

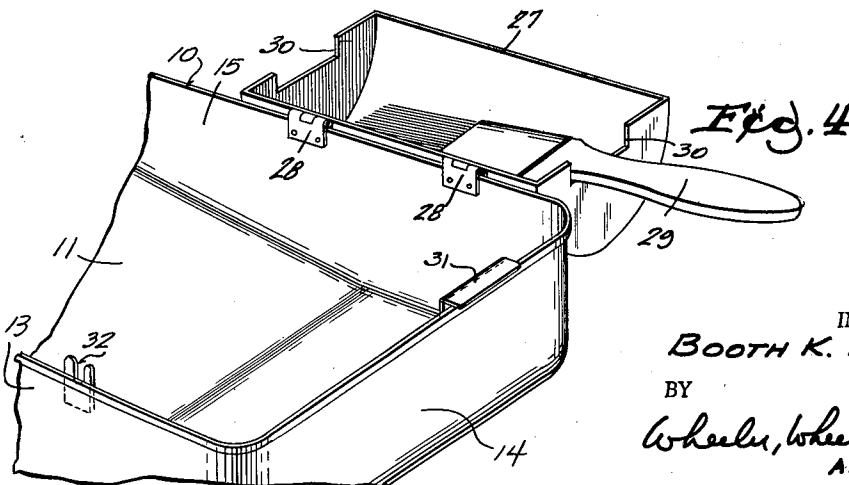
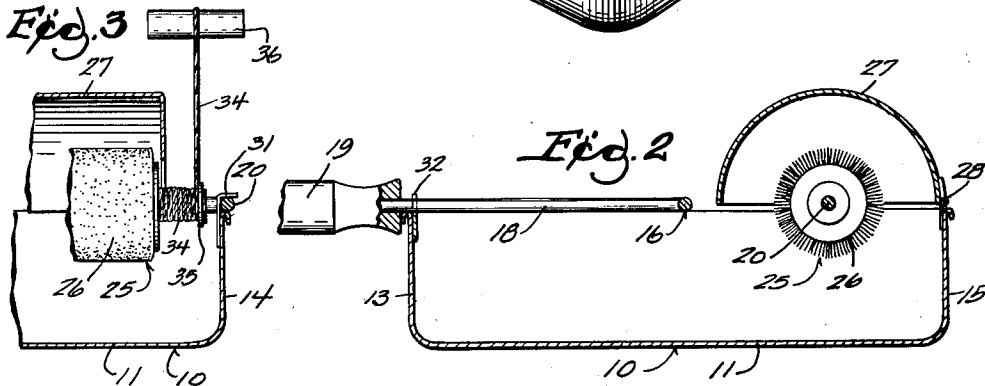
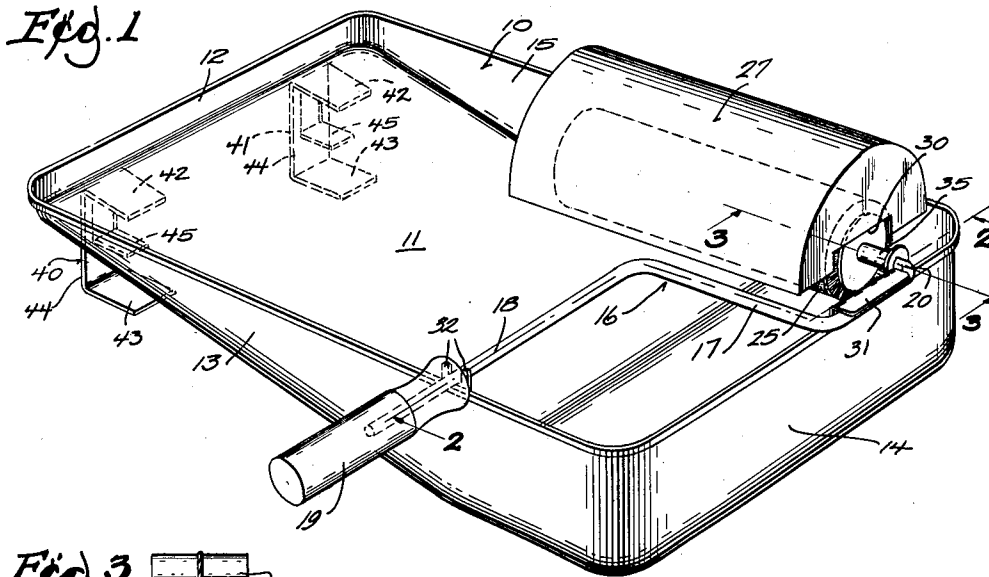
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PAINT ROLLER AND TRAY COMBINATION

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PAINT ROLLER AND TRAY COMBINATION

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This invention relates to an improvement in a paint roller and tray combination.

More particularly stated, the invention relates to such a combination of paint tray construction and paint roller cleaning equipment as to provide a paint tray wide open and unimpeded for the operator's use thereof during a painting operation, with unencumbered use of the usual paint roller and at the same time to provide paint tray equipment to receive the paint roller in sufficiently housed relation to the pan of the tray so that a rapid spinning of the roll may be accomplished during roll cleaning procedure.

