

(No Model.)

A. M. BURNHAM.
MOP WRINGER.

No. 541,591

Patented June 25, 1895.

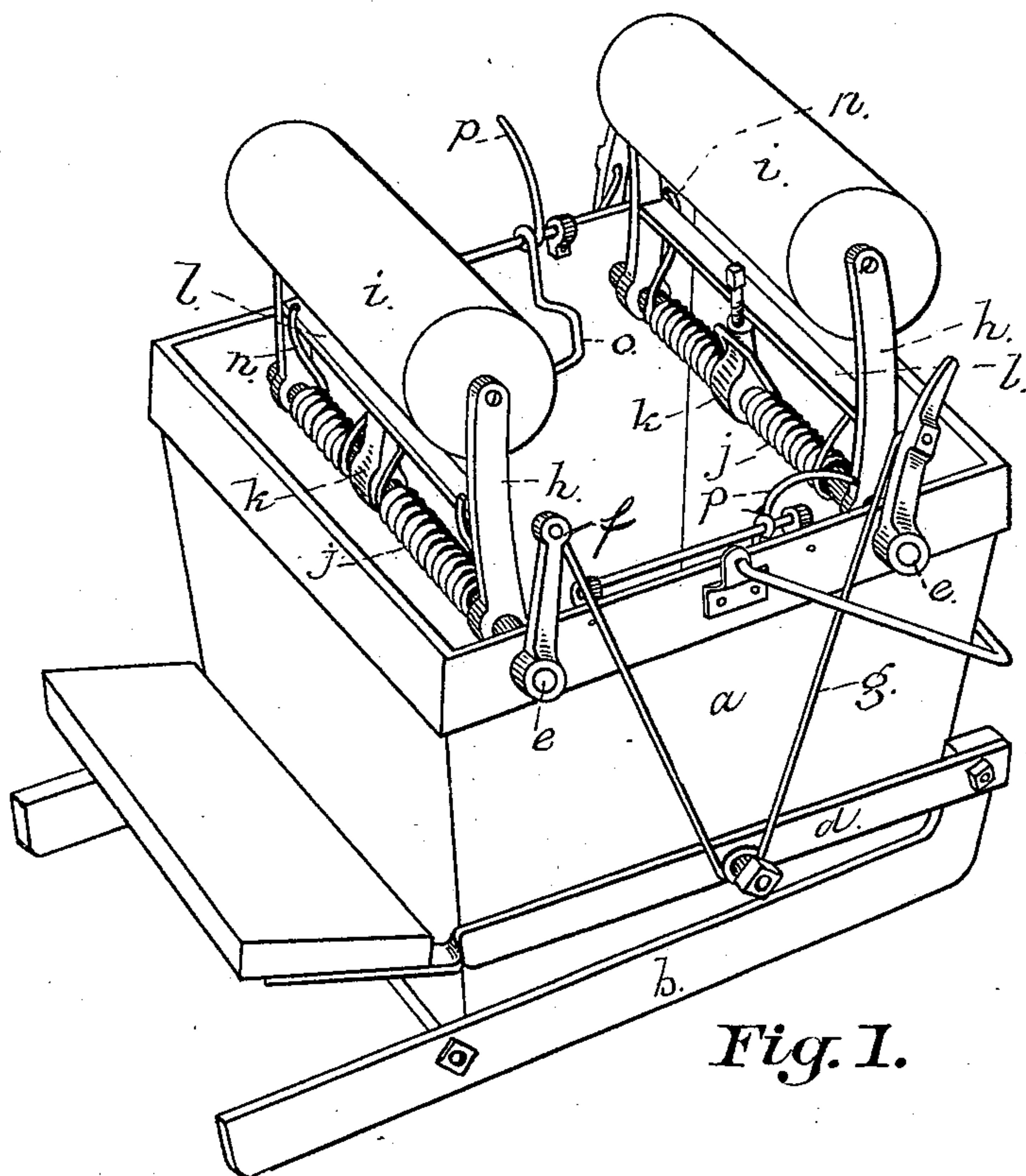


Fig. 1.

