

May 2, 1967

D. SEIDLER
MANICURING DEVICE

3,316,922

Filed June 26, 1964

2 Sheets-Sheet 1

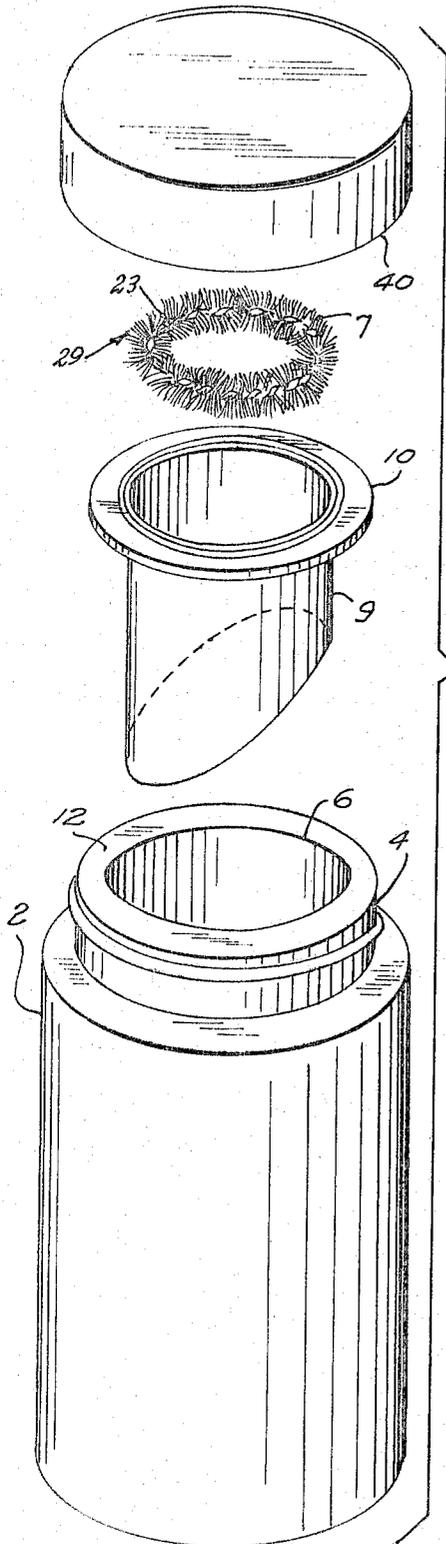


FIG. 1

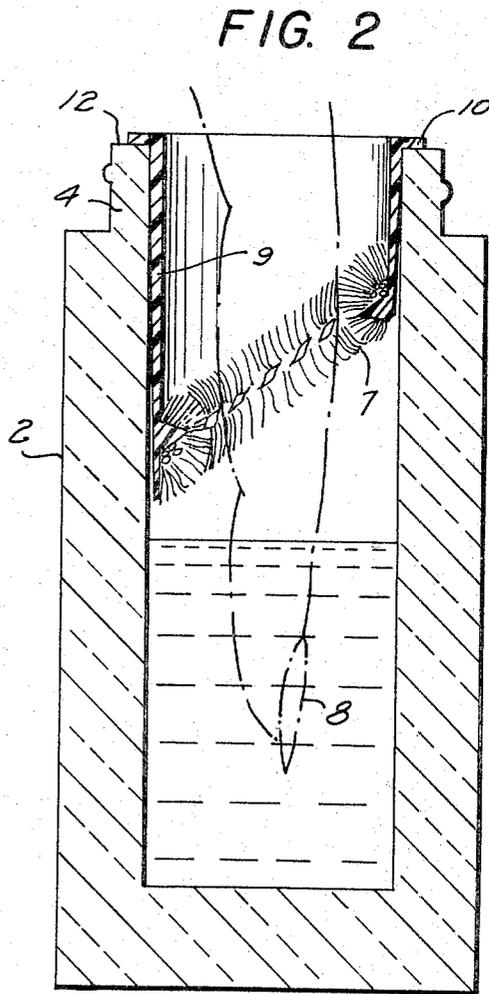


FIG. 2

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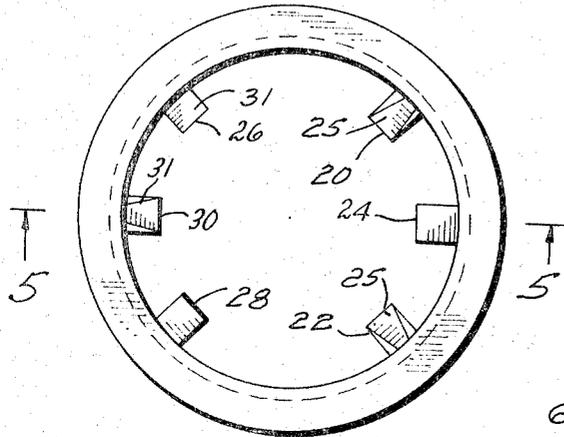


