

No. 651,923.

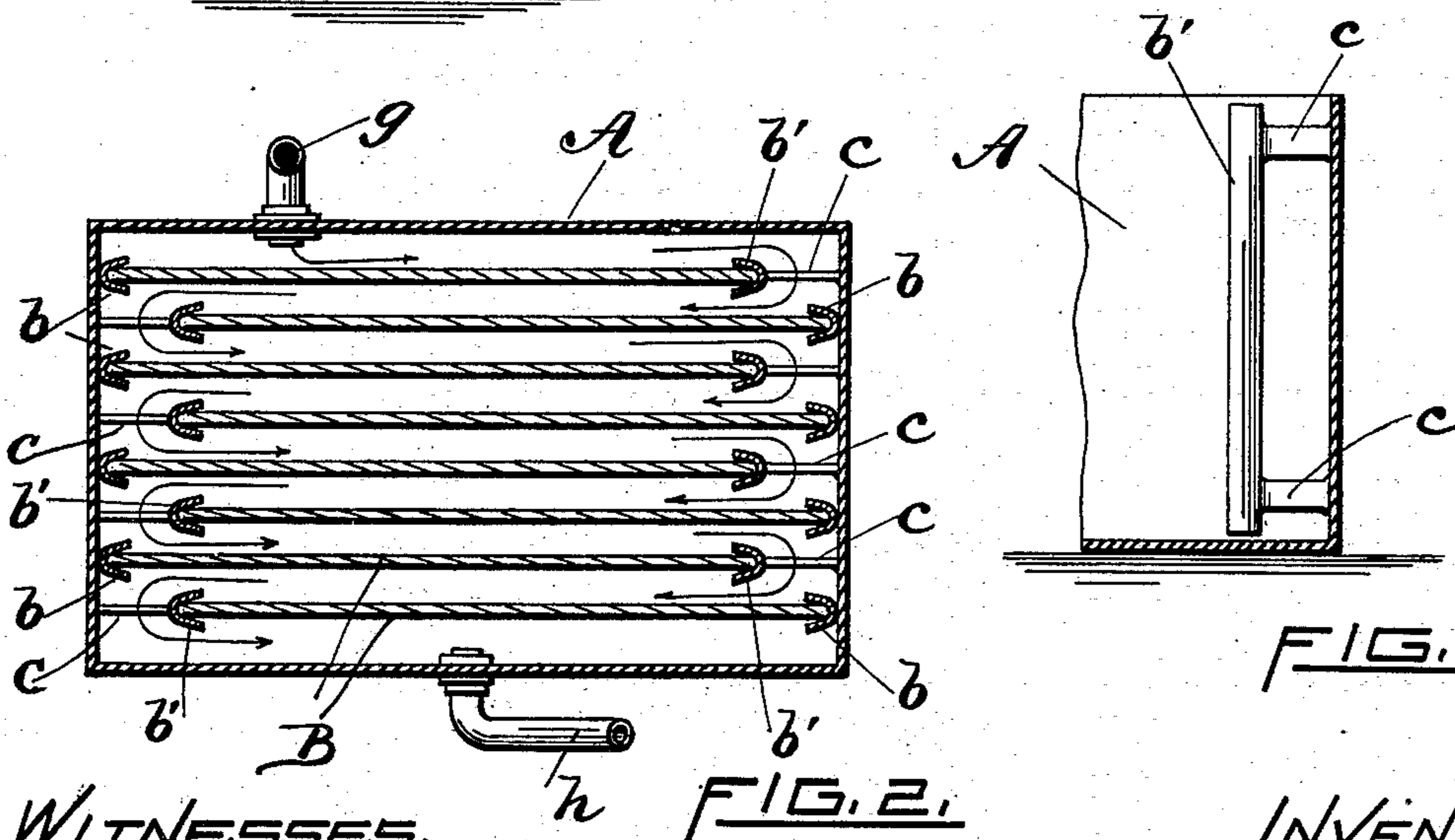
