Aug. 9, 1949. G. R. RAUB, JR 2,478,318

PAINT APPLICATOR OF THE STIPPLING ROLLER TYPE

Filed May 7, 1946

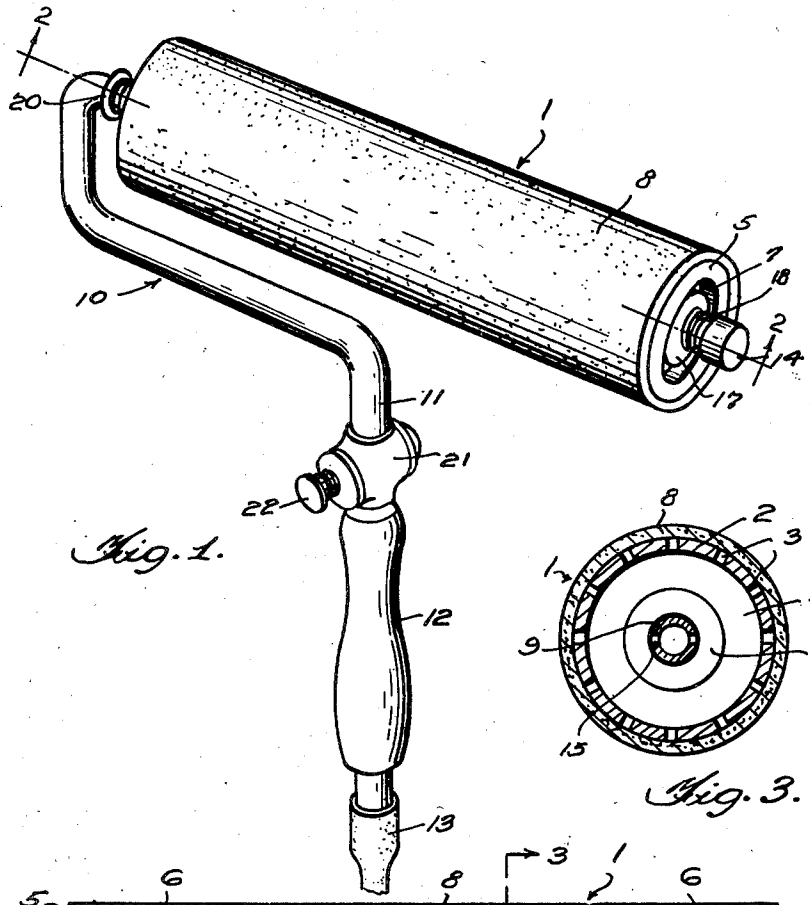

Fig. 1.

Fig. 3.

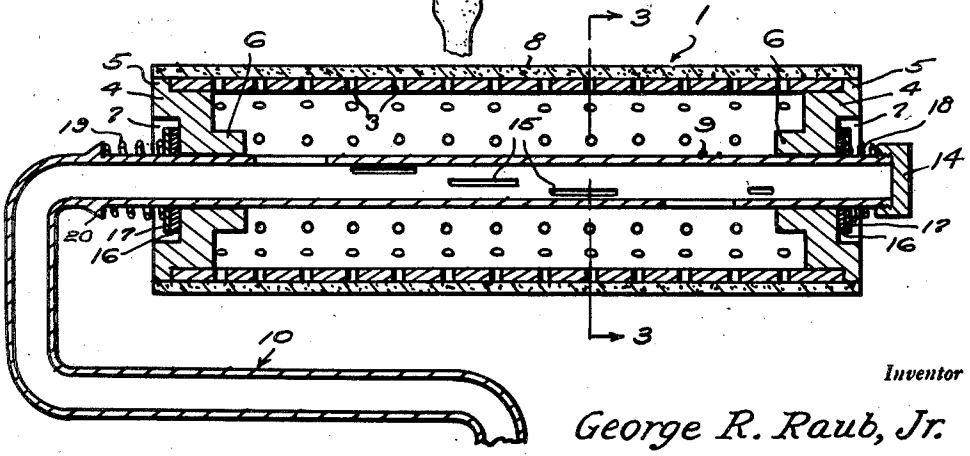

Fig. 2.

Inventor

George R. Raub, Jr.

