Sept. 24, 1957 J. E. ADAMS ET AL 2,807,040

GUARD ATTACHMENT FOR A PAINT APPLYING ROLLER

Filed Aug. 6, 1954

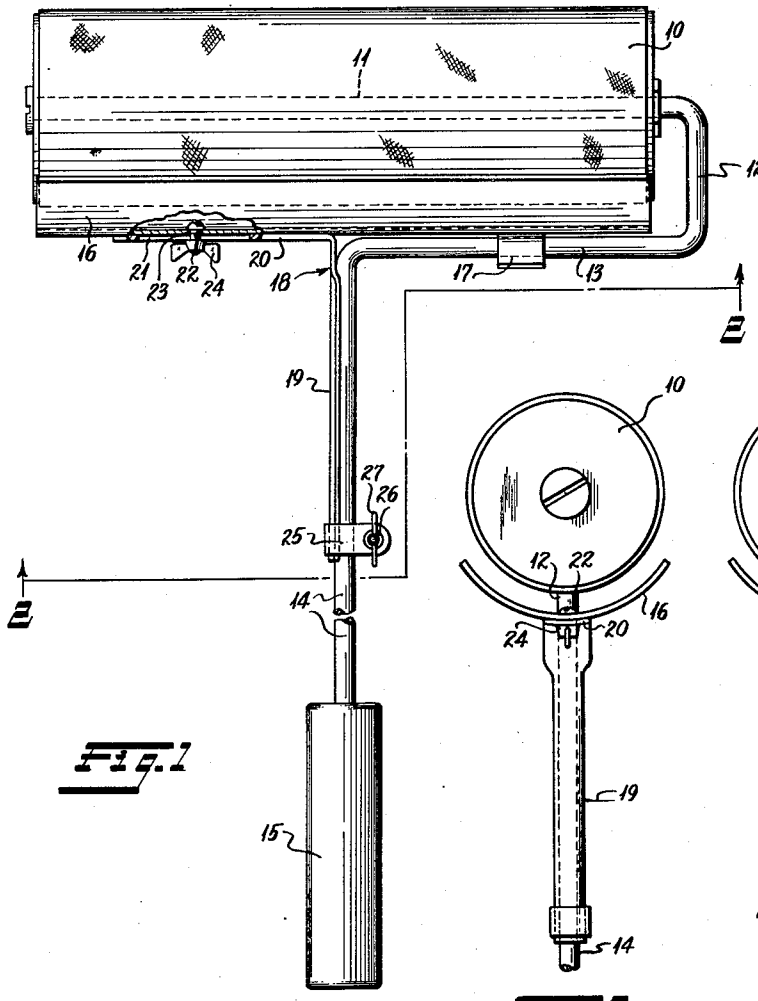


Fig. 1

Fig. 3

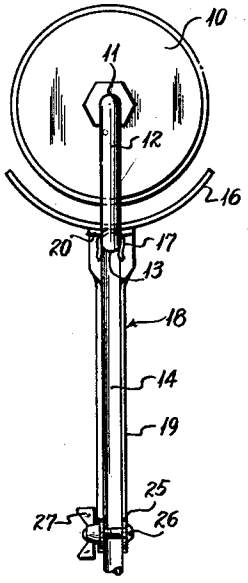


Fig. 4

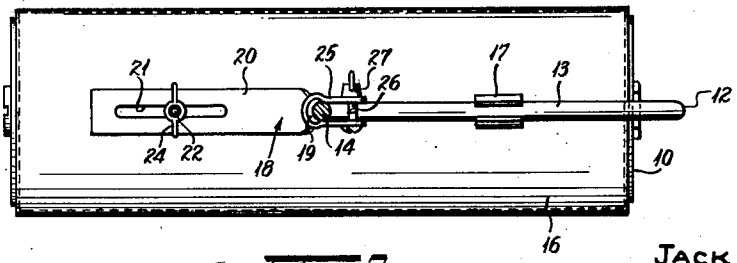


Fig. 2

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United States Patent Office 2,807,040 Patented Sept. 24, 1957

2,807,040

GUARD ATTACHMENT FOR A PAINT APPLYING ROLLER

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Application August 6, 1954, Serial No. 448,185

3 Claims. (Cl. 15—248)

Our invention relates to improvements in paint applying rollers.

