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WASHING ATTACHMENT FOR TUBS

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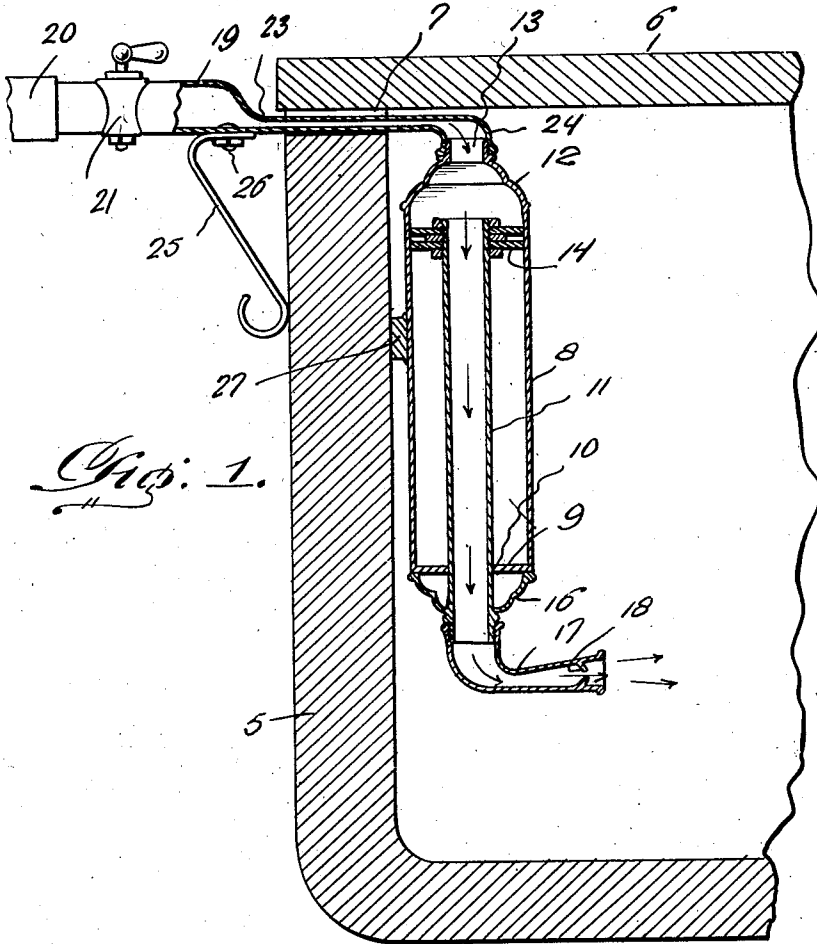


Fig. 1.

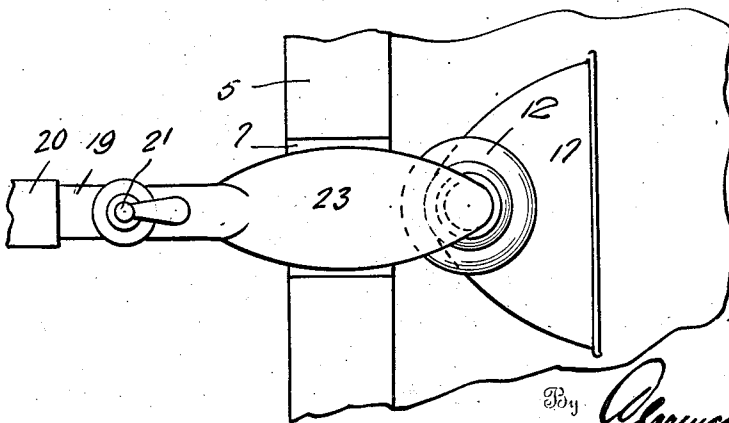


Fig. 2.

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WASHING ATTACHMENT FOR TUBS.

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This invention relates to an attachment for tubs for the purpose of washing clothes and has for its principal object to provide an air injector of an extensible nature which is adapted to operate in association with a vacuum cleaner.

A very important object of the invention is to provide an attachment of this nature which is compact in its formation and may be readily and easily engaged within a tub.

Another very important object of the invention is to provide an attachment of this nature which is exceedingly simple in construction so that it may be manufactured at a low cost and yet will prove thoroughly reliable and efficient in operation, strong and durable in use, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:—

Figure 1 is a sectional view through the attachment and a tub with which it is associated.

Figure 2 is a top plan view of the structure shown in Figure 1.

Referring to the drawing in detail it will be seen that 5 designates a tub having the cover 6. In the present instance the upper edge of one wall of the tub is provided with a notch 7. The tub may be of any preferred or conventional construction, and is merely illustrated for the purpose of clearly bringing out the utility of my invention.

