

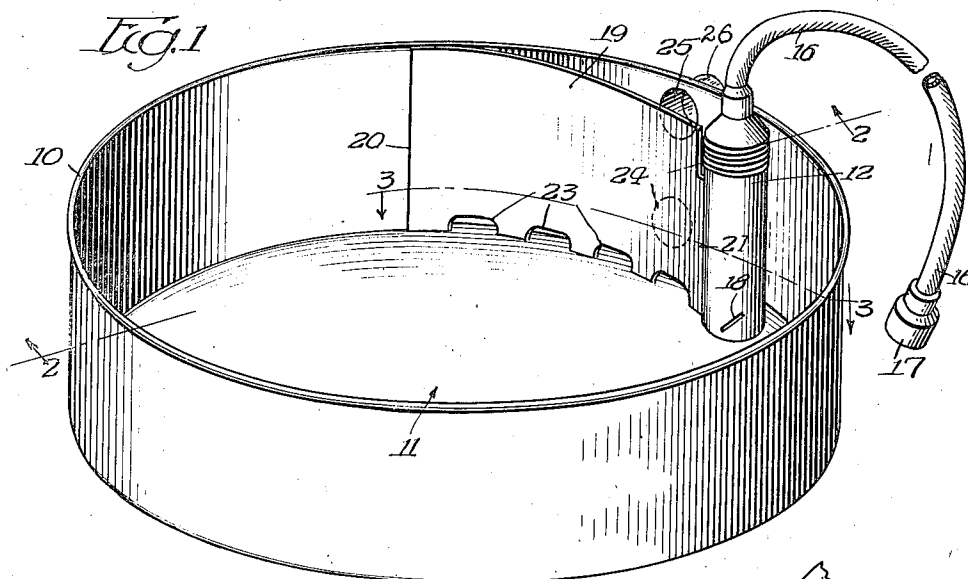
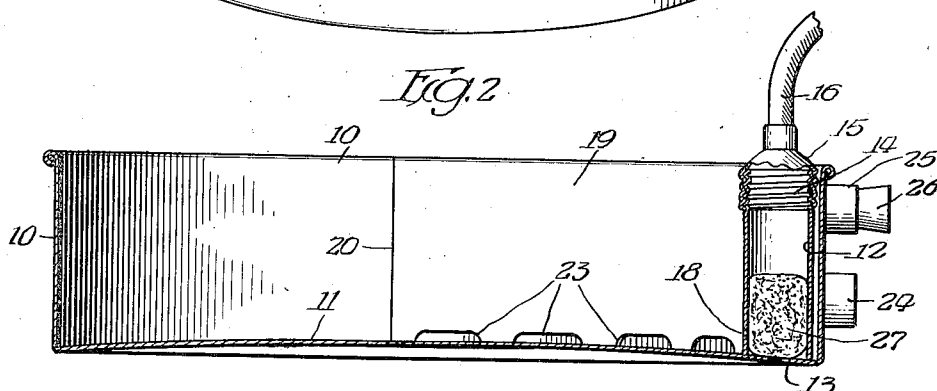
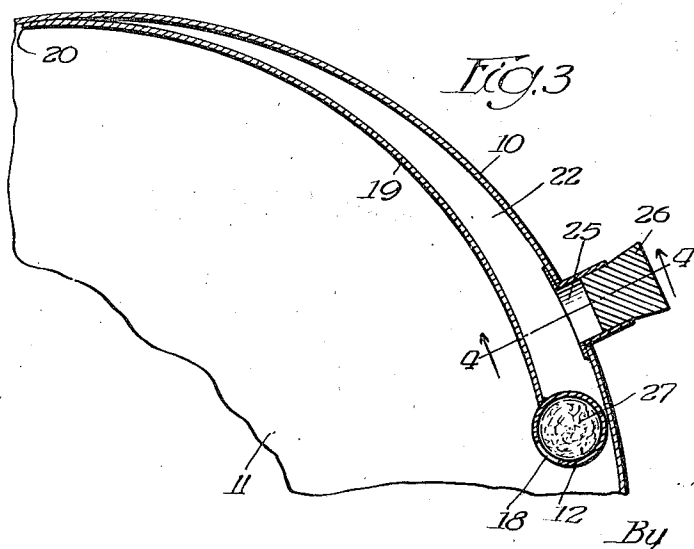
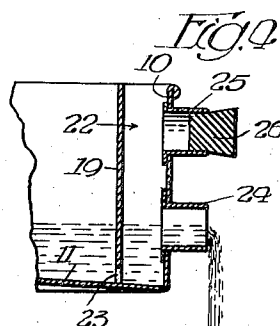
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S. DRUCKER

**2,286,351**

PRINT WASHER

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Inventon  
Samuel Drucker  
J. Gochum  
Atty

## UNITED STATES PATENT OFFICE

2,286,351

## PRINT WASHER

Samuel Drucker, Chicago, Ill., assignor to Burke & James, Inc., Chicago, Ill., a corporation of Illinois

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## 1 Claim. (Cl. 95—97)

This invention relates to improvements in print washers particularly adapted though not necessarily limited in use for washing photographic prints, and one of the objects of the invention is to provide an improved washer of this character in which the centrifugal force of the wash water will throw the prints to the outside edge of the container or tank where they will contact a baffle or wall which operates to swing the prints back to the center of the container, which operation will be repeated as the prints are carried around by the current of wash water, with the result that all surfaces of the print will in turn be exposed to the action of the water.

