

No. 706,757.

Patented Aug. 12, 1902.

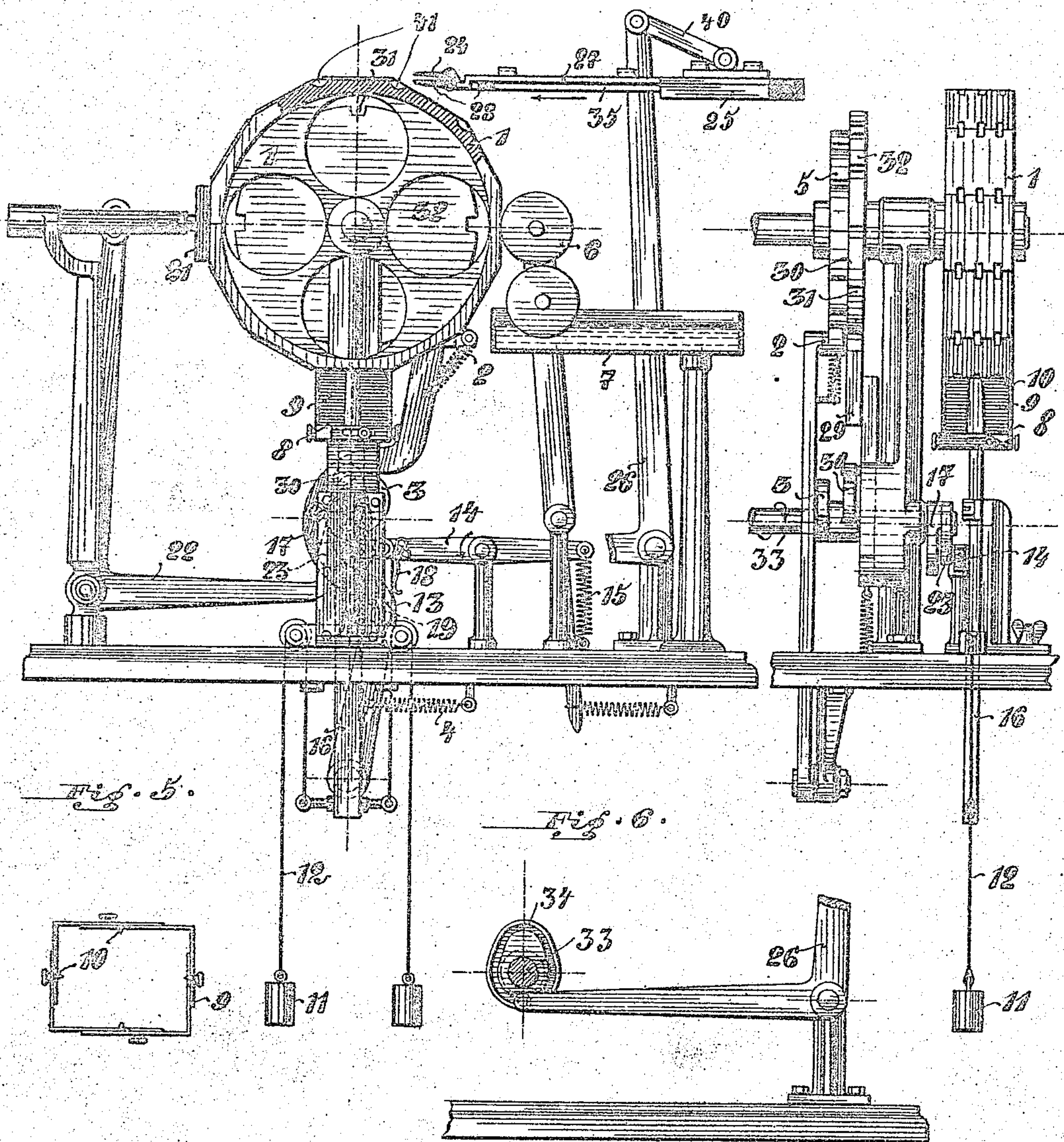
F. E. JAGENBERG & R. HÜGFELDT.
MACHINE FOR COATING LABELS WITH ADHESIVES.

(Application filed Feb. 11, 1902.)

2 Sheets—Sheet 1.

Fig. 1.

Fig. 2.



