J. D. VAN DUSEN.
Clothes-Wringer.

No. 215,185. Patented May 6, 1879.

Fig. 1.

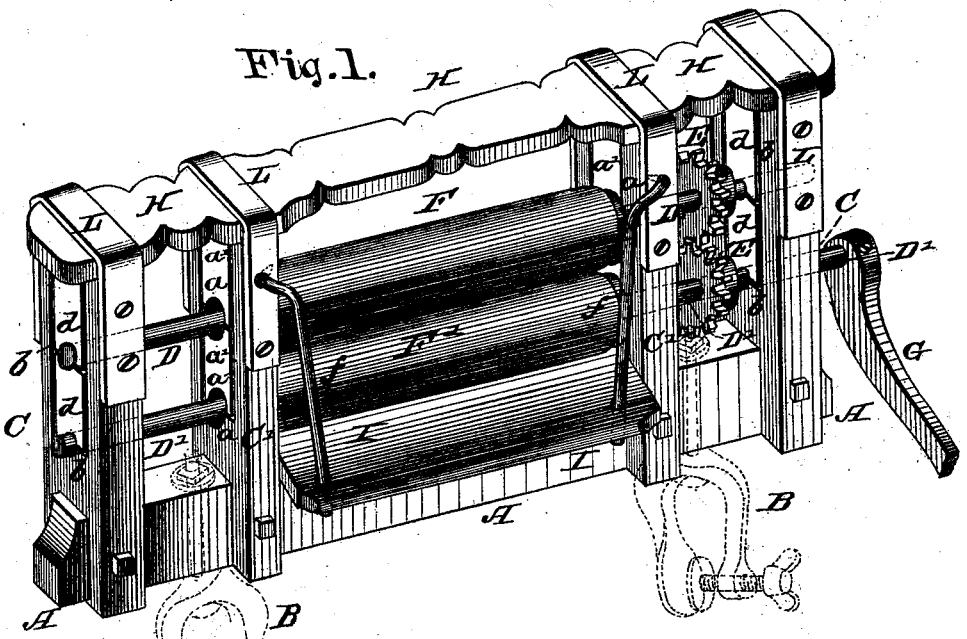

Fig. 2.

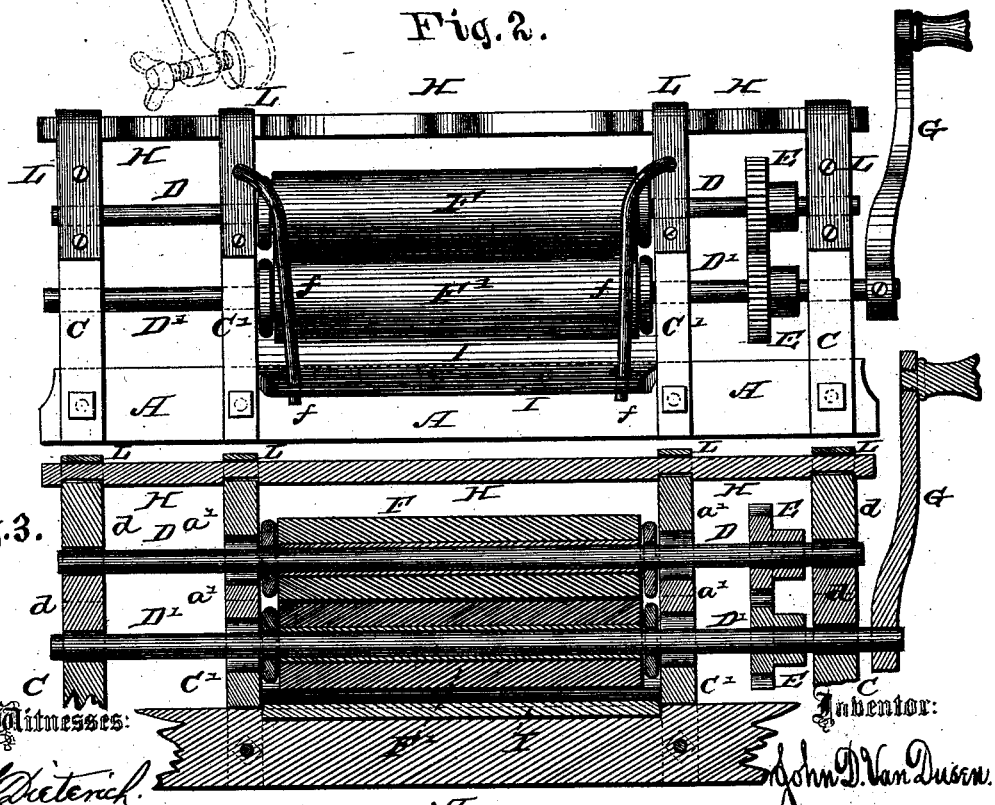

Fig. 3.

