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C. E. CAESTECKER

2,275,007

SUPPORTING HOOK

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Fig. 1.

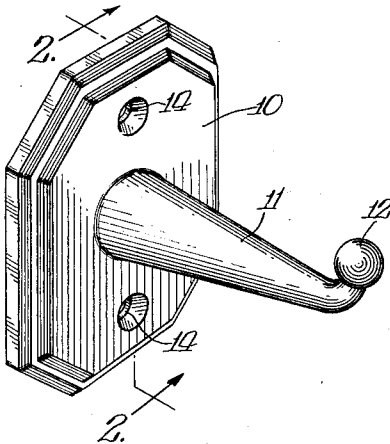


Fig. 2.

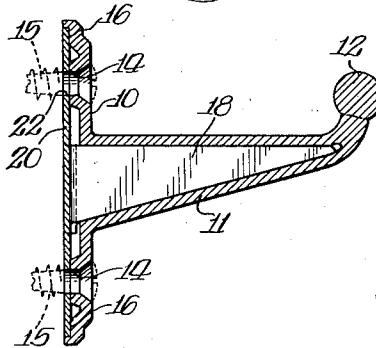


Fig. 3.

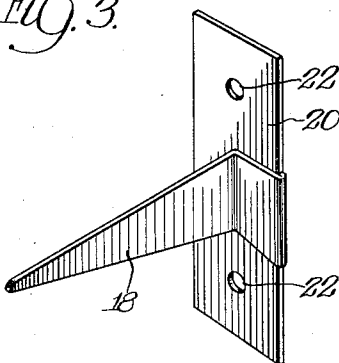
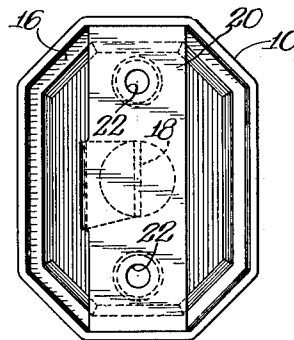


Fig. 4.



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UNITED STATES PATENT OFFICE

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SUPPORTING HOOK

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4 Claims. (Cl. 248—217)

The present invention relates to supporting hooks of the type adapted for mounting on an upright surface, such as a wall of a building, for supporting garments, wearing apparel, towels, etc. Hooks of this general type have heretofore been made up of bent wire or metal, and sometimes as castings. When it is desired that such hooks possess substantial ornamental appearance they are often painted, or provided with a coating of baked porcelain or enamel, or are sometimes plated. Such coating of the hooks greatly increases the cost of manufacture thereof and has the further disadvantage in that the color effect of such ornamental hooks has definite limitations for use.

The primary object of this invention is to provide a novel supporting hook of the character indicated which, in addition to possessing the highly desirable characteristic of attractive, ornamental appearance, is capable of being manufactured on a relatively inexpensive economical basis.

Another object is to provide a novel supporting hook construction of the character indicated, which may be produced as a molded product in a relatively wide range of colors.

A further object is to produce a novel and improved supporting hook construction that is of relatively light weight, having a mounting base and an integral supporting arm molded as a single unit from plastic material.

Other objects and advantages of this invention will be apparent from the following description taken in connection with the accompanying drawing, in which:

Figure 1 is a perspective view of the novel supporting hook construction embodying the present invention.

Figure 2 is a vertical sectional view through the hook, taken substantially as indicated at line 2—2 of Figure 1.

Figure 3 is a perspective view of the metallic reinforcement member.

Figure 4 is a rear view of the base of the supporting hook, with the metallic reinforcement in place.

The supporting hook constituting the present invention includes a mounting base 10 to which is integrally connected a laterally projecting supporting arm 11. Said base and arm are molded as a single unit from suitable plastic material, and may assume various shapes, contours or relative proportions of the base and arm elements.

As shown in the drawing the arm 11 projects substantially centrally with respect to the base

10, and is of generally conical hollow formation, the outer end of which terminates in an upwardly projecting knob or ball 12. As may be seen in Figure 2 of the drawing, the upper surface of the arm 11 extends substantially perpendicularly with respect to the base 10. The hollow cavity of the arm 11, as seen in Figure 2, opens to the rear side of the base 10.

Said base is provided with a pair of aligned apertures 14, located respectively above and below said arm 11, and are adapted for receiving suitable fastening elements, such as screws, as indicated by dotted lines at 15 in Figure 2, for securement of the mounting base to an upright mounting surface such as a wall. The rear side of the mounting base 10 is recessed so as to provide around its entire marginal edge a recessed shoulder or face 16 for purposes as will presently be described.

