R. P. WRIGHT.

ADJUSTABLE AUTOMATIC PRESSURE ROLL RELEASE FOR CLOTHES WRINGERS.

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1,220,043. Patented Mar. 20, 1917.

Fig. 1.

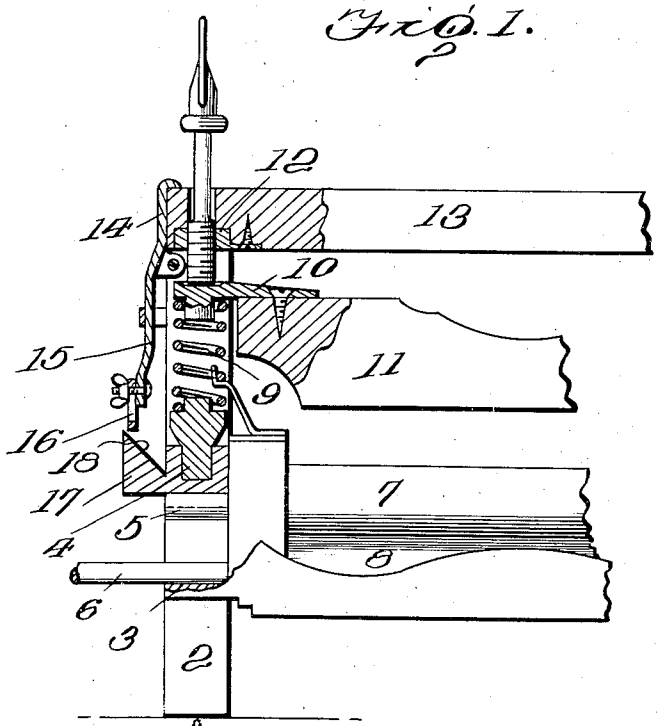
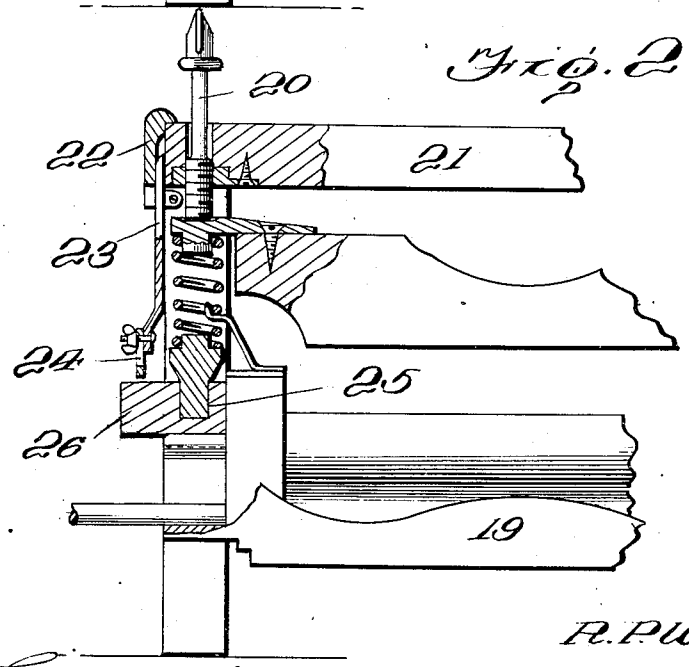


Fig. 2.



Witnesses

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ADJUSTABLE AUTOMATIC PRESSURE-ROLL RELEASE FOR CLOTHES-WRINGERS.

1,220,043. Specification of Letters Patent. Patented Mar. 20, 1917.

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To all whom it may concern:

Be it known that I, REA P. WRIGHT, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Adjustable Automatic Pressure-Roll Releases for Clothes-Wringers, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to certain new and useful improvements in adjustable automatic pressure roll release for clothes wringers, the object being to provide means carried by the pressure roll bearings for actuating the releasing mechanism as disclosed in my companion applications executed even date herewith.

Another object of the invention is to provide an adjustable releasing mechanism in which the trip members of the releasing bars are engaged by extensions carried by the pressure roll bearings on the upward movement thereof in order to throw the movable latches out of the path of travel of the top bar.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the drawings,

Figure 1 is a side elevation of a portion of the clothes wringer partly in section showing the application of the pressure release thereto in which the same is actuated by an extension of the pressure roll bearings.

Fig. 2 is a similar view of another form of release and extension for actuating the same.

Like numerals of reference refer to like parts in the several figures of the drawing.

In Fig. 1 of the drawing, I have shown a clothes wringer which is provided with the usual frame 1 having slotted side bars 2 in which are mounted superposed bearings 3 and 4 in which are arranged shafts 5 and 6 carrying pressure rolls 7 and 8, the bearings 4 carrying spring supports upon which pressure springs 9 are mounted engaged by bearing plates 10, carried by pressure bars 11 which are of the ordinary construction of clothes wringer now in use.

The bearing plates 10 are engaged by pressure screws 12 carried by a movably mounted top bar 13 which is held in its adjusted position within the wringer frame by a pivoted latch 14 having a tail portion 15 carrying adjustable trip members 16 constructed substantially the same as shown in my companion case.

Extending from the bearing 4 under the trip members 16 is an extension 17 having a cam face 18 which is adapted to engage the trip members 16 on the upward movement thereof, and rock the pivoted latch from off of the top bar so as to draw the same out of the path of travel of the movably mounted top bar to release the pressure means, the pressure rolls being separated a sufficient distance by the passage of a foreign object between the same to raise the upper roll and its bearings a sufficient distance to bring the cam portion 18 into engagement with the trip members 16.

