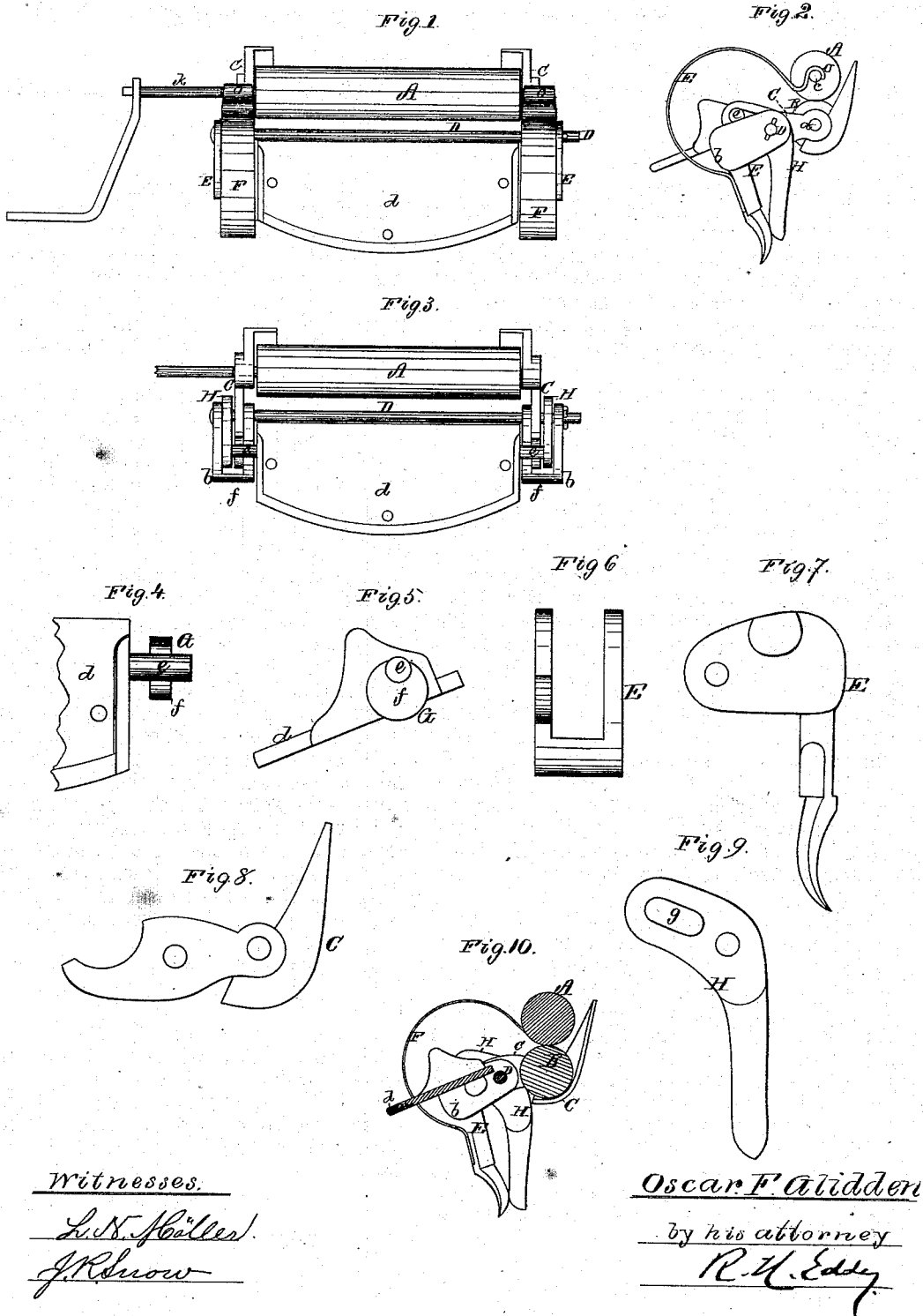


O. F. GLIDDEN.
Clothes-Wringers.

No. 158,369.

Patented Jan. 5, 1875.



UNITED STATES PATENT OFFICE.

OSCAR F. GLIDDEN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN CLOTHES-WRINGERS.

Specification forming part of Letters Patent No. **158,369**, dated January 5, 1875; application filed November 13, 1874.

To all whom it may concern:

Be it known that I, OSCAR F. GLIDDEN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Clothes - Wringers; 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, and Fig. 2 an end elevation, of a wringer provided with my said improvement. Fig. 3 is a top view of it without its springs. Fig. 4 is a top view, and Fig. 5 an end view, of the "actuator," or arched bar or shelf, and its journals and cams. Fig. 6 is a top view of one of the spring-jaw levers. Fig. 7 is an inner-side view thereof. Fig. 8 is a side view of one of the levers for the support of the lower roller. Fig. 9 is a side view of one of the inner jaw-levers. Fig. 10 is a transverse section of the wringer.

My invention is an improved wringer, consisting of the combination of an actuator, (composed of an arched bar or shelf, and its cams and journals, arranged as hereinafter described,) two sets of jaw-levers, two "C-springs," and two lower roller-supporting levers, all arranged in manner and upon one pivotal shaft, and applied to a pair of squeeze-rollers, substantially as hereinafter explained, and as represented in the accompanying drawings.

In these drawings, A denotes the upper, and B the lower, roller, the latter having its journals *a a* supported in bearings in two levers, C C, having for their fulcrum a rod or shaft, D, arranged as shown. The longer arms or tails of the said levers are extended into the heads *b b* of what I term the "spring-jaw levers" E E, such heads being formed as represented, and applied to the shaft D so as to turn thereon.

From each jaw-lever E a C-spring, F, projects, in manner as shown, such spring resting on, and receiving in a bearing, *o*, formed in it, one of the journals, *c*, of the upper roller, A.

Between the heads *b b* is the shelf *d* of the actuator G, such shelf being provided with

journals *e e* extending from its ends. On each of said journals *e e* is one of two cams, *f f*, which bear upon the tails or longer arms of the levers C C. The journals *e e* extend into the slots *g* of the upper arms of the inner jaw-levers, H H. These jaw-levers, formed as represented, are pivoted on the shaft D, and projected within the heads *b b*, and below them, in manner as shown.

The jaws, or lower arms of the jaw-levers, serve to clamp or hold the machine to a tub. On turning the actuator upward and over toward the upper roller, both pairs of jaws readily open or become loose, so as to enable them to be applied to or removed from a tub; but on moving back the actuator G, so as to carry its shelf into a horizontal or about a horizontal position, the cams *f f* will be caused to act on the tails of the levers C in a manner to force them downward, the journals *e e*, at the same time, operating to raise the slotted arms of the inner jaw-levers, in consequence of all of which the jaws will be forced upward, so as to cause the springs to press the upper roller downward toward the lower one.

When the actuator is up the springs are relieved from strain; but when the actuator is down, each spring not only operates to close the jaws, but to press the upper roller down toward the lower one. Furthermore, the shelf of the actuator, when down, will receive the clothes as they may pass from the rollers, and will thus prevent them from falling into the tub.

The shaft K of the lower roller is to be provided with a crank, to enable the roller to be revolved.

I claim—

The combination of the actuator G, the two sets of jaw-levers E E H H, the springs F F, and the lower roller-supporting levers, C C, all arranged upon a pivotal shaft, D, and applied to the rollers A B, substantially as specified.

OSCAR F. GLIDDEN.

Witnesses:

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