No. 611,895. Patented Oct. 4, 1898.

P. R. CROSS.

PAPER HANGING MACHINE.

(Application filed Oct. 22, 1897.)

(No Model.) 3 Sheets—Sheet 1.

Fig. 1.

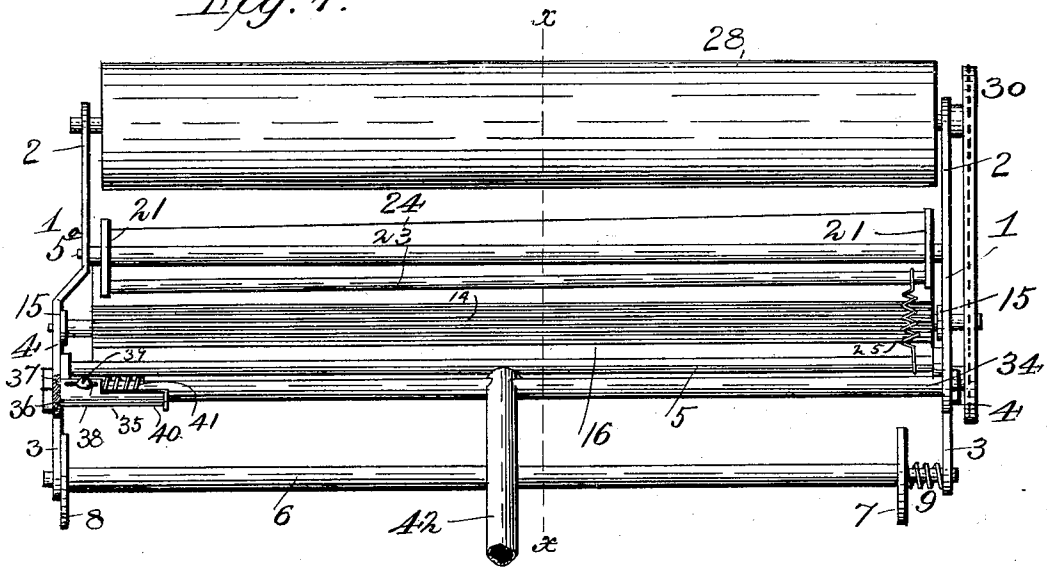
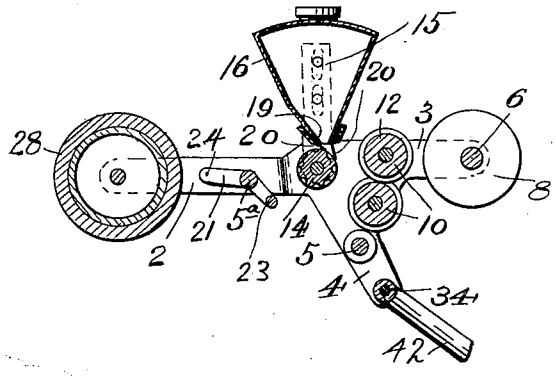


Fig. 2.



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Fig. 3.

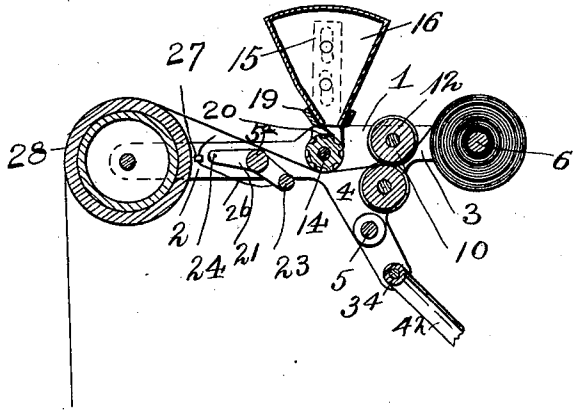
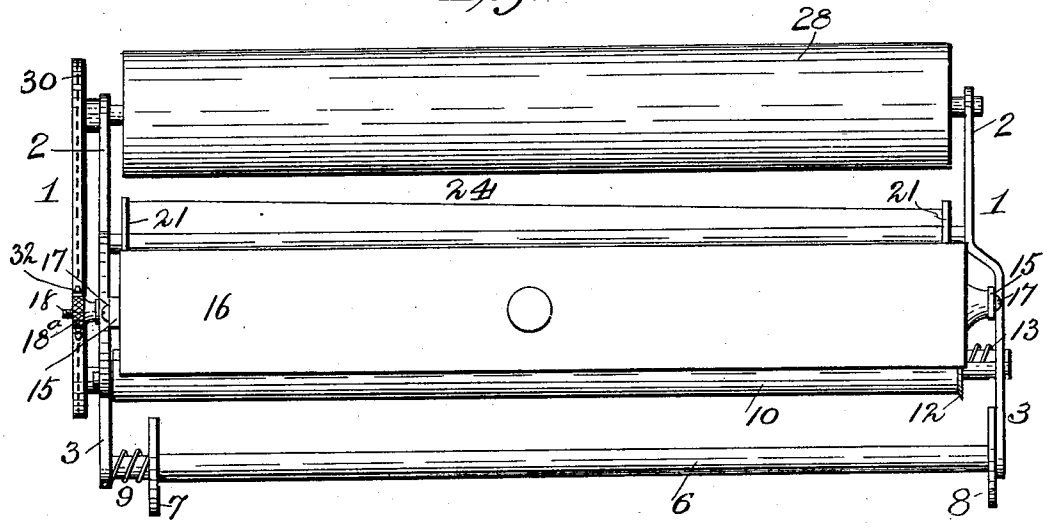