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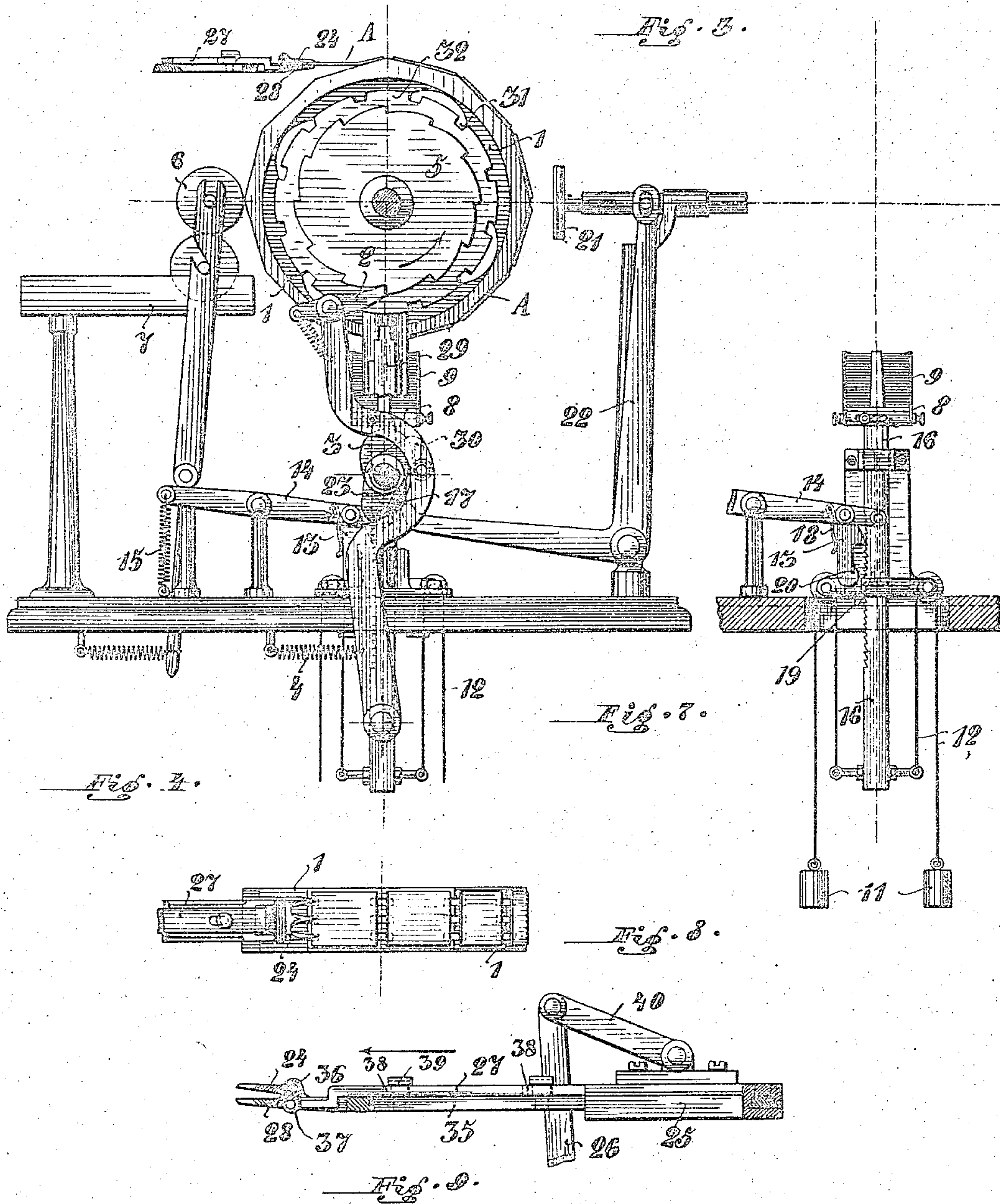
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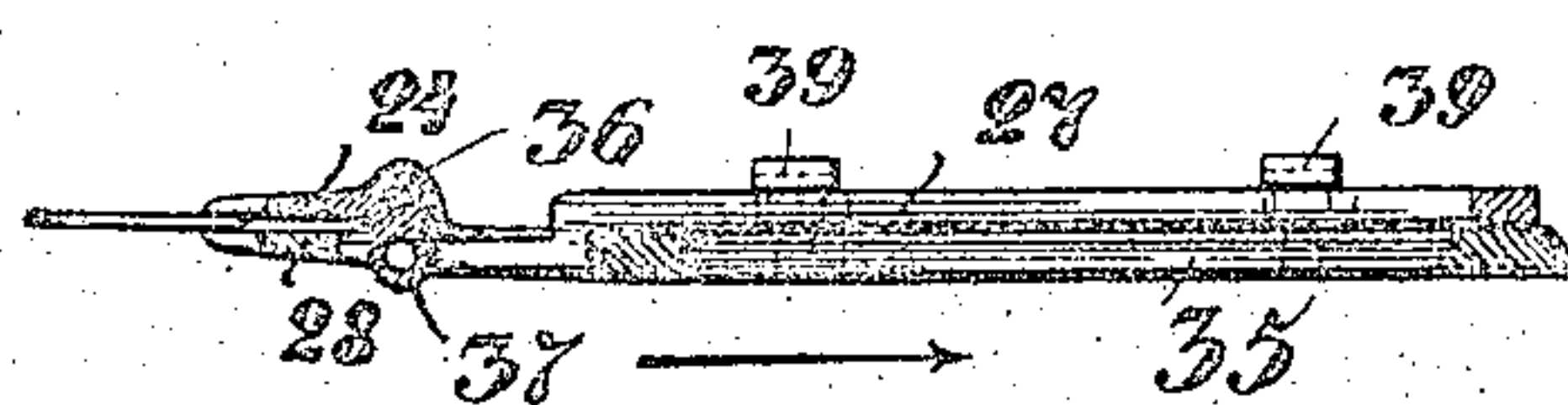
(Application filed Feb. 11, 1902.)