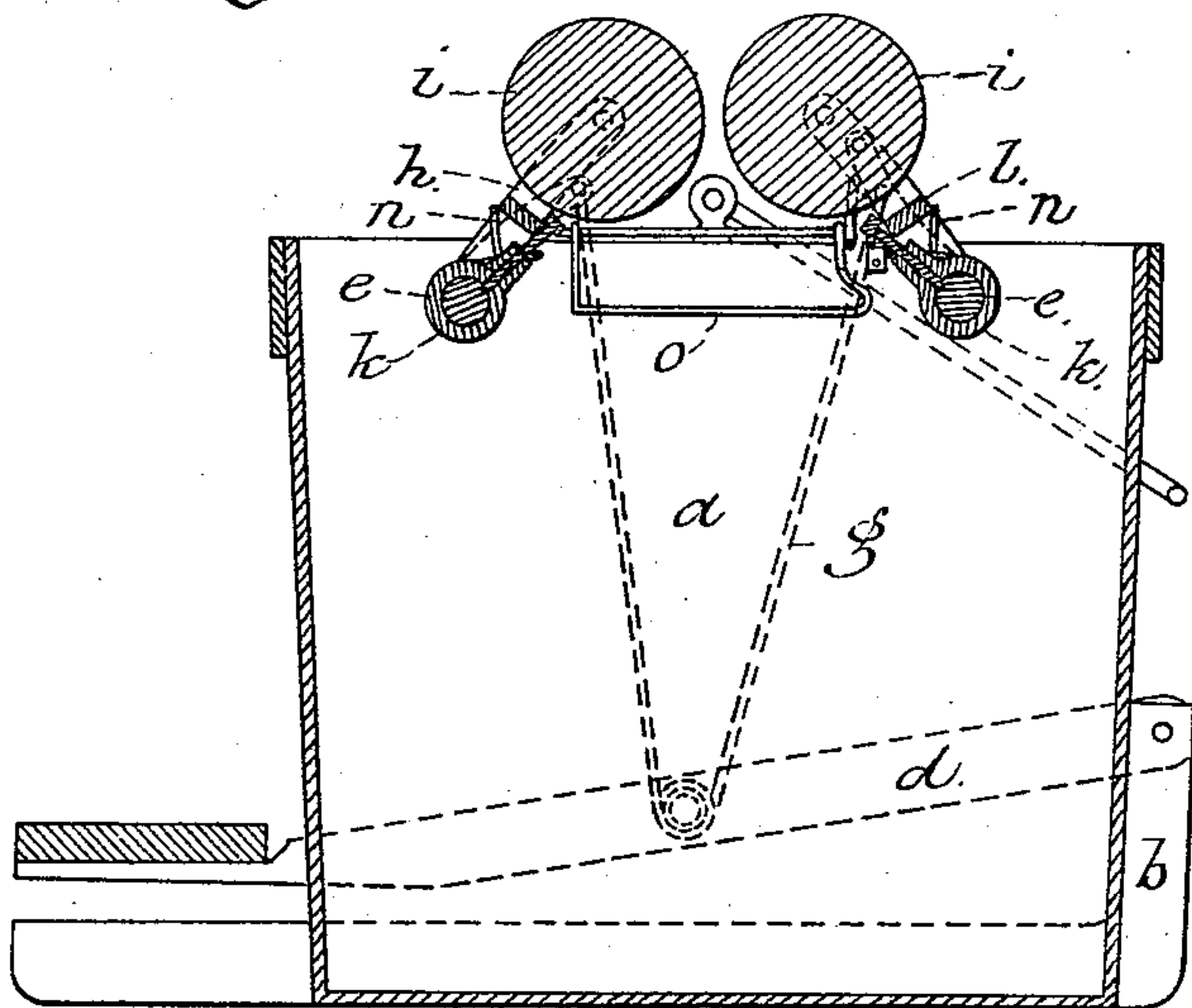


Fig. 2.

Witnesses:

Jimmie E. Pollard.
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UNITED STATES PATENT OFFICE.

ARTHUR M. BURNHAM, OF GARDINER, ASSIGNOR TO THE PORTLAND WRINGER COMPANY, OF PORTLAND, MAINE.

MOP-WRINGER.

SPECIFICATION forming part of Letters Patent No. 541,591, dated June 25, 1895.

