G. C. EASTMAN.

Combined Washing and Wringing-Machine.

No. 166,920 Patented Aug. 24, 1875.

Fig. 1

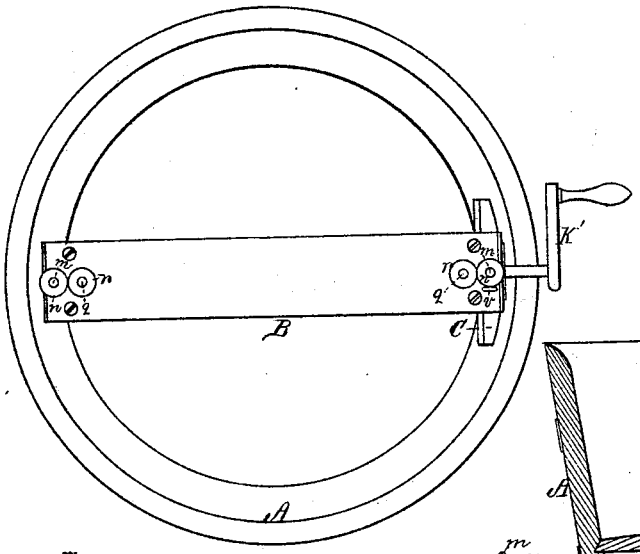


Fig. 2.

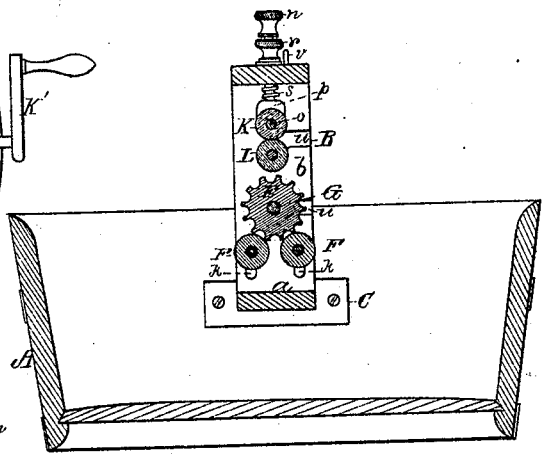


Fig 3.

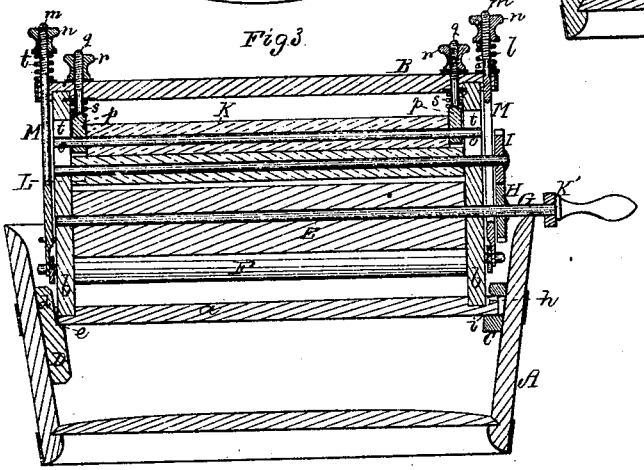


Fig. 6.

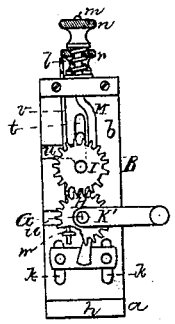


Fig 7.

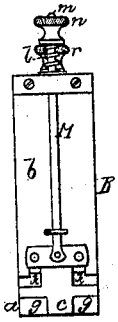


Fig. 4.

Fig. 5.

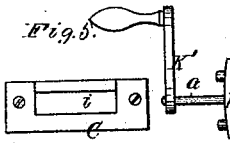
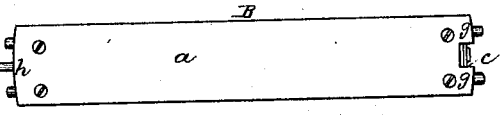


Fig. 8.



