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G. KAHN

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DOOR KNOB PAINT SHIELD

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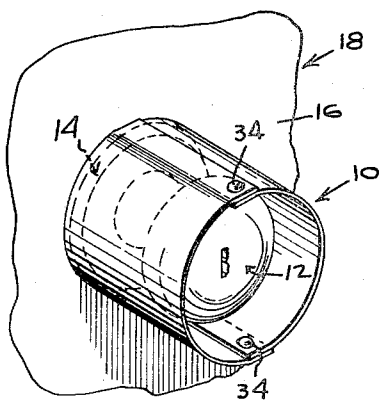


FIG-1

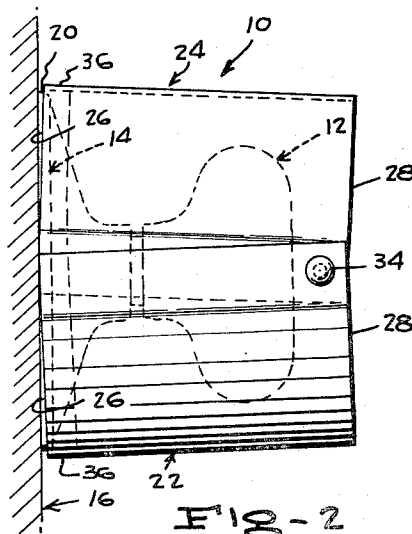


FIG-2

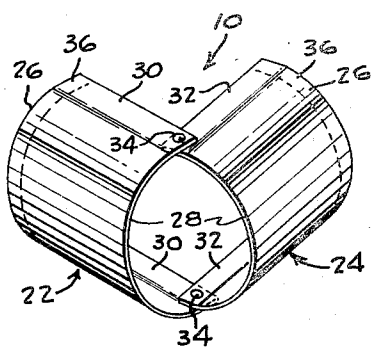


FIG-4

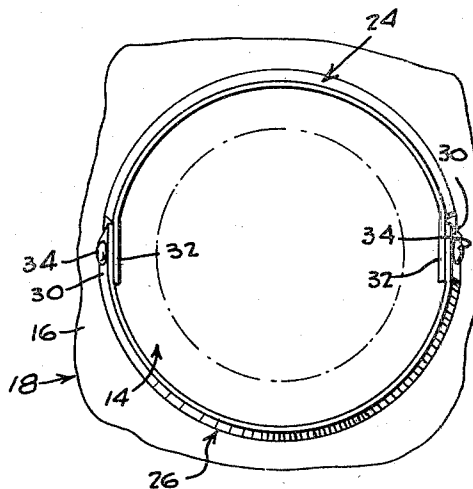


FIG-3

INVENTOR.

GEORGE KAHN

BY

*McMorrow, Gorman & Davidson*  
ATTORNEYS

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## DOOR KNOB PAINT SHIELD

George Kahn, North Miami Beach, Fla.

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5 Claims. (Cl. 118—505)

This invention relates to improved means for shielding and protecting such as building hardware while walls, doors, and the like are being brush-painted or sprayed, and more particularly to a device of this kind especially, but not exclusively, for shielding door knobs and the associated door plates.

The primary object of the invention is to provide a simple, practical, inexpensive, and easily used device of the character indicated above having means for securing the same around and in shielding relation to such as a door knob and its door plate, and against the surface of the door or the like, the device being adjustable to fit different sizes of knobs and plates.

Another object of the invention is to provide a device of the character indicated above wherein the securing means involves magnetized portions on the device arranged to adhere magnetically to door plates of magnetizable material.

Other important objects and advantageous features of the invention will be apparent from the following description and the accompanying drawings, wherein, for purposes of illustration only, a specific form of the invention is set forth in detail.

In the drawings:

Figure 1 is a perspective view showing a device of the invention secured in shielding relation to a door surface, a plate thereon, and a door knob;

Figure 2 is an enlarged side elevation of Figure 1, partly in section;

Figure 3 is an end elevation taken from the right of Figure 2; and

Figure 4 is a perspective view, on the scale of Figure 1, showing the device per se, and in opened condition.

Referring in detail to the drawings, wherein like numerals designate like parts throughout the several views, the illustrated shielding device, generally designated 10, is shown applied to shield a door knob 12 projecting concentrically from a magnetizable metal door plate 14 mounted on and projecting forwardly from the surface 16 of a door 18. As here illustrated for convenience, the door plate 14 is of circular or disc form and has a peripheral edge 20, and the knob 12 is smaller in diameter than the plate 14.

