

E. CRUSEY.
 PHOTOGRAPHIC PRINT WASHING MACHINE.
 APPLICATION FILED JULY 5, 1916.

1,240,425.

Patented Sept. 18, 1917.

Fig. 2.

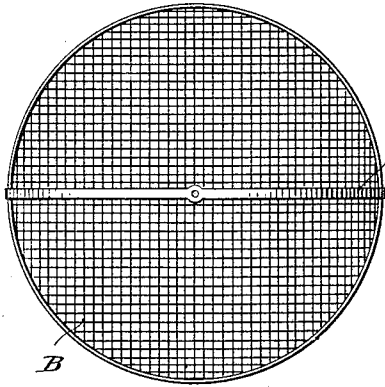


Fig. 1.

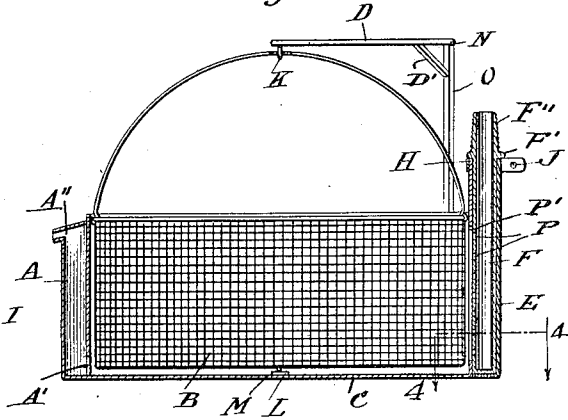


Fig. 3.

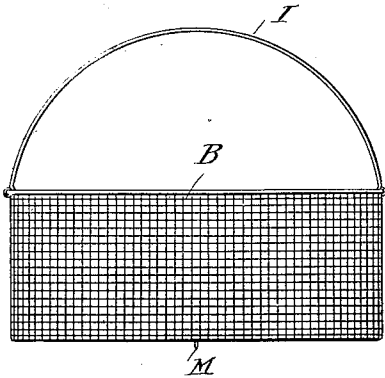


Fig. 5.

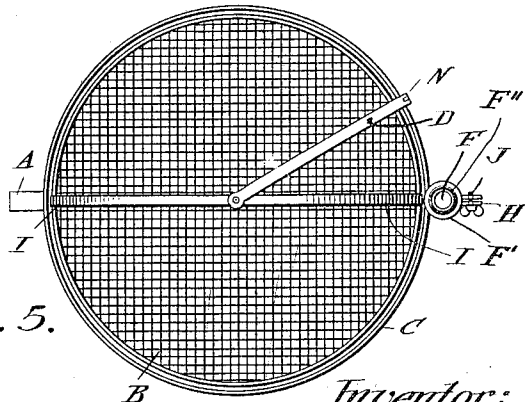


Fig. 6.

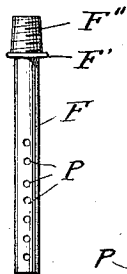
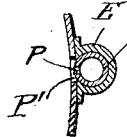


Fig. 4.

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UNITED STATES PATENT OFFICE.

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PHOTOGRAPHIC-PRINT-WASHING MACHINE.

1,240,425.

Specification of Letters Patent. Patented Sept. 18, 1917.

Application filed July 5, 1916. Serial No. 107,702.

To all whom it may concern:

Be it known that I, ELMER CRUSEY, a citizen of the United States, and resident of Sidney, in the county of Shelby and State of Ohio, have invented certain new and useful Improvements in Photographic-Print-Washing Machines, of which the following is a specification.

This invention relates to improvements in photographic apparatus, and while it is designed principally for washing photographic prints it is obvious from the construction of the apparatus that its use is not limited alone to photographic prints but it can be used for film negatives and for other purposes.

The primary object, however, is the washing of photographic prints without the necessity of manual handling, and to provide means for lifting the prints out of the washing fluid.

With this and other objects in view it will be understood that the invention is not restricted to the exact detailed construction shown and described, but for the purpose of disclosure reference is made to the drawing illustrating a practical embodiment of the invention and the particular features of novelty will be pointed out in the claims following the description.

In the drawings like letters of reference refer to similar parts in all views.

Figure 1 is a cross sectional view of the apparatus showing all parts in position.

Fig. 2 is a top plan view of the wire mesh basket.

Fig. 3 is a side view of the wire mesh basket.

Fig. 4 is a cross sectional view on the line 4—4 Fig. 1.

Fig. 5 is a top plan view of the apparatus, and

Fig. 6 is a view of the tubular water inlet.

Referring particularly to the drawings, reference character C denotes a pan having water inlet and outlet means designated by E and A respectively. Said water inlet or supply comprises an upstanding tubular pocket E soldered or otherwise suitably affixed to the outside of the pan and adjacent a vertical opening P' in the side of the pan. The tubular pocket E has a vertical opening therein arranged opposite the opening in the side of pan for a purpose hereinafter described. This tubular pocket

E is shown as being of greater height than the depth of the pan.

Positioned opposite the water inlet and soldered or otherwise suitably affixed to the outside of the pan is the water outlet A having a mouth A'', the water discharging through the mouth A'' when a sufficient quantity has been admitted to the pan through water inlet E. The outlet A communicates with the pan through an opening A' therebetween. As shown for obvious reasons the pocket or water outlet A is of less height than the depth of the pan.

Fig. 6 represents a tubular portion F having an enlarged threaded end F' and a flange F' adjacent thereto for a purpose hereinafter described and provided with a longitudinal series of perforations P preferably arranged at substantially regular intervals. This tubular portion F is inserted in the tubular pocket E the perforations in the tubular portion F opposite the opening P' in the pan, and the opening in the tubular pocket. The upper end of the tubular pocket E thus forms a seat for the flange F' of the tubular portion F, and this portion F is held in position by a band clamp H actuated by a thumb-screw J.

