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M. SMALL

1,969,331

DEODORANT STICK

Filed Oct. 5, 1932

Fig. 1.

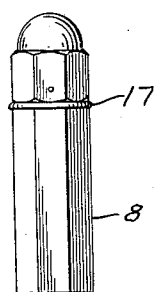


Fig. 4.

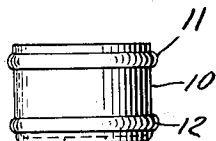


Fig. 5.

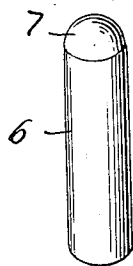


Fig. 2.

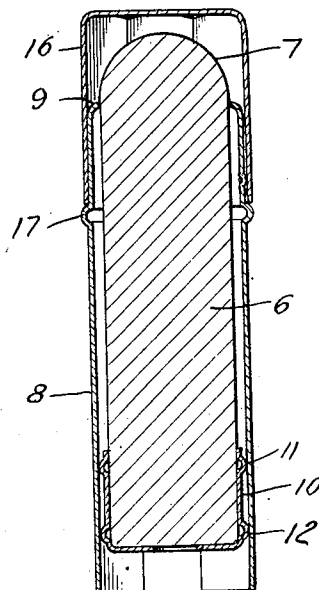
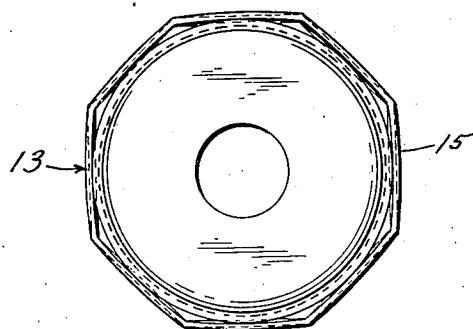


Fig. 3.



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UNITED STATES PATENT OFFICE

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DEODORANT STICK

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In France September 7, 1932

1 Claim. (Cl. 206—56)

This invention relates to a perspiration deodorant or preventative in the form of a semi-solid stick and also relates to a metal receptacle wherein such a semi-solid stick can be housed for marketing and by which the stick can be manipulated in convenient manner when in use.

Deodorants or perspiration preventatives in the form of liquids, powders or salves, are difficult and inconvenient to apply and their application is an untidy procedure likely to involve soiling the hands and clothing. Also they are likely to rub off on the clothing and damage the fabric.

Preparations of a fluid or semi-fluid nature are ordinarily put up in sealed containers of considerable bulk which cannot be conveniently or safely carried by the user, and particularly cannot be conveniently and neatly applied from time to time during the course of an evening when such use would be most acceptable.

According to the present invention, the perspiration inhibiting composition in solid form but of a soft wax-like consistency is molded in the shape of an elongated pencil or stick and is housed in a container which acts as a means for holding the pencil during application of the preparation and also as a means for completely closing the pencil when not in use. It can be carried in a ladies' hand bag in the same way that lip sticks and other toilet accessories are now carried.

When the pencil or stick is applied to the skin by lightly rubbing the exposed end of the pencil over the skin area requiring treatment the soft wax-like end of the stick wears away. In accordance with the present invention the user can advance the stick in the container by merely inserting the end of a finger in the open bottom of the container to engage and push upwardly on a cup-shaped plunger in which the wax like stick is mounted. Also it is convenient for the user to hold her finger against this plunger during application of the preparation thereby to keep the stick from receding into the body of the container. If during such application the stick has been advanced farther than is needed, it can be pushed back into proper position by merely applying the cover or cap over the exposed end of the deodorant and pushing down on that, thereby crowding the wax-like stick back to the desired position and without the need for touching it with the fingers.

In the accompanying drawing,

Fig. 1 is an elevation of a skin treating device embodying the invention;

Fig. 2 is a sectional view on an enlarged scale of the device shown in Fig. 1;

Fig. 3 is a bottom view of the device shown in Figs. 1 and 2 but on a larger scale;

Fig. 4 is an elevation of the means for securing the pencil within the container;

Fig. 5 is a perspective view of the pencil of perspiration inhibiting composition.

In the drawing, the pencil or stick 6 is formed of a perspiration inhibiting composition of a solid wax like nature.

If the perspiration inhibiting action is to be obtained by deodorizing the perspiration, the pencil may be composed of a wax, an oil, deodorizing agents, such as salicylic acid, benzoic acid, cotarnine hydrochloride or menthol, or a combination of two or more of these deodorants, benzyl alcohol and a perfume. A typical specific composition of this nature may have the following percentage composition by weight: wax 36%; spermaceti 41.9%; mineral oil 16.6%; salicylic acid 2%; benzoic acid 2%; cotarnine hydrochloride 0.1%; menthol 0.1%; benzyl alcohol 0.3% and perfume 1%.