An important object of the invention is to provide a guard or shield for the cylindrical paint roller which is in the nature of an attachment to be mounted upon the handle or arm, upon which the paint roller is journaled.

Another object is to provide a guard or shield of the above-mentioned character which may be applied to newly manufactured and existing paint rollers.

A further object is to provide a guard for paint rollers which is constructed and arranged to effectively prevent splattering and dripping of the paint from the roller onto the hands or body of the operator while painting ceilings, walls and the like.

A still further object is to provide a device of the character mentioned above which is extremely simplified in construction, adjustable, easy to apply to and remove from conventional painting rollers, and inexpensive to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings, forming a part of this application, and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a side elevation of a paint applying roller equipped with a guard or shield in accordance with our invention,

Figure 2 is a horizontal transverse section taken on line 2—2 of Figure 1,

Figure 3 is an end elevation of the roller and guard, parts broken away, and

Figure 4 is an opposite end elevation of the device with parts broken away.

In the drawings, where for the purpose of illustration is shown a preferred embodiment of the invention, the numeral **10** designates a conventional fountain paint applying roller of the type covered by a section of soft woven or knitted textile material or the like. The roller **10** is freely journaled for rotation upon a shaft or axle **11**, as shown in the drawings. The axle **11** is carried by the forward end of a short longitudinal extension or arm **12**, preferably formed integral therewith, and arranged at right angles to the axle **11**. The longitudinal extension **12** is spaced somewhat from one end of the roller **10**, as shown.

A transverse arm **13** is integrally secured to the rear end of the extension **12**, and arranged at right angles thereto. The arm **13** extends laterally inwardly of the extension **12**, parallel with the axle **11** and spaced rearwardly therefrom and from the roller **10**. The inner end of the arm **13** terminates at the longitudinal center of the roller **10**, as shown.

A longitudinal handle or rod **14** of any preferred length is integrally secured to the inner end of the transverse arm **13**, and extends rearwardly thereof, at right angles thereto and at right angles to the roller **10**. The rod **14** is provided at its rear end with a suitable hand grip **15**, as shown.

The construction thus far described is that of a conventional paint applying roller, and we will now describe the attachment in accordance with the present invention.

Our attachment comprises an elongated guard or plate **16** of sheet metal, or the like, which is arcuate in cross section, and preferably curved so as to be concentric with the periphery of the roller **10**. The guard **16** is preferably of the same length as the roller **10**, as shown.

The guard **16** is provided upon its outer side and at its transverse center, and near and inwardly of one of its ends with a generally U-shaped spring clip **17**, permanently secured thereto by welding or the like. The clip **17** is adapted to engage over the transverse arm **13**, near the longitudinal center of the same. The spring clip **17** snugly engages the arm **13**, and serves to firmly secure the adjacent end of the guard **16** to the arm **13**. However, the spring clip **17** renders the guard **16** readily removable from the arm **13** and also adjustable longitudinally thereof, as required.

An L-shaped bracket **18** is provided, and this bracket comprises a longitudinal arm or portion **19** of considerable length, adapted to engage the side of the longitudinal rod **14** remote from the extension **12**. The arm **19** is preferably arcuate in cross section, for contact with the rod **14** which is cylindrical. The arm **19** is long enough to provide a firm bearing engagement for the bracket **18** with the rod **14**, as shown.

