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3,086,241

GLASS WASHER

Original Filed Oct. 20, 1961

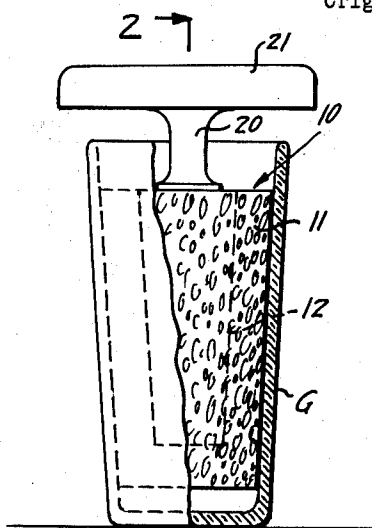


FIG. 1

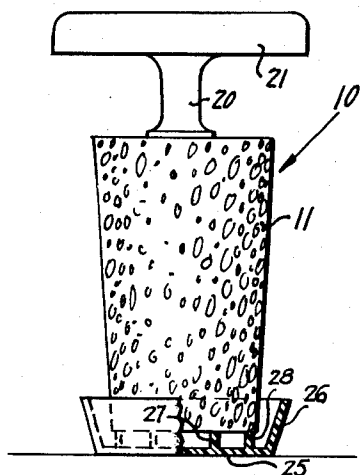


FIG. 4

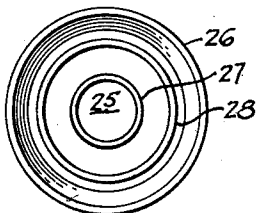


FIG. 5

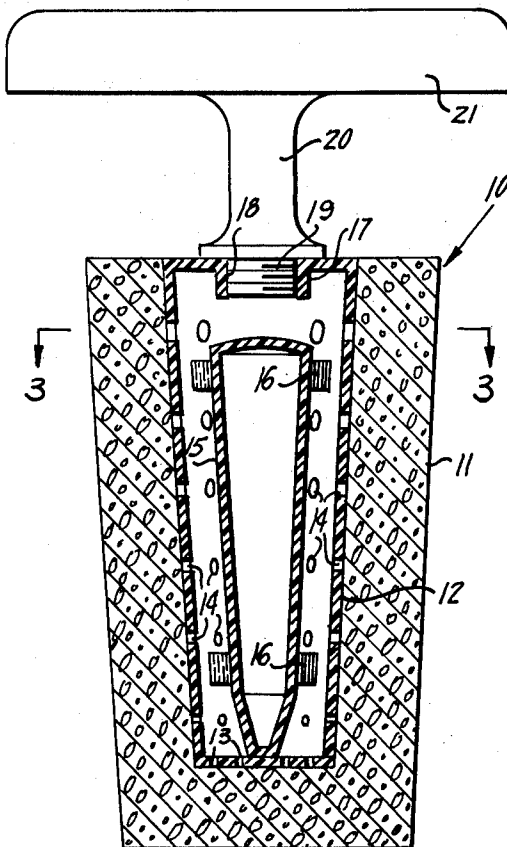


FIG. 2

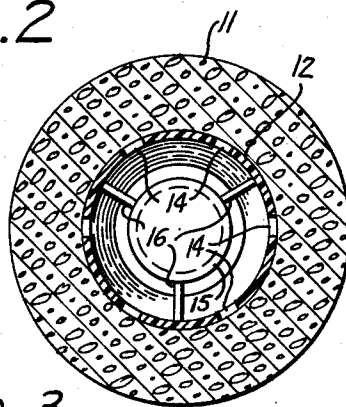


FIG. 3

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3,086,241

GLASS WASHER

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Original application Oct. 20, 1961, Ser. No. 146,616. Di-
vided and this application Apr. 30, 1962, Ser. No.
191,691

2 Claims. (Cl. 15—511)

This invention relates to a glass washer and has as its primary object the provision of a sponge like device having an internal container for soap or detergent which may be advantageously used in a dishpan to facilitate the washing of cups or glasses, and comprises a division of my co-pending application entitled "Glass and Dish Washer," Serial No. 146,616, filed October 20, 1961.

