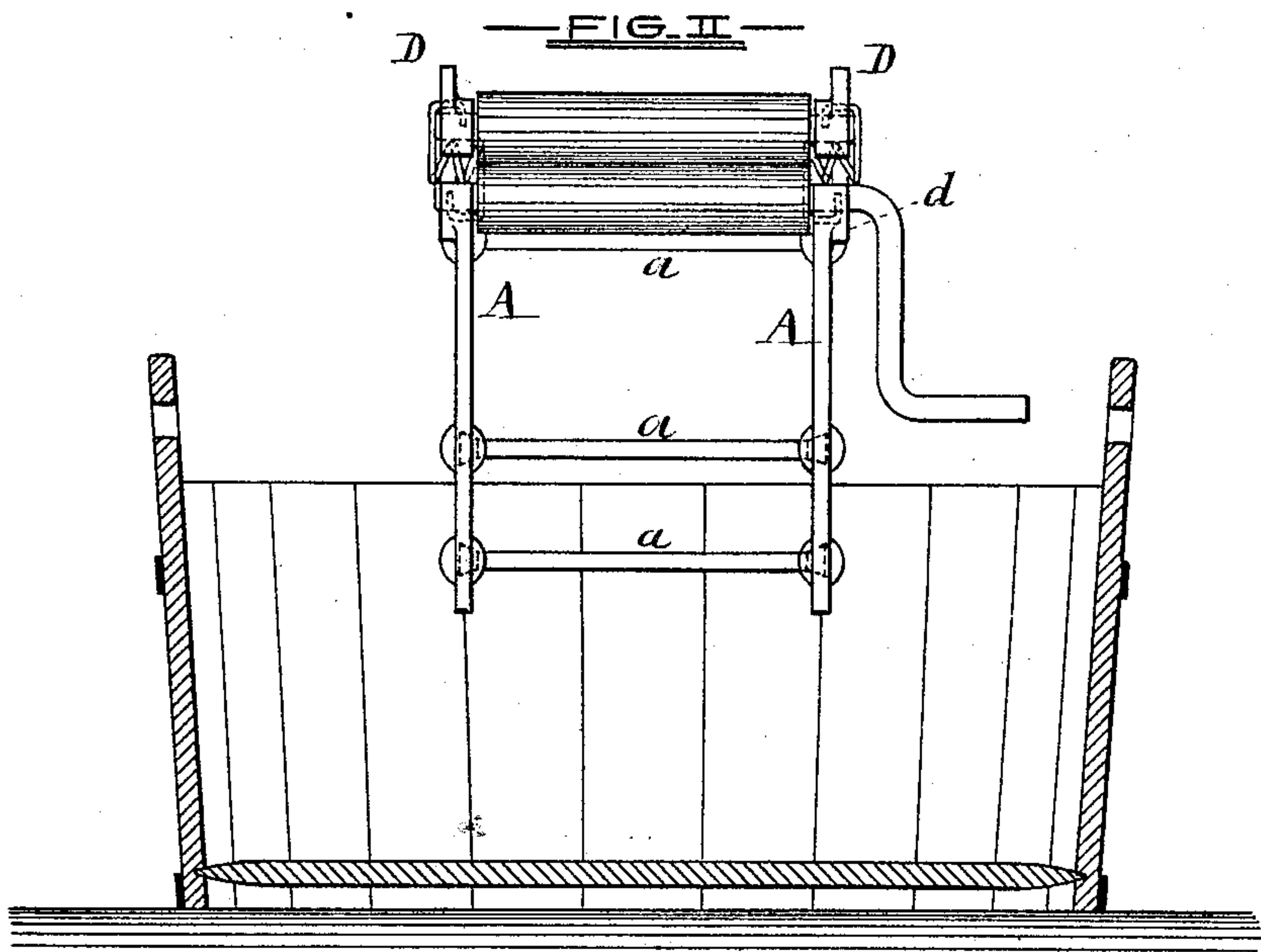
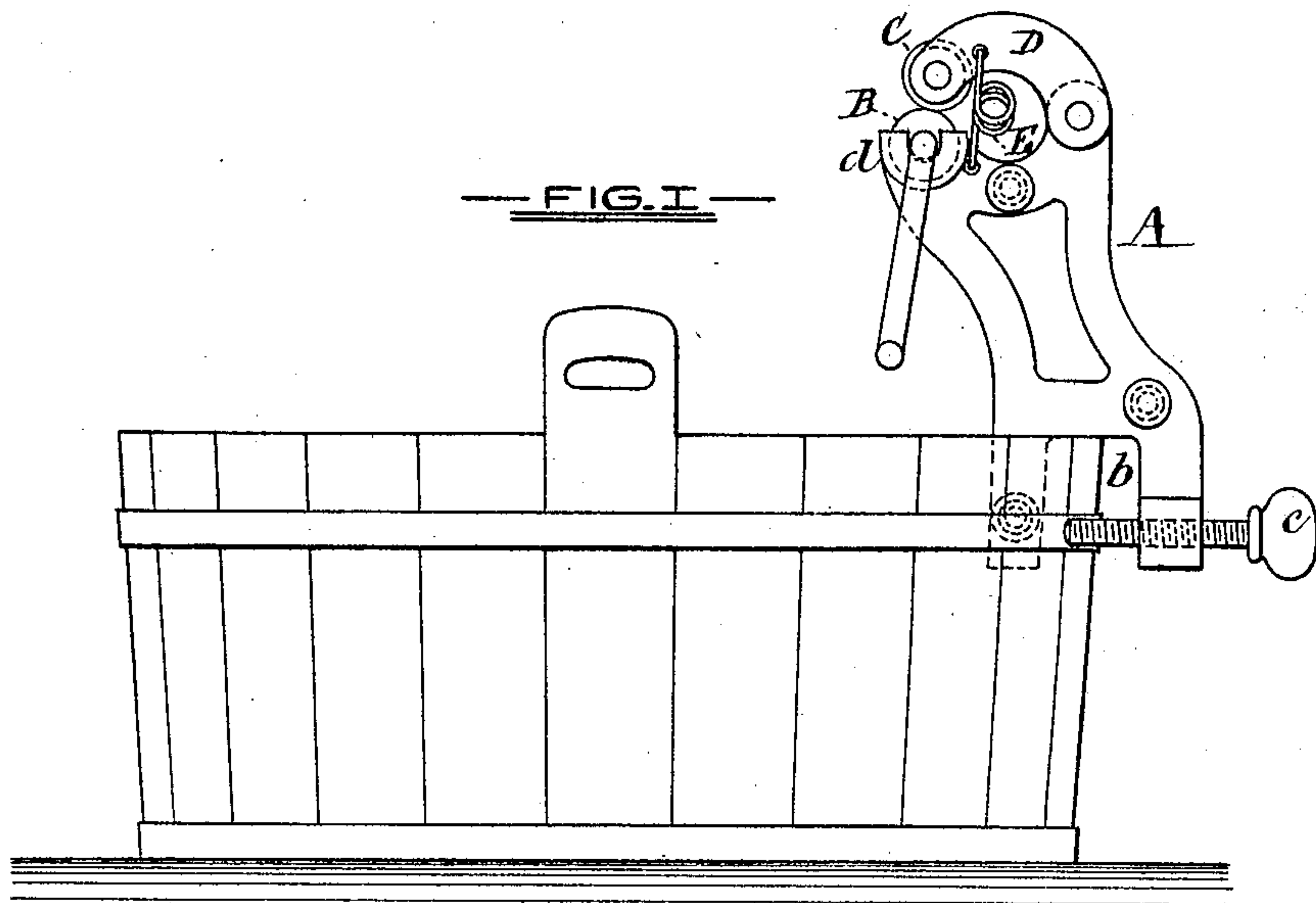