(No Model.)

2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

FERD EMIL JAGENBERG AND RICHARD HÖGFELDT, OF DUSSELDORF,
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MACHINE FOR COATING LABELS WITH ADHESIVES.

SPECIFICATION forming part of Letters Patent No. 706,757, dated August 12, 1902.

Application filed February 11, 1902. Serial No. 93,518. (No model.)

To all whom it may concern:

Be it known that we, FERD EMIL JAGENBERG and RICHARD HÖGFELDT, citizens of the German Empire, residing at Dusseldorf, in the Kingdom of Prussia, Germany, have invented a new and Improved Machine for Coating Labels with an Adhesive, of which the following is a specification.

By means of the machine illustrated in the accompanying drawings the labels or the like which are to be attached are individually coated with warm glue or cold adhesive medium on the side where they are to be attached and conducted to a pair of pincers which withdraw them from the coating mechanism.

In the accompanying drawings, Figure 1 is a side view in partial section, and Fig. 2 is an end view of the machine, while Fig. 3 is a side view opposite to Fig. 1. Fig. 4 shows a plan of the casing for the labels or the like which are to be coated with adhesive medium, and Fig. 5 is a plan of the pincers; Fig. 6, a detail of the cam and lever for actuating the gripper; Fig. 7, a detail of the label-magazine and its actuating mechanism; Fig. 8, a side view of the gripper, showing the jaws open; and Fig. 9, a similar view with the jaws closed.

A drum 1, round or angular in cross-section, serves for the reception of the adhesive medium, delivers the same to the labels, and passes on the latter. This drum is moved by suitable driving-gear. In the arrangement shown in the drawings a click 2 serves to actuate the said drum, said click being influenced, on the one hand, by a spring 4 and, on the other hand, by an eccentric 3, fast on shaft 33. The said click engages with a correspondingly-toothed wheel 5, connected with a drum, and moves the said wheel with the drum intermittently. The drum can be fixed after each movement by a stopping contrivance. In the arrangement shown in the drawings a bolt 29 is provided for this purpose, which bolt is raised by an eccentric 30 and engages with notches 31 in a disk 32. The surface of the drum is furnished with glue by the gluing-rollers 6, which take the glue from a tank or vessel 7. Under the drum a guide for the labels is provided, in which they lie piled up. The guiding contrivance consists of a movable guided plate 8, corresponding in