In the form shown in Fig. 2 the wringer frame is constructed substantially the same as shown in Fig. 1 and comprises a frame 19 provided with the usual pressure rolls and pressure roll bearings for the shafts carrying the rolls, and the pressure means is identical with that shown and described in Fig. 1, the same being adjusted by pressure screws 20 carried by a movably mounted top bar 21 which is held in predetermined position within the wringer frame 19 by pivoted latches 22 actuated by releasing bars 23 which are provided with adjustable trip members 24. The upper bearings 25 for the upper pressure roll of the wringer are provided with extensions 26 which extend under the trip members 24 and are adapted to engage said members when the bearing is raised by the passage of a foreign object between the pressure rolls so as to move the releasing bar 23 upwardly into such position that the pivoted latch 22 will be moved off of the movably mounted top bar 21 and the pressure means will be instantaneously released.

From the foregoing description, it will be seen that I have provided in connection with releasing means for the movably mounted top bar, bearings having extensions coöperating with said releasing means on the vertical movement thereof for actu-

ating the same so as to release the top bar and allow the same to move vertically within the frame.

I claim:

1. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, means for normally holding said pressure means in predetermined position, bearings for the pressure roll shaft, and extensions carried by said bearings, engaging means for holding said pressure means in predetermined position for moving said means into position to release said pressure means.

2. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, movable members for normally holding said pressure means in predetermined position, trip members carried by said movable members, and bearings for the pressure roll shafts engaging said movable members on the separation of said pressure rolls for moving said movable members in position to release said pressure means.

3. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, movable members for normally holding said pressure means in predetermined position, bearings for the pressure roll shafts of said wringer, and extensions formed on said bearings engaging said movable members on the separation of said pressure rolls for moving said movable members in position to release said pressure means.

4. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, a top bar movably mounted in said frame having means for adjusting said pressure means, movable members mounted on the side bars of said frame for holding said top bar in predetermined position within said frame, adjustable members carried by said movable members, and bearings for the shafts of said pressure rolls engaging said adjustable members on the separation of said rolls for shifting said movable members out of the path of travel of said top bar for releasing said pressure means.

5. A clothes wringer, comprising a frame having pressure rolls and pressure means for said rolls mounted therein, pivoted members for normally holding said pressure means in predetermined position, and bearings for said pressure rolls having inclined faces engaging said pivoted members for shifting said pivoted members in position to release said pressure means.

6. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, movable members for normally holding said pressure means in predetermined position within said frame, bearings mounted in said frame for the pressure roll shafts and means carried by said bearings engaging said movable member for moving said movable members in position to release said pressure means on the separation of said pressure rolls.

7. A clothes wringer, comprising a frame having pressure rolls and yielding pressure means for said rolls, movable members for normally holding said pressure means in predetermined position, adjustable trip members carried by said movable members, and bearings for the pressure roll shafts engaging said trip members for releasing said pressure means.

8. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, pivoted members carried by the side bars of said frame for holding said pressure means in predetermined position within said frame, and bearings for the pressure roll shafts having inclined faces engaging said pivoted members on the separation of said pressure rolls for moving said pivoted members into position to release said pressure means.

9. A clothes wringer comprising a frame having pressure rolls and yielding pressure means for said rolls mounted therein, a top bar movably mounted in said frame having means for adjusting said pressure means, pivoted latches mounted on the side bars of said frame engaging said top bar for holding said top bar in adjustable position within said frame, and bearings for the pressure roll shafts having inclined faces engaging said latches on the separation of said rolls for moving said latches out of the path of travel of said top bar for releasing said pressure means.

10. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, a top bar movably mounted in said frame having pressure screws for adjusting said pressure means, pivoted latches mounted on the side bars of said frame for holding said top bar in predetermined position within said frame, adjustable members carried by said latches and bearings for said pressure roll shafts having inclined faces adapted to engage the adjustable members of said latches on the separation of said pressure rolls for shifting said latches out of the path of travel of said top bar for releasing said pressure means.

11. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, a top bar movably mounted in said frame having pressure screws for adjusting said pressure means, pivoted latches mounted on the frame of said wringer for holding said top bar in predetermined position therein, trip members adjustably carried by said latches, and bearings for said pressure roll shafts

having extensions for engaging said adjustable members on the separation of said pressure rolls for moving said pivoted latches out of the path of travel of said top bar for releasing said pressure means.

12. A clothes wringer comprising a frame having pressure rolls and pressure means for said rolls mounted therein, a top bar movably mounted in said frame having means for adjusting said pressure means, pivoted latches mounted on the side bars of said frame for normally holding said top bar in predetermined position within said frame, trip members carried by said latches and bearings for the upper pressure roll shaft having extensions adapted to engage the trip members of said latches on the separation of said pressure rolls, for moving said latches out of the path of travel of said top bar for releasing said pressure means.

13. A clothes wringer, comprising a frame having pressure rolls and pressure means for said rolls mounted therein, a top bar movably mounted in said frame having pressure screws for adjusting said pressure means, pivoted latches mounted on the side bars of said frame for normally holding said top bar in predetermined position within said frame, said latches being provided with tail portions, bearings for the upper pressure roll shafts having extensions provided with inclined faces, and trip members adjustably mounted on the tail portions of said latches arranged in the path of travel of the inclined portions of said bearings for shifting said latches out of the path of travel of said top bar for releasing said pressure means.

In testimony whereof I hereunto affix my signature.

REA P. WRIGHT.