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PAINT ROLLER SHIELD

Filed Feb. 3, 1960

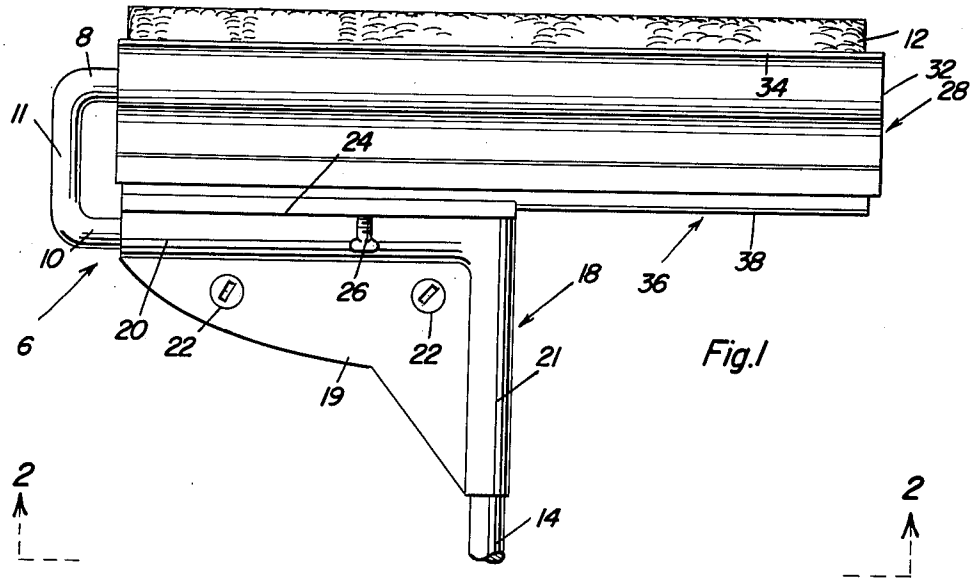


Fig.1

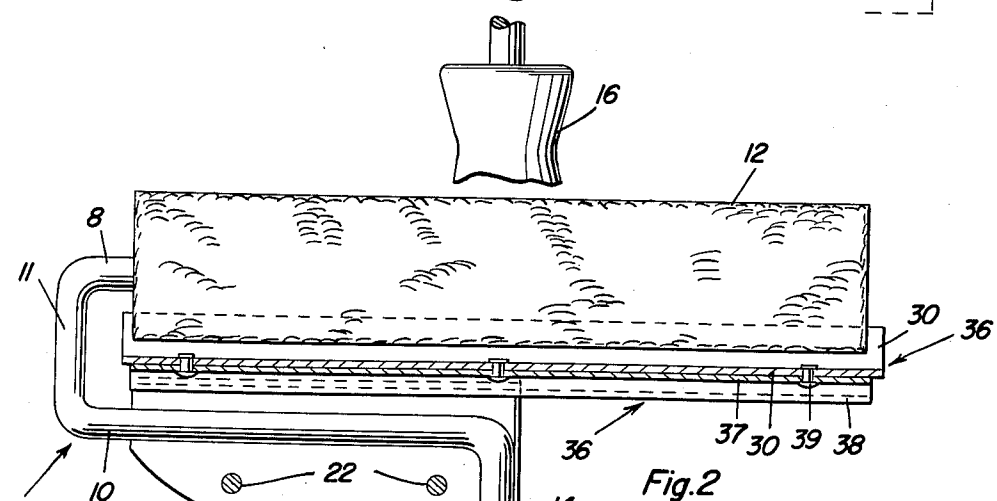


Fig.2

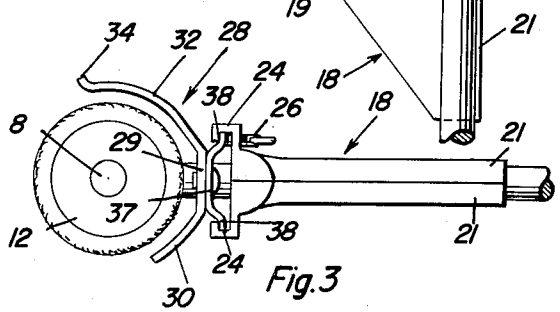


Fig.3

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PAINT ROLLER SHIELD

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The present invention relates to readily applicable and removable fender-type anti-splash shields such as are being advocated and promoted for use on and in conjunction with popularly used roller-type paint applicators, and the object of the invention is to advance this line of endeavor by way of what is believed to be, a structurally and functionally improved roller shield.

As the preceding general statement of the nature of the invention clearly implies, spray trapping and anti-splash shields are not new. In fact, persons conversant with this field of accomplishment are aware that many and structurally varying shields have been evolved and produced and, no doubt, effectually used. Nevertheless, and even so, no one type of shield has been unqualifiedly endorsed to the extent of having come into widespread use. For these and other reasons which are generally taken into consideration by manufacturers, wholesalers and retailers, there is room for improvement. Confronted with this problem, and having solved the same satisfactorily, the construction herein revealed has been perfected.

In carrying out the principles of the instant concept no alterations whatsoever in the more-or-less standard paint roller applicator will be involved. To this end, two principal components or parts are being used; namely, an adapter bracket which is readily attachable to the roller carrying frame, and a fender-type plate, providing the shield, said shield being slidingly, adjustably and reversibly mounted on novel track means provided therefor on the adapter bracket.