Referring now in detail to the attachment, it will be seen that 8 designates a cylinder having a bottom 9 provided with a central opening 10 through which is slidable a tube 11. The upper end of the cylinder 8 tapers upwardly and inwardly to form a substantially conical shaped extension 12 terminating in an externally threaded neck 13. Packing elements 14 are mounted on the upper end of the tube 11 and bear against the inside surface of the cylinder 8. An inverted cone shaped flange 16 is formed on the lower end of the tube 11 and is adapted to abut the bottom 9 of the cylinder 8 when the tube 11 is in its contracted position as shown in the drawing, and

functions as a stop. An angular nozzle 17 is threadedly engaged with the lower end of the tube 11 and has its exhaust end flared and provided with a restriction 18 a distance inwardly from the terminal thereof. A pipe 19 is adapted to receive the exhaust end of a hose 20 leading from a vacuum cleaner.

A regulating valve 21 is disposed in the pipe 19. The intermediate portion of the pipe 19 is partially flattened as at 23 to rest in the notch 7. The inner end of the pipe is angularly disposed downwardly for threaded engagement with the neck 13 as is specifically indicated at 24. A substantially ogee shaped spring member 25 has its upper end attached to the pipe 19 as at 26, while its other end portion bears against the outside of the tub 5. An abutment 27 is formed on an intermediate portion of the cylinder 8 and is adapted to engage the inner surface of the tub 5. Particular stress is laid on the convenient and compact manner in which this attachment is mounted in relation to the tub. The attachment may be easily put in place and easily removed from place. The slidable mounting of the tube 11 allows the nozzle 17 to be moved toward or away from the bottom of the tub as may be desired.

In using the attachment it is put in place as is illustrated to advantage in Figure 1, and the clothes are placed in the tub with the necessary amount of water. The nozzle 17, of course, must be submerged in the water. The vacuum cleaner (not shown) is then turned on so that air will exhaust through its hose 20, through the pipe 19, through a portion of the cylinder 8, and through the tube 11 to the nozzle 17. The air will exhaust in a strong penetrating stream through this nozzle 17 which may be pointed in different directions in the tub thereby causing the aerating of the water and further thoroughly agitating the water so as to cleanse the clothes therein. It has been found in actual practice that this aerating and agitating of the water thoroughly cleans the clothes when a proper soap or the like is used in the water without in any way tending to injure the clothes, and the aerating particularly deodorizes the clothes.

It is thought that the construction, operation, and advantages, and utility of the invention will now be clearly understood without a more detailed description thereof.

The present embodiment of the invention has been disclosed merely by way of example since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description. It is apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described the invention, what I claim as new is:—

1. An attachment of the class described including a pipe adapted to be rested on the upper edge of a wash tub and having one end thereof engageable by the hose of a vacuum cleaner and the other end depending and threaded, a cylinder having a restricted upper end threadedly engaged with the threaded end of the pipe, a tube slidable through the bottom of the cylinder, packing elements on the upper end of the tube contacting against the inner surface of the cylinder, and a nozzle on the lower end of the tube.

2. An attachment of the class described including a pipe adapted to be rested on the upper edge of a wash tub and having one end thereof engageable by the hose of a vacuum cleaner and the other end depending and threaded, a cylinder having a restricted upper end threadedly engaged with the threaded end of the pipe, a tube slidable

through the bottom of the cylinder, packing elements on the upper end of the tube, contacting against the inner surface of the cylinder, a nozzle on the lower end of the tube, and a valve located in said pipe.

3. An attachment of the class described including a pipe adapted to be rested on the upper edge of a wash tub and having one end thereof engageable by the hose of a vacuum cleaner and the other end depending and threaded, a cylinder having a restricted upper end threadedly engaged with the threaded end of the pipe, a tube slidable through the bottom of the cylinder, packing elements on the upper end of the tube contacting against the inner surface of the cylinder, a nozzle on the lower end of the tube, an abutment on the exterior surface of the cylinder for engaging the inner surface of said tub, and an ogee shaped spring member having one end attached to the pipe and the other end engageable with the exterior surface of the tub.

4. An attachment of the class described including a pipe adapted to be rested on the upper edge of a wash tub and having one end thereof engageable by the hose of a vacuum cleaner, a cylinder attached to the other end of the pipe to depend therefrom into the wash tub, a tube telescopically mounted in the cylinder to extend below the bottom thereof, and a nozzle on the lower end of the tube.

In testimony whereof I affix my signature.
THEODORE R. FRATTALLONE.