Feb. 3, 1942. A. T. KIEFT 2,271,769

DISH SUPPORTING BRACKET

Filed March 20, 1940

Fig. 1.

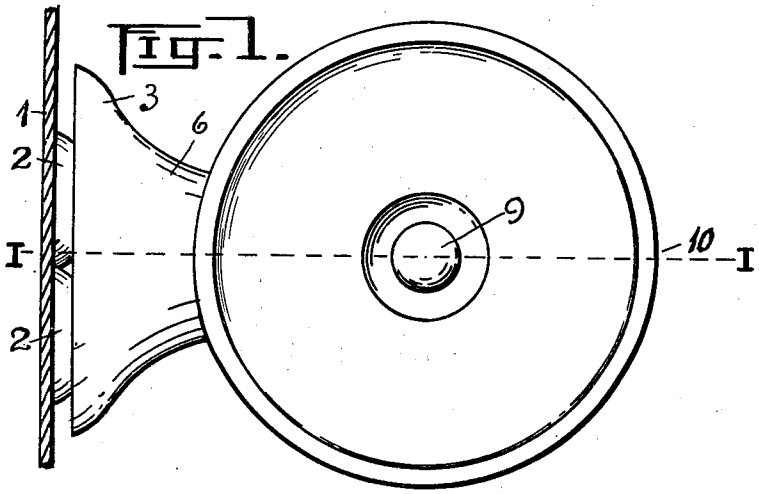


Fig. 2.

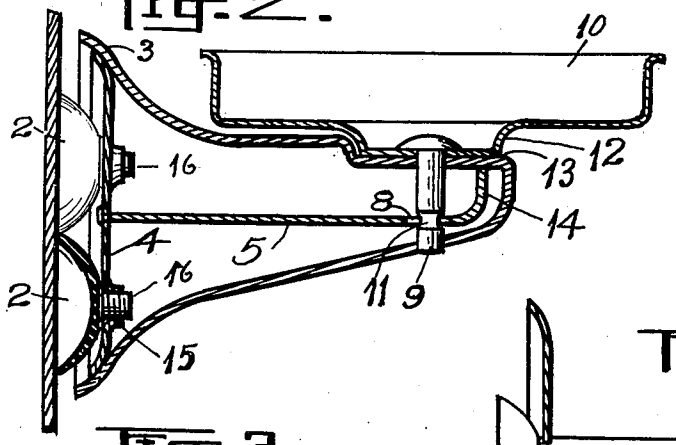


Fig. 4.

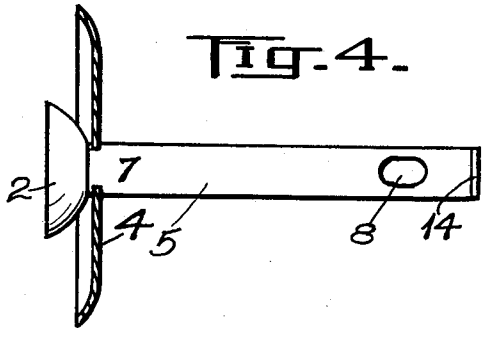
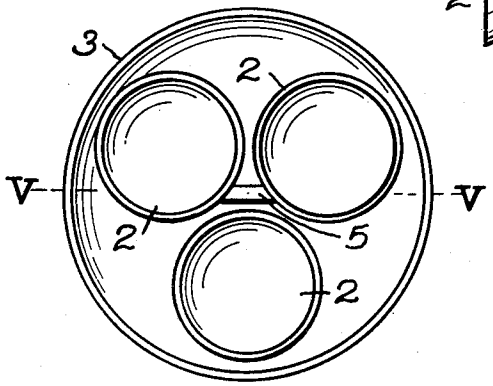


Fig. 3.



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DISH SUPPORTING BRACKET

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Application March 20, 1940, Serial No. 325,078

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 bath rooms, lavatories and like rooms for supporting soap dishes, drinking glasses, tooth brushes and like articles; and the objects of my improvement are, first, to provide a dish supporting bracket that lends itself to manufacture from sheet metal or a combination of sheet metal and molding plastic material; second, to provide a dish supporting bracket whereby various types of dishes may be supported; third, to provide a dish supporting bracket that will be held more securely to a plane surface than such brackets herefore produced; fourth, to provide a dish supporting bracket that will be ornamental as well as useful; fifth, to provide a dish supporting bracket that will be difficult to remove from a supporting plane surface by direct pull; sixth, to provide a dish supporting bracket that will support heavy loaded dishes; and seventh, to provide a dish supporting bracket that can be manufactured sufficiently cheap that they can be sold by notion stores at a profit.

I attain these named objects, and such other objects as appear from a perusal of the following description when the said description is taken in connection with the accompanying drawing, by the structure disclosed thereby, and in which—

Figure 1 is a top plan view of my improved dish supporting bracket and as secured to a panel such as the back of a kitchen sink or wash bowl.

