

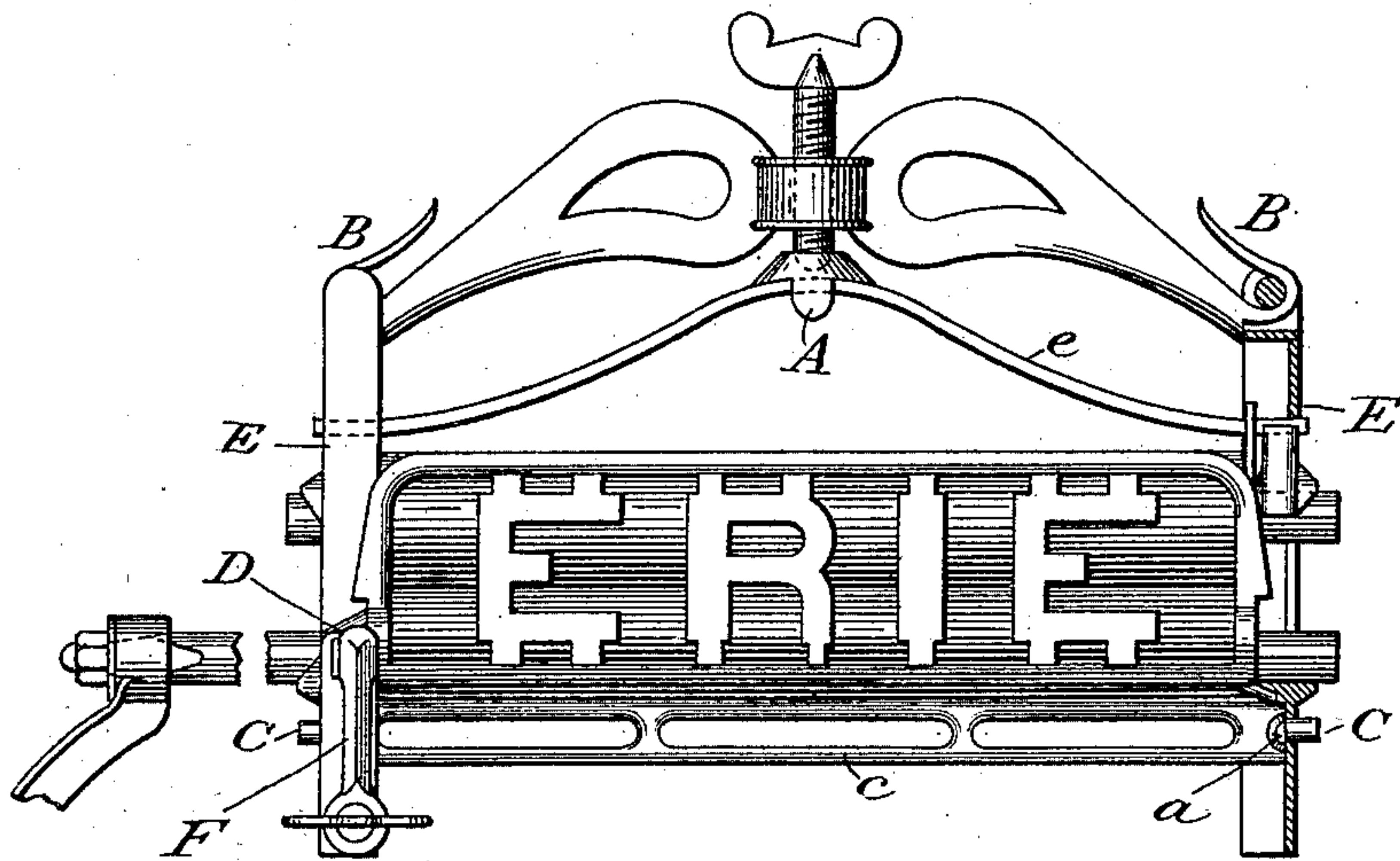
(Model.)

