(No Model.)

S. H. SCHMUCK.

MOP WRINGER.

No. 434,033. Patented Aug. 12, 1890.

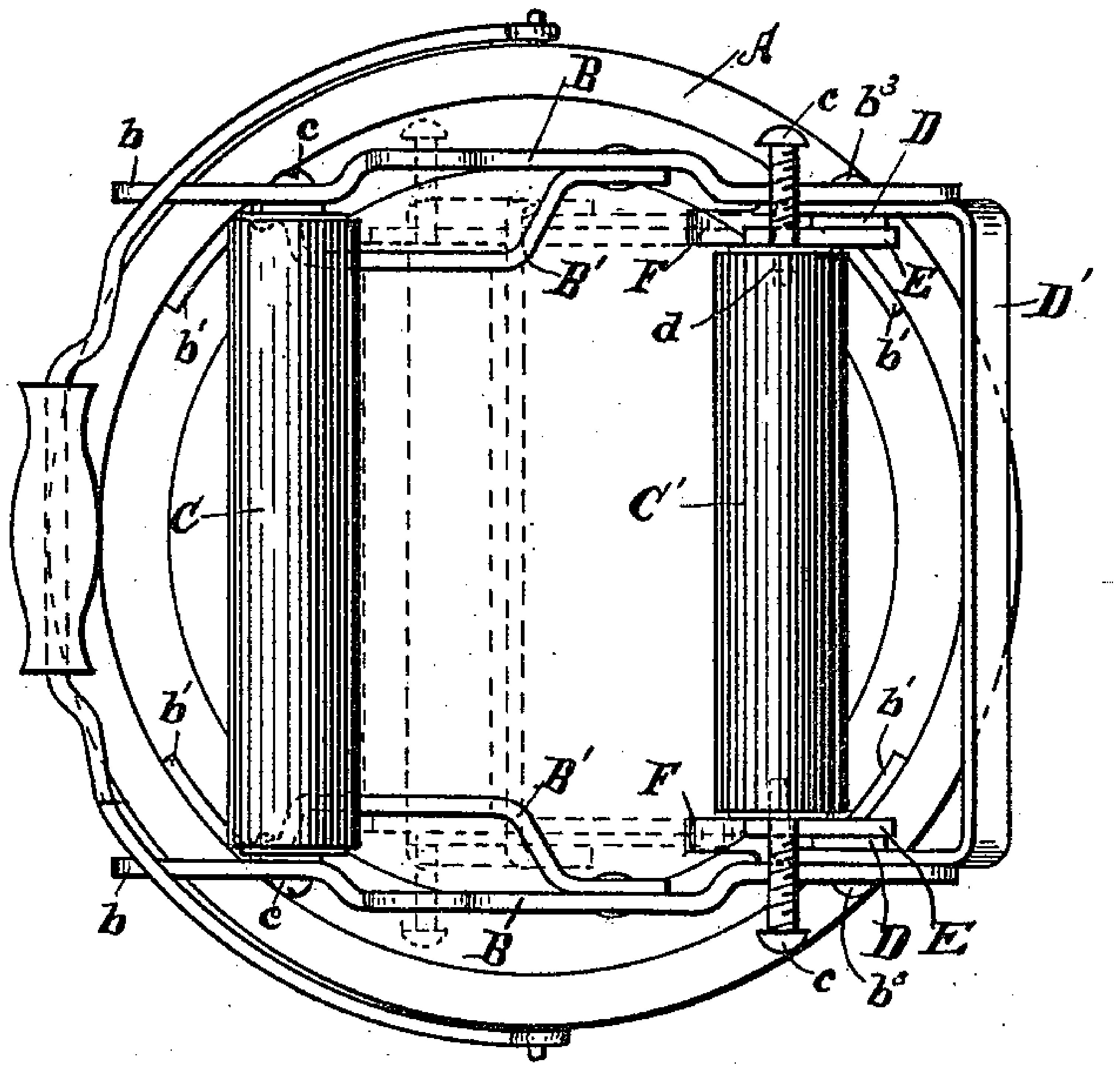


Fig. 1.