The device 10 comprises two substantially similar hollow semi-cylindrical outer and inner sections 22 and 24, having squared forward and rear end edges 26 and 28.

As apparent particularly in Figures 2 and 3, the outer section 22 has along its longitudinal edges narrow uniform width longitudinal flat flanges 30 which are chordal or tangential to the section and reach beyond the side edges of the section 22 and are parallel to each other. The side edges of the inner section 24 have thereon similar flat flanges 32, which, in the assembled relation of the sections, bear coextensively against the inward sides of the flanges 30 of the outer section 22, so that the flanges 30 and 32 are in mutually overlapping and in frictional engagement with each other, so that the sections are held

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releasably and frictionally in assembled relation to each other, as shown in Figures 1 to 3.

The sections 22 and 24 are made of any suitable magnetizable material having a degree of resilience sufficient to provide for the desired frictional engagement between the flanges 30 and 32.

The sections 22 and 24 are assembled together by suitable pivotal fasteners, such as rivets 34 which extend pivotally through overlapped flanges 30 and 32, at points close to and spaced from the rear end edges 28 of the sections, so that the sections can be hinged from the opened condition shown in Figure 4, to adjusted closed positions, as shown in Figures 1 to 3, wherein the inner sides of the sections engage the peripheral edge 20 of the door plates 14 and the forward edges 26 of the sections bear against the door surface 16. The sections 22 and 24 are of sufficient lengths to reach rearwardly beyond the door knob 12, as shown in Figure 2, with their rear edges 28 spaced from the knob.

While in some cases the friction exerted by engagement of the flanges 30 and 32 with each other and the holding effects of the rivets 34 may be sufficient to keep the forward ends of the sections 22 and 24 in gripping relation to the peripheral edge 20 of the door plate 14, so as to hold the device 10 in place, I prefer to provide magnet means at the forward ends of the sections for adhering the sections to the peripheral edge of the door plate. As here shown, suitable magnet means preferably comprises narrow magnetized areas 36 at the forward edges of the sections.

Because of the locations and arrangements of the rivets 34 in the sections 22 and 24, the aperture at the forward end of the device 10 can readily be made larger or smaller, so as to accommodate the same to door plates of different diameters, by pivoting the sections relative to each other. The flanges 30 and 32 are sufficiently wide to remain in overlapping relation to each other in all contemplated angular adjustments of the sections.

The device is quickly and easily applied by first making a rough angular adjustment of the sections, putting the device forwardly over the knob 12 with its forward end against the door surface 16 around the door plate 14, then squeezing the sections together so as to produce engagement of the sections with the peripheral edge 20 of the door plate. Removal of the device is simply a matter of pulling the device rearwardly over the door knob.

Although there has been shown and described herein a preferred form of the invention, it is to be understood that the invention is not necessarily confined thereto, and that any change or changes in the structure of and in the relative arrangements of components thereof are contemplated as being within the scope of the invention as defined by the claims appended hereto.

What is claimed is:

1. A paint shield comprising a hollow cylindrical form having two hollow semi-cylindrical sections having forward and rear end edges and connected together at the complementary rear end edges for movement relative to each other, said form being adapted to be passed over a door knob and a door plate whereby said forward end edge will be engaged with the surface of the door around the door plate, and means on said form for holding the form in place.

2. A paint shield comprising a cylindrical form having two hollow semi-cylindrical sections having forward and rear end edges and longitudinal side edges, flat tangential longitudinal flanges on and extending along said side edges, the flanges of one section being engaged with the outward sides of the flanges of the other section, and pivot means traversing engaged flanges at points near the rear ends of the sections.

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3. A paint shield according to claim 2, wherein said sections are resilient and related flanges are frictionally engaged with each other so as to hold the sections releasably in operative cylinder forming condition, said sections being pivotable toward and away from each other to adjust the aperture of the form at the forward ends of the sections.

4. A paint shield according to claim 2, wherein said sections are resilient and related flanges are frictionally engaged with each other so as to hold the sections releasably in operative cylinder forming condition, said sections being pivotable toward and away from each other to adjust the aperture of the form at the forward ends of the sections, and magnet means on the sections at their forward end edges.

5. A paint shield according to claim 2, wherein said sections are resilient and related flanges are frictionally engaged with each other so as to hold the sections releas-

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ably in operative cylinder forming condition, said sections being pivotable toward and away from each other to adjust the aperture of the form at the forward ends of the sections, and magnet means on the sections at their forward end edges comprising magnetized portions extending around the forward end edges of the sections.

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