Jan. 1, 1946. A. T. KIEFT 2,392,091

DISH SUPPORTING BRACKET

Filed Oct. 7, 1944

Fig. 1.

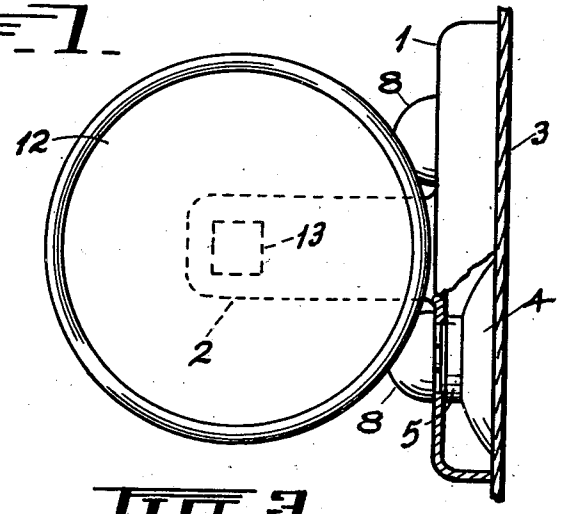


Fig. 4.

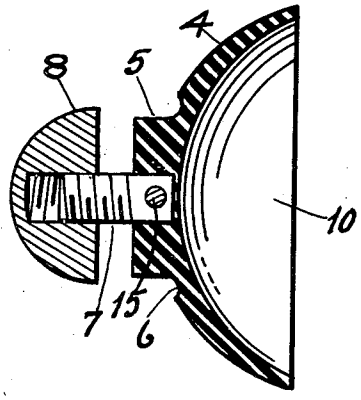


Fig. 3.

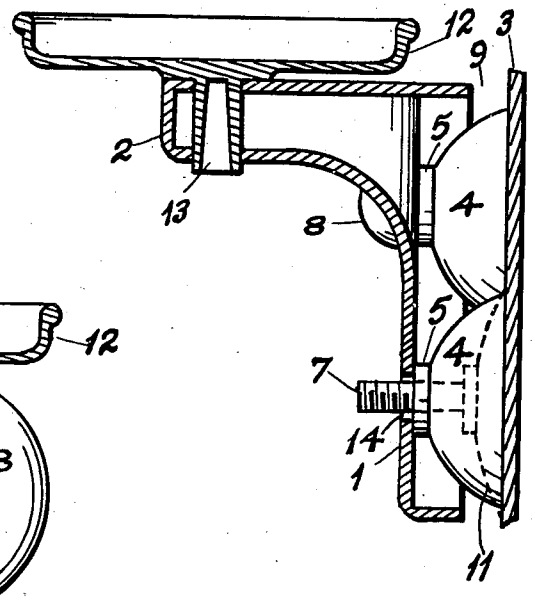
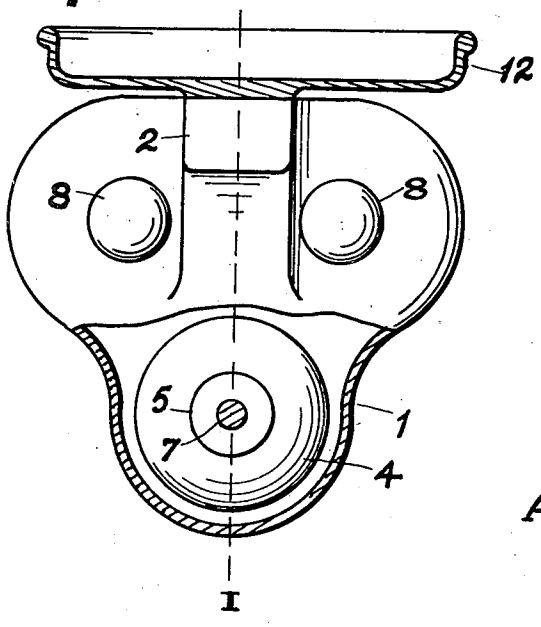


Fig. 2.



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UNITED STATES PATENT OFFICE

2,392,091

DISH SUPPORTING BRACKET

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Application October 7, 1944, Serial No. 557,611

3 Claims. (Cl. 248—206)

My present invention relates to improvements in dish supporting brackets and particularly to such dish supporting brackets as are employed in bathrooms, lavatories and kitchens for supporting drinking glasses, tooth brush holders and other dishes; and the objects are: first, to provide a dish supporting bracket that is suited for manufacture from combined plastic material and metal; second, to provide a supporting bracket adaptable for supporting various types of dishes; third, to provide a dish supporting bracket that will be held on a vertically disposed support; fourth, to provide a dish supporting bracket having plastic material as its major constituent; fifth, to provide a dish supporting bracket that will be held against a vertical support by suction cups with its base in contact with the said support; sixth, to provide a dish supporting bracket that can be manufactured principally by plastic molding; seventh, to provide a dish supporting bracket that can be manufactured sufficiently cheap that it can be sold by notion stores at a profit.

