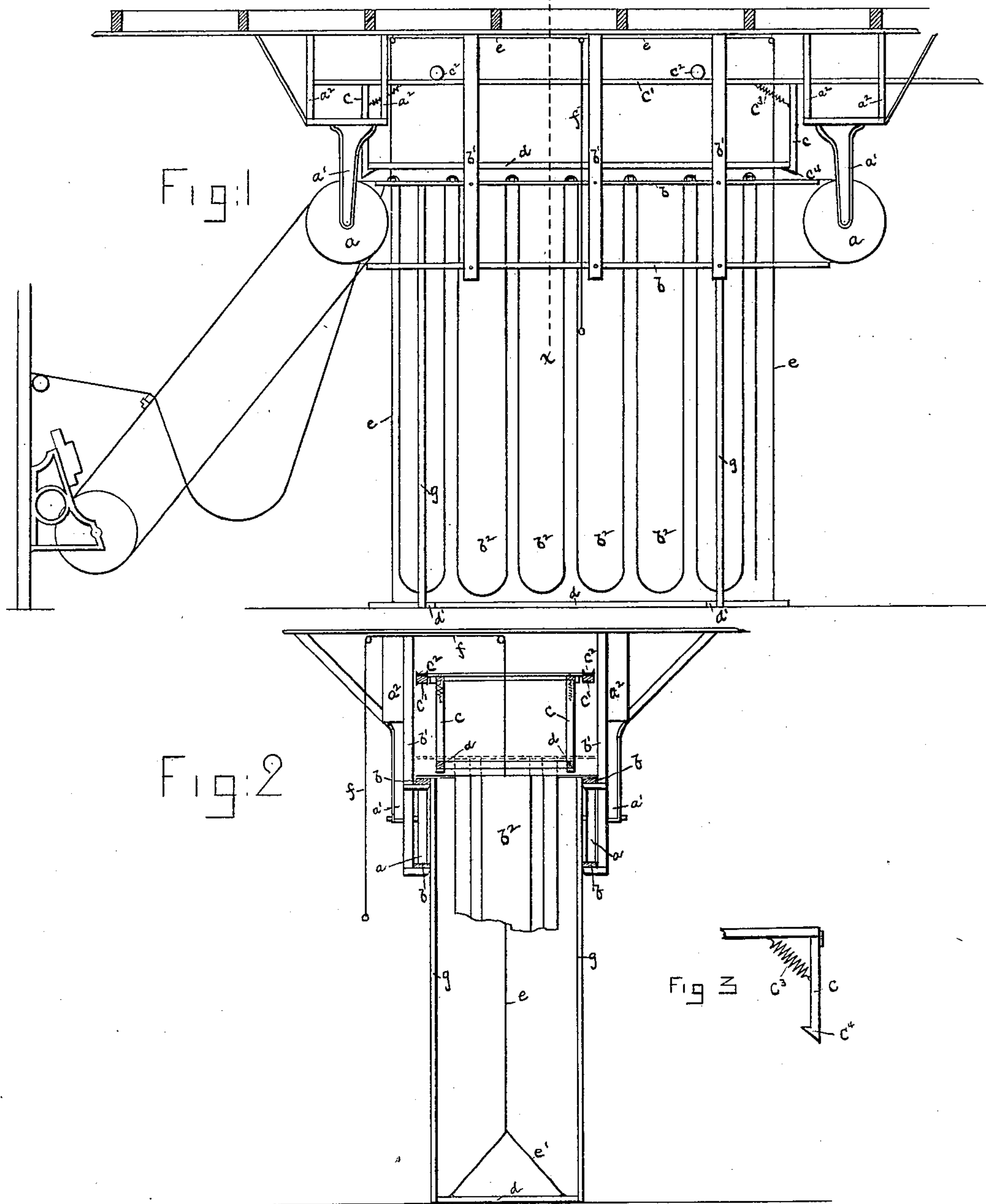


(No Model.)

T. HENRY.
METHOD OF AND APPARATUS FOR REMOVING WALL PAPER FROM THE
HANGING UP MACHINE.

No. 246,389.

Patented Aug. 30, 1881.



WITNESSES:

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METHOD OF AND APPARATUS FOR REMOVING WALL-PAPER FROM THE HANGING-UP MACHINE.

SPECIFICATION forming part of Letters Patent No. 246,389, dated August 30, 1881.

Application filed May 31, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HENRY, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Methods of and Apparatus for Removing Wall-Paper from the Hanging-Up Machine; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improved method of and apparatus for removing wall-paper, &c., from the hanging-up machine.

Heretofore it has been customary for the paper to be left upon the hanging-up machine until dry, which involves excessive apparatus and room, or to be removed from the machine by attendants, one festoon at a time, making it a slow and expensive way of manipulation, often resulting in great damage or even total loss of the paper while being removed.