Application filed March 18, 1895. Serial No. 542,080. (No model.)

To all whom it may concern: -

Be it known that I, ARTHUR M. BURNHAM, a citizen of the United States of America, residing at 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 improvements in a combined pail and mop wringer, and more particularly to improvements in and upon the mop wringer described in Letters Patent No. 447,732, issued to Walter S. Jarboe March 3, 1891. In said Jarboe patent the wringer rolls are turned by a lever by means of a V shaped spring connecting said lever with the standards upon which said wringer rolls are mounted. In actual use it is found that when the rolls are brought together by pressing down the lever, the rolls assume a practically unyielding condition and are incapable of adjusting themselves to the different thicknesses of the mop or to bunches which may be in the mop.

The present invention consists in certain improvements which render the wringer rolls capable of a yielding adjustment independently of the lever and V-shaped springs which operate said rolls.

It further consists in certain details of construction which will be hereinafter fully described and specifically claimed.

In the drawings herewith accompanying and forming a part of this application, Figure 1 is an isometrical view of a pail and mop-wringer embodying my invention, and Fig. 2 is a vertical longitudinal section of the same.

In said drawings *a* represents the pail; *b*, a frame work rigidly attached to the same at or near the bottom. Pivotally attached to said frame or to the pail is a foot lever *d*. Journalled in the top of the pail in any convenient manner are rods *e* having the arms *f* rigidly attached to the ends thereof outside of the pail and extending upwardly at right angles to said rods. Connecting these ends *f* and said foot lever are V-shaped springs *g* which tend to turn said rods away from each other.

Journalled on each of said rods is a supporting frame *h* free to turn thereon except as otherwise limited. Mounted in the frames are the wringer rolls *i*. The frames *h* are held in a normally fixed position relative to rods *e* by means of coil springs *j* mounted on said rods *e* and lugs *k* rigidly set on said rod. Connecting the ends of said frames is a cross bar *l*. The frames and rolls are rigidly held against rotation toward each other on said rods by means of lugs *k* and are yieldingly held against rotation on said rods away from each other by coil springs *j*. Springs *j* at the center lie inside of said lugs and have their extremities *n* bent upwardly and in contact with the frames which support said wringer rolls. The coil springs are made strong to hold the rolls against backward movement but are capable of yielding under unusual pressure to permit the rolls to pass over bunches in the mop, the frames which support the rolls turning on said rods and permitting the mop to be drawn through without removing the foot from the lever, as is necessary in the Jarboe wringer.

Pivotally mounted at the sides of the pail are swinging clamps *o* adapted to swing toward each other. Said clamps have lugs *p* extending out over the sides of the pail and into the path of the turned up ends of the rods *e* so that when the lever is pressed down and the rolls brought together, said ends engage said lugs and swing said clamps toward each other, and then hold the mop between the rolls.

I claim—

1. In combination, a pail, rods journalled in said pail and provided with cranks turned upwardly outside of said pail, means for rotating said rods, frames pivotally mounted on said rods, wringer rolls mounted on said frames, said frames being capable of backing movement on said rods, and springs tending to hold said frames against backward movement, substantially as and for the purposes set forth.

2. In combination, a pail, rods journalled in said pail and provided with cranks turned upwardly outside the pail, a foot lever attached to the side of the pail, V-shaped springs connecting said lever and said upturned ends, frames mounted on said rods and capable of

backward movement independently of said
rods, springs tending to hold said frames
against backward movement, lugs rigidly set
on said rods and adapted to limit the forward
5 movement of said frames on said rods, and
wringer rolls mounted on said frames, sub-
stantially as and for the purposes set forth.

3. In combination, a pail, rods journaled in
said pail and provided with cranks turned up-
10 wardly outside of said pail, means for rotating
said rods, wringer rolls mounted on said rods
inside said pail, side clamps pivotally attached

to the inside of the pail, and having lugs ex-
tending over the sides of the pail and into the
path of the turned up ends of said rods, sub- 15
stantially as and for the purposes set forth.

In testimony whereof I affix my signature,
in presence of two witnesses, this 19th day of
February, 1895.

ARTHUR M. BURNHAM.

Witnesses:

OLIVER B. CLASON,
CHAS. GIFFORD.