A. E. COOKE.  
CLOTHES-WRINGER.

No. 185,300.

Patented Dec. 12, 1876.



—WITNESSES—  
Wm. W. Lawson  
D. C. Cowl

—INVENTOR—  
Alfred E. Cooke  
by H. M. J. Howard  
att'y

# UNITED STATES PATENT OFFICE.

ALFRED E. COOKE, OF BALTIMORE, MARYLAND.

## IMPROVEMENT IN CLOTHES-WRINGERS.

Specification forming part of Letters Patent No. **185,300**, dated December 12, 1876; application filed October 27, 1876.

*To all whom it may concern:*

Be it known that I, ALFRED E. COOKE, of the city of Baltimore and State of Maryland, have invented certain Improvements in Clothes-Wringers, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

This invention relates to a toy clothes-wringer, to be used by children with a toy wash-tub and other toy utensils; and it consists in a certain improvement in the same whereby the elastic wringing-rollers are drawn together, in a manner designed to be effective, durable, and cheap.

In the accompanying drawing, forming a part of this specification, Figure 1 is a side view of the improved wringer attached to a wash-tub, and Fig. 2 a front view of the same, the tub being shown in section.

Similar letters of reference indicate similar parts in both figures.

A A are the frames of the wringer connected by the rods *a*, and adapted for attachment to the tub by means of the slots *b* and thumb-screw *c*. This wringer being specially intended as a toy, to be used in connection with a toy wash-tub, the frames A, which are not subjected to excessive strain, are preferably cast of some composite metal easily melted, and connected by the rods *a* in the casting or molding operation. To effect this attachment of the rods, which are of iron, and the frames, metallic molds are employed and constructed to hold the rods, and form over their ends a covering of metal, as is shown in the drawing. The upper ends of the frames have bear-

ings *d*, in which the spindle of the lower roller B revolves. The upper roller C is confined between two curved levers, D, hinged to projections on the frames, and is brought in contact with the lower roller by means of springs E. The springs E consist of pieces of spring-wire coiled about centrally of their length, and their ends bent into the form of hooks, for insertion in holes in the frames and curved levers. By coiling the wire in the direction shown, the longitudinal extension of the wire in the distension of the rollers tends to directly tighten the coil in the center thereof, and a much stronger spring is thus formed with the same gage of wire than one coiled in the usual manner. The width of springs of this character is also considerably less than the diameter of spiral springs of equal strength, and the said springs are more easily and cheaply completed for attachment to the machine.

The operation of my improved wringer as a toy is substantially the same as that of one intended for useful work, and is too well understood to require description here.

Having thus described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

The frames A, curved levers D hinged thereto, and centrally-coiled springs E, constructed and combined in the manner and for the purposes described.

In testimony whereof I have hereunto subscribed my name this 18th day of October, in the year of our Lord 1876.

ALFRED E. COOKE.

Witnesses:

GEORGE H. HOWARD,  
WM. W. TOWSON.