

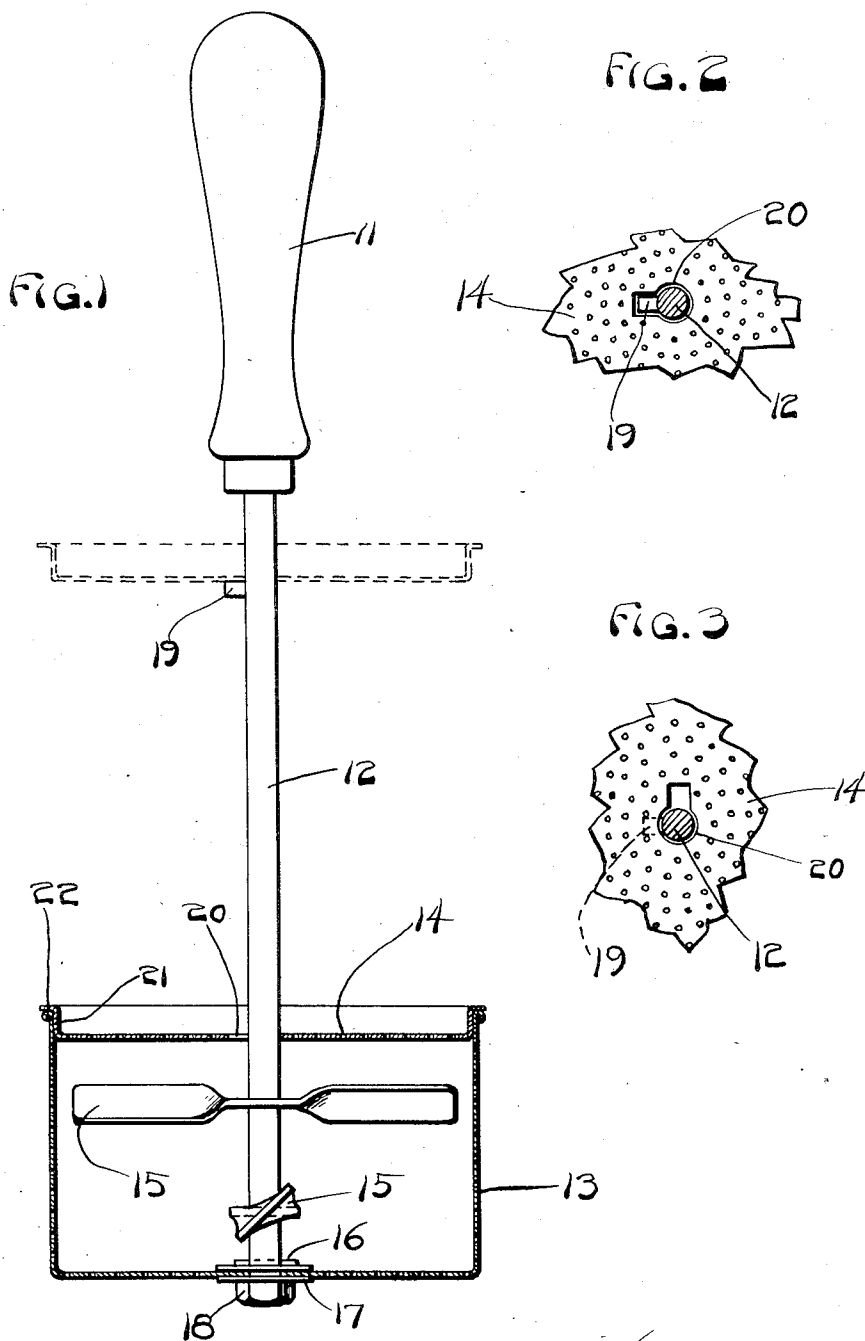
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MIXER

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MIXER

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1 Claim. (Cl. 259—144)

Paint, as it comes from the can, is seldom of the exact shade or tint desired by the user either for purposes of matching the shade or tint of existing paint adjacent to which or over which the fresh paint is to be applied, or from the stand point of the purely aesthetic or matter of choice purposes.

To change the shade or tint of the stock paint is a test demanding patience and a degree of skill seldom observed in the finished results. This is because of the usual use of a shading or tinting medium in the form of a pigment of semi-solid or paste-like body which is applied to the stock paint in small masses and gradually incorporated therein by painstaking stirring with a paddle, stick or spatula until the presence of the pigmented paste is no longer detectable in the vehicle of the stock paint.

An appreciable loss is usually experienced in the use of such pigment pastes because of insufficient incorporation, and the paint so treated is frequently found to contain smaller lumps of pigment paste which are carried by the brush to the surface to receive the paint, thereby leading to streaking of the surface being painted and in this manner requiring much unnecessary work and expenditure of valuable time in brush work to obtain satisfactory smoothness of results.

An object of my invention is to produce a simple, effective device by means of which pigmented pastes may be handled in a manner such that thorough incorporation of these pigments is assured, with no losses thereof, and in a manner which obtains perfect results with a minimum of time expenditure.