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Patented Aug. 9, 1949 2,478,318

UNITED STATES PATENT OFFICE

2,478,318

PAINT APPLICATOR OF THE STIPPLING ROLLER TYPE

George R. Raub, Jr., Detroit, Mich., assignor of one-half to George R. Raub, Sr., Detroit, Mich.

Application May 7, 1946, Serial No. 667,877

1 Claim. (Cl. 15—128)

1

My invention relates to improvements in paint applicators of the stippling type, the primary object in view being to provide a simple form of inexpensively constructed implement for use in manually applying paint, and the like, with a stippling effect on flat surfaces, especially, and which is operative under hydrostatic pressure, easy to handle, adapted to withstand wear and easy to clean.

Other and subordinate objects, also comprehended by my invention, together with the precise nature of my improvements, and the manifold advantages thereof, will be readily understood when the succeeding description and claims are read with reference to the drawing accompanying and forming part of this specification.

In said drawing:

Figure 1 is a view in perspective of my improved paint applicator in a preferred embodiment thereof.

Figure 2 is a view in longitudinal section taken on the line 2—2 of Figure 1 and drawn to an enlarged scale, and

Figure 3 is a view in transverse section taken on a line 3—3 of Figure 2.

Reference being had to the drawing by numerals, my improved applicator, as shown, comprises a roller 1 including a hollow cylinder 2 of any suitable size and material provided with perforations 3 therein of a size to permit paint to pass freely therethrough.

A pair of annular discs 4 close the ends of the cylinder 1 and are fitted tightly therein. The discs 4 are formed with circumferential, outer, side flanges 5 fitting against the ends of the cylinder 2, and with inner side hubs 6 providing increased bearing surfaces on the discs, and also with outer, side, concentric recesses 7 for a purpose presently seen.

A sponge rubber facing 8 is provided on the roller 1 and which fits around the flanges 5.

The described roller 1 is rotatably mounted on a straight outer end portion 9 of a substantially goose-neck tubular holder 10, the opposite end portion 11 of which is provided with a surrounding handle 12 from which the end portion 11 projects for suitable connection to a rubber feed line 13. The terminal of the end portion 9 projects out of one disc 4 and is closed by a screw cap 14. Longitudinal discharge slots 15 are provided in said end portion 9 between the discs 4.

The feed line 13 is designed to be suitably connected to a supply source, not shown, of paint under pressure.

Self-sealing washers 16 are provided on the end portion 9 of the holder 10 in the recesses 7 and are backed by metal washers 17. The washers 16, 17 adjacent one disc 4 are urged against the disc by coil spring 18 interposed between the washers 17 and the cap 14. The washers 16, 17 adjacent to the other disc 4 are similarly

2

urged by a coil spring 19 interposed between the washer 17 and a flange 20 formed on the end portion 8.

A suitable valve 21 for controlling the passage of paint through the holder 9 is arranged on the end portion 11 of said holder adjacent to one end of the handle 12 for operation by a hand grasping said handle. Preferably the valve 21 is of the plunger-operated type equipped with a button 22 for operation by the thumb of a hand grasping the handle 12.

In using the described applicator, the roller 1 is manipulated over a wall, or the like, by means of the handle 12. The paint passing through the holder 9, under pressure, issues from the slots 15 into the cylinder 2 and escapes out of the apertures 3 and through the sponge rubber facing 8 which transfers the paint to the surface with a stippled effect.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the appended claim.

What I claim is:

An applicator for applying paint with a stippling effect comprising a roller including a hollow perforated cylinder, a porous resilient facing on said cylinder, a substantially goose neck tubular holder having a straight longitudinally slotted end portion extending axially through the cylinder, said holder having its other end portion provided with a surrounding handle and being adapted for connection to a source of supply of paint under pressure, and axially apertured flanged disks rotatable on said straight end portion of the holder and fitted in the ends of said cylinder to close said ends and rotatably mount the cylinder on said straight end portion, said disks having outwardly facing concentric recesses therein, and said straight end portion having washers thereon disposed in said recesses and spring-pressed into engagement with said disks and said straight end portion to form a seal between said disks and said straight end portion.

GEORGE R. RAUB, JR.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,573,594	Winkenbach	Feb. 16, 1926
2,281,773	Kollman	May 5, 1942
2,325,867	Matsakas	Aug. 3, 1943
2,357,763	Pratt	Oct. 5, 1944
2,378,900	Adams	June 26, 1945