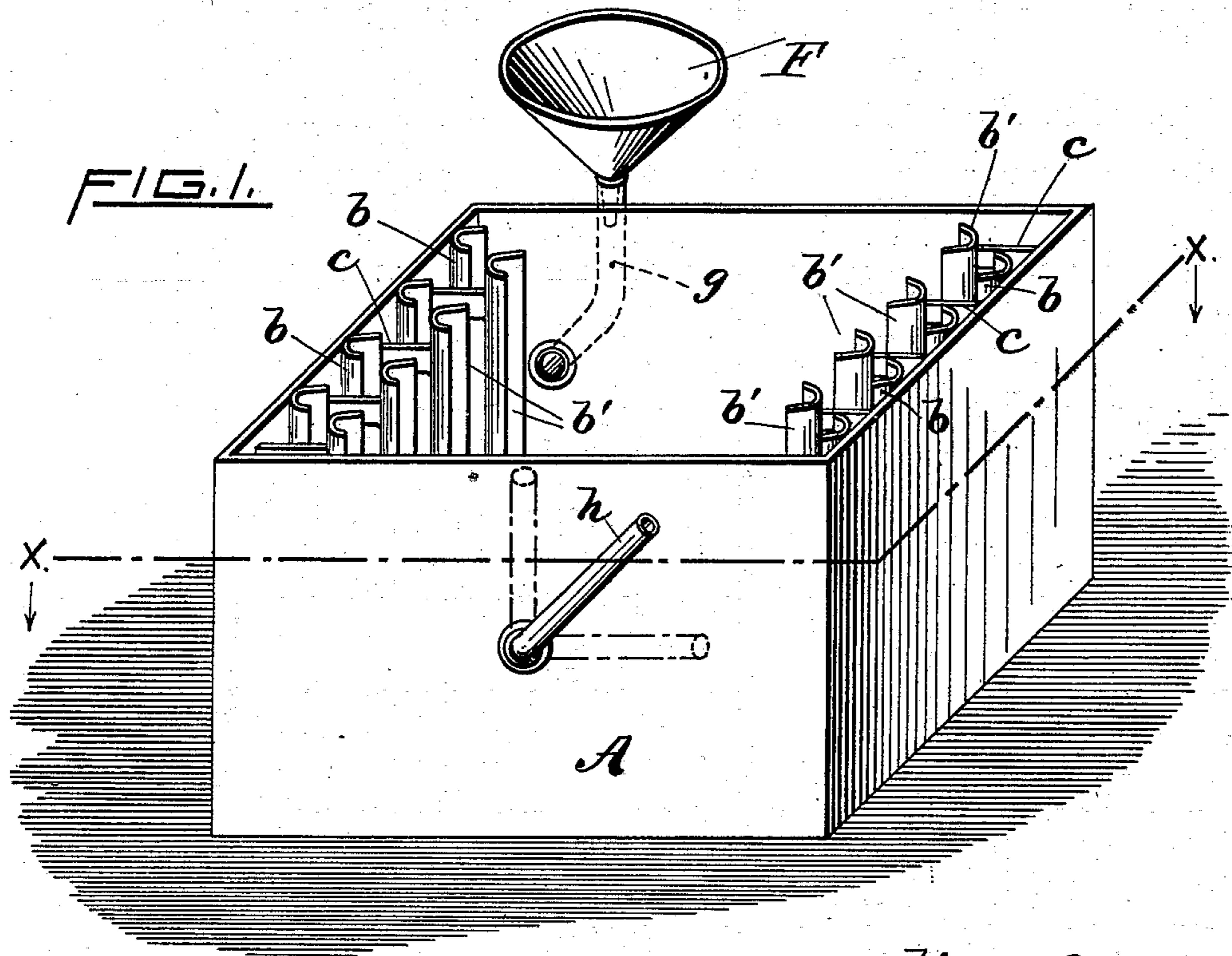
Patented June 19, 1900.