If the perspiration inhibiting composition is to stop or prevent perspiration over the treated area, it may be composed of kaolin or some other hydrous silicate of aluminium, a wax, an oil and aluminium chloride. A typical specific composition of this nature may have the following percentage composition by weight: titanium oxide 2%; paraffine 26.5%; petrolatum 55.5% and aluminium chloride 16%.

The solid perspiration inhibiting composition, whether of the species compounded for deodorizing perspiration or of the species compounded for preventing perspiration, is molded into elongated cylindrical form as shown in Fig. 5. The composition may be applied by rubbing the rounded end 7 of the pencil 6 over the skin area to be treated thus depositing a small amount of the composition on the skin. By making up the composition in the form of a small pencil or stick it may be conveniently carried in a ladies' hand bag and so be available for use at any time. A length of two to three inches and a diameter of one-fourth to one-half an inch is suitable.

Sticks or pencils as above described are intentionally so compounded that they will soften when pressed against the under arm of the user; in other words, the heat of the body will so soften the end of the stick that it will rub

off on the skin. If, therefore the pencil or stick were not wrapped or enclosed in some way, it would soften between the fingers of the user and its use would not be convenient or satisfactory. My present invention is directed particularly to the problem just stated, and contemplates the use of a container of novel design.

In the illustrated embodiment, the container comprises a casing 8 formed of metal, preferably aluminium, in substantially cylindrical form but of polygonal cross section, as hereinafter described in detail. The ends of the casing 8 are open and the opening 9 in the upper end thereof is preferably reduced to fit snugly about the end 7 of the pencil 6 which protrudes through this opening. The lower end of stick 6 fits snugly within and is carried by a cup-shaped piston 10 of aluminium. This piston is provided with annular beads 11 and 12 which slidably engage the inner walls of casing 8. The external diameter of piston 10 as measured across the beads 11 and 12 is somewhat greater than the normal distance between opposite walls 13 and 14 of the polygonal casing 8 with the result that when the deodorant stick and its attached piston 10 is pushed through the open lower end of casing 8 the beads on the piston will press outwardly on the flat sides of casing 8 springing them outwardly from the dotted line position to the full line position of Fig. 3. Each flat face of container 8 thus acts as a spring and although piston 10 can be pushed up or down in casing 8 the fit is snug enough to prevent free movement. The user can conveniently advance piston 10 and the deodorant stick by inserting a finger in the open bottom end of casing 8. Also a finger can with convenience be held at that point when the deodorant is being applied, thus preventing the stick from being inadvertently forced back into the container. There are no sharp corners of metal to cut the finger or tear the finger nail, and in making an application of the deodorant there is no occasion to touch the compound directly with the fingers. When an application has been completed cover 16 can be slipped over the upper end of the stick and if need be can be used as a means for crowding the stick downward into the container. The

bead pressed outwardly from casing 8 will serve to limit the movement of cap 16 on the casing, the cap preferably being frictionally held in place.

The frictional resistance offered by the piston 10 to movement within the container 8 is so limited that the stick 6 can be pushed into the container 8 without breaking, swelling or other deformation of the stick. This arrangement is of particular advantage in the combination of the present invention. As explained above, it is highly desirable that the stick 6 be so compounded that it will soften and so rub off easily when pressed against the skin. This softening by heat during use necessarily reduces the strength of the stick and in an ordinary type of applicator container, the stick would be deformed, spread out or broken by the force necessary to crowd it back into the container. In the improved combination of the invention, the frictional resistance offered to the movement of the stick by the engagement between the piston 10 and the container 8 is of a sufficiently low degree so that the stick can be moved within the container by a force applied to the protruding end of the stick without breaking, deforming or enlarging the stick.

As above explained the skin treating device of the present invention may be carried conveniently in the pocket or hand bag of the user. The container acts as a handle by which the perspiration inhibiting composition stick may be conveniently held during application without soiling the hands and the casing also prevents contact between the composition or other objects when the device is not in use.

I claim:

An applicator container for an elongated pencil of solid perspiration inhibiting material, comprising an elongated open ended container of polygonal cross section surrounding a pencil throughout at least a portion of its length, and means for retaining the pencil in the container comprising a cylindrical cup attached to the enclosed end of the pencil and frictionally gripped between resiliently distended sides of the polygonal container.

MARVIN SMALL.

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