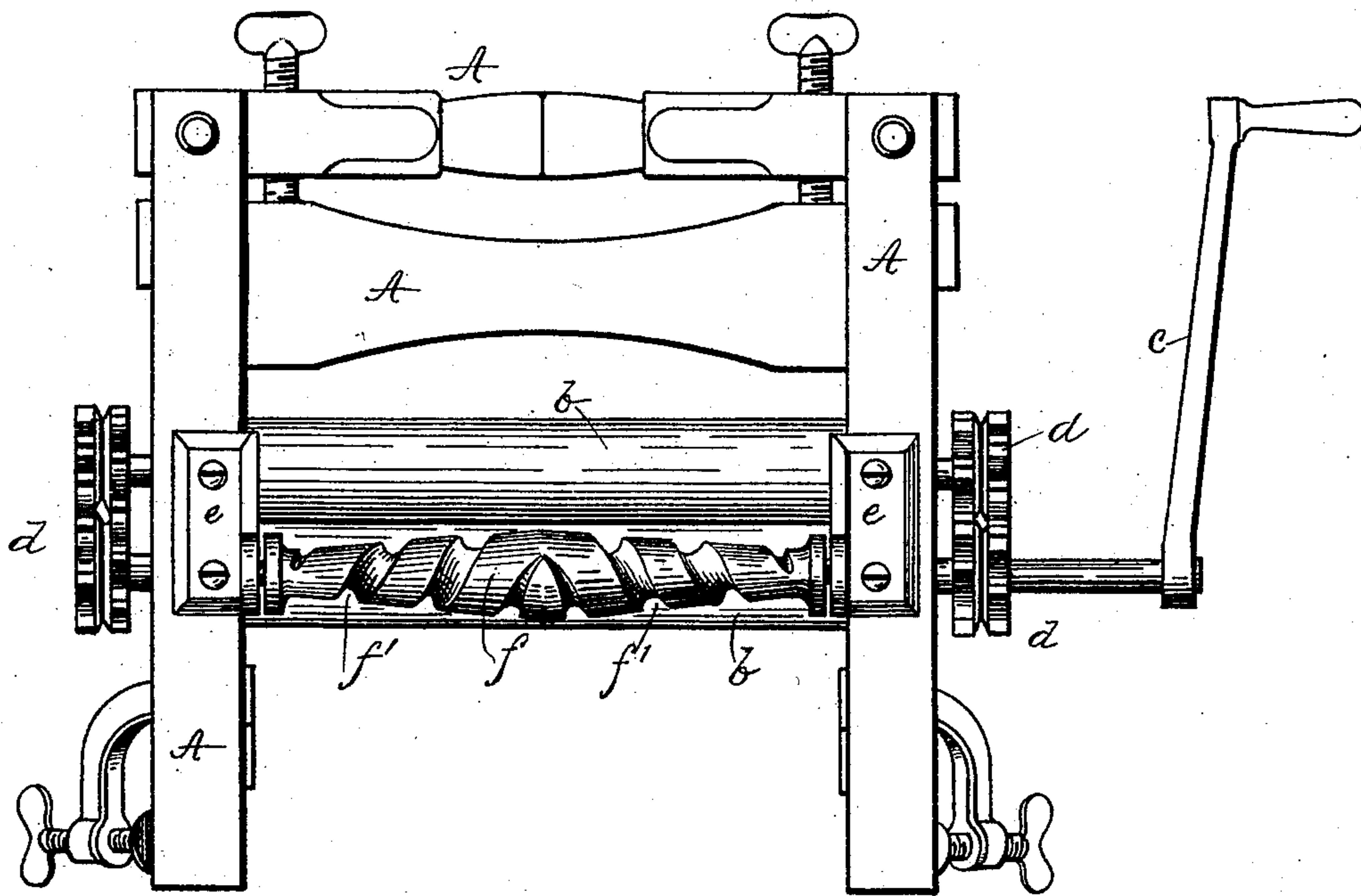


(No Model.)

F. F. KELLER.  
CLOTHES WRINGER.

No. 599,787.

Patented Mar. 1, 1898.



Witnesses:

David C. Watter

L. E. Brown.

Inventor:

Frank F. Keller,  
By *Amos Hall*  
His Attorney

# UNITED STATES PATENT OFFICE.

FRANK F. KELLER, OF TOLEDO, OHIO.

## CLOTHES-WRINGER.

SPECIFICATION forming part of Letters Patent No. 599,787, dated March 1, 1898.

Application filed June 9, 1897. Serial No. 639,965. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK F. KELLER, a citizen of the United States, residing at Toledo, Lucas county, Ohio, have invented certain new and useful Improvements in Clothes-Wringers, of which the following is a specification.

My invention relates to an improvement in clothes-wringers; and it consists in a wringer provided with elastic rolls, combined with a roller which is largest at its center and which tapers from the center toward each end, and which roller is provided with grooves, which extend from the center toward each end, as will be more fully described hereinafter.

The object of my invention is to provide a wringer with a grooved roller, so as to cause the wet fabrics to spread outward before passing through the rolls, and thus present a uniform thickness of surface to the action of the rolls. I attain these objects by means of the device and arrangement of parts hereinafter described, and shown and illustrated in the accompanying drawing, made part hereof, in which the single figure represents a side elevation of my device.

In the drawing, A is the frame, having journaled therein the rolls *b b*, driven by crank *c* and the intermediate gear-wheels *d* in the usual manner. In short, the wringer may consist of any of the well-known forms already in use.

Secured to the posts of the frame, upon the side into which the clothes to be wrung are

fed, are bearings *e e*, in which is journaled a roller *f*, preferably somewhat enlarged at its middle, the upper part of which is about on a level with the meeting-line of the two rolls *b b*. The roll *f* is provided with deep spiral grooves *f'*, which begin at the middle of this roll and wind thence in opposite directions toward its ends. Now when a fabric is fed and drawn in between the rolls *b b* it rests upon the top of the roll *f*, which roll by the travel of the fabric is caused to rotate, the top of the roll *f* moving toward rolls *b b*. The wind of the spiral grooves or channels is such that when the roll *f* is thus revolved the grooves or channels will tend to carry the fabric in each direction away from the middle of the roll, thus spreading out the fabric the full width of the wringer into nearly even thickness.

Having described my invention and its operation, what I claim, and desire to secure by Letters Patent, is—

A wringer having elastic rolls, combined with the roller *f* that is journaled to one side of the elastic rolls, and which roller is provided with grooves which extend from the center toward each end, the roller being made tapering from the center toward each end, substantially as shown and described.

FRANK F. KELLER

In presence of—

GILBERT HARMON,  
L. E. BROWN.