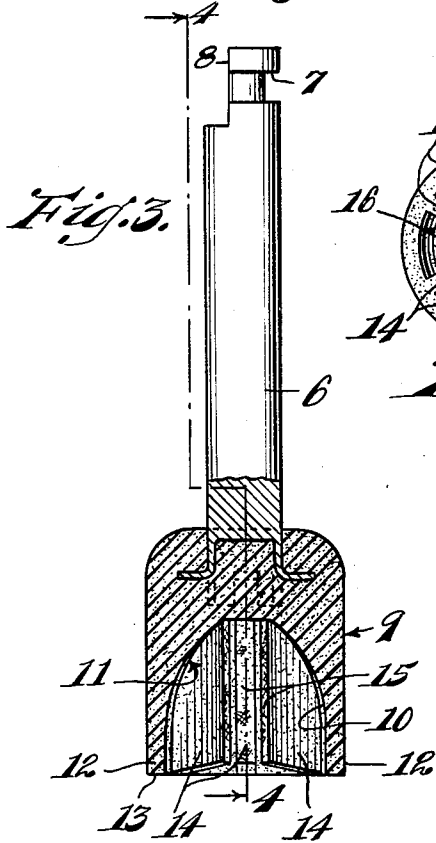


Fig. 3.

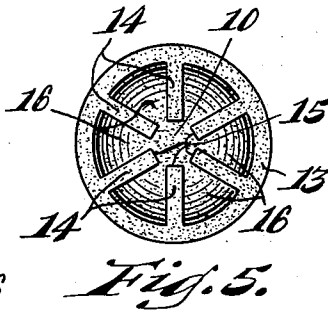


Fig. 5.

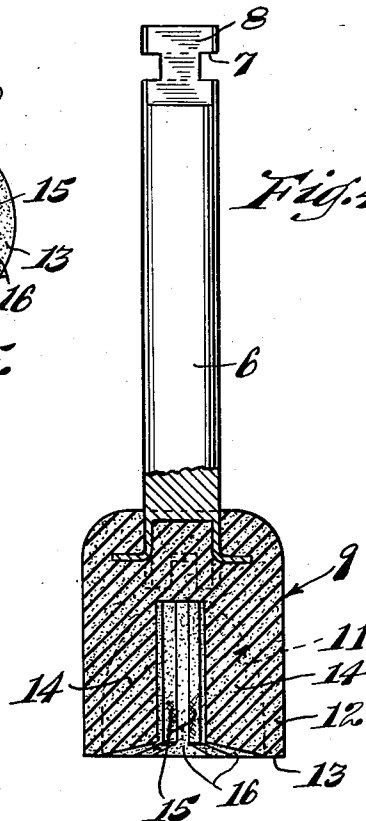


Fig. 4.

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UNITED STATES PATENT OFFICE

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DENTAL POLISHING CUP

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Application September 3, 1935, Serial No. 38,871

1 Claim. (Cl. 32—59)

This invention relates to dental polishing cups and more particularly to a ribbed rubber polishing cup for use in mechanical dentistry.

One of the objects of my invention is to provide a simple, practical, and inexpensive device of the character described.

Another object is to provide a dental polishing cup that is more efficient and is adapted to retain a dentifrice during the polishing operation.

Other objects and advantages will become apparent from the following specification, reference being had to the accompanying drawing, wherein:

Fig. 1 is an enlarged view of a polishing cup embodying my invention;

Fig. 2 is a similar view but at right angles to the view of Fig. 1;

Fig. 3 is an enlarged view, partly in section, of the same, taken on line 3—3 of Fig. 1;

Fig. 4 is a view similar to Fig. 3, with a section taken along the line 4—4 of Fig. 3; and

Fig. 5 is a bottom view of the cup.

Referring more particularly to the drawing, I show a shank 6 having at one end thereof a groove 7 by which the shank may be held in the hand piece of a dentist's instrument and a cut-away portion 8 to provide for rotation of the device. At the other end of the shank 6 and suitably secured thereto is a polishing cup 9 which is generally cylindrical in shape and preferably consists of soft rubber or other similar material. The cup 9 is provided with an interior chamber 10, the walls of which chamber have a generally arcuate form 11 and provide a thin cylindrical wall 12 adjacent the contact edge or rim 13. A plurality of ribs or webs 14 are secured to the inner side of the cup along the arcuate surface 11, these webs extending radially interiorly of the cup and having an elongated edge 15 adjacent the central axis of the cup 9 and shank 6. The webs 14 provide a plurality of cells or compartments 16 within the cup in which cells or compartments the dentifrice may be held or entrapped during the polishing operation.

The operation of the device is such that the dentifrice may be held within the cup, that is, within the cells or chambers 16, and when the cup is rotated under the action of the driving mechanism and a slight oblique pressure is applied, the ribs or webs 14 will be caused to rub against each other, resulting in a working of the dentifrice within the cup cells against the surface of the teeth which are being polished. The cup having a continuous outer wall and the rim 13, the loss of dentifrice can be kept at a substantial minimum, and a considerable saving in dentifrice will result.

It will be apparent from the foregoing that the device is not only simple in construction and inexpensive to manufacture, but also in its operation a more satisfactory and efficient result is achieved. A better polishing result is obtained, and a saving of dentifrice results and permits of a polishing operation that is cleaner than has heretofore been possible.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claim.

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

A device of the character described comprising a rotatable shank, a flexible cup secured to said shank, and a plurality of radial webs secured to the interior of said cup and having free edges substantially meeting adjacent the axis of said cup whereby to provide a plurality of cells adapted to receive a dentifrice, said webs adapted to rub together to force said dentifrice out of said cells along said free edges to expedite the action of said device.

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