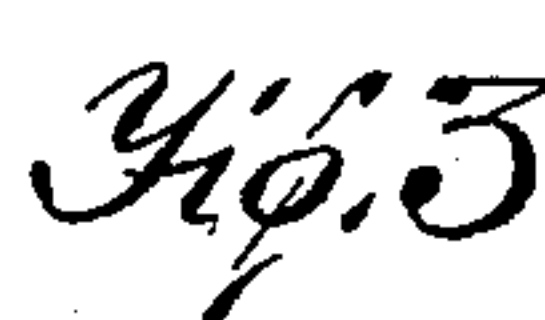


WRINGER.

APPLICATION FILED MAY 14, 1908.

**914,814.**

Patented Mar. 9, 1909.



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# UNITED STATES PATENT OFFICE.

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## WRINGER.

No. 914,814.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed May 14, 1908. Serial No. 432,758.

*To all whom it may concern:*

Be it known that I, HERMAN L. DIETZ, a citizen of the United States of America, and a resident of Chicago, county of Cook, and State of Illinois, have invented a new and useful Improvement in Wringers, of which the following is a specification.

My invention pertains to portable clothes-wringing devices, of the specific type designed for wringing mops.

I provide a frame with platform for holding a water bucket, and two movable press rollers adapted to be brought together over the water bucket, one of the rollers being provided with a crank for turning.

I provide a swinging frame of novel design for an idler roller, simple means easily operated for removing the idler roller from its frame, mop guides for the object being wrung to confine it to central portions of the press rollers, and a pedal-operated mechanism for bringing the driving roller into operative engagement with the idler roller or with the mop to be wrung.

In the drawings Figure 1 shows side elevation of the device of my invention; Fig. 2 shows section of a portion of same on the dotted line A—A of Fig. 3; Fig. 3 shows plan or top view of the device, and Fig. 4 shows detail of latch.

The frame comprises platform 1, uprights 2 2' 2'' 2<sup>3</sup> and top bars 3 3'. Upon cross piece 4 and its companion on the opposite side of the frame, is pivoted pedal lever 5 under tension of springs 6 6' extending to posts 2 2', by which the pedal 5' is held normally in its elevated position. Idler roller 7 is hung in a swinging frame composed of two yokes 8 8' bolted together, the yoke 8 being pivoted to the top parts of corner posts 2'' 2<sup>3</sup> and the roller 7 being pivotally sustained in the yoke 8'. Idler roller 7 is placed in notches in the ends of yoke 8' and is retained therein by spring latches 9 9' operating as follows: Latch 9 is pivotally held upon a rivet 10 in yoke 8 and a pin or tooth 11 is fixed in latch 9 and extends through or into an opening in yoke 8'. The latch 9 is of spring material and by pulling the free end away from the end of the idler roller 7, the elasticity of the part 9 permits the part 11 to be withdrawn from the part 8' when the part 9 may be swung upward upon the part 10 as a pivot, thus releasing one end of the roller 7. Latch 9' is of similar construction but roller 7 may

be removed after releasing but one of the latches.

Mop guides 12 12' are riveted to the swinging frame holding the roller 7, rivets 13 serving to unite the two parts of the frame and the two guides, each rivet passing through one guide and both parts of the frame. When the roller 7 is dropped into position for use as shown in Figs. 2 and 3, the ends of the roller shaft engage notches in the top bars of the frame and the roller turns therein as in journal boxes.

The driving roller 14 is laid upon the upper surface of the top bars 3 3' and is confined by straps 15 15'. The shaft of the roller 14 is journaled in pitman links 16 16', which are pivotally attached at their opposite ends to the pedal lever 5. By depressing the pedal 5', the pedal lever 5 swings upon its pivots 17 and, acting through the pitman links 16 16', draws the driving roller 14 toward and against the roller 7, if that roller is in its lowered position; the springs 6 6' withdraw the driving roller 14 when the foot is removed from the pedal, the shaft of the driving roller 14 then resting against the elastic cushions 18 18' within the shoulders of the straps 15 15'. These elastic cushions prevent noise when the roller 14 is returned to its position of rest.

It will be noted that the axis of the idler roller 7 lies below the line of direction of the movement of the axis of the driving roller 14, and that the driving roller 14, therefore, is above the idler roller 7 and tends to confine it within its journal boxes. When the rollers are pressed together by a pressure upon the pedal 5', either with or without an intervening object to be wrung, the shaft of the roller 7 will be pressed downward within its journal boxes, the shaft of the driving roller 14 will be drawn downward by the inclined pitman links 16 16', the angle of which is illustrated in Fig. 2.

The device is shown in Fig. 1 in condition for receiving the water bucket; in Fig. 3 in condition for receiving the mop or object to be wrung, and in Fig. 2 in position for wringing.

To illustrate my invention I have shown a specific construction, but do not wish to limit myself to that specific construction.

What I claim as my invention, and desire to secure by United States Letters Patent is set forth in the claims following.

1. In a wringer, a fixed frame having a



pair of notches; a pair of press rolls, one of  
said rolls movable in a rectilinear path and  
the other of said rolls resting in the notches  
of said fixed frame and having its axis out  
5 of the line of direction of movement of the  
axis of said first roll; a pivoted notched  
frame for said second roll; and a pair of  
spring latches holding said roll in the  
notches of said pivoted frame when not  
10 wringing, said first roll holding said second  
roll in the notches of said fixed frame when  
wringing, said spring latches consisting each  
of a spring pivotally attached to said frame  
and carrying a tooth adapted to engage said  
15 frame to prevent movement of said latch  
when in position to hold said roll, substan-  
tially as described.

2. In a wringer, an idler roll; a shaft  
therefor; a notched frame adapted to receive  
the ends of said shaft; and a spring latch 20  
to hold the end of said shaft within a notch  
in said frame, said spring latch consisting  
of a spring pivotally attached to said frame  
and carrying a tooth adapted to engage said  
frame to prevent movement of said latch 25  
when in position for holding said shaft, sub-  
stantially as described.

Signed by me at Chicago, county of  
Cook and State of Illinois in the presence  
of two witnesses.

HERMAN L. DIETZ.

Witnesses:

KEMPSTER B. MILLER,  
HARRIET L. SMITH.