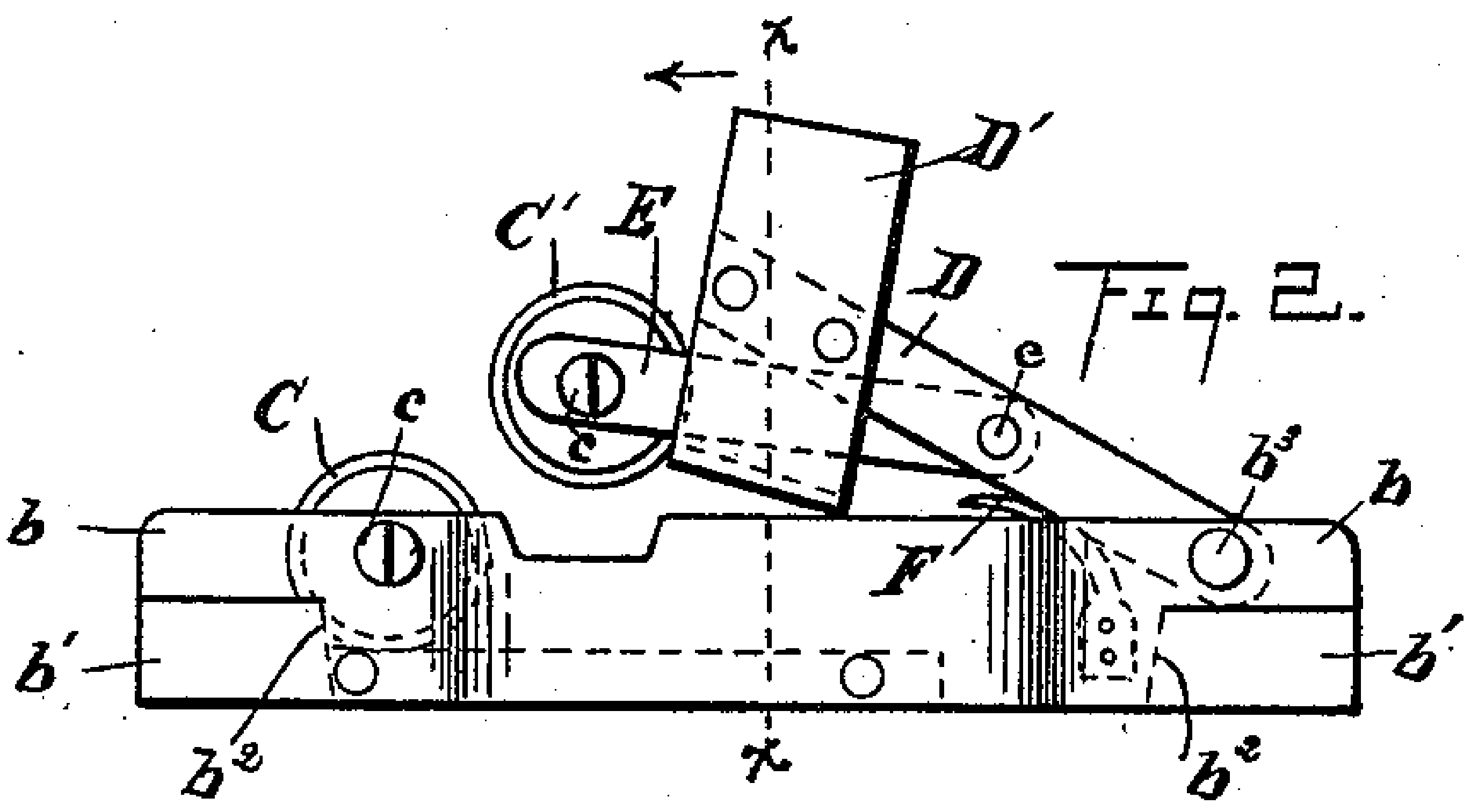
