

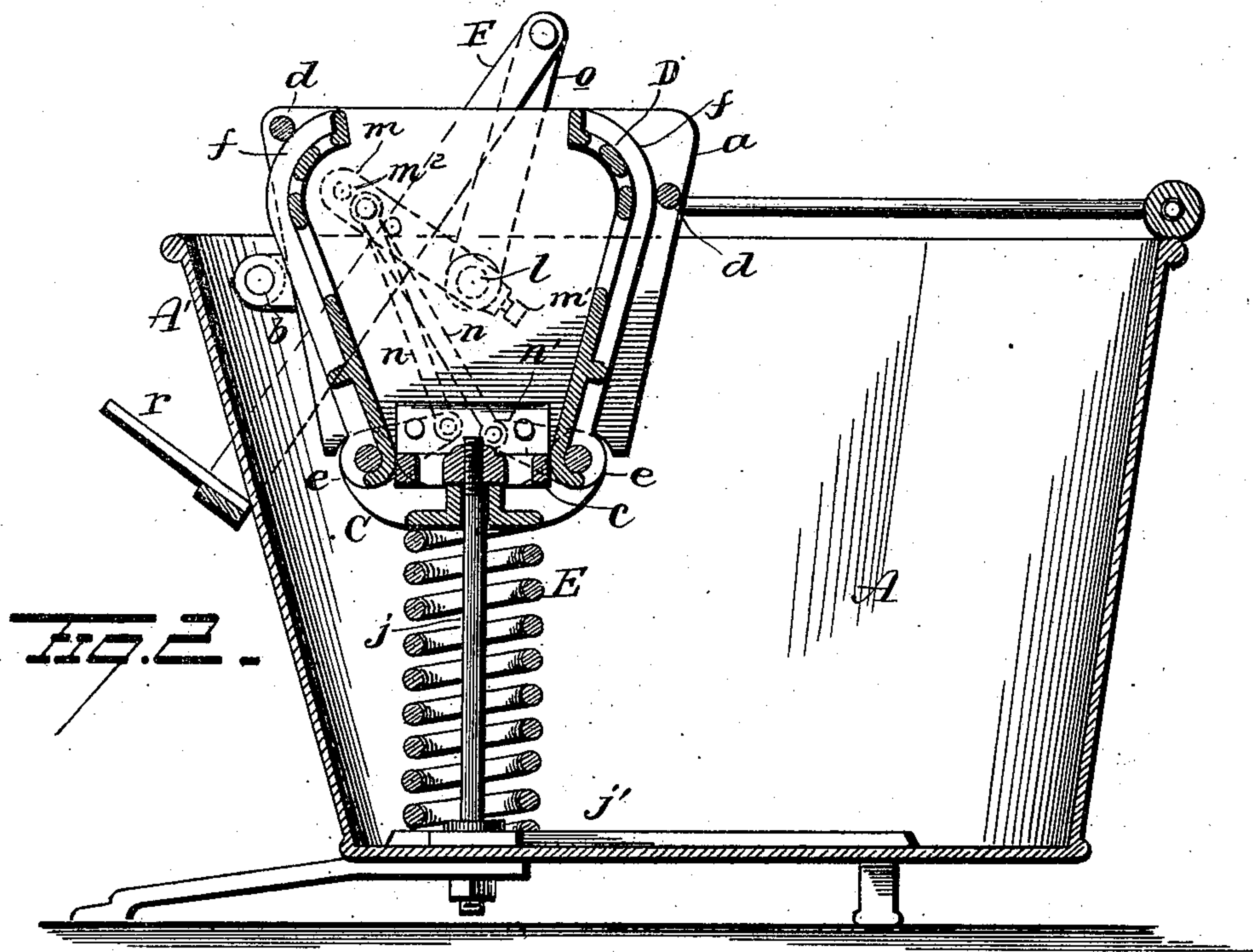
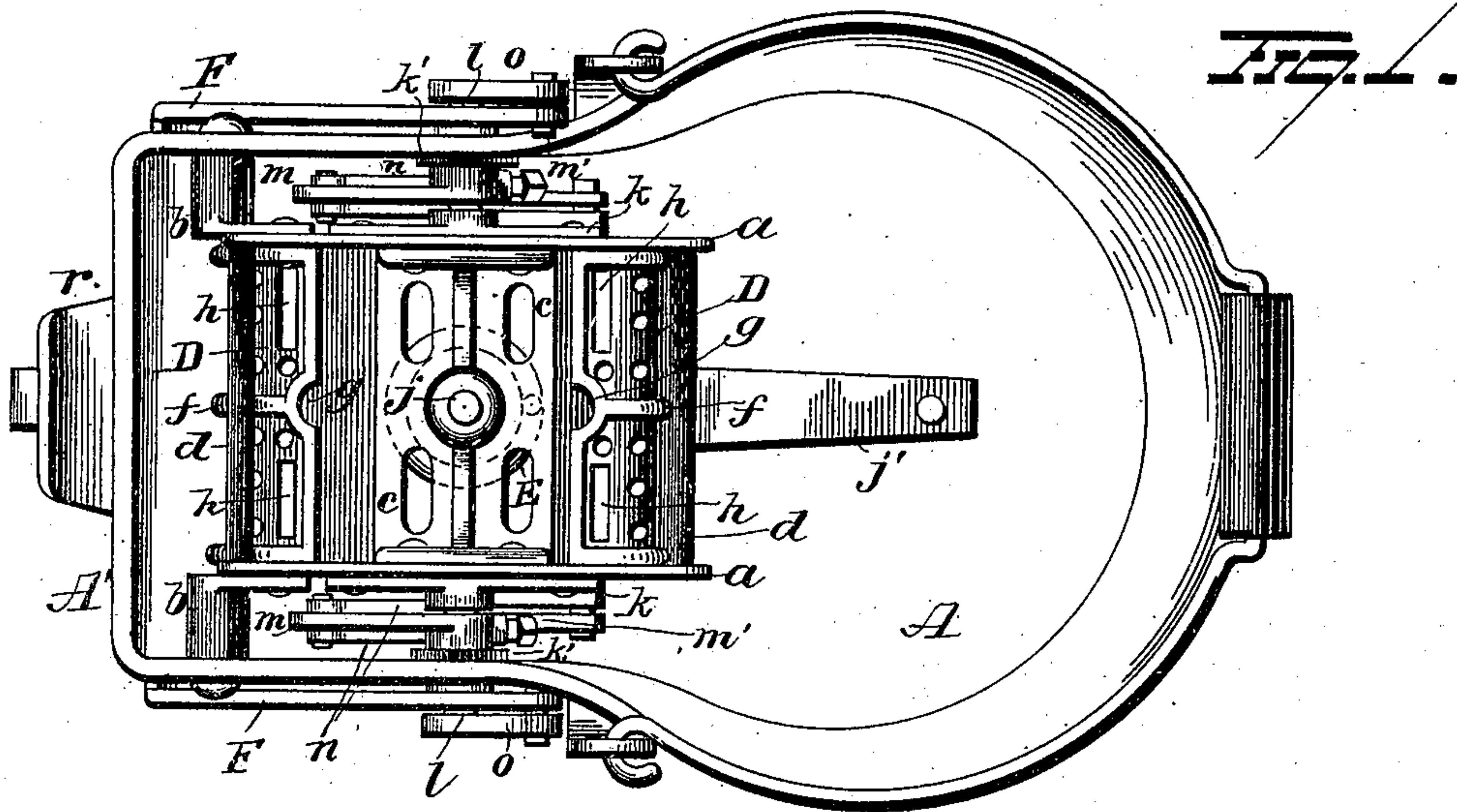
(No Model.)

