

UNITED STATES PATENT OFFICE.

JOSEPH CORBETT AND EDWIN R. CORBETT, OF NEW YORK, N. Y., ASSIGNORS
TO THOMAS F. SHAW, OF SAME PLACE.

ENVELOPE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 525,536, dated September 4, 1894.

Application filed February 6, 1892. Serial No. 420,586. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH CORBETT and EDWIN R. CORBETT, citizens of the United States, residing in the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Envelope-Machines, of which the following is a specification.

This invention relates to certain improvements in envelope-machines of that class in which the blanks are successively subjected to the operations of gumming the sealing flaps, creasing the blanks, folding the flaps, drying the unclosed sealing-flap and bundling the completed envelopes, the improvements being designed with the view of making all the working parts of the machine adjustable, so that envelopes of any desired size can be made on the machine, while it can also be adjusted and operated for making any one of the standard-sizes of envelopes.

The invention consists of an envelope-machine, which comprises, first, a recessed blank-feeding table on which the pile of blanks is placed and retained by adjustable gages, said table being gradually raised by suitable mechanism, so as to supply the blanks to the mucilage-pads; secondly, a vertically-reciprocating frame to which the mucilage-pads are applied, the adjustable sides of said pads being supplied with mucilage by horizontally-reciprocating rollers which form intermittent contact with rollers in mucilage-fountains; thirdly, a stripper which is also provided with adjustable sections by which the gummed blanks are removed from the mucilage-pads and dropped on to a horizontally-reciprocating and adjustable carrier that transfers the blanks to the creasing-mechanism, so that the plunger on being lowered into the box, creases the flaps of the blanks, the box and plunger of the creasing-mechanism being likewise adjustable, so as to provide for the different sizes of envelopes to be made on the machine; fourthly, hinged folding-flaps that are arranged vertically below the creasing-mechanism and to which the creased blanks are transmitted by the plunger, so that the flaps are successively folded, the upper sealing-flap being prevented from being sealed by a suitable presser-frame on the folding flap of the

lower sealing flap; fifthly, a tilting platform and pusher-arm by which the envelope is transmitted to the drying-reel; sixthly, a drying-reel which is formed of ring-shaped frames and pivoted arms that are retained in radial position by means of raised flanges on the stationary supporting rings of the reel, said reel being guided on said supporting-rings and intermittently moved forward by a suitable pawl and ratchet-mechanism; seventhly, pivoted arms and wire-rings supported in eyes of said arms, said wire-rings being adjusted concentrically to the drying-reel, so as to adapt the same for receiving envelopes of any size and hold them in position in the arms of the drying-reel until they are ready to be transferred by a horizontally-reciprocating pusher to the bunching-reel; eighthly, a bunching-reel, to the jaws of which the envelopes are successively fed so as to be bunched, said reel being intermittently rotated by suitable mechanism; lastly, actuating-mechanisms by which the different working parts of the machine are actuated by the cams on a rotating cam-shaft, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side-elevation of my improved envelope-machine. Fig. 2 is a front elevation, some parts being in section. Fig. 3 is a plan-view of the machine. Fig. 4 is a vertical longitudinal section of the upper part of the machine on line 4 4, Fig. 3 showing the parts supported above the bed-plate, said figure being drawn on a larger scale. Fig. 5 is a horizontal section on line 5 5, Fig. 4, showing the mucilage-pads, stripper, carrier and creasing-mechanism in plan-view. Fig. 5* is a detail-section showing the connection of the adjustable carrier-rods with the transverse rods by which motion is imparted to the same. Fig. 6 is a plan-view of the bed-plate and the parts supported on the same, partly in horizontal section on line 6 6, Fig. 4. Figs. 7 and 8 are respectively a side-elevation and a vertical transverse-section on line 8 8, Fig. 7, showing the lower folding-flap with its extensible presser-frame. Fig. 9 is a detail rear-elevation of the triangular main-plate of the lower folding-flap. Figs. 10 and 11

(No Model.)

