Aug. 6, 1929. V. PINO 1,723,206

STIPPLING MACHINE

Filed Jan. 20, 1928

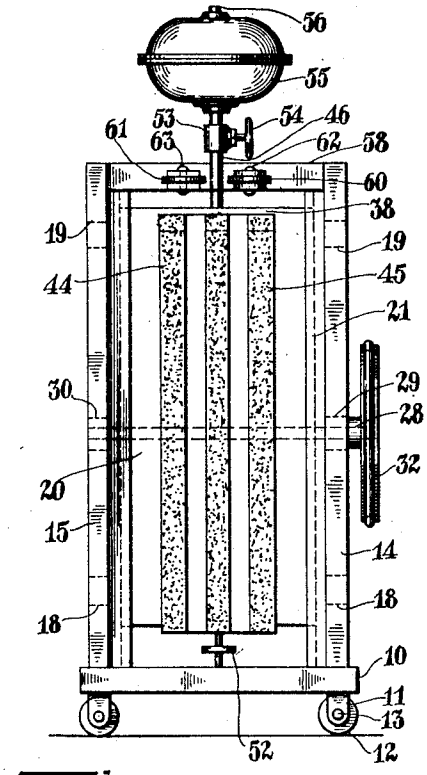


Fig. 1.

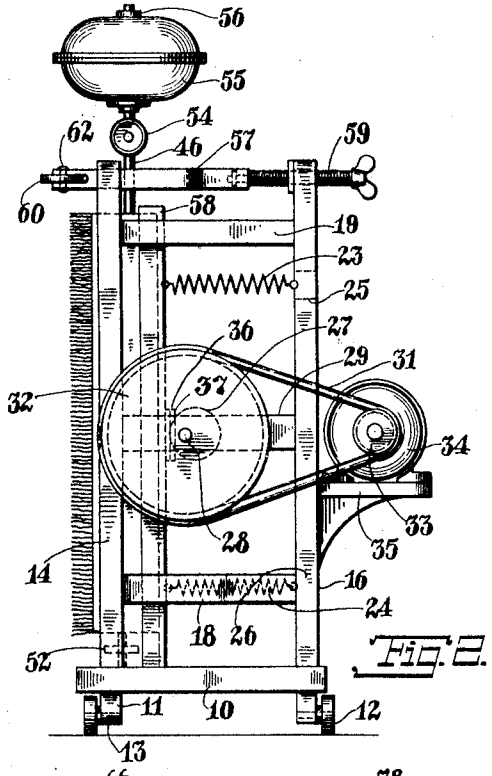


Fig. 2.

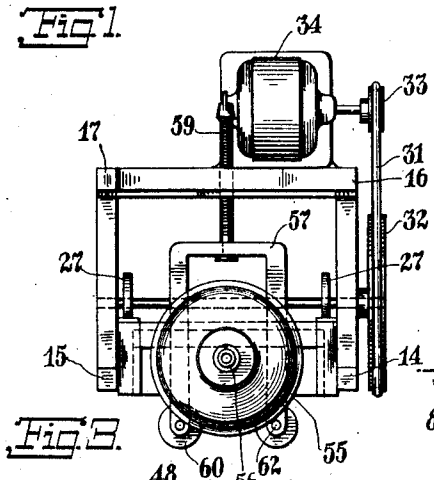


Fig. 3.

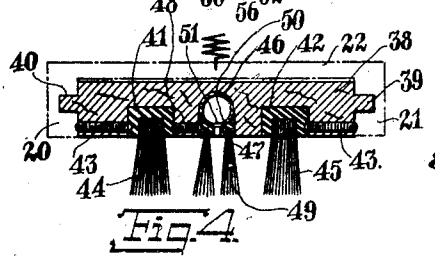


Fig. 4.

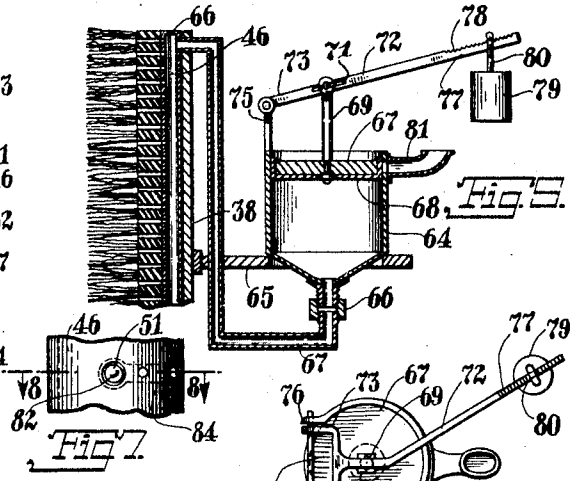


Fig. 5.