From the above described construction it can be seen that water or any other washing fluid being admitted to the portion F which is positioned in pocket E, by means connected to the enlarged threaded end may be injected into the pan C in several jets or sprays the angle of projection of which may be regulated or the injection of all of the sprays may be entirely cut off by turning the portion F to various positions. For instance, to entirely cut off the admission of water or any washing fluid to the pan C, the portion F is turned until the perforations P are completely out of alinement with the opening in the pocket E and pan C. The portion F may be raised until one or more of the perforations are out of register with the openings in the pocket E and pan C thus cutting off the injection of washing fluid through the perforations that are out of register.

Rigidly secured to the pan and extending in an upward direction therefrom is a member O having hingedly connected to its upper end at N and extending at substantially right angles thereto and over the pan C a member D. Secured to member O and

angularly positioned thereto is a brace D' which supports member D. These members D and O form a bracket for a wire mesh basket B which is suspended by its
5 bail from a rotatably secured ring K near the end of bracket member D.

The basket is normally positioned in the pan C and the ring K being rotatably secured to bracket member D will allow the
10 basket to rotate within the pan C. To relieve any strain upon the bracket and to eliminate any possible contact of the basket with the sides of the pan, the basket B is provided with a downwardly projecting lug
15 M on the bottom of the basket and near the center therefor which seats in a recess in a projection L, at or near the center of the bottom of the pan C.

It can be seen that the basket B may be
20 raised in or out of the pan C because of its connection with hinged members D and O.

The operation of this device is as follows:—With the parts assembled as shown and a suitable means such as a hose connected
25 to the threaded end of portion F and to a water or other washing fluid supply, said water or other washing fluid is admitted to the pan in several jets or sprays provided that the perforations P in the tubular
30 portion F are in registry with the openings in the pan and pocket E. Whether the water is admitted to the pan or retained in pocket E is entirely at the will of the operator, as he may turn the portion F out of
35 registry with the above mentioned openings in the pan C and pocket E. The wire mesh basket B being in position in the pan and the perforations P in portion F being in registry with the above mentioned openings, the
40 jets or sprays of water ejected therethrough will play upon the wire mesh basket at an angle thereto and thus rotate same and thereby wash any photographic prints or film negatives that have been placed in the
45 basket. When said prints or negatives have been washed the basket is moved out of the pan by swinging bracket member D upward on its hinge N.

By means of this apparatus it will be seen
50 that photographic prints and film negatives may be easily and quickly washed and may be removed from the washing fluid without manual handling.

Various changes in the form, proportion
55 and minor details may be made without departing from the principle or scope of this invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:—
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1. A photographic print washer comprising a pan, provided with a vertical opening in the side thereof, an upstanding tube, provided with a vertical opening, rigidly secured to the outside of said pan and adjacent
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the opening in said pan, the above mentioned openings being in register, an upstanding water outlet means secured to the outside of said pan, the side of said pan adjacent the water outlet means being provided with an opening which communicates with the upstanding water outlet means, a bracket secured to the outside of the pan, and a basket rotatably mounted in the pan upon said bracket.
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2. A photographic print washer comprising a pan, provided with a vertical opening in the side thereof, a basket rotatably mounted in said pan, a tubular pocket rigidly secured to the side of the pan adjacent
80 the above mentioned opening, the tubular pocket being provided with a vertical opening which registers with the opening in the side of the pan, and a tubular member provided with longitudinal perforations adapted to be inserted in said pocket.
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3. A photographic print washer comprising a pan, provided with a vertical opening in the side thereof, a basket rotatably mounted in the pan, a tubular pocket rigidly secured to the side of the pan adjacent the opening in the side of said pan, the tubular pocket being provided with a vertical opening which registers with the opening in the side of the pan, a tubular member provided
90 95 with a longitudinal series of perforations and adapted to be inserted in said pocket, and means for holding said tubular member in various positions.

4. A photographic print washer comprising a pan, provided with a vertical opening in the side thereof, a basket rotatably mounted in said pan, a tubular pocket rigidly secured to the side of said pan adjacent the above mentioned opening, the tubular pocket
100 105 being provided with a vertical opening which registers with the opening in the side of the pan, a tubular member provided with a longitudinal series of perforations and adapted to be inserted in said pocket, and a clamp
110 near the upper end of said tubular pocket for holding the tubular pocket in various positions.

5. A photographic print washer comprising a pan, provided with a vertical opening in the side thereof, a basket rotatably mounted in said pan, a tubular pocket secured to the side of said pan adjacent the above mentioned opening, the said tubular pocket being provided with a vertical opening which
115 120 registers with the opening in the side of the pan, a tubular member provided with a longitudinal series of perforations in said pocket, said tubular member being capable of a vertical and a rotatable movement
125 whereby the angle of projection of the jets of washing fluid may be varied or the entire projection of washing fluid be stopped, and a means for holding the tubular member in any one of various positions.
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6. A photographic print washer comprising a pan, provided with a vertical opening in the side thereof, a tubular pocket secured to the pan adjacent the opening in the pan, 5 said tubular pocket being provided with a vertical opening which registers with the opening in the side of the pan, a tubular member provided with a longitudinal series of perforations removably secured within the tubular pocket, a water outlet means 10 arranged exteriorly of the pan and communicating with the interior of the pan, an upstanding bracket secured to the side of the pan, and a basket rotatably mounted in the pan and suspended from the bracket.

ELMER CRUSEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."