10 Sheets—Sheet 1.

J. & E. R. CORBETT. ENVELOPE MACHINE.

No. 525,536.

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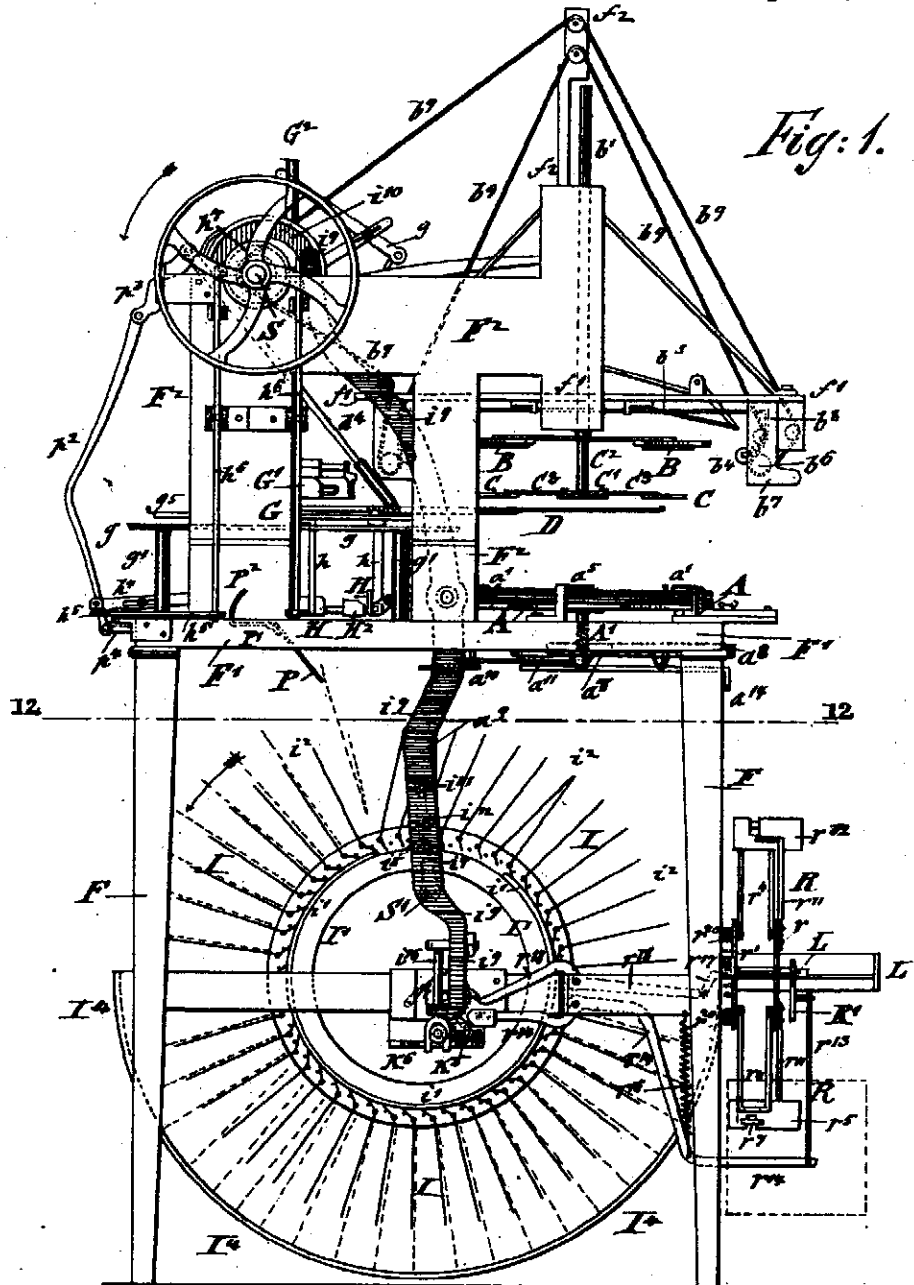


Fig: 1.

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