OPEN END PAINT ROLLER

Fig. 1

Fig. 2

Fig. 3

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ABSTRACT OF THE DISCLOSURE

A paint roller having an extended end to allow immersion of the full roller into paint without getting paint into the bearings.

This invention relates to paint rollers used for painting flat surfaces.

A principal object of the present invention is to provide a paint roller having an open end which is extended in length so as to permit full immersion of the roller painting surface into a can of paint without getting any paint into the bearings that support the handle.

Another object is to provide an open end paint roller that can paint directly into a corner formed between flat surfaces.

Another object is to provide an open end paint roller that does not require rolling excess paint off on a board.

Yet another object is to provide an open end paint roller that can be cleaned without wetting the moving parts thereof, and wherein the bearing may be kept in oiled condition.

Yet a further object is to provide an open end paint roller that is of relatively light weight, and which rolls easily without excessive effort.

Yet a further object is to provide an open end paint roller wherein the roller cover will not work itself off nor slip, yet wherein the cover may be easily replaced when desired.

Other objects are to provide an open end paint roller which is simple in design, inexpensive to manufacture, rugged in construction, easy to use and efficient in operation.

These and other objects will be readily evident upon a study of the following specification and the accompanying drawings.

FIGURE 1 is a side elevation view of the present invention shown partly in cross-section.

FIGURE 2 is a side view thereof shown immersed in a can of paint, and

FIGURE 3 is a fragmentary side view showing the bearings being oiled.

Referring now to the drawing in detail, the reference numeral 10 represents an open end paint roller according to the present invention wherein there is a frame 11 upon which a painting surface material 12 is supported, the material 12 comprising either lamb wool, fabric, or any other painting surface material conventionally used.

The frame 11 comprises a metal central tube 13 inserted into a sleeve 14 made either of rubber, wood, or other light weight material, the outer painting surface material 12 being wrapped therearound.

The tube has a central chamber 15 that is plugged at one end by a cork plug 16. A pair of spaced apart ball bearings 17 are fitted securely within the tube chamber for supporting therethrough a straight leg 18 of a handle 19, the leg 18 extending out of the opposite end 20 of the tube. The tube end 20 is outwardly flared as shown at 21 so as to provide funnel characteristics when oil is dropped into the chamber 15 for oiling the bearings. The flare 21 also serves as a shield for preventing paint from entering the chamber when the roller is immersed in a can of paint. An oil seal 22 is fitted near the end 20 so as to close off the chamber 15 and the bearings 17 therewithin.

The handle 19 includes a leg 23 at right angle to leg 18, a leg 24 at right angle to leg 23, and a leg 25 at right angle to leg 24; the latter having a dowel 26 for convenient grasping within a person's hand.

As shown in the drawing, the tube is longer than the sleeve and accordingly the end 20 extends outwardly thereof.

Thus, in operative use, when the roller 10 is dipped into a can 27 having paint 28, the end 20 extends above the paint surface, thus preventing paint getting into the bearings. The flared end 20 allows easy placement of oil drops 29 for oiling the bearings. It also prevents paint drops 30 getting inside the tube during rolling operation.

While various changes may be made in the detail construction, it is understood that such changes will be within the spirit and scope of the present invention as is defined by the appended claim.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In an open end paint roller, the combination of a frame and a painting surface material in the form of an absorbent sleeve supported on said frame, said frame comprising a tube within said sleeve, ball bearings carried within said tube, and one leg of a handle being supported within said ball bearings, said leg extending out of one end of said tube, the opposite end of said tube being plugged by a cork plug, and the first said end of said tube extending beyond the inner end of said absorbent sleeve, and tube first end being outwardly flared.

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