Oct. 25, 1938. J. N. LANDAU 2,134,133

MASSAGE DEVICE

Filed June 5, 1936

Fig. 1.

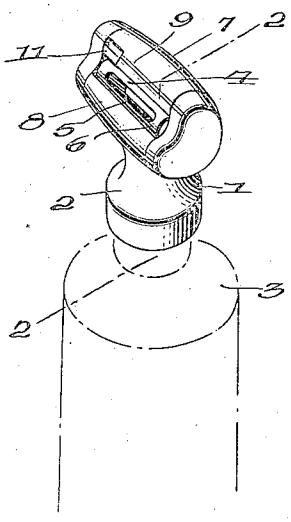


Fig. 3.

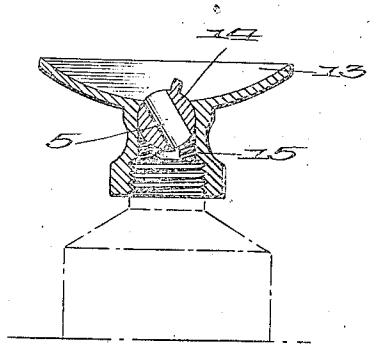


Fig. 4.

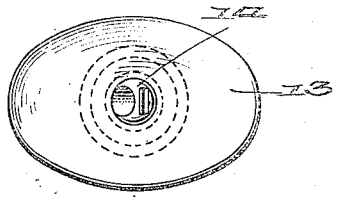


Fig. 2.

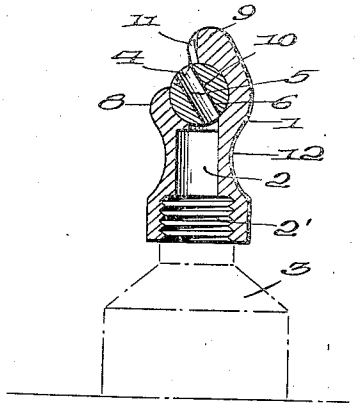


Fig. 6.

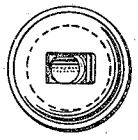
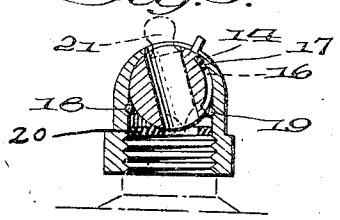


Fig. 5.



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2,134,133

MASSAGE DEVICE

Joseph N. Landau, New York, N. Y.

Application June 5, 1936, Serial No. 83,767

6 Claims. (Cl. 128—65)

This invention relates to massage devices and more particularly to detachable devices for use with collapsible tubes.

A device of this kind is particularly desirable for dispensing and distributing shaving cream from a collapsible tube container and in which the tube forms the principal handle means for the massage device when in use.

One object of the present invention is to provide a novel form of detachable valve controlled massage device which may be attached to the outlet of any container such as the collapsible tube variety for dispensing shaving cream or the like fluid.

Another object of the invention is to provide a massage device of the character designated which shall simulate vacuum and finger action during the application of the fluid to the person.

Another object of the invention is to provide a massage device of the character designated which shall have few and simplified parts so that the same may be readily cleaned and maintained in a sanitary condition.

Another object of the invention is to provide a novel form of cap and massage device having incorporated therein a valve element which shall effectively seal the contents of the container to which it may be attached.

Another object of the invention is to provide a massage device of the character designated in which the valve parts shall be provided with a non-corrosive coating which shall effectively prevent ingress of air to the contents of the container.

A further object of the invention is to provide a combined device of the character designated which shall serve as a receptacle for handling or otherwise working the fluid dispensed from the container.

These and other objects of the invention will be more manifest from the following specification and drawing and more particularly set forth in the claims.

In the drawing:

Figure 1 is a perspective view of a combined cap and massage device;

Figure 2 is a sectional view on line 2—2 of Figure 1;

Figure 3 is a modification of the massage device shown in Figure 1 showing a cup or dished shaped head;

Figure 4 is a top plan view of the device shown in Figure 3;

Figure 5 is a sectional view of a spherical valve, and

Figure 6 is a top plan view of the device shown in Figure 5.

Referring to the drawing, there is shown in Figs. 1 and 2 a novel form of massage device constructed and arranged in accordance with my invention. This massage device is in the form of a cap having an elongated body portion 1 and a central bore 2 communicating with the open end of a container 3 to which it may be attached in any suitable manner as indicated by threads 2'. This bore communicates with a discharge outlet 4 by means of an opening 5 in a rotatable valve member 6 located in the cap head which is indicated by the numeral 7.