shape with the labels to be stuck on, and a magazine of sheet metal, which can fall freely and which if used for sticking on quadrangular labels, as shown in Fig. 4, consists of four angular strips 9, which receive the four corners of the labels and which are connected with one another below by cross-pieces. These overlap one another and are furnished with slots in which there are screws 10, after loosening which the said angular strips can be adjusted so that the casing can be used for large or small labels or the like. The casing is furnished at the top with small projections, which rest on the topmost label and prevent the light casing from slipping down over the labels and the plate 8. The said plate is raised by means of weights 11, which are connected with it by cords or the like 12, which pass over pulleys, so that the topmost label is pressed against the drum while the latter is at a standstill and adheres to the same. The drum is then moved on and the next time it stops another label is attached next to the first, and so on. When the drum makes the forward movement, the plate 8 is lowered somewhat, and the labels and the casing descend with it. The lowering is effected by the click 13, which engages with the teeth of the rack 16. The lever 14, with the click 13, is pressed down against the action of the spring 15 by the eccentric 17 when the latter turns, the said click 13 pulling the rack 16 and the plate 8 down with it. When the click 13, which is held by a spring 18, descends, a pin 19 comes into contact with a slanting surface 20 of the said click, whereby the said click is disengaged, and the plate 8, with the labels, is raised by the weights 11 until the topmost label touches the circumference of the drum, which at that particular moment is stationary. The said label sticks to the drum owing to the adhesive medium on the latter, and when the drum moves on the label is carried along with it. After the topmost label has been pressed against the drum the process of lowering the plate, &c., by means of the click and rack is repeated, the said rack gradually ascending as the labels are taken up. In order that the label may be firmly pressed on the drum and thoroughly coated with adhesive medium at the corners, a spring-

ted pressing device 21 is arranged, which in connection with the bent lever 22, said being moved by a tongue 23, which engages with its cross-arm. The label is taken by a gripper or pincers 24, which can be used in any way desired. In the arrangement shown in the drawings the gripper reciprocating movement from a cam 34, on shaft 33, by angle-lever 26, Fig. 6. The gripper is composed of a lower jaw 28, adapted to slide 35, movable in a guide 25. The jaw 28 is pivoted at 36 an upper jaw having a downwardly-projecting arm. To this arm is pivotally connected a slide which is also adapted to move in guide 25, 8 and 9. Slide 27 has a pair of longitudinal slots 38, which are engaged by guides 39 of slide 35, that limit the movement of slide 27 along slide 35. Slide 27 is connected to lever 26 by a link 40. It will be seen that by turning lever 26 to the left, Fig. 6, slide 27 will move along slide 35 until guides 39 bear against the ends of slots 38. This movement effects the opening of the gripper by swinging the jaw 24 upward. The further movement of lever 26 to the left will move both slides 27 35 to the left, so as to bring the opened gripper in position to grasp the label A. In this position the lower jaw 28 is accommodated by a notch 41 of slide 35. 1. When the lever 26 swings back, slide 27 will first move to the right along slide 35 until the gripper is closed on the label. After the jaws are closed the further movement of lever 26 to the left will take the closed jaws, with the label, away from drum 1. While the jaws draw the label off the drum the latter is simultaneously rotated, and as its sur-

face slopes downward during such rotation the label is readily detached without being torn. Upon the next reversal of movement of lever 26 the jaws are opened in the manner previously described, so that the label is released from the gripper.

Having fully described our invention, what we desire to claim and secure by Letters Patent is—

1. In a machine for coating labels with an adhesive, the combination of an intermittently-rotated drum, with gluing-rolls in contact therewith, means for feeding labels to the drum, and a gripper for taking the labels off the drum, substantially as specified.

2. In a machine for coating labels with an adhesive, the combination of an intermittently-rotated drum, with gluing-rolls in contact therewith, a notched disk and bolt for locking the drum, a label-magazine, means for moving said magazine toward and away from the drum, and a gripper for taking the labels off the drum, substantially as specified.

3. In a machine for coating labels with an adhesive, the combination of an intermittently-rotated drum, with gluing-rolls in contact therewith, means for feeding labels to the drum, a sliding gripper for taking the labels off the drum, and means for guiding the sliding gripper, substantially as specified.

Signed by us at Dusseldorf, Germany, this 29th day of January, 1902.

FERD EMIL JAGENBERG.
RICHARD HÖGFELDT.

Witnesses:

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