Fig. 4.



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Fig. 5.

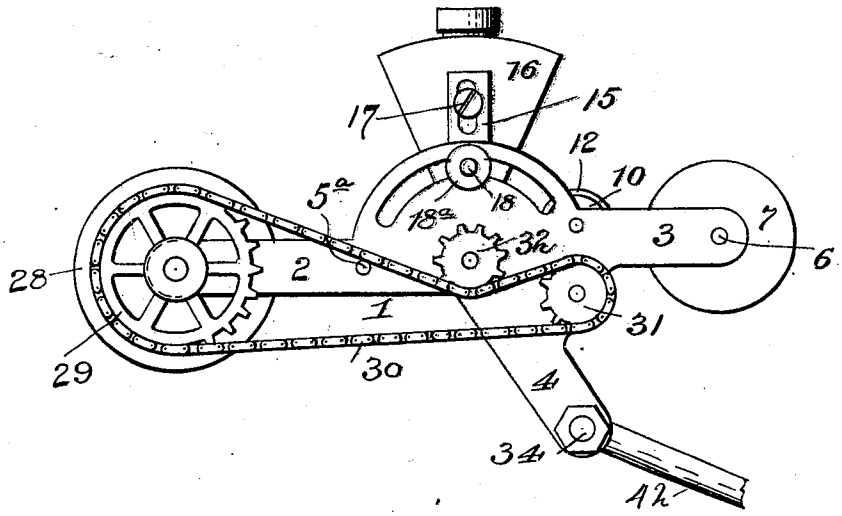
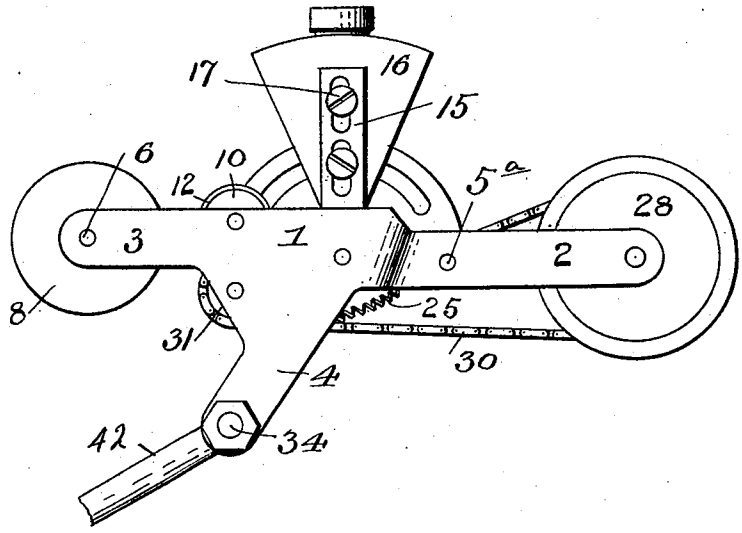


Fig. 6.



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UNITED STATES PATENT OFFICE.

PARMER R. CROSS, OF HAMMOND, INDIANA.

PAPER-HANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 611,895, dated October 4, 1898.

Application filed October 22, 1897. Serial No. 656,039. (No model.)

To all whom it may concern:

Be it known that I, PARMER R. CROSS, a citizen of the United States, and a resident of Hammond, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Paper-Hanging Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to paper-hanging machines for securing wall-paper to walls or ceilings; and its object is to provide an improved construction of the same by which the paper can be trimmed and pasted and caused to adhere to the wall and clipped or cut off at the proper point in a rapid and efficient manner.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a view of the bottom of a paper-hanging machine constructed in accordance with my invention. Fig. 2 is a vertical section on the line *x x*, Fig. 1. Fig. 3 is a similar view showing a paper-roll in place in the machine. Fig. 4 is a plan view. Fig. 5 is an end elevation. Fig. 6 is a view looking from the opposite end.