In the drawings:

FIG. 1 is a perspective of the paint tray and paint roller combination with a hood in position to shield the roll of the roller during a spinning cleaning operation;

FIG. 2 is a section on line 2—2 of FIG. 1, parts of the handle of the paint roll being broken away;

FIG. 3 is a vertical section showing fragmentary portions of the tray, the hood, spinnable parts of the paint roll with spinner attached and a portion of the frame and shaft of the paint roll, the section being approximately on line 3—3 of FIG. 1;

FIG. 4 is a view in perspective showing a portion of the one end of the paint tray with the hood in opened position and showing somewhat diagrammatically the position of a paint brush in the inverted hood.

In carrying out a paint roll type of painting operation, a tray 10 having a bottom 11 and marginal flanges 12, 13, 14 and 15 is so shaped that one end thereof is quite deep and the flanges are so designed that the other end of the tray is more shallow. Then there is a paint roll 16 including a frame 17, shaped like a question mark. The elongated handle 18 of the frame is equipped with some form of enlarged grip 19, and the portion of frame 16 disposed at right angles to the handle 18 comprises a shaft 20 upon which there is mounted for free rotation a cylindrical paint roll 25 clothed with some form of pile fabric or sheep's wool 26.

As is well-known in this art, the paint roll clothing 26 is rotated down into the deeper portion of the sump of the tray along the downwardly sloping bottom 11 and, as a desirable depth of paint is maintained in the tray, the clothing of the roll picks up the paint for application roller-wise to a surface to be painted. Throughout these operations, the grip 19 of the roll 16 is held firmly in the hand of the user and the roll is provided with increments of paint upon each occasion that the clothing 26 of the roll is rolled down the inclined bottom into the sump of the tray.

Most of the equipment now to be described relates to two features of combination between the tray and the roll 16 and the added equipment of the tray used during a roll cleaning operation at a time when the clothing of the roll is revolved so rapidly upon the shaft 20 as to centrifugally throw paint or paint solvent or cleaning liquid from the paint roll clothing 26 as may be accomplished in the manner now to be described. Swingably, preferably hingedly attached along one margin of a flange such as flange 13 or 15 is a hood 27 shaped to encompass approximately the top half of the roll clothing 26, in somewhat spaced relation, when the parts are arranged as shown in FIG. 1. The hinge or swing mounting of the hood 27 is so designed, as for instance shown at 28, that

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when the hood is swingably positioned in outboard relation to the pan 10 as shown in FIG. 4, the hood will tend to assume a stopped relation in which the hood may act as a receptacle for such an article as a paint brush 29.

5 Some facility for the reception of a handle of a paint brush is shown by the cut out portion of the end wall of the hood as shown at 30, and these same cut outs at 30 provide sufficient relief so that the hood does not contact spinnable portions of the paint roll.

10 Secure placement of the handled paint roll in relation to the pan and particularly the top margins thereof is provided by means of a clip 31 so designated as to retain the "curved" portion of the frame 17 so that portion is in weight supported relation to the top margin of flange 14. 15 At 32 there is a bifurcated retainer secured to flange 13 of tray 10, and between the arms of the retainer the elongated handle 18 is receivable as it assumes a position against the top margin of flange 13.

As thus described, it will be apparent that when the 20 paint roll 16 with its rod-like frame is disposed as shown in FIG. 1, a very slight restraint by the user applied upon the grip 19 will hold the combination tray and paint roll in assembled relation. It is then possible to spin the clothed roll 26 by winding a cord 34 around a spool 35 25 forming part of the roll which carries the clothing 26. A handle 36 on the end of the cord 34 facilitates the rapid unwinding of the cord from the spool as the handle is pulled in an unwinding operation.

It will now be obvious that as the roll is spun in the 30 manner indicated underneath the hood as placed according to the disclosure in FIG. 1, the centrifugal cleaning of the clothing 26 of the roll is accomplished, and the cleaning fluid and residual paint accumulation thrown against the underside of the hood 27 will be drained into 35 the sump of the tray. When the hood has been swung to the position shown in FIG. 4, it requires slight manipulation after a lifting motion respecting the grip 19 and handle 18 to release the paint roll from the tray.

Because, as described above and as shown in FIG. 1, 40 the tray 10 is shallower at one end than it is at the other, it is helpful to have levelling legs 40 and 41 under the shallow end of the tray. These legs are simple U-shaped bent straps with the upper leg of the U at 42 bonded to 45 the underside of the tray and the lower leg 43 of the U disposed as a foot. The intervening upright portion 44 provides sufficient height to level up the top margins of the flanges 12—15.

I claim:

50 1. A combination paint roller, tray and roll spinner assembly comprising a marginally upwardly flanged tray, a hood, means shiftably mounting the hood to the flange in position alternatively to overlie the tray and to clear the tray, said paint roller comprising a frame on which the 55 roller is spinnable and a motion receiving roll spinning coupling, said frame having an angular configuration, and means for holding said frame to the flange with the roller over the tray and within the hood when it overlies the tray and with the motion receiving coupling outside 60 the hood.

2. The combination of claim 1 wherein the frame is provided with an outstanding handle and an axis for the roll normal to the handle; said handle spanning across the tray when the frame is held to the tray flange.

65 3. The combination of claim 1 in which the means shiftably mounting the hood to the tray flange comprises a hinge.

4. The combination of claim 3 in which the hood is swingable on said hinge to a position clear of the tray and 70 in inverted relationship to the tray.

5. The device of claim 1 in which the means for holding the frame to the flange comprises one member shaped

to hold the frame down upon one margin of the tray and another member shaped to position the frame against lateral movement along another margin of the tray.

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