

L. V. MOULTON.

Machines for Washing Photographs.

No. 141,658.

Patented August 12, 1873.

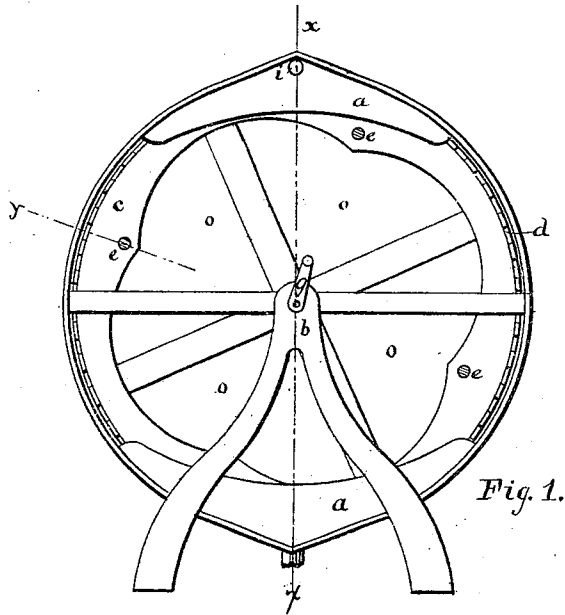


Fig. 1.

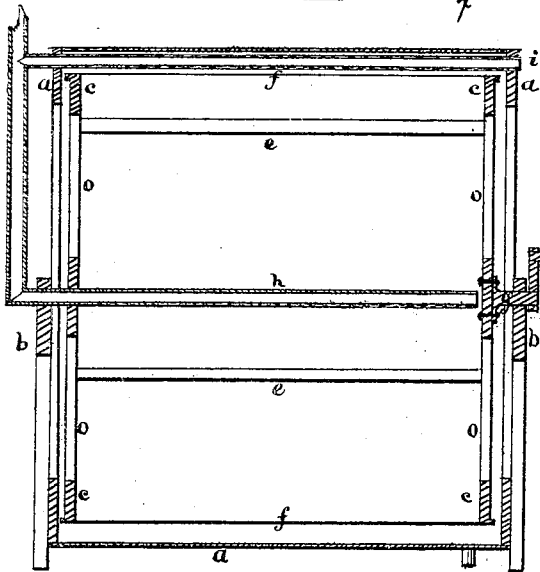


Fig. 2

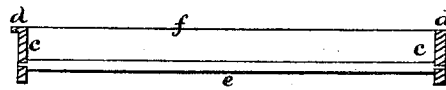


Fig. 3.

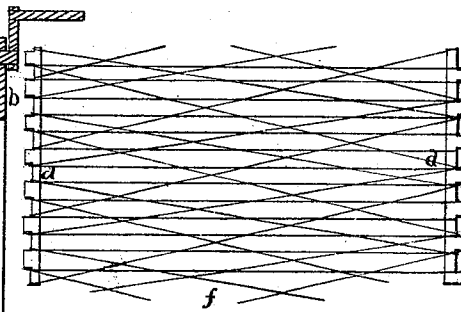


Fig. 4.

Witnesses.

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LUTHER V. MOULTON, OF BEAVER DAM, WISCONSIN.

IMPROVEMENT IN MACHINES FOR WASHING PHOTOGRAPHS.

Specification forming part of Letters Patent No. **141,658**, dated August 12, 1873; application filed February 10, 1873.

To all whom it may concern:

Be it known that I, LUTHER V. MOULTON, of Beaver Dam, in the county of Dodge and State of Wisconsin, have invented certain Improvements in Machines for Washing Photographs, of which the following is a specification:

The first part of my invention relates to an improved combination of a revolving cylinder with stationary pipes in such a manner that water may be applied to both sides of the prints, thereby thoroughly removing the fixing agent in a very short time. The second part of my invention relates to an improvement in the construction of the above-mentioned cylinder, whereby the machine is made more convenient to operate, and of greater capacity.

Figure 1 is an elevation, showing that end of the machine which is at the right hand in Fig. 2. Fig. 2 is a vertical section, showing the parts of the machine which are at the right hand of the line *xx* in Fig. 1. Fig. 3 is a section of the cylinder on the line *y*, showing the position of the bars *eeee*. Fig. 4 is a portion of the surface of the cylinder, showing the construction of the netting *f*.

Like letters refer to like parts in all the figures.

The case *a* serves to collect the water, and is supported by the frame *b*. *c* is the cylinder, constructed as hereinafter described, and supported on the right by the crank-shaft *g* and on the left by the pipe *h*, upon which it revolves, and which is perforated with a row of small holes to allow the water to escape. *i* is another pipe similar to *h*, placed in the top of the case *a* to operate upon the outside surface of the prints to be washed.

The cylinder *c* is constructed of two wheels, *c c*, having teeth *d* to hold the netting and

openings *o o o o* through which to put the prints in and remove them from the machine, and connected by bars *eeee*, placed at a distance from the periphery to admit of placing the prints under them on the netting *f*, which is made of small twine or other suitable material attached to the teeth *d*, as shown in Fig. 4, to carry the prints and allow the water to act upon them as it is forced under the netting *f* by the motion of the cylinder, and which is also made continuous throughout the entire circumference of the cylinder to obtain the greatest possible amount of surface.

The photographs to be washed are taken while wet and placed on the inside of the netting, to which they will adhere. A rotary motion being imparted to the cylinder *c*, and water turned on, any solution remaining in the prints is quickly removed by the water escaping from the holes in the pipes *h i*.

I am aware that the combination of a cylinder with a central pipe and case has been used for the purpose of washing photographs; but, so far as I am aware, it has proved ineffectual, because photographic paper is impervious to water, and the pipe *h*, throwing water on only one side of the paper, would not remove the fixing agent from the other side, in consequence of which the prints would soon fade.

I claim as my invention—

1. The combination of the pipe *i* with the cylinder *c* and case *a*, substantially as and for the purpose specified.

2. The combination of the wheels *c c* with the bars *eeee* and netting *f*, substantially as and for the purpose specified.

LUTHER V. MOULTON.

Witnesses:

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