3 Sheets—Sheet 1.

A. M. BURNHAM.  
MOP WRINGER.

No. 504,077.

Patented Aug. 29, 1893.



Witnesses  
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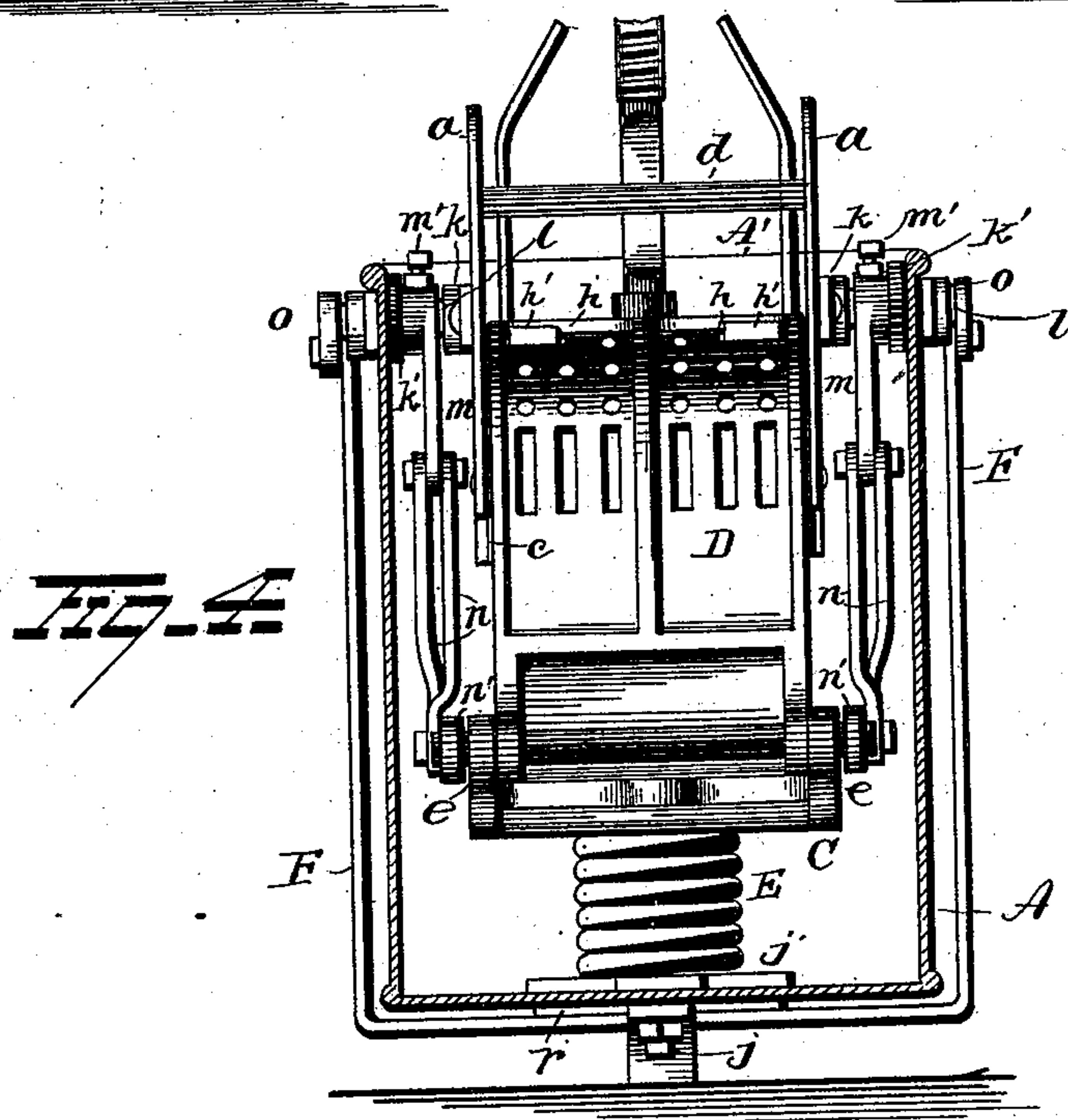
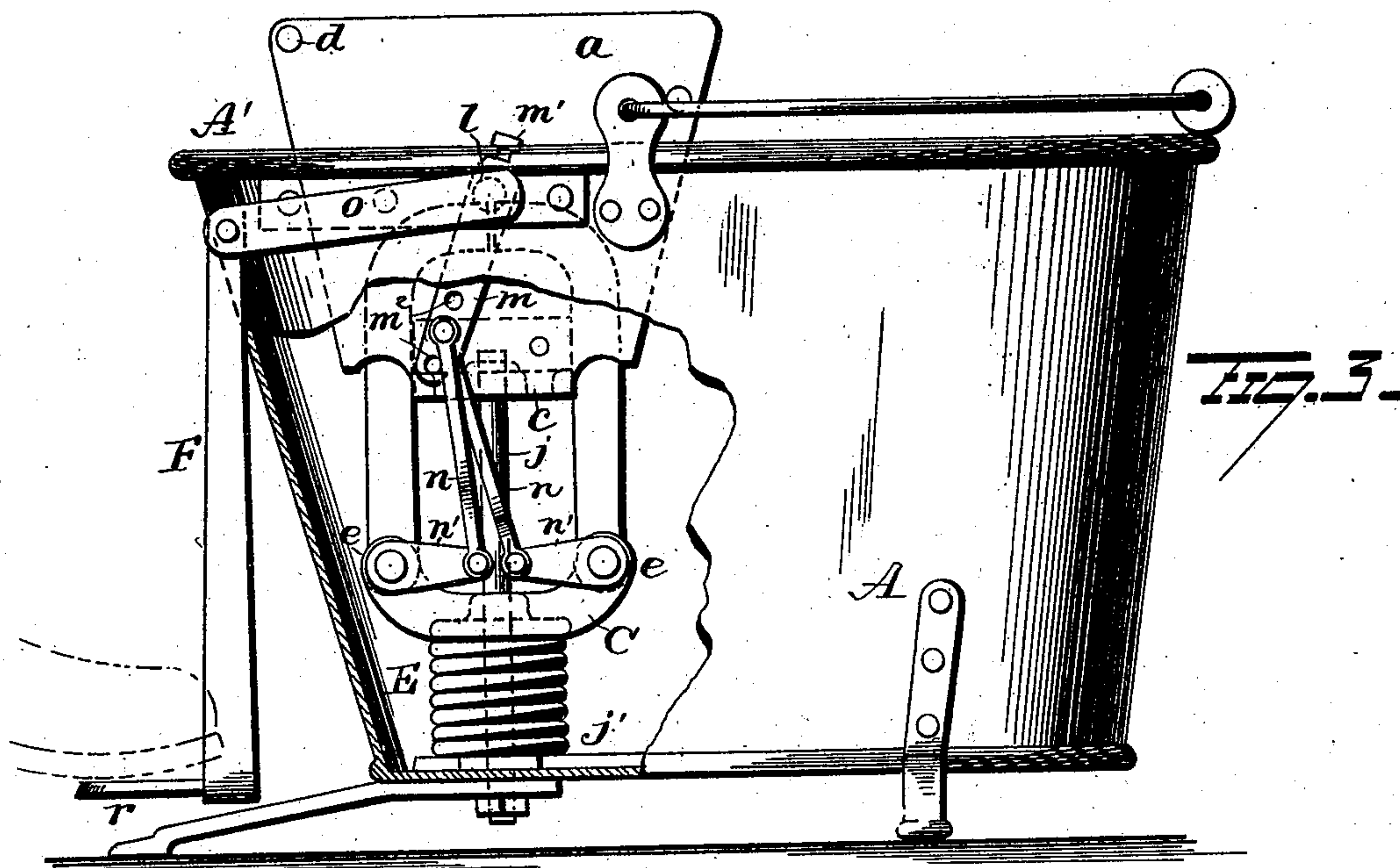
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3 Sheets—Sheet 2.