In this particular embodiment of my invention, the head 7 is cylindrical in shape. The opening 4 is in slotted form and extends substantially the length of the head so that a considerable area may be covered with fluid. That portion of the head adjacent the opening 4 is provided with projecting ridge members 8 and 9 which form surface engaging elements for effecting the desired massaging operation. This particular arrangement of the ridge members provides a depression which simulates the action of the fingers when applying shaving cream and massaging the face.

In devices of this kind, there has been considerable difficulty experienced heretofore in drying out of the contents of the container, caking around the valve member, or other deleterious effects caused by leakage of air around the valve. I overcome this defect by making the massage head of a non-metallic molded material and coat the valve member with a non-corrosive coating which also serves as a lubricant for the valve. By thus providing a massage device in which corrosion and air leakage is prevented or reduced to a minimum, the device may be maintained in a clean and sanitary condition and ready for use.

The coating for the valve member is indicated by the numeral 10 and may consist of a suitable metal such as aluminum or silver chemically or otherwise applied to the valve member and the inside of the casing surface forming a bearing for the valve.

The valve is operated in the massage head by a projection 11 adapted to move within the contour of the ridge 9. This construction enables the use of a simplified valve and one which may be operated without having any parts to interfere with the use of the device.

To further facilitate the operation of the device, the elongated body portion is provided with a reduced mid section which enables the device

to be grasped by the hand and at the same time use the tube as a handle to steady its use.

In the modification shown in Figs. 3 and 4, the massage device is in the form of a cup or dish-shaped receptacle 13 and formed as an integral unit in a manner heretofore described. In this particular embodiment, the valve is in the form of a ball 14 held in place by a gasket 15 which may engage the top of the collapsible tube to which it may be attached.

Another important feature of the dish shaped receptacle is that it may be used as a mixing bowl for paints when a cap of this kind is applied as a dispensing element for a paint tube, for example. In which case the paint is merely squeezed out of the tube, the valve closed and the paint mixed in the receptacle in a ready and accessible manner.

Another feature of the proposed cap and valve structure is the valve retaining ring and contents sealing disk as shown in Figs. 5 and 6. In this construction the cap is dome shaped with a spherical valve 14 contacting the upper surface in close fitting relation. The valve is guided in its rotational movement by a channel 16 provided in the surface of the sphere and an engaging projection 17 on the interior of the cap body.

Another feature of this construction is the provision of a retaining ring 18 for the valve 14. The ring is retained in an annular recess 19 and provides a positive retaining means for the valve and also eliminates the use of any other packing for the valve.

To further facilitate the retention of fluid in the tube and prevent accidental discharge or drying out during shipment, the contents of the tube is sealed by a frangible disk 20 located in the base of the cap. This disk may be of any suitable material such as shellac and paper, thin lead, etc. which may be ruptured by any suitable pointed instrument such as that indicated by the numeral 21. This disk seal may also be made an integral part of the tube outlet if desired and ruptured by the implement 21 in the manner above described.

What I claim is:

1. A detachable cap for dispensing fluid from a container comprising a body member having a hollow bore, means at one end for attaching the body to a container, a massage device formed on the other extremity of the body member and communicating with said bore, said massage device comprising a depression formed by spaced ridge members, and a rotatable valve member located adjacent to the base portion of said ridge members and having a diametrical bore communicating directly with said depression for distributing fluid to said ridge members.

2. A device of the character designated in claim 1 in which the upper portion of the body member is provided with an angularly disposed outlet and ridge members formed on said body adjacent to said outlet for retaining fluid dispensed from said outlet during application to a surface engaged by said ridge members.

3. Apparatus of the character designated in claim 1 in which the valve member is a molded product provided with a non-corrosive coating which shall serve as a lubricant for the valve.

4. Apparatus of the character designated in claim 1 in which the valve member is a molded product provided with a non-corrosive metallic coating which shall serve as a lubricant and seal for the valve parts.

5. A device of the character designated in claim 1 in which the massage device is provided with a substantially cylindrical working face including a longitudinal slot having rounded edges forming a depression for receiving fluid from the valve bore.

6. A device of the character designated in claim 1 in which the body member is formed of a non-metallic molded product and the valve member is provided with a non-corrosive metallic coating which shall serve as a lubricant and seal for the adjacent surfaces.

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