A further object is to produce such a device as will accomplish the results desired and then function most effectively in the removal of oxidized surface skins and other foreign matter from the paint, with the utmost simplicity of cleaning of the device after it has been placed to such uses.

My improved device also has features associated therewith which render it most valuable in such uses as the mixing and thorough incorporation of flavoring materials, the dissolving of salts, gums and a number of kindred purposes. Therefore, in describing my invention as a device applied to the shading or tinting of paint, it is to be understood that this use is but exemplary of the purposes for which the device has been designed.

These and other objects are attained in the mixer described in the following specification

and illustrated in the accompanying drawing, in which:

Fig. 1 is a sectional view of the mixer embodying my invention, the handle being shown in elevation and a part being shown in dotted lines for purposes which will be described.

Fig. 2 is a fragmental view of the cover in one position the purposes of which will be described.

Fig. 3 is a view similar to Fig. 2, but showing the cover in another position, the purposes of which will also be described.

In my improved mixer I provide a handle 11 which is equipped with a stem 12 of sufficient length to enable the mixer to be used in the average paint container of from one to five gallon capacity, with a foraminous body 13 mounted on the lower end of the handle stem, a lid or cover 14 being located on the stem, and a series of agitators 15 being located within the body and also on the stem, the function of which agitators will be set forth as the description continues. These agitators preferably are secured to the stem rigidly, the reason for which will be made apparent herein. The mixer shell or body 13 is shown in section and no attempt is made to show the multitude of perforations which exist all over the surface thereof, since this would but confuse and defeat the purpose of the disclosure. The body 13 preferably is made rigid with the stem 12 in any suitable manner, as by a pin through the stem at 16, washers 17, and a nut 18. Just beneath the handle 11 I have provided a pin 19 in the stem 12 to afford a support for the lid 14 when it is lifted from the body to permit of its being filled or cleaned of oxidized vehicle skins or foreign matter. This lid or cover, which is also perforated throughout, as shown in Figs. 2 and 3, has a slot therein of substantial keyhole shape, as shown at 20, so that the cover may be lifted toward the handle to pass it beyond the pin, as shown in Fig. 2, after which the cover is given a partial rotation to bring it out of hole and pin registration, as shown in Fig. 3, in which latter position the cover will be supported by the pin, as shown in dotted lines in Fig. 1. The cover may have an annular wall 21 which is provided with a flange 22, the wall 21 fitting the body snugly while the flange 22 limits the inward movement of the cover after the body 13 is filled.

To use the device, assuming that the paint to be used is not of the proper shade or tint, the pigmented paste with which it is intended

to alter the color of the paint, is placed in the mixer body, an amount being used which is judged by the amount of paint to be treated. With this preparation made this material is lowered into the bucket of paint and the mixer is given one or the other or both of two movements preferably. The mixer may be given a twirling motion in the paint, or it may be given an up and down movement therein, while it may not be difficult to combine the two movements or even to move the mixer from side to side of the paint container. The action of such a movement is to create a circulation of the paint through the openings of the body and lid, thereby bringing it into contact with the paste of the color to be imparted to the paint. At the same time the agitators function to bring about a beating of the paint in the presence of the paste, thereby bringing about a dissolution of the paste and a rapid, thorough and uniform incorporation thereof with the paint. The agitators 15 being fixed to the stem 12 and located at right angles to each other, as shown in Fig. 1, produce an ideal admixture.

In cleaning the mixer it is but necessary to place the mixer in the paint brush cleaner and, with the same movements given it in the tinting or shading operation, thereby obtain the desired results. The lid may be lifted to dotted line position and the skin and foreign matter thrown away, all paste having been washed therefrom so that this waste material is not messy in the act of disposing of it.

As has been stated, the mixer I have shown and described above is not limited to paint tinting and shading, but may be used in any way in which the functions thereof are substantially the same as have been described in

its use with paint. For this reason I desire it to be understood that my improved mixer, as set forth in the appended claims depends for its novelty only upon a structure in which any use to which it may be placed is within the intended scope of the invention.

Elaborating upon the preferred manner of use of the mixer I have described, I find that the round handle 11 is especially adapted to placing the handle between the palms of the outspread hands and, by giving the hands a back and forth motion in opposite directions relatively to each other, thereby to create a twirling rotation of the mixer while it occupies the paint or other fluid contents of the container.

Having thus described my invention what I claim is:

A mixer comprising a perforate body having an open upper end, agitator blades, a perforate cover to close the upper end of the body, a handle attached to the bottom of the body rigidly and extending upwardly through and above the open end thereof an appreciable distance, whereby said mixer may be used in containers of proportions permitting body motions of substantial curvilinear and rectilinear components therein, an agitator rigidly mounted on the handle within the body and consisting of opposed blades co-operating to impart a substantial curvilinear motion to container contents within the body upon body movement in the container, said handle mounting the cover for movement thereon to close and open the body, and means on the handle above the body for supporting said cover thereon in opened position relatively to the body for purposes of filling the body.

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