I attain these named objects and such other objects that appear from a perusal of the following description and the structure illustrated in the accompanying drawing, in which:

Figure 1 is a top plan view of the dish supporting bracket attached to a vertical panel support and in part section;

Figure 2 a front elevation view of the dish supporting bracket in part section;

Figure 3 a vertical sectional view of the dish supporting bracket taken on line I of Figure 2, and as being attached to a vertical supporting panel;

Figure 4 an enlarged sectional view of one of the suction cups for attaching the bracket to a vertical support.

Throughout the several views of the said accompanying drawing illustrating my present invention, similar numerals refer to similar parts and portions and devices associated therewith, and referring thereto:

Numeral 1 refers to the hollow base portion from which extends horizontally bracket 2 secured to a vertically disposed supporting panel 3 by a plurality of suction cups 4 each having a boss 5 having an annular semicircular groove 6 at the base of the boss 5 which has imbedded therein and extending therefrom at its axis, and through the front panel of the base, screw threaded stud 7 whereby the suction cup may be pressed against the supporting panel for collapsing the cup and with semispherical nut 8 adapted to be screwed onto the said stud draws the rim of the hollow base 1 against the supporting panel 3 when all the suction cups are suctionally drawn against the supporting panel and thereby eliminating the gap 9 shown between the rim and the base and the supporting panel. The gap is shown in Figure 3 and as shown eliminated in Figure 1.

The suction cup has a concave cavity 10 whereby, when the suction cup is collapsed, the greater portion of the air is excluded from the cup and a differential of pressure is caused, the atmosphere exterior of the cups being greater than that of the atmosphere within the cups. The collapsed form of one of the suction cups is illustrated by broken lines II in Figure 3. At the top of the bracket 2 is dished receptacle 12 having at its axis rectangular cross-section hollow hub 13 extending downward through a rectangular hole in both the upper and lower walls of the said bracket 2.

Extending through the flat wall of the base 1 in the bracket structure shown are three holes 14 through each of which extend the stud 7 around which the boss 5 is cast and retained thereon by pin 15 extending transversely through the said stud and boss 5.

When attaching my present dish supporting bracket to a support such as, for example, the panel 3, the studs 7 of the suction cups are extended through the holes 14 extending through the front panel of the base 1, which is then pressed as illustrated against the vertically supporting panel 3 and each suction cup collapsed by pressing on the end of the stud 7 until the end of the stud is flush with the outer surface of the front panel of base 1 and released and thereby permitting the suction cup to expand or partly assume its normal shape and extend the stud 7 through the hole 14 with a portion of the stud extending outward from the base sufficiently to permit screwing the nut 8 thereon, which is done and screwed onto the stud and thereby draws the base 1 securely against the said supporting panel with no gap between the base and the supporting panel.

The parts 1, including bracket 2, semispherical nut 8 and dished receptacle 12, are preferably formed of plastic resin material, although those parts may be formed of sheet metal drawn to shape and thereafter polished and plated with a desired suitable metal or enamel.

Having described my present improved dish supporting bracket, the rights thereto I desire to secure by Letters Patent are contained in the following numbered claims; therefore I claim:

1. In a dish supporting bracket, the combina-

tion with a hollow housing having a hollow bracket extending horizontally therefrom with a dish-like receptacle above the bracket and having a rectangular cross-sectional hub extending downward through a rectangular hole in the upper and lower walls of the horizontally extending hollow bracket: A plurality of collapsable suction cups in the said housing and adapted to be deflected independently of the housing by a screw threaded stud extending loosely through a hole in the front panel of the housing and adapted to pull the housing against a support by a nut screw threaded on the said stud of each of the suction cups.

2. The combination, in a dish supporting bracket having a hollow open back base having a front panel and adapted to be fastened to a vertical support with a bracket extending substantially horizontal from the front of the base with a receptacle thereon, a plurality of suction cups within the base with each suction cup having a boss with a screw threaded stud extending therefrom through the front panel of the base for collapsing the suction cup until the suction cup is less in height than the depth of the base, and a nut adapted to be screwed on the stud whereby the base may be drawn against the vertical support.

3. A dish supporting bracket having a back dish-like base having therein a plurality of suction cups each adapted to be individually collapsed by a screw threaded stud extending therefrom and through the front of the base and adapted to force the base against a vertical support when a nut is screwed onto the stud exterior of the base.

ABRAM T. KIEFT.