J. TODD.  
CLOTHES WRINGER.

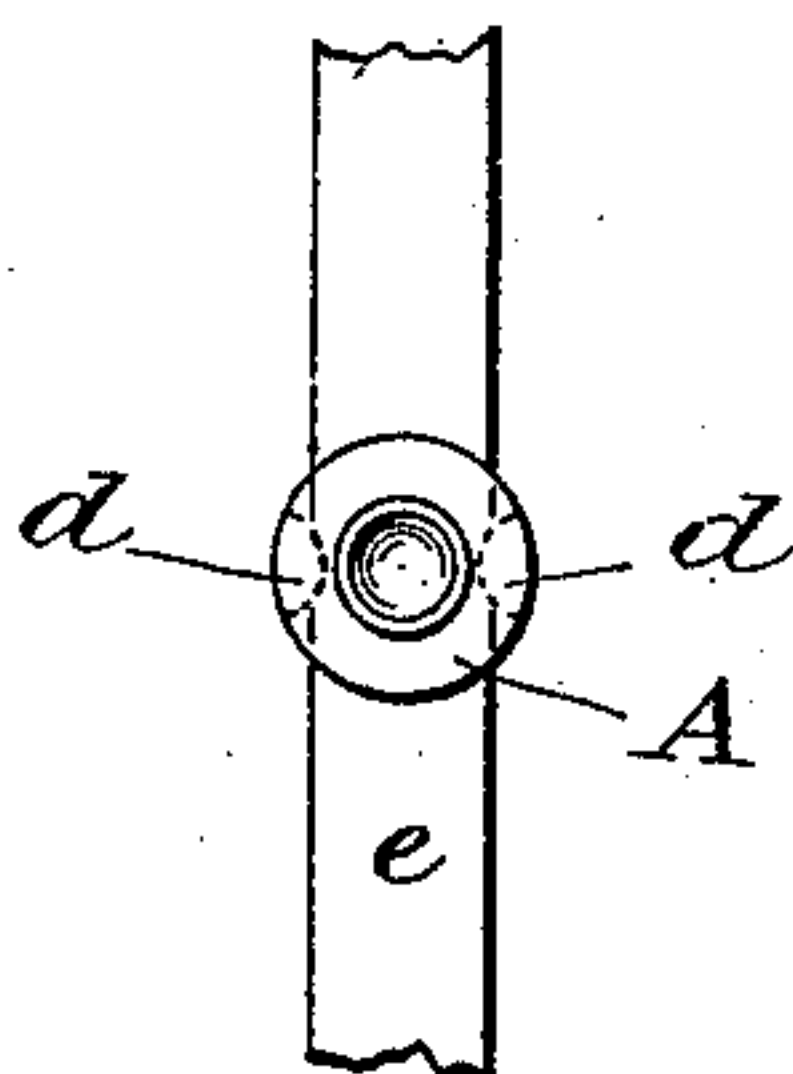
No. 272,990.

Patented Feb. 27, 1883.