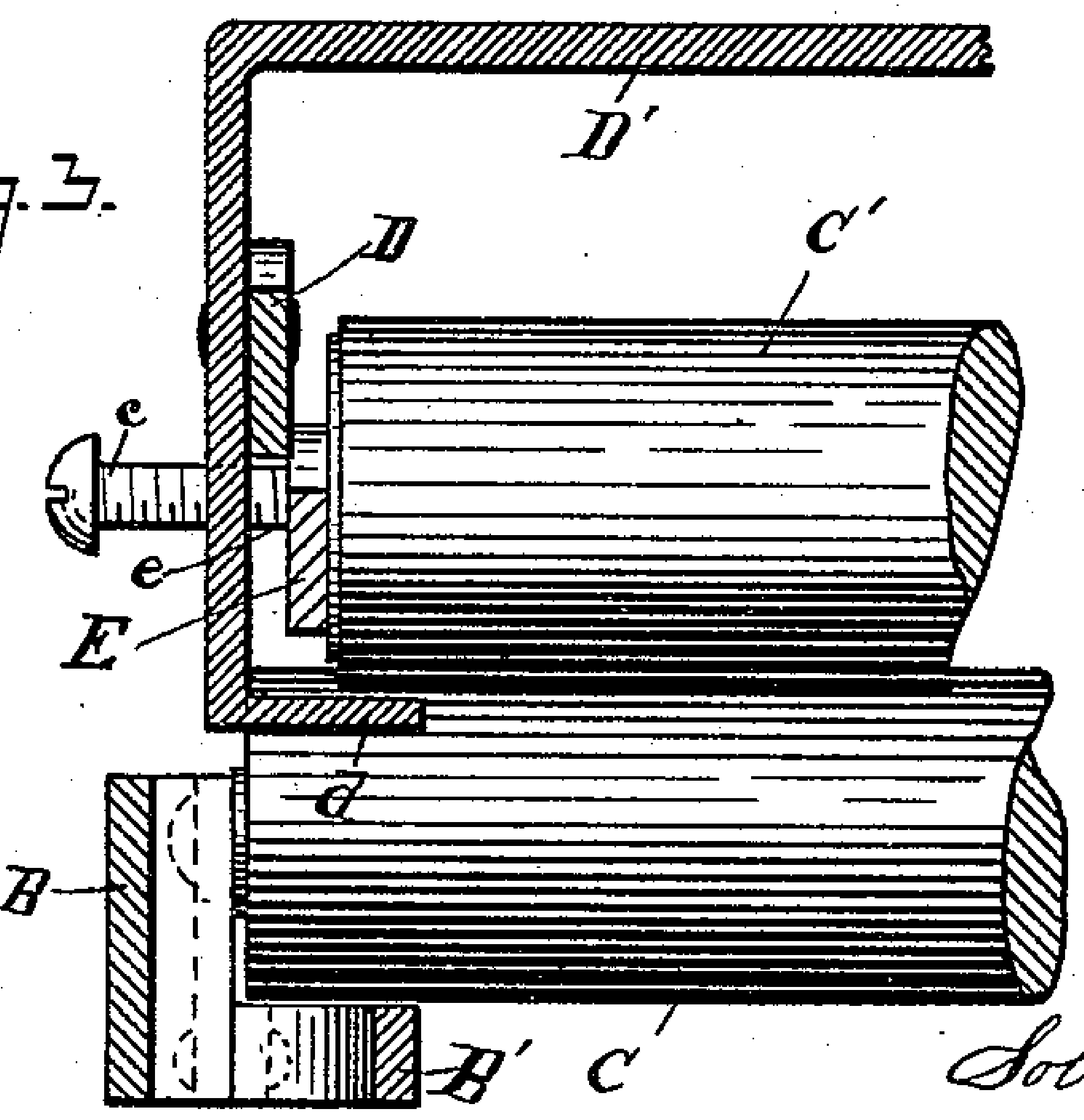


