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PAD FOR DISPENSING LIQUID, PASTY AND PULVERULENT PRODUCTS

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Fig. 1.

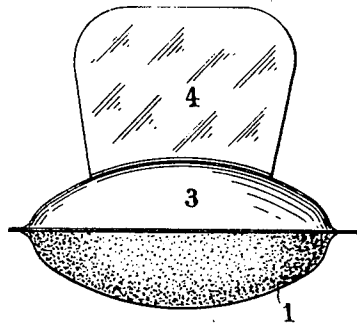
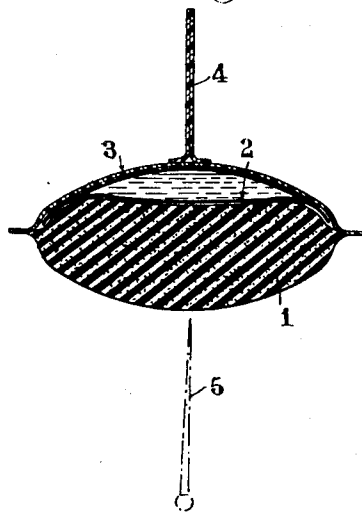


Fig. 2.



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## PAD FOR DISPENSING LIQUID, PASTY AND PULVERULENT PRODUCTS

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3 Claims. (Cl. 15—131)

This invention relates to an improved pad for dispensing products in liquid, pasty and pulverulent form.

It is known to take a paste or any other product from a container and to apply same by using a pad comprising an application surface of flexible material mounted on a support provided with gripping means. On the other hand it is known to wrap the products to be applied in a casing or envelope of plastic material which is torn, cut or pierced before use.

Now it is the essential object of this invention to provide an improved dispensing pad containing the product to be applied. This pad is characterized by the combination of an application surface of cellular plastic with a certain quantity of the product to be applied which is placed into a sealed pocket of metallized paper or flexible plastic sheet, and also with a flexible casing secured to the outer edge and on one side of said application surface to press the pocket against said surface; if desired and preferably, a gripping member may be mounted on this casing to facilitate the use of the device.

The product is enclosed in the pocket in a strictly leak-proof manner so as to preserve it indefinitely. When it is desired to use the product, the wall of the pocket is pierced for example by using a pin passing through the application surface. Then the user presses the pad against the selected support or surface and this pressure exerted on the flexible walls is sufficient to cause the product to flow in a regular and sufficient manner through the hole previously made and onto the application surface, preferably of cellular material, which it soaks uniformly.

If desired, the quantity of product stored in the pocket may correspond to a single application or operation; considering for instance the case of shoe-polish or cream, this quantity may be sufficient for cleaning one pair of shoes.

The device of this invention will therefore bring a substantial modification and simplification in the method of operation which up to now consisted in taking a vessel containing the selected product, opening the vessel, taking the product therefrom and finally spreading the product. As the product is intended for a single use, it is thus kept in its sealed pocket under the best conditions irrespective of the storage time, whereas conventional cleaning and polishing products, whether in metal cases or tubes intended for long use, are detrimentally affected after the initial opening of the containers. On the other hand, the device of this invention is very simple and its component elements, if they are made of plastic material, may be assembled by welding, so that its cost may be kept very low to justify its single use. This device is particularly suitable when it is desired to obtain a dispensing pad of very small weight and size the use of which is limited to the application of a product which may be for example a shoe-polish or cream.

A specific embodiment of the invention is shown in

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the attached drawing forming part of this specification, wherein Figure 1 is an elevational view and Figure 2 a vertical section made across a dispensing pad enclosing a pocket containing a product to be applied.

5 The pad proper 1 of porous or spongy material, preferably cellular polyurethane resin, supports a pocket 2 of flexible material adapted to be pierced, made for example from welded plastic sheet and filled with the product to be applied, for example a liquid shoe-cleaner or polish. A casing 3 also of plastic material covers the pocket 2 and has its peripheral edge welded on the edge of the cellular pad 1. A gripping lug 4 is also welded centrally of the casing 3.

10 When it is desired to use the device, the pad 1 and then the pocket 2 are pierced by means of the pin 5 shown in chain-dotted lines; then the user presses the device on the object to be treated and the pressure thus exerted on its upper flexible face is sufficient to cause the product to spill progressively out from the pocket 2 through the hole for soaking the cellular pad 1; then, due to the porosity of this pad 1, the product soaks the surface thereof and can be applied uniformly on the object to be treated.

15 Of course, many types of plastic materials may be used for making the component elements of the dispensing pad according to this invention.

20 Similarly, the embodiment shown in the drawing is given by way of example only as many modifications may be brought thereto without departing from the spirit and scope of the invention as set forth in the appended claims, according to the specific use for which the dispensing pad is intended.

What I claim is:

1. Pad applicator for liquid, pasty and pulverulent products, comprising a spongy pad proper having an application face and another face opposite to said application face, said two faces being bound from each other by a circular contour, a pocket of impervious flexible material, said pocket having a circular contour and being filled with the product to be applied, said pocket being furthermore laid centrally on said other pad face, a disk of flexible, wear-resisting and impervious material covering said pocket and having a circular marginal portion projecting beyond the pocket contour, said circular marginal portion being secured around said pocket to the circular contour of said pad, and a gripping lug secured diametrically on said disk, said pad permitting the application of said product by perforating the application face of said pad and a wall of said pocket by means of a pin, gripping said pad by means of said lug, and simultaneously exerting a pressure on said disk in order to force the product from said pocket through the pad material.

2. Pad applicator for liquid, pasty and pulverulent products, comprising a spongy pad proper having an application face and another face opposite to said application face, said two faces being bound from each other by a circular contour, a pocket of impervious, flexible material, said pocket having a circular contour and being filled with the product to be applied and laid centrally on said other pad face, a disk of flexible, impervious material covering said pocket and having a circular marginal portion projecting beyond said pocket and said circular contour of the pad, said circular marginal portion being secured around said pocket to said circular contour of the pad, and being formed with a free extension beyond said circular pad contour, and a gripping lug secured diametrically on said disk, said pad permitting the application of said product by perforating said application face by means of a pin driven through the assembly until said pocket is punctured by said pin, gripping said pad by means of said lug on the disk side and simul-

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taneously pressing said disk in order to force said product out from said pocket through said pad material.

3. Pad applicator for liquid, pasty and pulverulent products, comprising a spongy pad proper having a convex application face and another face opposite to said application face, said other face having a concave central portion, said two faces being bound from each other by a circular contour, a pocket of flexible, impervious material which comprises a hollow central portion filled with the product to be applied and a circular flange surrounding said hollow central portion, said pocket being laid centrally on said other pad face with its central hollow portion nested in said concave central portion of said other pad face, a disk of flexible, impervious material covering said pocket and having a circular marginal portion projecting beyond said circular flange, said circular marginal portion being secured around said pocket flange to said circular pad contour, and a gripping lug secured diametrically on said disk, said appli-

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cator pad permitting the application of the product by perforating said application face and a wall of said pocket by means of a pin, gripping said pad on the disk side by means of said lug and simultaneously pressing said disk in order to force the product out from said pocket through the spongy pad material.

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