Witnesses.
S. W. Pipes
L. N. Fowler.

George C. Eastman.
by his attorney.
R. H. Eddy

UNITED STATES PATENT OFFICE.

GEORGE C. EASTMAN, OF LEWISTON, MAINE.

IMPROVEMENT IN COMBINED WASHING AND WRINGING MACHINES.

Specification forming part of Letters Patent No. **166,920**, dated August 24, 1875; application filed April 14, 1875.

To all whom it may concern:

Be it known that I, GEORGE C. EASTMAN, of Lewiston, of the county of Androscoggin and State of Maine, have invented a new and useful or Improved Combined Clothes-Washing and Wringing-Machine; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view; Fig. 2, a transverse section; and Fig. 3, a longitudinal section of it, with its tub. Figs. 4 and 5 are inner side views of the shouldered tenon and the mortised piece for holding the machine to the tub; Figs. 6 and 7 are opposite end views; and Fig. 8, a bottom view of the machine.

In the said drawings, A denotes a tub, and B the rectangular frame of the washing and wringing machine. In order to hold the two in connection and enable them to be easily disconnected, as occasion may require, there are fixed to opposite parts of the inner surface of the tub a mortised piece or block, C, and a shouldered tenon, D. The lower girt *a*, of the frame B, projects at each end a short distance beyond the uprights *b b*, and has one of the projections *g h* notched, as shown at *c*, to straddle the tenon *d*, and rest on its shoulder *e*. The other projection, *h*, enters the mortise *i*, of the piece C. By such means the frame can be readily fitted to or removed from the tub. Within the frame there is arranged, as shown, a fluted roller, E, and two plain rollers, F F. The shaft G of the fluted roller turns in bearings in the frame, and is provided with a gear, H, and a crank, K′. The said gear H engages with another gear, I, fixed on the shaft of the lower of a pair of squeeze-rollers, K L, arranged in the frame, and one over the other, and both over the fluted roller, all as represented. The two rollers F F have their journals supported in hangers M M, and extended through vertical slots *k* made in the groove. The hangers pass up through the upper girt of the frame B, and also through helical springs *l l* resting thereon. When above the girt, the hangers are provided with screws *m m* and nuts *n n*, arranged with the spring *s*, in manner as represented. The journals *o o* of the upper of the squeeze-rollers of the wringer are also supported in like hangers *p p*, provided with screws *q q*, nuts *r r*, and springs *s s*, arranged as represented, whereby the roller is made to act on its fellow, or on an article when between them, with a yielding pressure. The journals *o o* extend into vertical guide-slots *t t* made in the frame. Furthermore, the frame is notched, as shown at *u u*, to receive the shafts of the fluted roller and the lower squeeze-roller, they being held in place by a key or rod, *v*, going through the top girt of the frame, and a staple, *w*, inserted in one of the uprights *b b*.

In order to wash an article of clothing the tub should be supplied with a sufficient amount of water. The article, being placed in the water, is to be introduced between the fluted roller E and one of the rollers F F, below it, after which the flute-roller should be revolved with a reciprocating motion. After the washing may have been finished, one end or part of the article should be turned up into the bite of the squeeze-rollers, and the crank should be revolved one way, so as to cause such rollers to draw the article between them and out of the water, and squeeze from it the fluid, which, on leaving it, will flow directly back into the tub.

I claim as my invention in the described combined washing and wringing machine as follows, viz:—

The two rollers E L, geared together, as described, in combination with the three rollers K F F, arranged and provided with yielding pressure devices, the hangers M M *p p*, springs *l l s s*, screws *m m q q*, and nuts *n n r r*, as set forth, all being applied to and arranged in the frame B, as specified.

GEORGE C. EASTMAN.

Witnesses:

R. H. EDDY,

J. R. SNOW.