A further object is to provide an improved washer of this character in which the excess or overflow water will be drawn off from the bottom of the tank or container where the foreign matter, chemicals or typo naturally settle, thereby assuring an ever changing volume of fresh, clear water for the washing operation.

A further object is to provide an improved means for filtering the incoming water, and improved means for effecting a churning action of the wash water by the production of cross currents thereof.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the features of novelty in substantially the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawing illustrating this invention and in which

Figure 1 is a perspective view of a device of this character constructed in accordance with the principles of this invention.

Figure 2 is a detail sectional view taken on line 2—2 Figure 1.

Figure 3 is a detail sectional view taken on line 3—3 Figure 1.

Figure 4 is a detail sectional view taken on line 4—4 Figure 3.

The washer consists essentially of a tank or container 10 preferably circular in cross-section and may be of any desired diameter and of any suitable depth. The bottom 11 of the container is convexed, and arranged within the container adjacent the wall thereof is a vertical tube 12 that is secured in position in any suitable manner and is provided with a closed bottom 13.

The tube is preferably of a height substantially equal to the depth of the tank or container and is open at its upper end. Threads 14 are provided around the upper end of the tube onto

which a cap 15 may be secured. This cap is hollow and has connected to it a tubular member 16 such as a pipe, and at the other end of the pipe is arranged a nipple 17 that is adapted to be attached to any source of supply of water, such as a faucet or the like.

The tube 12 is provided with an inclined slot 18 so arranged as to direct the water which enters the tube 12 through the tube 16 to be discharged into the tank or container preferably in a plane tangent to the wall of the container and thereby cause the water in the tank to swirl around.

Arranged within the tank is an upright partition 19 that is substantially equal to the height of the wall of the tank or container and this partition forms a baffle which is eccentrically arranged within the tank. One end of the baffle is secured, as at 20, to the wall of the tank or container and the other end 21 is preferably secured to the tube 12 so as to provide a space 22 between the baffle 19 and the wall of the tank or container.

At the bottom of the baffle 19 there may be provided a plurality of openings 23 any number of which may be employed so as to permit the liquid and the sediment or deposit to flow therethrough.

The tube 12 forms a closure for the end of the space 22 so that the wash water in effecting its exit through either of the outlets 24—25 must flow through the openings 23 and into the space 22.

A series of discharge openings 24—25 are provided in the wall of the tank 10 and have communication with the space 22 between the baffle 19 and the wall of the container or tank. These discharge outlets 24—25 are arranged at different elevations whereby the height of the liquid in the tank or container may be controlled or varied. A stopper or plug 26 may be employed for closing either one of these discharge outlets 24—25.

With this improved construction it will be manifest that the liquid being discharged into the tank through the slot or opening 18 in the tube 12 will flow around the tank creating an eddy and when the prints are deposited therein they will be thrown by centrifugal force outwardly against the wall of the tank or container 10. As they float around upon and in the liquid they will contact the wall or baffle 19 to be thrown or directed thereby back towards the center of the tank.

The bottom of the tank at its center being elevated by reason of its convexed shape will cause the prints when they contact therewith to slide down and outwardly towards the wall of the tank

when they will again be caught by the eddy and swirled around.

The centrifugal force of the water will cause the hypo which is washed from the print to be thrown outwardly and by reason of the convexed bottom 11 this foreign matter will be deposited adjacent the wall of the tank or container and within the space 22 where it will be drawn from the bottom of the liquid and will flow out through either of the outlets 24—25 from which the closure 26 has been removed.

A cellulose element 27, such as a sponge or the like, is arranged within the tubular member 12. This element 27 when it is contacted with the water will expand or swell and will substantially fill the adjacent portion of the tube 12 and it preferably extends over the slot or outlet 18. This element 27 serves as a filter to filter the incoming liquid.

While the preferred form of the invention has been herein shown and described, it is to be understood that various changes may be made in the details of construction and in the combina-

tion and arrangement of the several parts, within the scope of the claim, without departing from the spirit of this invention.

What is claimed as new is:

5 A print washer embodying a circular tank, a water inlet passage within and adjacent the wall of the tank, said passage having an outlet for discharging the water into and tangential to the wall of the tank, an upright eccentrically ar-  
10 ranged baffle within the tank, one end of the baffle being secured to the wall of the tank, the other end of the baffle terminating adjacent said inlet passage, there being openings in the baffle  
15 adjacent the bottom of the tank, and a water discharge outlet leading from the space between the said baffle and the adjacent portion of the wall of the tank, the said inlet passage comprising an upright tubular member closed at its bottom and  
20 provided with a slot in its wall adjacent the bottom of the tank, said tubular member constituting a closure for the space between the baffle and the container wall.

SAMUEL DRUCKER.