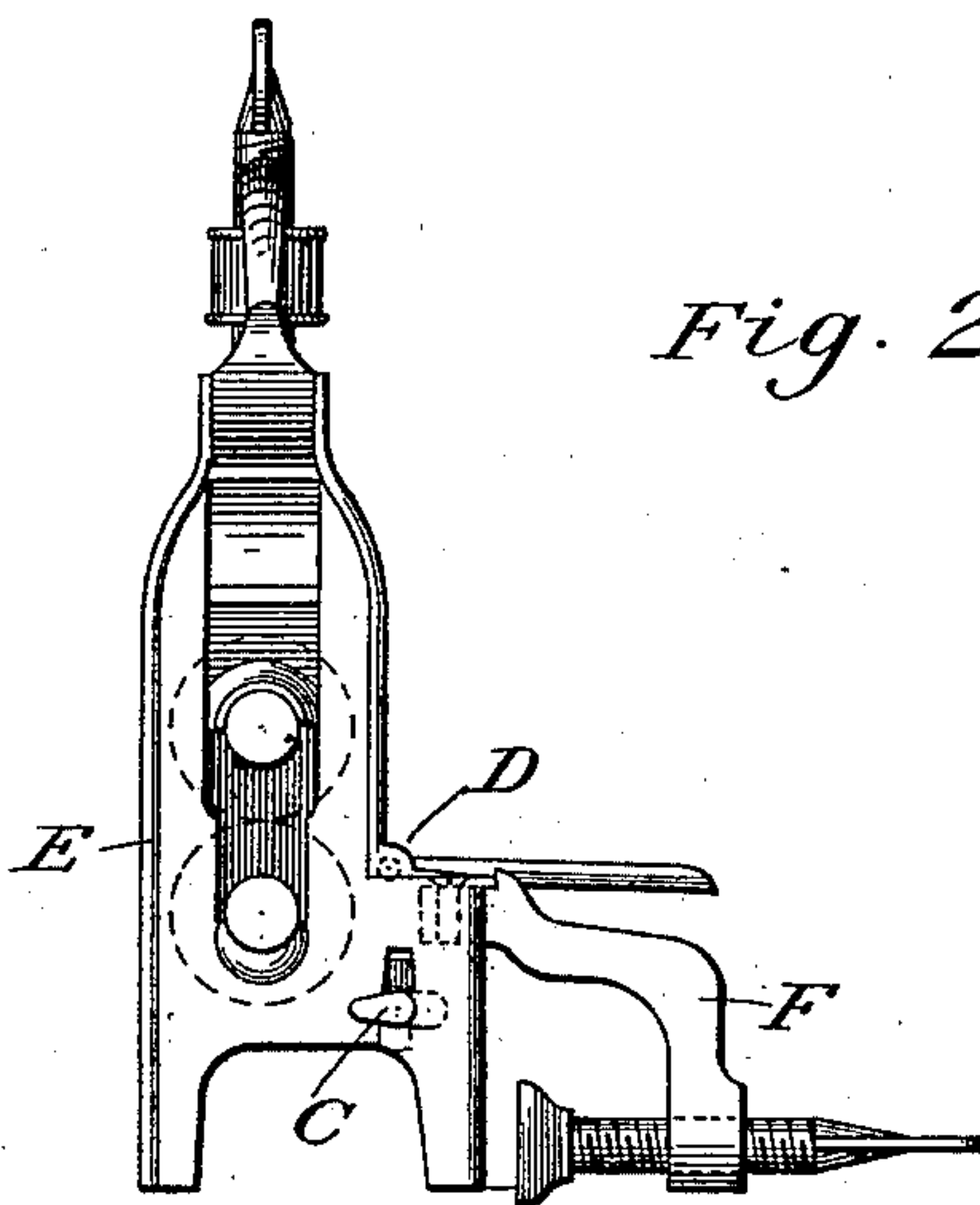
*Fig. 1.*



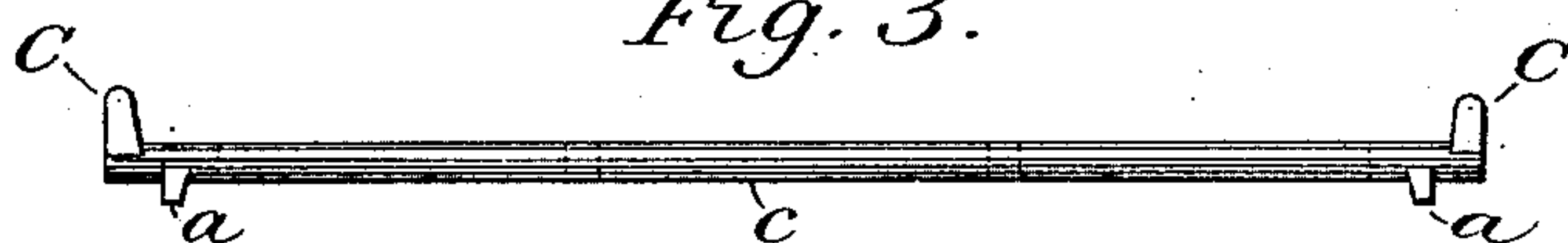
*Fig. 4.*



*Fig. 2.*



*Fig. 3.*



Witnesses:  
*Thos. Lomas*  
*James Bradley*

Inventor.  
*James Todd*

# UNITED STATES PATENT OFFICE.

JAMES TODD, OF PITTSBURG, ASSIGNOR OF ONE-HALF TO JOHN CLEMENS,  
OF ERIE, PENNSYLVANIA.