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MOP WRINGER.

No. 504,077.

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(No Model.)

3 Sheets—Sheet 3.

A. M. BURNHAM.  
MOP WRINGER.

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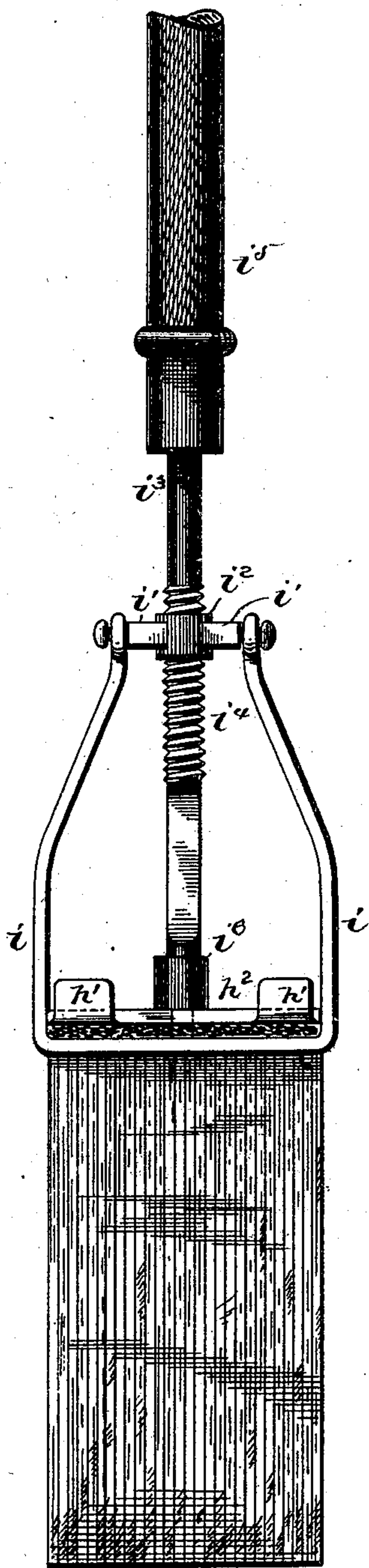


Fig. 5.