Fig. 2.

Fig. 3.



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SOLOMON H. SCHMUCK, OF CLEVELAND, OHIO.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 434,033, dated August 12, 1890.

Application filed March 5, 1890. Serial No. 342,732. (No model.)

To all whom it may concern:

Be it known that I, SOLOMON H. SCHMUCK, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Mop-Wringers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in mop-wringers; and it consists in certain features of construction and in combination of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan showing, respectively, in solid and in dotted lines different working positions of the movable roller and attachments. Fig. 2 is a side elevation. Fig. 3 is an elevation in section.

A represents a pail, and B B side bars, adapted to rest on the pail, these side bars comprising thin bars of metal set edgewise, as shown. The ends of these side bars are slitted for a short distance, dividing them into upper and lower sections *b* and *b'*. Member *b* is adapted to rest on the edges of the pail, while member *b'* may be bent inward and made to engage the inner side of pails of different sizes. Member *b'* may be cut off, for instance, at b^2, as shown in dotted lines, Fig. 2, leaving square shoulders adapted to engage the inside of pails of standard size.

C and C' are rollers, usually of wood, the trunnions of the former being journaled in lateral holes of the side bars.

D D are thin metal bars connected by means of yoke D', these three members constituting a tilting or swinging frame pivoted at b^3 to the side bar B. Connected with the side bars are guides B', projecting inward or toward each other a short distance, to engage the mop and hold the latter on the face of the rollers. Yoke D' extends some little distance below members D, so that the yoke at the lower extremes thereof is bent inward, as shown at *d*, these feet *d* being adapted to rest on guards B', and thus limit the downward movement of the tilting frame. The top section of the yoke serves as a handle and as a treadle on which to place the foot, knee, or arm, as the case may be, for depressing the tilting frame in closing the rollers.

E E are roller-arms, consisting of flat bars of metal, bearing at the one end thereof the movable roller C'. The other ends of these roller-arms E E are pivoted at *e* to members D D, these members E and D constituting, essentially, a toggle. In turning the swinging frame back from roller C the roller-arms E E rest on feet *d* of the yoke, and in such position of parts the swinging frame may be thrown back, so as to carry roller C' off from over the pail. The trunnions of rollers C C' have usually screws *c* screwed into the roller the shanks of these screws extending through the holes in the supporting-bars with the heads outside of these bars, and screw-threaded shanks of rollers C' should extend outward far enough to engage the edges of the side bars B when the rollers C', by means of the depression of the tilting frame, shall have been brought approximately in a horizontal plane with roller C. With the tilting frame thrown back free access is had for inserting the mop in the pail.

When it is desired to wring the mop, by turning the tilting frame forward roller C' is made to engage the mop and press the latter against roller C, and in such position of parts by bearing down on the yoke the toggles are brought into action, whereby a sufficient pressure of the rollers is had by applying only a moderate pressure to the yoke.

Springs F may be provided for reversing the tilting frame, and if the pressure is quickly removed from the yoke the recoil of these springs would usually throw the tilting frame back out of the way.

The device is simple, effective, and can be made at a small initial cost, and is of little weight and occupies but little space when removed from the pail.

What I claim is—

1. In a mop-wringer, the combination, with side bars bearing a roller, of a tilting frame pivoted to the side bars, a yoke secured to said pivoted frame, and arms pivoted to the sides of the tilting frame and carrying a roller, substantially as set forth.

2. In a mop-wringer, in combination, tilting frame and roller and side bars, substan-

tially as indicated, the side bars having inwardly-projecting guards, the tilting frame having a yoke with depending ends adapted to engage the guard to limit the downward movement of the tilting frame, substantially as set forth.

3. In a mop-wringer, in combination, side bars, tilting frame, and rollers, substantially as indicated, such side bars having split ends, the upper sections whereof are adapted to rest on the pail, the lower section thereof being adapted to be bent to fit different-sized pails, substantially as set forth.

4. In a mop-wringer, in combination, side bars and tilting frame pivotally attached to the side bars, a stationary roller mounted on the side bars, the tilting frame being provided with roller-arms bearing a movable roller, such roller-arms and tilting frame constituting a toggle, substantially as set forth.

5. In a mop-wringer, in combination, side bars bearing a roller, a tilting frame pivoted to the side bars, and arms pivoted to the tilting frame, such arms bearing a roller, the tilting frame having a yoke with depending ends provided with feet adapted to engage and thereby limit the depression of the roller-arms relative to the swinging frame, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 25th day of February, 1890.

SOLOMON H. SCHMUCK.

Witnesses:
C. H. DORER,
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