(No Model.)

J. F. WAY.

PHOTOGRAPHIC PRINT WASHER.

No. 430,242. Patented June 17, 1890.

Fig. 1.

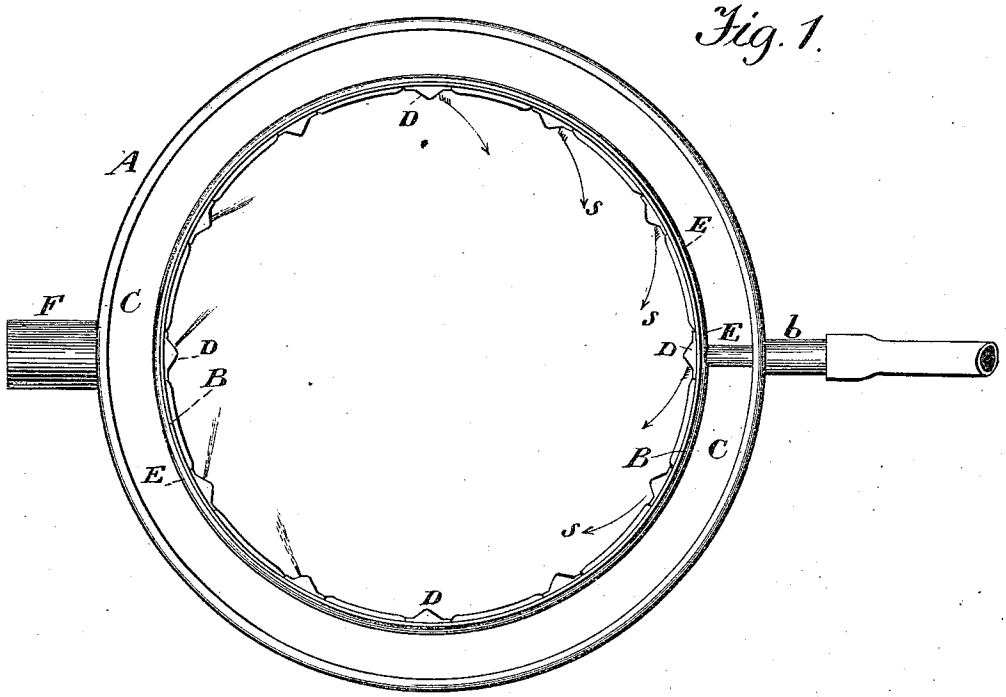
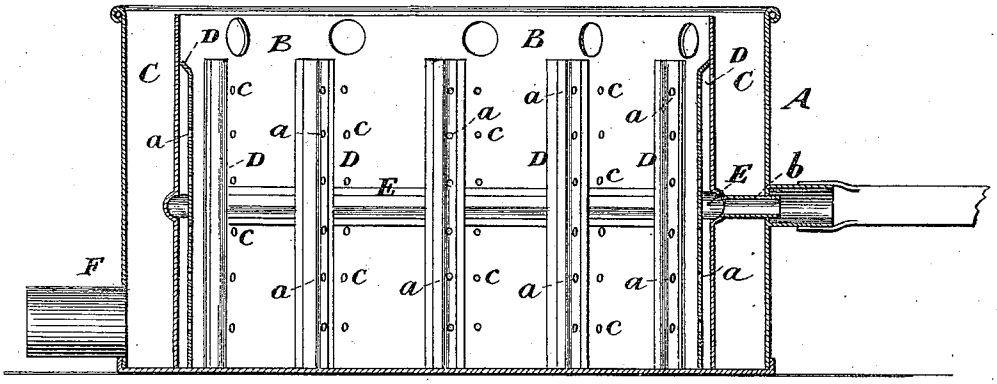


Fig. 2.



Witnesses.
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Inventor.
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UNITED STATES PATENT OFFICE.

JOHN F. WAY, OF WATERBURY, CONNECTICUT.

PHOTOGRAPHIC-PRINT WASHER.

SPECIFICATION forming part of Letters Patent No. 430,242, dated June 17, 1890.

Application filed January 30, 1890. Serial No. 338,639. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. WAY, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Photographic-Print Washers for Washing Prints Before they are Mounted on Cards; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to photographic-print washers; and it consists in an improved construction of such devices, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a plan view of a photographic-print washer provided with my improvements. Fig. 2 is a vertical central section of the same.

A designates the outer wall of a vessel, which is also provided with an inner wall B, which is so located as to leave an annular space C between the two walls. The inner wall B has formed therein or on its inner side a series of vertical pipes D, which extend from the bottom of the vessel nearly to the top, the said pipes being provided with perforations *a*.

E indicates a pipe, which extends around the inner wall and communicates with the several vertical pipes D. A tube *b* is connected with the pipe E and extends through the side of the vessel for connection with hose or pipe for supplying the washer with water.

Near each vertical line of perforations *a* in each pipe D is a line of perforations *c* in the inner wall B, through which the water escapes into the annular chamber C, from which it is discharged through a waste-pipe F. The pipes D are so constructed and perforated that the streams of water from said pipes are so directed as to cause the water in the vessel to move around, as indicated by the arrows *s*.

The photographic prints being placed in the interior of the vessel, water is supplied through the tube *b* and passes around through the pipe E, filling the pipes D, from which it is discharged through perforations *a* to the interior vessel, and is kept moving around therein by the numerous streams. The water is kept continually in motion while in the interior chamber without moving against the prints with enough force to turn or injure them, and passes out through the aperture *c*. The prints are prevented by the streams from pipes D from being drawn against the wall B by the egress of water through the apertures *c*.

The device is usually constructed of sheet metal of any suitable size, and may be constructed to change the water in the vessel in a greater or less time by making the perforations *a* and *c* small or large, as desired.

I claim—

1. A photograpic-print washer consisting of a vessel provided with an outer wall and an inner perforated wall, space being left between said walls, a series of vertical perforated pipes arranged along said inner wall and adapted to discharge water into the interior of the vessel, and a supply-pipe which extends around said inner wall and is connected with said vertical pipes, substantialy as and for the purpose described.

2. The combination, with the outer wall of a washing device, of an inner wall surrounded by an annular chamber and provided with perforations, a series of vertical perforated pipes, which are connected with said inner wall and are adapted to discharge water into the interior of the vessel, and a supply-pipe connected with said perforated pipes, substantially as set forth and described.

3. The combination, with the outer wall of a photographic-print washer, of an inner wall B, provided with perforations *c*, pipes D, connected with said inner wall and provided with perforations *a*, and pipe E, extended around the inner wall and connected with pipes D, substantially as set forth and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN F WAY.

Witnesses:
CHAS. A. COLLEY,
EDWARD F. COLE.