An additional object of the invention is the provision of a device of this character which may be readily filled, and which will retain a predetermined quantity of soap necessary to complete the washing of glasses involved.

An additional object of the invention is the provision of a device of this character having internal means for retaining a soap powder or detergent powder provided with apertures through which the contents may pass gradually to an outer sponge container for gradual use. Liquid soap or detergent may also be used.

A further and more specific object of the invention is the provision of a device of this character wherein the size of the openings permitting the egress of the contents are graduated, increasing towards the top of the receptacle, in order that the soap may pass out in substantially equal portions throughout the height or depth of the device.

A further object of the invention is the provision of a device of this character which is sturdy and durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture.

Still other objects reside in the combinations of elements, arrangements of parts, and features of construction, all as will be more fully pointed out hereinafter and disclosed in the accompanying drawing wherein:

FIGURE 1 is an elevational view, partially in section, of a glass washer constructed in accordance with the instant invention shown in use with a glass.

FIGURE 2 is an enlarged detail sectional view taken substantially along the line 2—2 of FIG. 1 as viewed in the direction indicated by the arrows.

FIGURE 3 is a sectional view taken substantially along the line 3—3 of FIG. 2 as viewed in the direction indicated by the arrows.

FIGURE 4 is an elevational view of the structure of FIGURE 1 shown in a supporting tray, the latter being partially sectioned; and

FIGURE 5 is a top plan view of the tray of FIG. 4 with the glass washer removed.

Having reference now to the drawings, there is generally indicated at 10 a glass washer which comprises an outer tapered body 11 preferably constructed of porous material such as foam polyethylene plastic, or sponge, or sponge rubber, within which is positioned an inner receptacle 12, the latter being formed of plastic, metal, or other suitable material. The inner receptacle 12 is provided with a plurality of bottom openings 13 and a plurality of side openings 14, it being noted that the size of the side openings 14 increases gradually towards the top of the receptacle, to insure an even distribution of soap, detergent, or other material inserted in the receptacle 12.

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An inner filler 15 is provided, and spaced from the walls of the container by means of fins or lugs 16, the filler 15 being solid and employed in order to preclude the use of too much soap powder, detergent, or other materials which may be employed.

A depending flange 17 surrounds an internally threaded top opening 18 in receptacle 12, and receives the threaded end 19 of the stem 20 of a handle member 21. The arrangement is such that upon unscrewing the threaded portion 19, the device may be readily filled with soap powder or the like. After the handle is repositioned the glass G may be readily washed by means of the compressible sponge like material of the outer member 11, as best seen in FIG. 1.

As best seen in FIGURES 4 and 5, a tray or support may be provided for glass washer 10, and comprises a circular base 25 having a diameter greater than the bottom of body 11 and an outwardly flared rim 26. Base 25 also includes inner concentric rings 27 and 28 of less height than rim 26 to provide drainage space for any fluid remaining in body 11 after use.

From the foregoing it will now be seen that there is herein provided an improved glass washer which may be readily utilized in conjunction with a conventional dish pan, which accomplishes all the objects of this invention, and others, including many advantages of great practical utility and commercial importance.

It will be understood that preferably a liquid soap or detergent is employed. It will also be understood that although sponge rubber and other similar materials may be employed, the body 11 may also be made of porous foam plastic such as polyethylene.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative, and not in a limiting sense.

I claim:

1. A washing device for the interior of glasses comprised of an outer covering of inverted frusto-conical shape with its larger end at the top, of sponge like material and a substantially centrally disposed inner receptacle adapted to contain a cleansing material, said inner receptacle having a threaded opening at its top and a threaded closure plug for said threaded opening, said inner receptacle having a plurality of exit openings therein for the exit of said cleansing material, said openings progressively increasing in size from the bottom to the top, a handle secured to the outer side of said closure plug, and a hollow light weight closed filler secured interiorly of said inner receptacle and spaced therefrom for reducing the size of said receptacle to preclude the insertion of an excessive quantity of cleansing material.

2. The invention as set forth in claim 1 in which said outer covering is comprised of foam polyethylene plastic material.

References Cited in the file of this patent

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