Witnesses:
P. Peterick.
Frank H. Duffy

Inventor:
John D. Van Dusen.
Per C. H. Watson & Co. Attorneys.

# UNITED STATES PATENT OFFICE.

JOHN DEWITT VAN DUSEN, OF AUBURN, NEW YORK.

## IMPROVEMENT IN CLOTHES-WRINGERS.

Specification forming part of Letters Patent No. **215,185**, dated May 6, 1879; application filed April 11, 1878.

*To all whom it may concern:*

Be it known that I, JOHN D. VAN DUSEN, of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Clothes-Wringers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The object of my invention is to construct a clothes-wringer so as to dispense with the use of springs or weights usually employed to compress the elastic rollers against each other during the operation of wringing by the use of a shaft or shafts made of steel or other elastic or springy metal, and having each end of the shafts extending a considerable distance beyond the ends of the rubber covering, and providing fixed bearings near the ends of the shafts, in order to secure an elastic or springy function of the shaft or shafts in conjunction with the elastic covering, and in the combination of parts, as hereinafter more fully set forth.

In the annexed drawings, to which reference is made, and which fully illustrate my invention, Figure 1 represents a perspective view of a clothes-wringer embodying my invention. Fig. 2 is a side elevation, and Fig. 3 a longitudinal vertical section of the same.

A represents the bed-piece of the wringer, provided with suitable clamps B B, for attachment to the tub. At each end of the bed-piece A is a stationary standard, C, in which the two shafts D D′ have their bearings, said shafts being geared together by suitable gear-wheels E E, and one end of the lower shaft projected beyond the standard to receive a crank, G.

In the centers upon the shafts D D′ are secured, respectively, the elastic rollers F F′, of any desired dimensions suitable for clothes-wringers. Near the ends of the rollers F F′ the shafts D D′ pass through intermediate standards, C′ C′, which are secured to the bed-piece A, and have vertical slots *a a* in blocks *a′ a′*, through which the shafts pass; or the inner standards, C′ C′, may be slotted and the blocks *a′ a′* may be dispensed with, if desired.

All the standards are connected at their upper ends by a top bar or cap-piece, H, fastened to them by metal straps L L, as shown, or in any other suitable manner; and the standards are slotted, as shown at *b*, with bearing-blocks *d d* inserted in such a manner that while the shafts D D′ are held firmly in their bearings in the outer standards, C C, they, with the rollers, can nevertheless be lifted out of the frame when required without removing the gear-wheels.

I is the water-guide, secured on the bed-piece A, for conducting the drippings back into the tub, and said water-guide is connected to the inner standards, C′ C′, by rods or braces *f f*, which may be of any suitable material, and are for the purpose of guiding the clothes between the rollers and preventing the clothes from running outside of the rollers.

The shafts D D′ are made of spring-steel or other suitable elastic or springy metal, of such dimensions as to afford the requisite elasticity in conjunction with the elastic rolls, thus dispensing with all springs to compress the rollers against each other and secure the desired yielding action of the rollers. To accomplish this object in a thorough and efficient manner the bearings of the shafts are located at a suitable distance from the ends of the rollers, and to prevent any side or backward and forward springing of the shafts and rollers the standards C′ C′ are interposed, having the vertical slots *a a* for the passage of the shafts. These slots prevent any side movement, while they allow the required springing or yielding up and down.

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

1. In a clothes-wringer, the wringing or elastic rolls secured upon shafts made of spring or elastic metal, the bearings of said shafts being fixed and located at a suitable distance from the ends of the elastic rollers, whereby the shafts furnish the necessary spring, substantially as described.

2. In a clothes-wringer, the combination, with the roller-shafts made of springy metal,

and having their fixed bearings located at a distance from the rolls, of intermediate standards provided with vertical slots, through which the roller-shafts pass, for the purposes herein set forth.

3. The combination of spring-metal shafts having extended fixed bearings, elastic squeezing-rollers impervious to water, and a suitable frame provided with inner slotted standards, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN DEWITT VAN DUSEN.

Witnesses:
HORACE T. COOK,
NELSON B. ELDRIDGE.