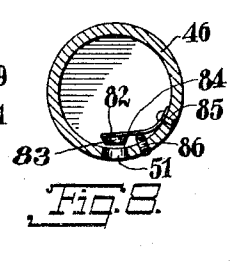


Fig. 7.

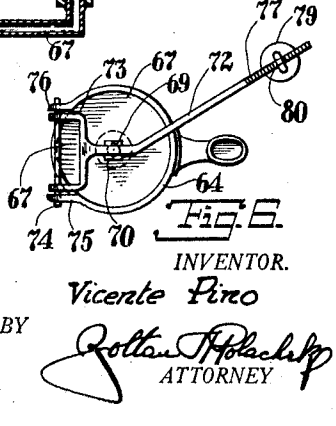


Fig. 6.

Fig. 8.

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UNITED STATES PATENT OFFICE.

VICENTE PINO, OF NEW YORK, N. Y.

STIPPLING MACHINE.

Application filed January 20, 1928. Serial No. 248,152.

This invention relates to a new and useful device in the nature of a stippling machine especially adapted for the purpose of producing a pebbled finish on the interior walls of buildings, so as to procure a rough uneven painted surface, such as is at the present time in vogue.

The object of the invention is to provide a stippling machine of novel construction and arrangement of parts hereinafter more fully described, claimed and illustrated in the accompanying drawing.

Fig. 1, is a front elevational view of my improved machine.

Fig. 2, is a side elevational view thereof.

Fig. 3, is a top plan view thereof.

Fig. 4, is an enlarged transverse sectional view of the brush proper as embodied in my improved machine.

Fig. 5, is a fragmentary sectional view illustrating another form of my improved machine.

Fig. 6, is a top plan view of the paint container as embodied therein.

Fig. 7, is a fragmentary side elevation illustrating a further development of the paint distributing tube.

Fig. 8, is a transverse sectional view taken on the line 8—8 of Figure 7.

As here embodied my improved machine comprises a base member 10, having secured thereto, at the underside thereof, blocks 11, the wheels 12, or rollers which are rotatively mounted on the shafts 13, carried by the blocks 11. The above described construction is such as will permit my improved machine to be readily pushed, or rolled along the floor of a building adjacent to the wall to be treated, or pebbled. Upright members 14, 15 and 16, 17, are secured to the corners of the base member 10, at the front and rear thereof, respectively, and extend vertically therefrom, and are securely held in a rigid, fixed position by means of the cross supports 18 and 19, secured thereto, in proximity to the bottom and top of the said upright members.

A removable frame consisting of a pair of side upright members 20 and 21, secured to the rear upright member 22, are adapted to slidably engage intermediate the cross members 18 and 19. Tension springs 23 and 24, are secured to the rear upright member 22, and to the transverse members 25 and 26, respectively, secured to the upright members 16 and 17, in proximity to the top and bottom thereof. The eccentric 27 is secured to the shaft 28, rotatively mounted in the intermediate cross members 29 and 30, secured to the central portion of the upright members 14, 15 and 16, 17. The belt 31, is extended over the pulley 32, secured to the shaft 28, and over the pulley 33, secured to the armature shaft of the electric motor 34, mounted on the brackets 35, secured to the upright members 16 and 17. The eccentric 27, engages in a groove 36, formed in the blocks 37, secured to the rear side of the rear vertical member 22.

The brush holder proper 38, is provided with side extended elements 39 and 40, adapted to slidably engage in longitudinal, vertical elongated openings formed in the side upright members 20 and 21. The brush holder proper 38, has formed therein, a pair of side longitudinal elongated openings, adapted to receive the brush backs 41 and 42, which are removably held therein by means of the threaded members 43, set screws, or the like. The bristles 44 and 45, are imbedded in the brush backs 41 and 42, respectively, and extend therefrom, as a means of providing suitable brushes. The brush holder 38, has formed therein a central longitudinal, vertical opening, adapted to receive the tubular member 46, which extends somewhat beyond the top and bottom of the said brush holder 38. The brush back 47 is positioned in the above mentioned central opening formed in the brush holder 38, directly in front of the tubular member 46, and is removably held therein by means of the threaded members 48, set screws or the like. The bristles 49, are imbedded in the brush back 47, and extend therefrom. A plurality of horizontal apertures 50, are formed in the brush back 47, in the longitudinal, central portion thereof, and are intercommunicative with similar apertures 51 formed in the tubular member 46. The tubular member 46, is closed at its lower extremity, as at 52, by a threaded member, having an extended portion, hand wheel, or the like. The valve 53, provided with the usual hand wheel 54, as a means of closing and opening the valve 53, is

threadedly secured to the upper extended extremity of the tubular member 46. The container 55, of hollow construction is secured to the valve 53, and is provided with a removable cap 56.