More explicitly, the adapter bracket is of sectional construction. The two sections are clamped together and equipped with opposed coplanar channels defining open-ended tracks. These tracks serve to accommodate keying flanges constituting component portions of an attaching and an adjusting cleat carried by a median convex side of the elongated insertable and removable concavo-convex shield.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

FIG. 1 is a side elevational view of a conventional-type paint roller applicator having the herein-advocated anti-splash shield mounted thereon for use;

FIG. 2 is a central sectional view with parts in elevation which may be thought of as taken on the plane of the line 2—2 of FIG. 1, looking in the direction of the arrows; and

FIG. 3 is a view on a smaller scale which is an end elevation observing FIG. 1, for example, in a direction from right to left.

As before mentioned the paint roller applicator is unchanged and has to do with a conventional type. As is usual, the U-shaped frame **6** has long and short arms **8** and **10** joined by a bight portion **11**. The arm **8** constitutes a spindle on which the regular applicator roller is mounted, the roller denoted at **12**. The short arm has a lateral bent portion commonly referred to as a handle shank and this shank **14** is connected to the customary wooden or equivalent hand-grip **16**.

The adapter bracket or clamp **18** is constructed from

sheet material (commercial plastics, non-corrodable metal or equivalent material) and this bracket is made up of a pair of duplicate half-sections each embodying a reinforcing plate-like web **19** bordered marginally by semi-circular channel members or portions **20** and **21** at right angles to each other and embracing the component parts **10** and **14** of the frame **6**. These plates are superimposed and riveted or otherwise secured together as at **22**. As better shown in FIG. 3, the horizontal channel members abut each other to provide a sort of an elongated head which, in turn, is provided with lengthwise open-ended tracks **24** channel-shaped in cross-section. One track, if desired, may be provided with a setscrew **26**. The fender-type shield is denoted by the numeral **28** and here again this is made of sheet material and this shield is commensurate in length with the length of the roller and is arcuate in transverse cross-section. More specifically, this shield may be said to embody a generally flat median portion **29**, a short wing or baffle **30** on one side and a longer suitably conforming baffle **32** on and along the other side, the latter baffle terminating in an outturned or outwardly flaring lip **34**. The flat portion **29** serves to accommodate a correspondingly made flat portion **36** on the elongated cleat **37**. This cleat is provided along its longitudinal edges with laterally offset keying flanges **38** which are properly made to fit slidingly in the aforementioned channel-tracks **24** as illustrated. The setscrew **26** is arranged to engage one of the flanges and to bind it frictionally in a set position so as to, in this manner, adjustably fasten the cleat on and in the trackways. The length of the cleat corresponds with the length of the shield and rivets or other suitable elements **39** (FIG. 2) function to secure the parts **29** and **37** in superimposed cooperating relationship. Thus, a simple concavo-convex elongated detachable anti-splash shield (of requisite size, shape and material) provided with a cleat, is readily applicable to the simple adapter bracket by way of tracks or channel members provided therefor on the adapter bracket. The separable connection shown makes it possible for a user to separate the parts for practical periodical cleaning needs. Also, the separable connection between the shield **28** and bracket **18** makes it possible for a user to "switch" the shield when painting in right and left hand joined corners of walls; whereby to paint closer, with roller, to joined walls. This change-over necessitates sliding the shield off the track means on the bracket and reversing the U-shaped frame **6** from left to right; sliding the shield on again and proceeding without any interference from the component parts of the U-frame.

As is evident, the concept comprehends the provision of a shield having the elongated marginally flanged cleat or clip (as it is sometimes called) and suitable track means mounted on the arm **10** of the frame **6** which means that it would be an easy matter for a manufacturer to provide the arm **10** with the tracks at the time of manufacture. For this reason the invention is not necessarily to be construed merely as an "attachment" for paint roller applicators which are now on the market inasmuch as it is practical to produce and provide the invention as a stock part of the applicator.

It is believed that a careful consideration of the specification, the objectives recited therein, the description of the details and the accompanying claims will enable the reader to not only understand the construction but the features and advantages, whether explicitly recited or not. Therefore, a more lengthly description is believed to be unnecessary.

It is further understood that minor changes in shape, size, materials and similar variations may be resorted to in actual practice without departing from the spirit of the invention or the scope of the appended claims.

What is claimed as new is as follows:

1. A paint applicator comprising a frame including a rod having a handle portion and a laterally bent intermediate portion terminating in a reversely bent, spaced, parallel end portion, a paint roller journaled on said end portion, a removable rigidifying brace for the frame comprising a clamp including a pair of opposed generally isosceles triangular, substantially duplicate plates comprising opposed, right angulated marginal channels seatingly receiving said handle and said intermediate portions of the rod therebetween for positively retaining said clamp against slippage in all directions on the frame, means detachably securing the plates together in face-abutting engagement on the rod, a pair of spaced, opposed channel members integral with the plates and paralleling the roller, a flat removable and reversible bar including laterally offset longitudinal marginal flanges freely slidably engaged in the channel members, and an elongated shield for the roller mounted on said bar in spaced parallelism with said roller, said shield being of generally

C-shaped cross section and including a flat longitudinal median portion in face-abutting engagement with the bar and affixed thereto.

2. A paint applicator in accordance with claim 1, together with means for releasably securing the bar in the channel members.

3. A paint applicator in accordance with claim 2, wherein the last named means includes a setscrew threadedly mounted on one of the channel members and engaged with the bar.

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