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# UNITED STATES PATENT OFFICE.

ARTHUR M. BURNHAM, OF GARDINER, MAINE, ASSIGNOR TO LEONARD MOODY, OF BROOKLYN, NEW YORK, AND FRED HILDRETH, OF WEST GARDINER, MAINE.

## MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 504,077, dated August 29, 1893.

Application filed October 10, 1892. Serial No. 448,396. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR M. BURNHAM, a citizen of Gardiner, in the county of Kennebec and State of Maine, 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 appertains to make and use the same.

My invention relates to an improvement in mop wringers,—the object being to produce a mop wringer which shall be simple in construction, easy to operate and effectual in the performance of its functions.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings: Figure 1 is a plan view of my improvements. Fig. 2 is a sectional view. Fig. 3 is a side view. Fig. 4 is a vertical sectional view. Fig. 5 is a view of the mop and holder.

A represents a bucket having a contracted mouth A', in which my improved wringer is located.

Located in proximity to the sides of the bucket, within the mouth A', are two plates *a, a* placed parallel with each other and supported by means of brackets *b*. These plates, together with a slotted or perforated bottom plate *c* constitute a frame in which squeezing jaws *D* are adapted to operate as presently explained. The plates *a, a* are connected together at or near their upper edges by rods or bars *d*, said bars serving to rigidly connect the plates *a* and also to prevent the escape of the clamping or squeezing jaws.

A frame or yoke *C* is located beneath the bottom plate *c* and is provided with ears or arms *e*, to which the lower ends of squeezing jaws *D* are pivotally connected, said jaws extending upwardly within the frame formed by the plates *a*. The jaws *D* are preferably curved inwardly toward each other at their upper ends and are slotted or perforated for the escape of water from the mop which is inserted between them. They are also preferably provided with strengthening ribs *f*. The upper end of each jaw *D* is made with a

recess *g* for the accommodation of the mop holder, and at each side of the recess *g* in each jaw, slots *h* are made for the reception of lugs or hooks *h'*, projecting from a plate or cross bar *h<sup>2</sup>* of the mop holder.

In making the mop holder a yoke *i* is employed, having its ends connected with ears *i'* projecting from an internally screwthreaded nut *i<sup>2</sup>*. Through this nut a shank *i<sup>3</sup>* having a screwthreaded portion *i<sup>4</sup>* passes. A handle *i<sup>5</sup>* is secured to the upper end of the shank while its lower end passes through a perforated boss *i<sup>6</sup>* projecting from the plate or cross bar *h<sup>2</sup>*, the forward end of said shank being preferably pointed or contracted to enter the mop which is placed between said plate or cross bar and the yoke *i*. When the mop is placed between the jaws *D*, the latter will be closed and the lugs or hooks *h'* will be made to engage the slots *h* in the upper ends of the jaws and maintain the jaws closed with the mop between them. Should the jaws now be forced downwardly the water contained in the mop will be squeezed out by being forced down against the bottom plate *c* by the curved tops of the jaws *D*. The bottom plate *c* will be secured at its ends to the plates *a, a* and at a point between its ends has a post or standard *j* secured to it, the lower end of said post or standard being secured to a bracket *j'* in the bottom of the bucket. A spring *E* encircles the post or standard *j*, bearing at one end against the yoke or frame *C* and at its other end on the bracket *j'*. By the employment of this spring the jaws will be returned to their normal position when pressure is removed therefrom.

Brackets *k* are secured to the sides of the plates *a, a*, and other brackets *k'* are secured to the sides of the bucket *A* in alignment with the brackets *k*. Mounted in these brackets and passing through the sides of the bucket are short shafts *l*, one at each side of the bucket. To each shaft *l* between the plates *a* and the sides of the bucket, a bar *m* is adjustably secured by means of a set screw *m'*, the free ends of said bars being provided with a series of perforations *m<sup>2</sup>*, whereby links or rods *n* can be adjustably connected thereto. Two links or rods *n* project downwardly within the bucket from each bar *m* and at their lower ends are pivotally connected to arms *n'* projecting from



the lower ends of the jaws D, or from the journals of said jaws. From the outer ends of the shafts *l* arms *o* project upwardly and slightly forwardly and at their upper ends have the ends of a yoke F pivotally connected to them, said yoke extending around and below the mouth A' of the bucket and midway between its ends is provided with a foot-piece *r* and thus constitutes a treadle.