In the said drawings the reference-numeral 1 designates the ends or sides of the machine, comprising the arms 2, 3, and 4. These ends are connected together by rods 5 and 5^a. Journaled in the arms 3 is a roller 6, on which the paper-roll is slipped. This roller is provided with collars 7 and 8. Between the collars 7 and one of the arms is a coiled spring 9, which keeps the collar 8 pressed up against the other arm. To remove the roller to allow the paper-roll to be slipped on, one end is pushed inward, so as to disengage it from the arm, when it can be pulled out. The collar 8 is then removed, the paper-roll slipped on the roller, and the latter again engaged with the arms. Above said roller and journaled to the ends 1 are two feed-rollers 10, provided at one end with circular trimmers or cutters 12 for trimming the edge of the paper. The shaft of one of these rollers is provided with a coiled spring 13, the tendency of which is to press the cutter of this roll up against the cutter of the other. Also journaled to said ends above the feed-rollers is a grooved paste-roller 14. Journaled to the shaft of this roller are arms 15, which carry a paste-receptacle 16. This receptacle is adjustably secured to said arms by means of set-screws 17, passing through slots in the arms and engaging with threaded holes or apertures in the ends of the receptacle. By loosening said screws the receptacle may be moved toward and away from the roller 14. At one end of said receptacle is a screw 18, provided with a nut 18^a, passing through a slot in one of the arms 15 and also through a segmental slot in one of the ends 1. As stated, the arms which carry the paste-receptacle are journaled to the shaft of roller 14, so that the receptacle may be adjusted at an angle to said roller. The nut 18^a holds it in its adjusted position. Said receptacle is approximately rectangular in cross-section and at its inner end is formed with a slot 19 for the escape of the paste and is provided with a rubber strip 20, which feeds the paste to the roller 14. Journaled to the rod 5^a, connecting the arms 2 of the ends 1, are two arms 21, one at each end of the rod. To one end of said arms is journaled a roller 23, while to the other end is secured a diagonal wire 24, which serves as a clipper for cutting off the paper at the proper point. Secured to said roller is a coiled spring 25, and also secured thereto is a wire 26, passing through a lug 27, by pulling which wire the arms are actuated to cause the clipper to cut the paper.

Journaled to the upper ends of the arms 1 is a large rubber roller 28, which presses the paper against the wall. The shaft of this roller at one end is provided with a sprocket-wheel 29, around which passes a sprocket-chain 30, which also passes around a sprocket-pinion 31 on one of the feed-rollers 10. One of the rims of said chain also engages with a sprocket-pinion 32 at the end of the paste-roller.

The numeral 34 designates a shaft journaled in the arms 4 and is provided with a nut at each end. At one end this shaft is provided with a sliding clutch 35, having pins 36, which are adapted to engage with holes 37

in one of the arms 4. This clutch is formed with slots 38 for the passage of headed screws 39, by which it is held on the shaft, and is formed with a finger-piece 40 for sliding it in and out. A coiled spring 41 bears against the inner end of the clutch, the tendency of which is to press the same outward, so that its pins will engage with the holes 37. The object of this clutch is to allow the handle 42, secured to the shaft 34, to be adjusted at any angle desired and to be securely held in such adjusted position.

In use the paper-roll is slipped on the roller 6 and its end carried between the feed-rollers, thence over the grooved paste-roller underneath the paste-receptacle, then over the roller 23, and under the clipper to the large roller 28.

In using the device the end of the pasted paper is pressed against the wall and the machine then carried down, the roller 28 pressing the paper against the wall and causing the feed-rollers to be operated to feed the paper.

Having thus fully described my invention, what I claim is—

1. In a paper-hanging machine the combination with the ends, the roller for receiving the paper, the collars thereon, the coiled spring at one end, the feed-rollers, the coiled spring secured to one of said feed-rollers, the circular cutters, and the grooved paste-roller, of the paste-receptacle, the roller and clipper, the arms with which they are connected, the wire for operating said arms, the large presser-roller and means for operating the feed and paste rollers, substantially as described.

2. In a paper-hanging machine of the character described, the combination with the paper-roller, the feed-rollers, the cutters, and the grooved paste-roller, of the paste-receptacle having a feed-opening at the inner end, the rubber strip for supplying paste to the paste-roller, the slotted arms journaled to the shaft of the paste-roller, the screws for securing said receptacle to the arms, the screw-bolt at one end of the paste-receptacle passing through a segmental slot in one end of the machine, the binding-nut, the clipper, the presser-roller, the sprocket-wheel and pinions and the sprocket-chain, substantially as specified.

3. In a paper-hanging machine of the character specified, the combination with the ends, the presser-roller, the paste-receptacle, the paste-roller, the feed and paper rollers, of the rod, the arms journaled therein, the roller journaled to one end of said arms, the clipping-wire secured to the other ends of said arms, the coiled spring, the actuating-wire and the lug through which said wire passes, substantially as specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

PARMER R. CROSS.

Witnesses:
B. F. IBACH,
A. OTTENHEIMER.