The bracket **18** further comprises a transverse extension or arm **20**, integral with the arm **19**, and arranged at right angles thereto. The transverse arm **20** engages the outer side or bottom of the guard **16**, throughout a considerable portion of the length of the guard which extends beyond the side of the rod **14** remote from the transverse arm **13**. The arm **20** is also preferably somewhat arcuate in cross section, for firm engagement with the periphery of the guard **16**. The arm **20** is provided with a longitudinal slot **21**, extending throughout a considerable portion of its length. This slot receives a screw **22**, engaging through an opening **23** of the guard **16**, at the transverse center of the guard, and substantially midway between the rod **14** and the adjacent end of the guard. The outer end of the screw **22** carries a winged nut **24**, which engages the slotted arm **20**, and clamps the same tightly to the guard **16**. The L-shaped bracket **18** supports the end of the guard **16** remote from the arm **13**.

A generally U-shaped clamp or clip **25** surrounds the longitudinal arm **19** and rod **14** near the rear end of the arm **19**. The clip **25** may be separate from the arm **19**, or rigidly secured thereto by welding or the like. The free ends or sides of the clip **25** are apertured for the reception of a screw **26**, carrying a winged nut **27**. The screw **26** is arranged close to the longitudinal rod **14**, and when the nut **27** is tightened, the clip **25** is drawn into tight clamping engagement with the rod **14** and arm **19**, for rigidly securing the bracket **18** to the rod **14**.

It is thus seen that we have provided a guard or shield for the painting roller **10** which will prevent splattering of the paint and dripping of the paint upon the hands and body of the user of the device. The guard is in the nature of an attachment which may be readily applied to and removed from the handle upon which the roller proper is journaled. The guard is adjustable so that it may fit rollers of somewhat different sizes, and the slot **21** and spring clip **17** allows the guard **16** to be adjusted longitudinally of the arm **13** and bracket **18**, for centering the guard longitudinally with respect to the roller **10**. The attachment is sturdy and durable, light weight, and easy to apply to and remove from the paint applying tool.

It is to be understood that the form of our invention,

herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to, without departing from the spirit of the invention or scope of the subjoined claims.

Having thus described our invention, we claim:

1. In a paint applying tool, a roller for applying paint, an axle rotatably holding said roller, an arm spaced from the axle and roller and substantially parallel therewith and carrying the axle, a handle secured to said arm intermediate the ends of the roller and extending substantially at right angles to the arm and roller, a guard spaced from the periphery of the roller and extending longitudinally of the roller throughout a major portion of its length, said guard being arranged between the roller and said arm and extending on opposite sides of said handle, an element carried by said guard and engaging the arm for securing the guard thereto, an L-shaped bracket including a longitudinal arm and a transverse arm, the longitudinal arm bearing against the side of the handle remote from the first named arm, the transverse arm of the bracket engaging the outer side of the guard near the end of the guard remote from said element, means securing the transverse arm of the bracket to the guard, and means for securing the longitudinal arm of the bracket to said handle.

2. An attachment for a paint applying roller having a handle extending substantially at right angles to the roller intermediate its ends and a transverse arm carrying the handle and roller and spaced from the periphery of the roller, said attachment comprising a substantially L-shaped bracket adapted to be secured to said handle and having a part disposed to extend transversely of the handle in a direction opposite to said transverse arm, a guard adapted to be disposed between the periphery of the roller and said arm and overlying said part of the bracket which extends transversely with relation to said handle, means for detachably securing the guard to the transverse arm, and means connecting the guard with said part of the bracket.

3. In a paint applying device having a roller, a transverse arm carrying the roller and spaced therefrom, and a handle secured to said arm and extending at right angles thereto near the longitudinal center of the roller, the combination with said arm and handle, of an arcuate plate extending longitudinally of the roller and arm between the roller and arm and being of substantially the same length as the roller, a clip carried by said plate near one end thereof and receiving said arm for detachably securing the plate thereto, an L-shaped bracket including longitudinal and transverse portions, said longitudinal portion contacting the handle throughout a considerable portion of its length, the transverse portion of the bracket underlying said plate at the portion of the plate remote from said arm, the transverse portion of the bracket having a slot, a screw connected with the plate and engaging said slot, a nut carried by the screw for clamping the transverse portion of the bracket to the plate, and a clamp for detachably securing the longitudinal portion of the bracket to said handle.

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