10 In operating the device the mop will be placed between the jaws D and the foot piece pressed,—whereupon the jaws will be closed through the medium of the rods *n* and arms *n'* and the lugs or hooks *h'* made to engage  
15 the slots *h*. The operator will continue to press upon the foot piece *r*, whereupon the jaws D with the mop between them, will be forced downwardly, the mop being compressed between the curved upper ends of the jaws and  
20 the bottom plate *c* and the water in the mop permitted to escape through the perforated jaws D and bottom plate *c*. The closing of the jaws after the mop shall have been placed between them will, as above explained, be  
25 automatic.

The device is very simple and efficient in the performance of its functions.

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

1. In a mop wringer, the combination with a frame, of two jaws adapted to receive a mop between them, and means for operating said jaws to compress the mop between their free  
35 ends and the bottom of the frame, substantially as set forth.

2. In a mop wringer, the combination with a frame having a bottom provided with openings, of pivotally supported jaws having openings therein and adapted to receive a mop  
40 between them, of means for compressing a mop between said jaws and the bottom of the frame, substantially as set forth.

3. In a mop wringer, the combination with a frame, of a yoke arranged beneath the bottom of said frame, jaws pivotally connected to said yoke and adapted to receive and in-  
45 close a mop, and means for compressing the mop between said jaws and the bottom of the frame, substantially as set forth.

4. In a mop wringer, the combination with a frame, of a yoke arranged beneath the bottom thereof, jaws pivotally connected to said yoke, said jaws having curved upper ends,  
55 and means for forcing said yoke and jaws downwardly to compress the mop between their upper ends and the bottom of the frame, substantially as set forth.

5. In a mop wringer, the combination with a frame, of a yoke located beneath the bottom thereof, jaws pivotally connected to said yoke and adapted to receive a mop between them, means for forcing said yoke and jaws  
60 downwardly to compress the mop between them and the bottom of the frame, and a

spring beneath said yoke for returning it and the jaws to their normal positions, substantially as set forth.

6. In a mop wringer, the combination with a frame, of two pivoted jaws having slots in their upper ends, and a mop holder having  
70 lugs or hooks adapted to enter said slots and retain the jaws closed with the mop between them, substantially as set forth.

7. In a mop wringer, the combination with a frame comprising two parallel plates and a bottom plate secured at its ends to the parallel plates, of a yoke located beneath the bot-  
75 tom plate, jaws pivotally connected to said yoke and adapted to receive a mop between them and means for operating said jaws to compress a mop between them and the bottom plate, substantially as set forth.

8. In a mop wringer, the combination with a frame comprising two side plates and a  
85 bottom plate secured at its ends to the side plates, brackets for securing the side plates to the bucket in which the device is located, and a post or standard extending from the bottom plate to the bottom of the bucket, of  
90 a yoke located beneath the bottom plate a spring for normally maintaining the yoke in its elevated position, jaws pivotally connected to the yoke and means for depressing the yoke whereby the mop will be compressed  
95 between the jaws and the bottom plate, substantially as set forth.

9. In a mop wringer, the combination with a frame, of a vertically movable yoke, jaws pivotally connected to said yoke and adapted  
100 to receive a mop between them, arms projecting from said jaws, a shaft at each side of said frame, bars attached to said shafts, links or rods connecting said bars with the arms of the jaws, arms projecting from the  
105 ends of said shafts, and a foot treadle attached to said arms, substantially as set forth.

10. In a mop wringer, the combination with a frame, of a vertically movable yoke, jaws pivotally connected to said yoke and adapted  
110 to receive a mop between them, arms projecting from said jaws, a shaft at each side of said frame, bars adjustably attached to said shafts, links or rods adjustably connected to said bars and pivotally connected to the  
115 arms of the jaws, arms projecting from the ends of the shafts, and a foot treadle attached to said arms, substantially as set forth.

11. In a mop wringer, the combination with a frame, of hinged jaws, means for closing  
120 said jaws, and means for operating said jaws to compress a mop between them and the bottom of the frame, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscrib-  
125 ing witnesses.

ARTHUR M. BURNHAM.

Witnesses:

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