J. L. JENKS.

WASHING DEVICE FOR PHOTOGRAPHIC NEGATIVES.

(Application filed May 5, 1900.)

(No Model.)



WITNESSES.

FIG. 2.

INVENTOR.

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WASHING DEVICE FOR PHOTOGRAPHIC NEGATIVES.

SPECIFICATION forming part of Letters Patent No. 651,923, dated June 19, 1900.

Application filed May 5, 1900. Serial No. 15,653. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. JENKS, a citizen of the United States of America, and a resident of Pawtucket, county of Providence, and State of Rhode Island, have invented certain new and useful Improvements in Washing Devices for Photographic Negatives, of which the following is a specification.

My invention relates to improvements in washing devices for photographic negatives in which the negatives are placed upright in a box or tank arranged in such a manner that the water flows in a horizontal current over the entire surface of each negative; and the purpose of my invention is to provide a washing device for photographic negatives in which the negatives may be washed in the shortest possible time and with the least possible consumption of water. I accomplish this purpose by the device shown in the accompanying drawings, in which—

Figure 1 is a perspective of my invention; Fig. 2, a horizontal section through the dotted line $x x$ of Fig. 1, and Fig. 3 a detail of one of the clips or supports.

Like letters refer to like parts throughout. In Fig. 1, A is a rectangular hollow box or tank of a size suitable for the size of negative to be washed. Upon one face of the tank is the bent tube g , which communicates with the interior of the tank, as shown, and terminates at its upward end with a funnel-shaped receptacle F. The opposite face is provided with the tube h , having a right-angled elbow, as seen in Fig. 2, and which may be revolved about its horizontal portion so as to assume a vertical position or a horizontal position or any position midway between the two.

$b b b b' b' b' b'$ are clips for holding the negatives in an upright position. The principal feature of my invention is the arrangement of these clips. Commencing with the back or most remote clip, (seen in Fig. 1 on the left-hand side of the tank,) this clip, it will be seen, is fastened to the inner face of the tank and in close proximity to it. The next clip b' projects away from the inner face of the tank by means of the bracket c , leaving a space between the clip and the side of the tank, so that the water may freely pass through the same. The third clip is fixed close to the face of the tank, and so on alter-

nately, one clip being fixed to the face of the tank and the next one projecting from the face by the bracket c . Upon the opposite or right-hand side of the tank the clips are arranged in a similar manner, only the clip upon one side which is fixed to the side of the tank is opposed on the opposite side of the tank by a clip which projects by means of the bracket c , and so on throughout the entire tank.

The clip and bracket are seen most clearly in Fig. 3, in which b' represents the projecting clip, and $c c$ the bracket at the top and bottom, leaving a water-space between the clip and the side of the tank, as shown. The result of this arrangement is readily seen from Fig. 2. The water which is used to wash the negatives comes through the funnel F and the tube g into the tank. As it cannot escape around the left end of the negative, it is forced to take its course across the face of the negative and through the water-space at the right-hand end of the tank, between the clip b' and the face of the tank. Not being able to pass the second negative at the right-hand edge thereof at b , the water then flows through the entire space between the first and second negatives and through the water-space at the left-hand end of the second negative, as shown by the arrows, and so on around every negative until the water makes its final exit through the tube h . This tube h is adjusted in such a manner that the orifice is placed on a level with the top line of the negatives. By this means the water is prevented from flowing over the tops of the negatives in the washing process and is compelled to follow the zigzag course around each negative and across its entire surface until it makes its exit through h .

The inlet-tube g may be placed anywhere in the face of the tank A, but preferably nearer the clip which is fastened to the side of the tank, as shown, as in this manner the water passes over the entire surface of the first negative, which might not be the case if the inlet were placed nearer the projecting clip b' . In like manner the tube h may be located at any portion of the face of the tank A, provided h is of sufficient length, so that when in an upright position the orifice would be practically on a level with the top of the tank. It will be seen that by this arrangement a constant flow of water is secured over

the surface of each negative, so that a minimum supply keeps a constant current moving in such a manner as to insure the thorough cleansing of the negative throughout its entire surface in the shortest possible time. Again, the current being horizontal and not vertical, any sediment which may collect in the bottom of the tank is not stirred up by the current of the water, and thus the surfaces of the negatives are kept free from contamination.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A washing device for photographic negatives consisting of a hollow tank of rectangular cross-section, having an inlet for water upon one side, an outlet upon the opposite side, and vertical clips for holding negatives upon the two remaining sides, said clips being so arranged that clips fixed close to the inner sides of the tank alternate with clips separated from such inner sides by a bracket, in such a manner that the water passes around one end of the first negative, thence around the opposite end of the next negative, and so on continuously throughout the entire tank, substantially as set forth.

2. A negative-washing device consisting of

a tank of rectangular cross-section, having an inlet on one side, an outlet upon the opposite side, said outlet consisting of a pipe having a right-angled elbow and capable of revolving upon its horizontal portion so that the water-level within the tank may be varied at will; and clips within the tank adapted to support the negatives in a vertical position, and so arranged that the first, third, fifth, &c., clips are attached close to the inner face of the tank while the second, fourth, sixth, &c., clips project away from said inner face by means of a bracket so as to leave a water-space between the clip and such inner face; and the clips upon the opposite inner faces of the tank being so arranged that a projecting clip on one inner face is opposed by a non-projecting clip fixed to the side of the tank on the opposite inner face, and so on throughout the entire tank, so that the water is made to flow in a horizontal current around both surfaces of each negative, substantially as described.

Signed at Pawtucket, Rhode Island, this 3d day of May, 1900.

JAMES L. JENKS.

Witnesses:

FLORENCE E. BATES,
LELLAN J. TUCK.