FIG. 4

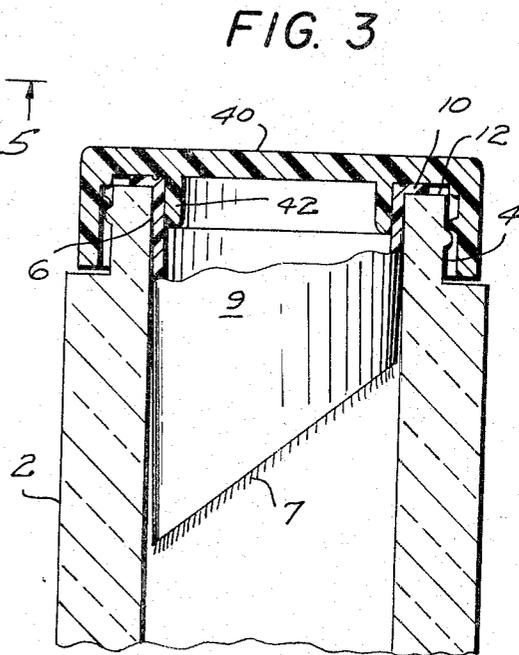


FIG. 3

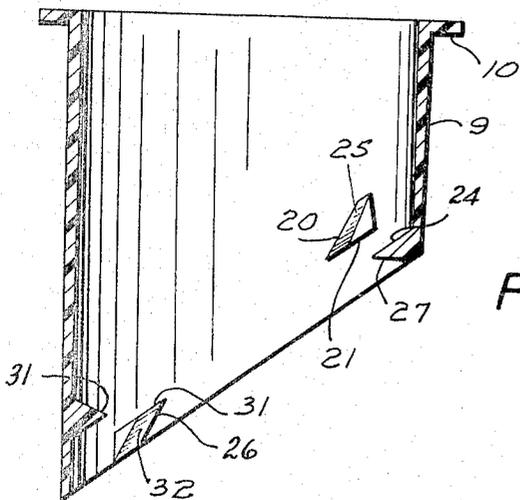


FIG. 5

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3,316,922

MANICURING DEVICE

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1 Claim. (Cl. 132-75)

This invention relates to a new and improved manicuring device and more particularly, to a new and improved manicuring device which is particularly useful for removing fingernail coatings or polishes from fingernails.

Many women customarily coat their fingernails with a protective coating or polish to impart a smooth and attractive appearance to their fingernails. These coatings are applied in liquid form and dry shortly thereafter to form a relatively hard and brittle finish to the fingernail. Because of the brittle characteristic of the fingernail coatings, they frequently become marred or chipped causing an unsightly appearance. Usually, the fingernail coating is removed at this time by peeling or picking the fingernail coating from the fingernail. This procedure is a time consuming, messy and unpleasant task.

Recently several devices have been proposed wherein a brush in one form or another is mounted within a container in a position wherein the brush underlies a minor portion of the opening to the container. The container is filled with a chemical composition with the capability of dissolving fingernail coatings and polishes. In operation, the finger is inserted into the bottle and reciprocated back and forth so that the brush can remove the dissolved fingernail polish from the fingernail. Although said devices represent an improvement over removing the fingernail coating by hand, there are several drawbacks to said devices.

One of the primary disadvantages of this type of device is that a bottle having a special and unusual shape is required in order that the bottle can retain the brush member in a predetermined position. Thus the bottle must have a shape and configuration such that the brush member can be retained within the bottle. Furthermore, it is a difficult and clumsy task to locate and position the brush member within the container since the container has only one opening, and it is necessary to position the brush member in a particular position within the container.

In accordance with this invention a bottle or container of any desired shape or configuration is provided for the dissolving fluid. Insert means is provided which is adapted to carry a cleaning member in the form of a brush member at one end thereof and to position the brush in an appropriate position within the container. In a preferred embodiment, an insert is mounted on the neck of the container and is provided with means for fixedly positioning the brush member within the container. Preferably, the insert has a plurality of abutments permitting the brush member to be positioned with a "snap-in" action.

The present invention provides thereby a manicuring device which can be quickly and expeditiously assembled and which eliminates difficulties normally encountered in attempting to mount a brush member in a closed end container. By reason of the fact the brush member is mounted on the insert with a snap action these elements can be joined while outside the container and quickly and expeditiously assembled with the container.

In view of the foregoing, it is an object of this invention to provide a new and improved manicuring device for removing a fingernail coating from a fingernail, which is economical and easily manufactured and assembled.

Another object of this invention is to provide a new

and improved manicuring device for removing a fingernail coating by means of a brush mounted in cooperating relationship with a container carrying a dissolving fluid.

Still another object of this invention is to provide a new and improved manicuring device for removing a fingernail coating wherein a cleaning brush member is located adjacent the open end of a container carrying a fingernail coating dissolving fluid.

Still another object of this invention is to provide a new and improved manicuring device for removing a fingernail coating wherein a brush member is mounted at one end of a container carrying dissolving fluid with a snap action.

Additional objects and advantages of the invention will be set forth in the description which follows, and in part will be obvious from the description, or may be learned from practice of the invention, the objects and advantages being realized and attained by means of the instrumentalities and combinations particularly pointed out in the appended claim.

