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INTERCHANGEABLE STIPPLING ROLLER

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2 Claims. (Cl. 41—5.5)

This invention relates to roll-stipplers having replaceable frictionally supported cardboard tubes covered all over its outer surface with a yielding material such as carpet, rubber, and the like, and used in impressing designs on coated surfaces, particularly on building walls being painted.

An object of this invention is to provide a rotatably mounted roll carrier or supporting member made of metal and having a yieldably covered tube removably secured on said carrier, the said tube being easily removed when covered with paint and a clean tube mounted on the carrier.

Another object of this invention is to impregnate the cardboard tubes with a chemical such as glycerin or other repellent of paint removing liquids such as benzine or turpentine to prevent softening and destruction of the tubes.

Another object of this invention is to provide a stippling roller supported on end members having resilient action and being thereby adapted to stipple uneven surfaces.

With the above and other objects in view, the invention will be hereinafter more particularly described, and the combination and arrangement of parts will be shown in the accompanying drawing and pointed out in the claims which form part of this specification.

Reference will now be had to the drawing, wherein like numerals of reference designate corresponding parts throughout the several views, in which:

Figure 1 is a central cross-sectional view of the roller carrier.

Figure 2 is a cross-sectional view, the section being taken as on line 2—2 in Figure 1.

Figure 3 is a plan view of the stippling roller, partly broken away to show the interior of the roller.

Figure 4 is a cross-sectional view, the section being taken as on line 4—4 in Figure 3.

Figure 5 is a fragmentary cross-sectional view of a modified roller carrier.

Figure 6 is a side elevation, on a reduced scale, of the roller carrier and a guard, the roller being removed.

Figure 7 is an end view of the roller carrier and guard shown in Figure 6.

Figure 8 is a fragmentary portion of the shank, showing means for supporting the guard member.

In the illustrated embodiment of the invention, the numeral 10 indicates a tubular roller carrier comprising a thin metal casing 11 having dish-shaped end members 12, 12, made of metal and being fixedly secured at opposite ends of the casing.

Each end member 12 has a central aperture 13 designed to receive reduced bearing portions of an axle 14 on which the tubular carrier 11 is mounted for free rotation. Each end member 12 has a flange 15 which causes the end members to remain in mechanically interlocked relation with the tubular casing and so that the axle is at all times freely rotatably mounted in relation to the casing.

As best shown in Figure 1, each end member 12 is positioned within the casing in a manner to provide a large central opening 16 serving to house threaded ends 17, 17, of the axle 14. Each end 17 terminates inwardly of one of the end faces of the casing 11. One threaded end 17 of the axle 14 has a wing nut 18 threaded thereon.

As shown in Figures 3 and 4, I have provided a stippling roller 20 comprising a cardboard or other fibrous tube 21 having a sheet of yieldable material 22 cemented thereto in unitary relation. The cemented sheet material 22 may be carpet having cord-like nap 23 which is adapted to stipple freshly painted surfaces without absorbing the paint or spattering it.

It is to be noted that while I have shown in the drawing a carpet covered fibrous stippling roller designed for stippling painted surfaces, that I may employ rubber covered fibrous tubes or covering members having plain, corrugated, or comb-like outer surfaces for smoothing or design imprinting surfaces to be decorated.

It has been customary heretofore to make stippling rollers integral with the roller carrier. In practice, it is found necessary to have an assortment of stippling rollers of various lengths, which is a detriment when the painter has to move his tools from one location to another. With the removable and interchangeable structure herein described, the roller may be readily removed from the carrier for cleaning the paint from the roller. This cleaning operation is done by placing the roller in turpentine or in benzine or into another chemical which can dissolve and remove paint.

In order to prevent the cardboard or fibrous absorbent tube 21 from swelling when dipped in paint remover, I impregnate the said tube with glycerin or similar chemical which is a repellent to paint dissolving liquids.

Figure 5 is a fragmentary cross-sectional view of a roller carrier 25 having modified end members 26 made of molded rubber having a resilient action transverse to the axle 14. The