By my improved device I am enabled to remove a large number of festoons simultaneously and in the same relative position which they occupy in the hanging-up machine, thus dispensing with considerable machinery heretofore employed, effecting a great saving in room and time, and preventing the damage to the paper consequent upon the old method of handling.

The devices which I employ consist of a car which can be moved upon a suitable track over the paper, a rack which can be placed upon and removed from the car by means of adjustable depending arms which form a part of said car, and means for raising and guiding the rack to its position on the car. These devices are combined and operated as will be more fully hereinafter explained.

In the drawings, Figure 1 is a side elevation of my improved apparatus, showing the rack placed upon the floor under the hanging-up machine, and also in its position upon the car. Fig. 2 is a transverse section on the line $x x$ of Fig. 1, and showing in dotted lines the position of the carrying-sticks and paper on the

car. Fig. 3 is a detail view of one of the depending arms of the car.

$a a$ are pulleys or sprocket-wheels, operated by suitable gearing and mounted upon hangers $a' a'$, secured upon frames $a^2 a^2$, hung from the ceiling. Upon these pulleys or sprocket-wheels $a a$ endless bands or link-belts travel, which are supported between the pulleys upon rests $b b$, hung from the ceiling upon supports $b' b'$. These endless bands or link-belts carry the sticks which support the festoons b^2 of paper as they are fed from the printing or grounding machine.

The car is shown at $c c$, and is adapted to be moved along the track $c' c'$ over the hanging-up machine by means of wheels $c^2 c^2$, mounted upon suitable axles. The depending arms c at each end of the car are hinged to the top frame, so as to be capable of an outward-swinging movement, and when so displaced are returned to their normal position by means of springs c^3 , or in lieu thereof a spring-hinge may be employed.

d is a rack, which, when in position on the car, rests upon shoulders or catches c^4 on the lower ends of the depending arms c of the car. The rack d is lifted from the floor into position upon the car by means of cords $e e$, which pass over suitable pulleys secured to the ceiling, said cords being attached to loops e' at each end of the rack. These loops e' are detachably secured upon hooks on the end of the rack, but they may be permanently secured to the rack, in which event the cords e must be detachably secured to the loops. The cords $e e$ are further secured to a cord, f , which passes over a pulley secured upon the ceiling, at one side of the hanging-up machine, to allow of easy manipulation by the attendant. The upward movement of the rack is further controlled by suitable guides, g , which serve to retain it in a horizontal position. To prevent longitudinal displacement of the rack in its upward movement between the guides g its side pieces are provided with lugs d' , which have contact with the sides of the guides g .

The operation of my device is substantially as follows: After a sufficient number of festoons have been fed upon the hanging-up machine, the car being in proper position over the paper, the rack is placed upon the floor be-

tween the guides and the cords connected thereto. The rack is then lifted by means of the cords and pulleys, and in its upward movement lifts the sticks carrying the festoons of paper from off the endless band or link-belt upon which they rest without changing their relative position. When the rack reaches the hinged depending arms of the car it pushes them outward, allowing the ends of the rack to pass. The arms then assume their normal position by the action of the springs, and catch and retain the rack, with its festoons of paper thereon, in position upon the car, as shown in dotted lines in Fig. 2. The lifting-cords are then detached from the car, and it is pushed along its track away from the hanging-up machine to the point desired.

It is obvious that the rack may be operated in other equivalent ways or by hand without departing from the spirit of my invention.

I claim—

1. The improved method of removing festoons of wall-paper from a hanging-up machine, consisting in placing a rack in position below the paper to be removed, lifting said rack in suitable guides to and upon a car which has been previously placed in position over the paper, the sticks carrying the festoons being removed from off the endless band (upon which they rest) without change of relative position in the upward movement of the rack, and then moving the car, with the paper placed thereon, to the point desired, substantially as shown and described.

2. In a device for removing wall-paper from a hanging-up machine, the combination, with a car provided with adjustable depending arms, of a rack for removing the paper, substantially as shown and described.

3. In a device for removing wall-paper from a hanging-up machine, the combination, with a car provided with adjustable depending arms, of a rack provided with suitable means for raising it to its position on the car, substantially as shown and described.

4. In a device for removing wall-paper from a hanging-up machine, the combination, with a car provided with adjustable depending arms, of a rack provided with suitable means for raising it to its position on the car and guides for controlling its upward movement, substantially as shown and described.

5. The car provided with adjustable depending arms, adapted, as shown, to catch and retain the rack for transferring paper, substantially as shown and described.

6. A rack for transferring wall-paper, in combination with a system of cords and pulleys for raising it and suitable guides for controlling its upward movement, substantially as shown and described.

THOMAS HENRY.

Witnesses:

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CHAS H. ANDREWS.