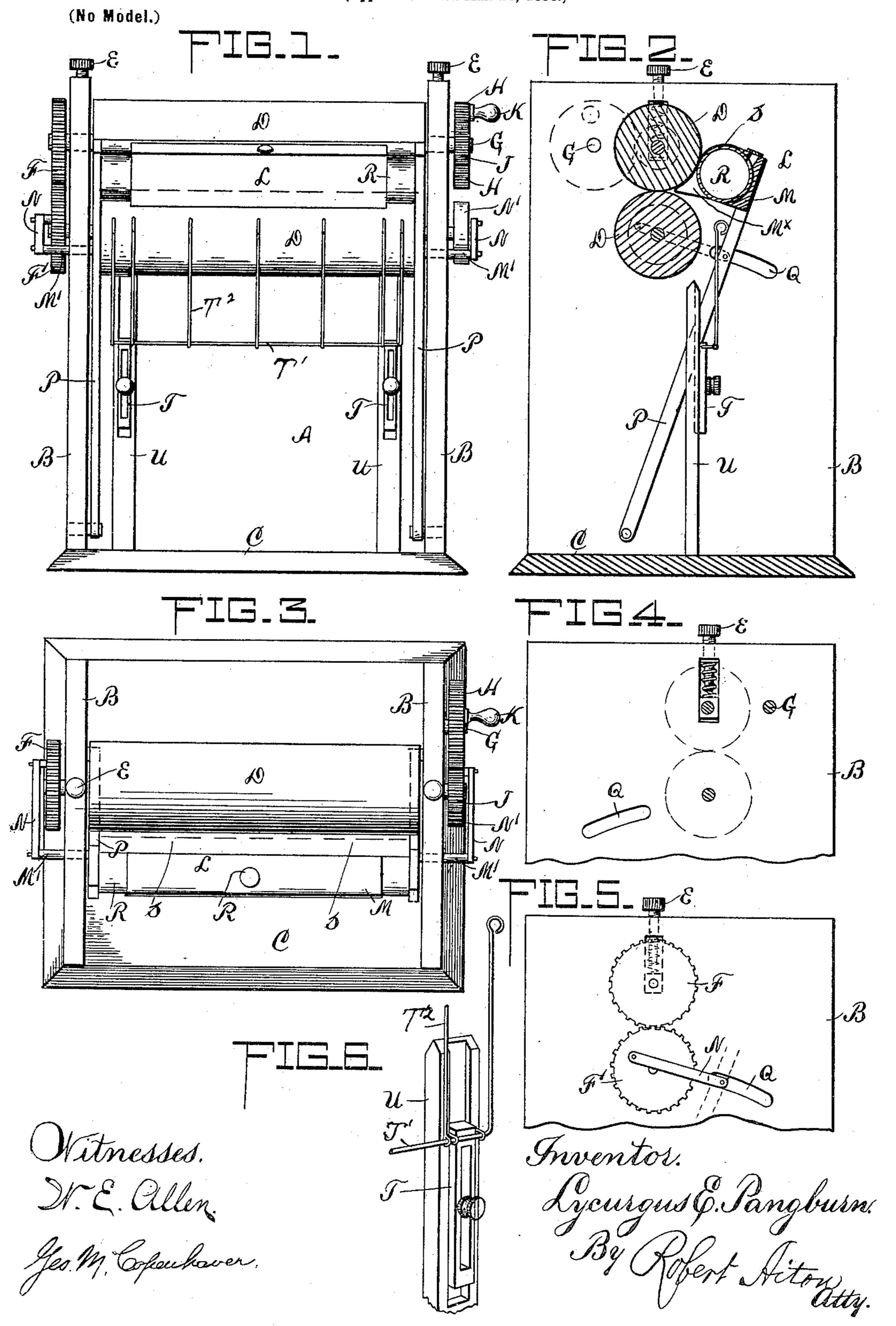
L. E. PANGBURN. ENVELOP SEALER.

(Application filed Mar. 26, 1898.)



United States Patent Office.

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ENVELOP-SÉÁLER.

SPECIFICATION forming part of Letters Patent No. 622,528, dated April 4, 1899.

Application filed March 26, 1898. Serial No. 675, 259. (No model.)

To all whom it may concern:

Be it known that I, Lycurgus E. Pang-Burn, a citizen of the United States, and a resident of the city of New Haven, county of New Haven, State of Connecticut, have invented a new and useful Improvement in Envelop-Sealers, of which the following is a full, clear, and exact description.

In the drawings which accompany this specification and are a part hereof, Figure 1 represents a front view of an envelop-sealer embodying my invention. Fig. 2 represents a vertical section on line x x, Fig. 1. Fig. 3 represents a plan view. Figs. 4, 5, and 6 represent perspective views of detail portions of the machine.

Similar letters indicate similar parts of the different figures.