## CLOTHES-WRINGER.

SPECIFICATION forming part of Letters Patent No. 272,990, dated February 27, 1883.

Application filed November 10, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, JAMES TODD, a citizen of the United States, residing in the city of Pittsburg, county of Allegheny, and State of Pennsylvania, have invented a new and useful Clothes-Wringer, of which the following is a specification.

My invention relates to improvements in clothes-wringers in which horizontally-reciprocating rubber-covered rollers are operated by means of a crank.

The object of my improvements is to provide a compact, serviceable, and durable wringer, so arranged in its several parts that they may be shipped by themselves and easily put together by any unskilled person, thereby greatly facilitating its domestic transportation and its exportation to foreign countries and its use there.

My device is illustrated by the accompanying drawings, in which Figure 1 is a front view; Fig. 2, an end view, and Figs. 3 and 4 views of parts.

My device is also illustrated by the model filed with this application.

My device should be made of suitable metal.

In the accompanying drawings similar letters refer to similar parts throughout my device.

H is the spring-cap, which is held in place by means of the indentures *d d* in the spring *e*.

B is the arched top cross-bar for binding together the end pieces of the wringer-frame. It is provided with upturned hooks at its outer extremities, which are adapted to engage staples on the upper extremities of the end frames.

C is the bottom binding cross-bar. It is provided with journals, on the outer ends of which are hook-shaped projections, which are adapted to engage cams on the outer surfaces of the end frames. It has also shoulders *a a* on its outer surfaces, adjoining the inner ends of the journals and directly opposite to the hook-like projections on the ends of the journals, and which are adapted to engage or bind the inner surfaces of the end frames.

E E are the wringer end frames. Each of them is provided with staples at its upper ex-

trimity to engage the hooks of the top cross-bar, B, and with a slot and cam near its lower extremity adapted to engage the cross-bar C.

F is the clamp for attaching the wringer to a tub or other suitable article.

D is the shield or guide for the clothes. It is provided with journals and its ends are cut away on their outer and under surfaces adjoining the journals. The end frames, E E, are correspondently cut away on their inner surfaces, and provided with shoulders, which serve as the bearing-surfaces to the shield. By these means the shield is held loosely pivoted between the end frames of the wringer, so that it may be turned up against the rolls or outward in a horizontal position, as may be desired.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a clothes-wringer, the arched brace-bar B B, provided with upturned hooks at its opposite extremities, in combination with the end frames, E E, provided with staples at their upper extremities, whereby the parts are held in detachable connection, substantially as set forth.

2. In a clothes-wringer, the binding-brace or cross-bar C, provided with journals having hook-like projections on their outer ends, and provided with shoulders on its outer surfaces, adjoining the journals and opposite the hooks of the journals, in combination with the end frames, E E, provided with slots and cam-surfaces near their lower extremities, whereby the parts are held in detachable connection, substantially as set forth.

3. In a clothes-wringer, the arched brace-bar B B, provided with upturned hooks at its opposite extremities, in combination with the binding-brace or cross-bar C, provided with journals and projecting shoulders on its outer surfaces, adjoining the journals, and hook-like projections on the outer ends of the journals, opposite the shoulders, and the end frames, E E, provided with staples at their upper extremities, and with slots and cam-surfaces near their lower extremities, whereby all the parts of the wringer-frame are held in detachable connection, substantially as set forth.



4. In a clothes wringer, the guide or shield  
D, provided with journals and portions cut  
away adjoining the journals on the outer and  
under surface of its ends, in combination  
5 with the end frames, E E, provided with  
notches and shoulders on their inner lower sur-  
faces, whereby the shield is pivoted in the  
wringer-frame, so as to turn up against the  
rollers or outward into a horizontal position  
to guide the clothes, substantially as set forth. 10

JAMES TODD.

Witnesses:

C. C. CONVERSE,  
H. T. MORRIS,  
JAMES BRADLEY.