As is well known, many of the plastic materials now available do not possess adequate strength and rigidity, comparable with certain metals. Therefore, in order to avoid the use of substantial thicknesses of cross sectional areas of the plastic material, and to insure proper rigidity and strength of the arm 11 with respect to the mounting base 10, I employ a metallic reinforcement which, as shown in Figure 3, is in the form of a sheet metal stamping, including a tapered tang 18, dimensioned for a snug fit with the walls of the interior of the arm 11, as seen in Figure 2. Said tang is formed as a continuation of an elongated reinforcing plate 20, and the tang portion 18, as may be seen in Figure 3, constitutes an extension from an intermediate portion of the side of the elongated plate 20, and is bent upon said plate 20 and is again bent so that the tang portion 18 projects substantially at the right angles to the plate 20, substantially centrally thereof. The thickness of the plate 20 and the recess in the back of the mounting base 10, is such that said plate 20 is adapted to be seated against the facing shoulder 16, and be disposed substantially flush with the rear surface of the marginal edge of said base. Moreover, it will be noted that the plate portion 20 of the reinforcing member has its opposite ends formed substantially square and dimensioned to fit and seat snugly in the recessed back of the mounting plate, to insure proper positioning thereof and insuring an interfitting relationship between the reinforcing plate and base 10. The plate 20 is also provided with a pair of apertures 22, which are located so as to be aligned with the apertures 14 in the mounting base 10

for receiving the fastening elements, such as screws 15.

It will now be apparent that when the supporting hook is secured to a wall or other surface, any strain imposed upon the hook arm 11 will be directly received by the metallic reinforcement, including tang 18 and plate 20 and thereby transmitted directly to the fastening elements. Such an arrangement substantially relieves the strain or load on the arm 11, which would normally tend to sever the arm from its base 10. By forming the base 10 and arm 11 as a unitary article of plastic material it is possible to produce my supporting hook in a wide variety of plastic materials, of various colors, so as to obtain a color appearance of the hook which will harmonize with other surrounding colors in the room or place where the hook is to be employed. The hook construction embodying the present invention is capable of being manufactured on an extremely economical basis as compared to hooks of a similar character provided with ornamental surface coating or platings as have been heretofore available.

Although I have herein shown and described a preferred embodiment of my invention, manifestly it is capable of modification and rearrangement of parts without departing from the spirit and scope thereof. I do not, therefore, wish to be understood as limiting this invention to the precise form herein shown and described, except as I may be so limited by the appended claims.

I claim as my invention:

1. A supporting hook comprising a mounting base provided with spaced apart apertures for receiving fastening elements for securing said base to a mounting surface, a hollow supporting arm formed integrally with and projecting substantially perpendicularly from said base, said base and arm being formed of plastic material, and a metallic member extending into and engaging the wall of said arm and having a body portion engaging said base for reinforcing the connection of the arm to said base.

2. A supporting hook comprising a mounting base provided with spaced apart apertures for receiving fastening elements for securing said base

to a mounting surface, a hollow, tapered arm formed integrally with and projecting substantially perpendicularly from the base, said base and arm being formed as a unit of molded plastic material and having the interior of said arm opening to the back side of the base, and a metal reinforcement including a part snugly fitted into said arm and having a flat body portion, seated within a recessed area formed in the back side of said base.

3. A supporting hook comprising a mounting base provided with spaced apart apertures for receiving fastening elements for securing said base to a mounting surface, a hollow arm formed integrally with and projecting substantially perpendicularly from the base, said base and arm being formed as a unit of molded plastic material and having the interior of said arm opening to the back side of the base, and a metal reinforcement including a part extending into said arm and having a flat body portion, said body portion being provided with apertures adapted to be aligned with the apertures of said base for receiving the fastening elements.

4. A supporting hook comprising a mounting base provided with spaced apart apertures for receiving fastening elements for securing said base to a mounting surface, a hollow, tapered arm formed integrally with and projecting substantially perpendicularly from the base, said base and arm being formed as a unit of molded plastic material and having the interior of said arm opening to the back side of the base, and a metal reinforcement including a part snugly fitted into said arm and having a flat body portion seated in engagement with the back side of said base, said reinforcement being formed as a sheet metal stamping and said part being tapered to correspond with the interior contour of the hollow arm, and the flat body portion being dimensioned for seating in a recessed area formed in the back side of the base, with the outer surface of said flat body portion lying substantially flush with the marginal edge of said recessed area of said base.

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