Referring to the drawings, A designates a 20 casing or frame formed of the side pieces B B and the base C. In the said side pieces are journaled the parallel rollers D D, preferably composed of a wooden or other suitable core with a rubber or other elastic covering. The 25 journals of the upper roller D, which is directly above that of the other roller, have spring-bearings, the tension of which is regulated by the screws E E. The gear-wheels F F' connect the rollers, so that they move in uni-30 son. Mounted on a shaft G on the side pieces B B is a cog-wheel H, meshing with a pinion J on the shaft of the upper roller D and provided with a crank-handle K for rotating it and thereby the rollers D D. Other mech-35 anism, such as a treadle, may be connected with said rollers for rotating them.

L designates the feeder and folder, which consists of a frame M, having bearing-pieces M' at its sides connected by the pivoted arms or pitmen N N to the wheels F' and N' on the shaft of the lower roller D. The said frame M is supported on the rods P P, which are pivoted at their lower ends to the side pieces B B, so as to be moved to and from the rollers by means of said pitmen N N, which are eccentrically connected with said wheels F' and N', the bearings M' moving in the slots Q Q in the side pieces B B. On the frame M is a tank or fluid-receptacle R, from which projects a moistening-pad or piece of felt S, which

is secured on the concave front portion M[×] of said frame.

T designates a rack or envelop-holder composed of a base-piece T' and front vertical 55 bars T², with depending slotted side pieces, in which rack the envelop is placed preparatory to sealing it. The said rack is vertically adjustable by means of said slotted side pieces and clamping-screws, which secure it to the 60 posts U U, rising from the base-piece C.

The manner of operating the device is simple and is as follows: The envelop to be sealed is placed in the rack T, which is adjusted so that the fold of the flap of the en- 65 velop is in line with the space between the rollers D D, the flap falling toward or against the concave portion of the feeder on which is the moistening-felt S. The cog-wheel H is then rotated, so that the pinion J and the 70 rollers D D are revolved. This causes the wheels F' and N' to move the pitmen N N so as to cause the feeder L to approach the rollers and its lower front edge to engage the fold of the envelop and push the latter between the 75 rollers, the flap coming in contact with the moistening-felt as the concave portion of the frame approaches the upper roller D, whereby the gummed portion of said flap is moistened. The parts are so connected that the 80 further rotation of the cog-wheel H causes the feeder to recede from the rollers, while the envelop is drawn between the latter and the flap is pressed against the back of the envelop, and thereby reliably secured to the same. 85 The further rotation of the rollers carries the envelop entirely between them, discharging it on the opposite side thereof. Owing to the spring-bearings of the upper roller the latter automatically adjusts itself, so that envelops 90 having contents of different thicknesses are accommodated. Envelops can be successively fed to the machine as fast as one has passed between the rollers, and as a high rate of speed for the rotation of the rollers is pos- 95 sible it will be apparent that the efficiency of the device or quantity of work that can be performed by it is very great.

It will be noticed that the machine as described is of comparatively few parts, easy of 100 construction, while durable in character and highly efficient in operation.

Having thus described my invention, what I wish to claim and secure by Letters Patent is—

1. An envelop-sealer having two parallel rollers, and a feeding and folding device with a moistening-pad thereon; and mechanism for operating said feeding and folding device, said feeding and folding device being in front of and adapted to deliver envelops between said rollers, substantially as described.

2. In an envelop-sealer, the combination of a frame having two parallel rollers journaled thereon, a reciprocating feeding-frame with a moistening-pad thereon suitably supported in front of the space between said rollers; mechanism for operating said reciprocating feeding-frame, and a stationary envelopholder adjacent to and in front of said rollers.

3. In an envelop-sealer, a frame with two parallel rollers journaled thereon and having connecting-gearing, a feeding device mounted on pivoted rods in front of said rollers, pitmen connected with said feeding device and with the shaft of one of said rollers, and an envelop-holder adjacent to and between said feeding device and one of said rollers.

4. In an envelop-sealer, a frame with side pieces, two parallel rollers journaled in said

side pieces and having connecting-gearing, operating mechanism for said rollers, a feed-30 ing and folding frame having a moistening device thereon, and provided with bearings movable in slots in said side pieces, pitmen connected with said bearings and with wheels on one of said roller-shafts, and pivoted rods 30 on which said feeding and folding frame is supported, said frame having a front lower edge opposite the space between said rollers.

5. In an envelop-sealer, parallel rollers, and a reciprocating feeding and folding frame having a concave front portion with a moistening pad thereon, and provided with a front lower edge opposite the space between said rollers.

6. In an envelop-sealer, a frame with two parallel rollers thereon, a feeding and fold-49 ing device suitably supported, in front of said rollers and mechanism substantially as described, connected with one of said rollers and with said feeding and folding device for rotating said rollers and reciprocating said feed-50 ing and folding device in unison.

Dated March 7, 1898.

LYCURGUS E. PANGBURN.

Witnesses:

WALTER E. FRISBE, ASA C. BUSHNELL.