The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate an embodiment of the invention, and together with the description, serve to explain the principles of the invention.

Of the drawings:

FIGURE 1 is an exploded perspective of a manicuring device in accordance with this invention.

FIGURE 2 is a longitudinal sectional view of the container portion of the device showing the device in use.

FIGURE 3 is a longitudinal sectional view showing the device with the top in position.

FIGURE 4 is a top view of the insert line.

FIGURE 5 is a sectional view taken along line V—V of FIGURE 4.

Reference will now be made to the preferred embodiment of the invention as illustrated in the accompanying drawings. In order to assist in understanding the present invention, a general description thereof will be set forth.

Referring to FIGURE 2, there is shown a bottle or container 2 which can be made of any convenient material such as glass or plastic having a neck 4 with an opening 6 at one end thereof. The bottle or container is adapted to hold a liquid which is capable of dissolving a fingernail coating in a relatively short time and almost upon contact. Located within the container is a brush member 7 adapted to engage the fingernail 8 of the user when the finger is reciprocated back and forth within the container 2.

In accordance with this invention, means are provided for mounting a brush member within the container so that it can be quickly assembled. As embodied herein an insert 9 is mounted within the opening of the container to extend into the container. The insert can be made of any convenient material and is preferably made of plastic. The insert includes at one end a flange 10 extending at right angles to the body of the insert which rests on the top of the outer surface 12 of the container to position the insert. As shown in FIGURES 2-3 the side of the insert is preferably tapered so as to facilitate positioning within the container with a friction fit. As shown in FIGURE 2, a brush member 7 is mounted at one end of the insert and is positioned thereby adjacent one end of the container.

The size of the opening in the container and brush is preferably as small as possible yet large enough to receive the finger of the user. The brush member is mounted and positioned so that a finger which is inserted into the opening of the container will come into contact with the fluid in the container and then can be rubbed against the bristles of the brush so that a fingernail coating can be removed from the fingernail.

As best shown in FIGURES 4 and 5 there are two groups of three abutments on the insert member. These groups are positioned so that the brush member held thereby is positioned with the container at an angle to the horizontal. In this manner a maximum surface of the brush member is positioned for contact with the fingernail of the user.

The abutments are generally wedge shaped and are shaped to permit easy insertion of the brush member therebetween. As shown in the drawing the upper group of abutments 20, 22 and 24 are positioned so that the bases 21 of abutments 20 and 22 face generally downwardly whereas the base abutment 24 faces generally upwardly. The abutments 20 and 22 include surface 25 which is inclined towards the center of the insert member.

The lower group of abutments include abutments 26, 28 and 30 wherein abutments 26 and 28 have their bases 27 extending generally upwardly whereas abutment 30 has its base 32 facing generally downwardly. The abutment 30 includes an inclined surface 31 which is inclined generally towards the center of the insert.

As will be clear from FIG. 5, the expression upper in reference to the abutments 20, 22 and 24 means closer to the top of the container, whereas the expression lower in reference to the abutments 26, 28 and 30 means closer to the bottom of the container.

It will be noted that abutments 20, 22 and 30 are positioned above the abutments in their respective groups. Accordingly, it is possible to position the brush member on these abutments and move it inwardly and thereby snap the brush member into the inclined position shown in FIGURES 2 and 3.

As shown in FIGURE 1, the brush member includes a core 23 having a plurality of bristles 29 extending therefrom.

The distance between the bases of the upper abutments in each group is approximately the same as the diameter of the core of the brush member. By virtue of this arrangement the brush member can be easily and expeditiously inserted into the insert as explained above.

As shown in FIGURE 3, the device includes a cover 40 adapted to be attached to the neck of the container in any convenient manner. The cover member 40 includes an internal flange 42 having a tight frictional engagement with the insert member thus preventing any leakage of fluid during shipment.

It is to be understood that the invention in its broader

aspects is not limited to the specific elements, combinations and structure shown and described, but also includes within the scope of the accompanying claim any departure made from such elements, combinations or structure which do not sacrifice their chief advantages.

What is claimed is:

A manicuring device adapted for removing fingernail coatings comprising:

- (a) a container having fingernail coating dissolving fluid therein and an opening at one end,
- (b) an insert member mounted at one end of the container and extending partially into said container,
- (c) a first group of abutments mounted on said insert,
- (d) a second group of abutments mounted on said insert and diametrically spaced from said first set of abutments,
- (e) each of said abutments having substantially the shape of a wedge,
- (f) a brush member including a core with a plurality of bristles extending therefrom,
- (g) said brush member being positioned with said container by a snap fitting relationship by said first and second groups of abutments,
- (h) said first and second groups of abutments being spaced longitudinally so that said core and bristles are positioned at an angle to the horizontal, and
- (i) each of said groups of abutments consisting of three abutments wherein two of said abutments in one of said groups and one of said abutments in the other said group have inclined surfaces extending downwardly and inwardly of the container to facilitate inserting the brush member within the container and wherein at least three abutments have surfaces facing generally towards the opening in the container and at least three abutments face generally towards the bottom of the container, said last mentioned surfaces being separated by a space only slightly larger than the diameter of the core.

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