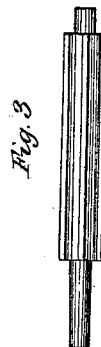
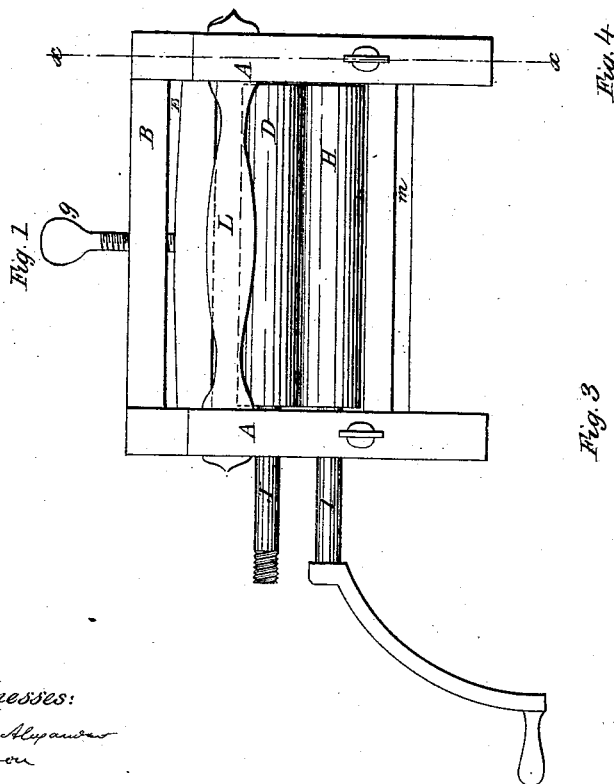
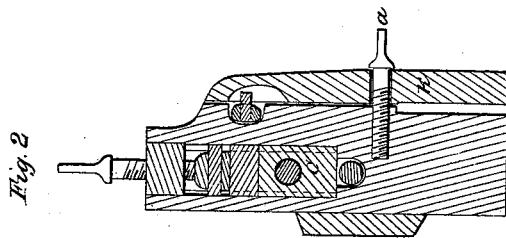


Harris & Bush,
Wringer,
N^o 48,933. Patented July 25, 1865.



Witnesses:
Charles A. S. S. S.
J. M. Mason

Inventors:
M. Harris
R. H. Bush
per C. A. S. S. and
att.

UNITED STATES PATENT OFFICE.

M. HARRIS AND R. G. BUSH, OF JAMESTOWN, NEW YORK.

WRINGING-MACHINE.

Specification forming part of Letters Patent No. 48,933, dated July 25, 1865.

To all whom it may concern:

Be it known that we, M. HARRIS and R. G. BUSH, of Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Machines for Wringing Clothing; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making a part of this specification, A represents the frame of the machine, which is made in the usual manner, with journal-bearings in the two side pieces for the journals or axles of the rollers to rest and revolve in.

H and D represent the two rollers, which are made of rubber and secured upon the shafts I and J. The upper shaft, J, has its bearings in slide-blocks C, as is customary, and said slide-blocks are pressed down by means of the bar E and thumb-screw *g*, in order to tighten the pressure upon the clothing or adjust the rollers to suit different bulks. The shafts I and J are made of metal and fluted, as shown in Figs. 3 and 4, in order to hold the rubber covering securely upon them and prevent its turning, and they are also galvanized to prevent corrosion.

It will be observed that the shafts J and I are made longer at one end and project beyond the frame, and are so constructed that the handle which is applied to one can be applied to both, and that the handle is so constructed as to admit of its being applied to both, and so that it will revolve when applied to either.

The great advantage of this arrangement is to prevent the wear upon one roller more than upon the other. It is a well-established fact in this class of wringing-machines that when the upper roller is turned or rotated by the friction of the lower roller it will become in a short time completely destroyed, while the upper roller remains almost as good as new. To overcome this defect and make both of the rollers wear alike, and also to prevent the rubber from turning by wear upon the shaft, the shafts are extended and so constructed as to allow of the handle being applied to either, and thus equalize the wear.

K represents a bar, which is secured by means of a thumb-screw, *a*, to the frame A, and is used for the purpose of securing the frame to a tub or vessel in which the clothes are washed. This bar K is operated by means of a roller, L, which is provided with cams near its ends, which work in openings between the frame A and bar K.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The arrangement of rubber rollers upon shafts which have their ends extended, and constructed so that handles can be applied to each or both when said rollers and shafts are used in a frame for the purpose of wringing clothing, as is herein fully set forth.

M. HARRIS.
R. G. BUSH.

Witnesses:

CHAS. P. INGERSOLL,
C. P. HARRIS.