The latter described construction is such as will permit the paint placed in the container 55, when the valve 53, is opened, to flow through the tubular member 46, and through the apertures 51 and 50, into the bristles 49.

The yoke member 57, is adjustably secured to the transverse member 58, secured to the upright members 16 and 17, at the upper extremity thereof, by means of the threaded member 59, threadedly secured to the said yoke member 57. The yoke member 58, extends horizontally somewhat beyond the upright members 14 and 15. The wheels 60 and 61, are rotatively mounted on pins 62 and 63, respectively carried in the extended positions of the yoke member 57, and extend somewhat beyond the said yoke member 57.

The latter described construction is such as will permit the wheels 60 and 61, to be extended somewhat beyond the bristles 44, 45 and 49, when the said bristles are in an unextended position.

The operation of my improved machine is as follows: The machine is pushed or rolled along the floor adjacent to the wall to be treated, as above set forth, the rollers 60 and 61, engaging the said wall, the electric motor 34 is then operated causing the eccentric 27, to extend the said bristles, against the said wall. It is obvious that the bristles 49 will spread the paint unevenly upon the said wall, due to the reciprocating of the said bristles, which are returned to their initial, or unextended position by means of the tension springs 23 and 24. It is further understood that the bristles 44 and 45, will further unevenly spread the paint, preventing a "daubing" or "running" of the paint applied to the wall.

In Figures 5 and 6, of the accompanying drawings, I have shown the container 64, mounted on the bracket 65, secured to and extending from the brush holder 38. The container 64, being positioned somewhat below the upper extremity of the brush holder 38, as a means of permitting my improved machine to treat the extreme top portion of a wall. The container 64, adapted to hold the paint used, is provided with an open upper end, and is connected, at the bottom thereof, by means of the union 66, to the tubular member, adjacent to the upper extremity thereof. The upper end of the tubular member 46, being closed at 66, by a cap, plug, or the like. The plunger 67, or disc, is provided with a gasket 68, and is adapted to slidably engage in the container 64. The plunger rod 69, is secured to the plunger 67, and extends vertically therefrom, and has secured at its upper extended extremity a pin 70, adapted to engage in an elongated opening 71, formed in the lever 72, intermediately thereof. The lever 72, is provided with a forked extremity 73, hinged on the pin 74, carried in the lug elements 75 and 76, of the container 64. The lever 72, is provided with a free extended portion 77, or arm element, having formed therein a plurality of notches 78. The weight 79, is secure to the holder 80, having formed therein an aperature adapted to receive the arm element 78, as a means of permitting the weight 79, to be hung on the arm element 78, any desired distance from the plunger rod 69, as is required to permit the downward movement of the plunger 67, to force the said paint through the tubular member 67, into the tubular member 46. A filler spout 81, is secured to the container 64, at or near the upper open end thereof, as a means of filling the said container with paint.

In Figures 7 and 8, of the accompanying drawings, I have shown the valves 82, of disc shaped construction, provided with tapered peripheries 83. The valves 82, are secured to the free extremities of the flexible member 84, secured as at 85, by rivets, bolts, screws, or the like to the tubular member 46. The said valves 82, are positioned directly over the apertures 51 formed in the tubular member 46, inside the said tubular member. The threaded members 86, are threadedly mounted in the tubular member 46, and engage the said flexible members 84, in proximity to the valves 82. The above described construction is such as will permit the said threaded members 86, to be adjusted, as a means of permitting the valves 82, to be held in any desired postion, relative to the apertures 51, so as to regulate the rate of flow of the paint through the apertures 51. It is desirable, when a thin coat of paint is to be applied to a wall to close the apertures 51, in proximity to the lower portion of the tubular member 46, as a means of preventing an excessive flow of paint to the lower portion of the bristles 49.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent of the United States is as follows:—

1. In a device of the class described, a base with wheels arranged for being moved along the floor, upright posts secured on the corners of the base and joined at the sides with cross supports, a stippling paint brush arranged for moving forwards and rearwards between the front upright posts, a transverse member secured between the rear upright posts, and a yoke member with front wheels for bearing against a wall, adjustably supported on the transverse member, said front wheels being extended somewhat beyond the front of the brush when the brush is in a rear position.

2. In a device of the class described, a base with wheels arranged for being moved along the floor, upright posts secured on the corners of the base and joined at the sides with cross

supports, a stippling paint brush arranged for moving forwards and rearwards between the front upright posts, a transverse member secured between the rear upright posts, and a yoke member with front wheels for bearing against a wall, adjustably supported on the transverse member by a threaded member, said front wheels being extended somewhat beyond the front of the brush when the brush is in a rear position.

In testimony whereof I have affixed my signature.

VICENTE PINO.