Figure 2 is a sectional elevation view of my dish supporting bracket as taken on a vertical plane on line I—I of Figure 1, the view showing the assembly of the parts comprising the said dish supporting bracket.

Figure 3 is a rear elevation view of the dish supporting bracket in which is shown the plurality of suction cups in spaced apart relation to each other and secured to a circular flange.

Figure 4 is a view showing the assembly retaining parts removed from the housing of the dish supporting bracket.

Throughout the several views comprising the drawing, similar numerals refer to similar parts or portions, and referring thereto—

Numeral 1 designates a vertical panel such as the back of a sink or wash bowl that has a plane surface, 2 a plurality of suction cups having a number greater than two, 3 a dish like circular flange forming a base wherein the suction cups to a great extent, and other parts are hidden from view and forming a centralizing means and a support for the circular flange 4 to which the suction cups are secured at one side and having riveted thereto ribbon or strap like assembly member 5 extending into the hollow housing 6 from the other side of the flange. 7 designates a portion of the member 5 reduced in width in order to form a shoulder that prevents the strap 5 from passing through the flange 4 and also an abutment while the flange 4 is being riveted to the strap 5 which has at its opposite end from the flange 4, oblong hole 8 through which passes stud 9 extending downward from the dish receptacle 10, and has annular groove 11 intermediate its ends and engaged by the strap 5 within the hole 8.

Numeral 12 designates a hollow boss extending downward from the dish receptacle 10 whereby the receptacle is positioned horizontally on the flat horizontal surface 13 of the hollow extended housing portion 6 and retained thereagainst by upwardly extending portion 14 of the metal strap 5. The circular flange 4 has preferably, three threaded holes 15 into which is screwed studs 16 extending from the back of the suction cups 2. These studs 16 after they are screwed into the holes 15 and extending slightly through the circular flange 4, are riveted over, thereby preventing accidental loosening of the suction cups.

In the use of my improved dish supporting bracket, it is only necessary to place the suction cups in contact with the surface to which it is to be secured and press the housing back toward the said surface with sufficient force to expel at least most of the air from within the suction cups and allow the suction cups to spring outward thus causing a vacuum within the cups which unbalanced by the atmospheric pressure against the exterior of the cups retains the cups against the vertical plane surface of any panel like member that the dish supporting bracket is attached to.

In assembling the dish supporting bracket, the several members thereof having been made including the suction cups secured to the circular flange 4 and metal strap 5, the said strap is placed within the extended portion 6 of the housing and shoved therein until the circular flange 4 rests against the inner wall of the flange 3, the flange 4 is then sprung inward similar to a diaphragm, the springing of the flange 4 brings the hole 8 of the strap 5, in such position that the trunnion 9 will enter the hole 8 when the trunnion is entered through the holes at top and bottom of the extended portion of the housing, then when the circular diaphragm is sprung to such position, the trunnion is inserted and the

diaphragm is allowed to spring back until it assumes its unsprung position or is held from doing so by the side of hole 8 through strap 5 engaging the annular groove 11 surrounding the trunnion 9, the dish receptacle is then held against the surface 13 by the engagement of the strap 5 and the upwardly extending portion thereof 14 resting against the upper wall of the extended portion 6 of the housing. In disassembling the dish supporting bracket, it is only necessary to spring inward the cup supporting circular flange 4 until the groove 11 is disengaged by the strap 5 and withdraw the trunnion 9 by lifting the dish receptacle from extended portion of the housing.

Having described my improved dish supporting bracket, the rights to which I desire to secure are enumerated in the claims hereafter named.

I claim:

1. In a dish supporting bracket, the combination comprising a housing having a hollow bell like base portion and a portion extending therefrom, the said hollow portion having top and bottom openings in spaced apart relation to the said base portion, a flange within the base portion having secured thereto at one of its sides a plurality of more than two suction cups and a metal strap extending into the said extended portion of the housing past the said openings and having an oblong hole in registration with the said openings and engaging the top wall of the said extended portion, a dish supporting receptacle above the said extended portion of the housing and having an annular grooved trunnion extending through the said openings and hole in the said strap and engaged by the strap in the annular groove thereof.

2. In a dish supporting bracket, the combination comprising a hollow housing having a bell-like base portion and an extended portion, the said extended portion having an opening in spaced apart relation to the said bell like base portion, a flange seated within the said bell like base portion and having extending into the said extended portion, a strap like member, a dish supporting receptacle having an annular grooved trunnion extending into the said extended portion and engaged in the said annular groove by the said strap like member.

3. A dish supporting bracket containing the elements defined in claim 2, combined with a plurality of suction cups, the said plurality comprising more than two.

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