E. DELANO.

Addressing Machine

No. 196,340. Patented Oct. 23, 1877.

Fig: 1.

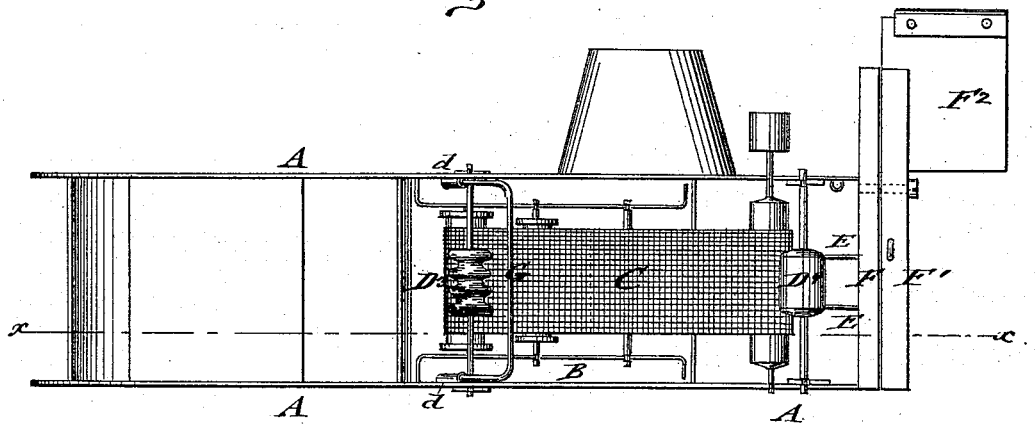


Fig: 2.

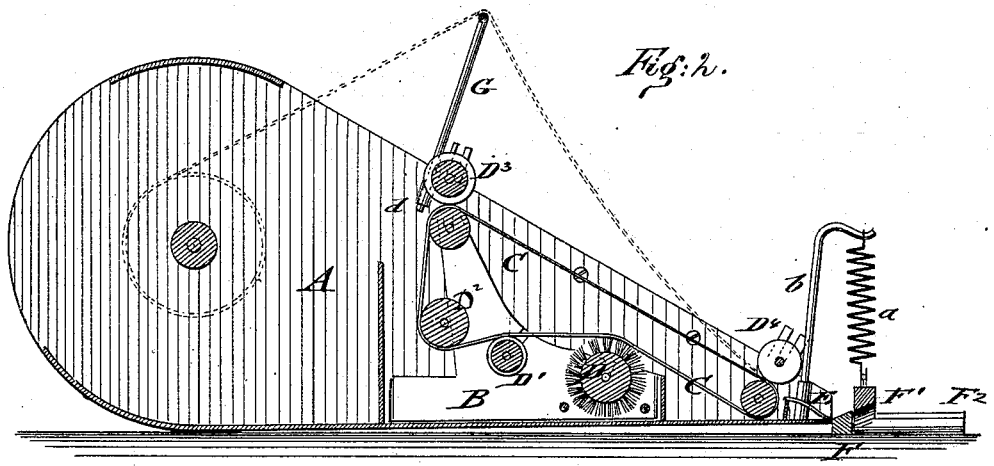
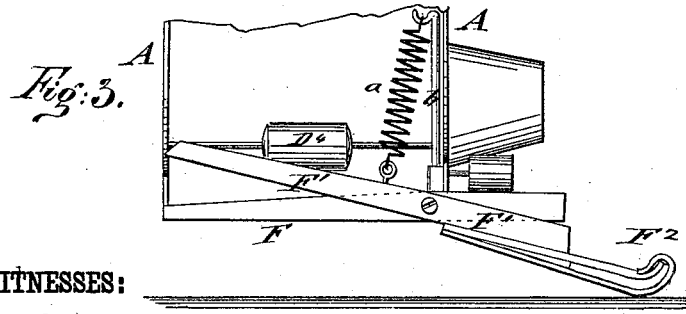


Fig: 3.



WITNESSES:

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EZEKIEL DELANO, OF GREENWICH, CONNECTICUT.

IMPROVEMENT IN ADDRESSING-MACHINES.

Specification forming part of Letters Patent No. **196,340**, dated October 23, 1877; application filed September 10, 1877.

To all whom it may concern:

Be it known that I, EZEKIEL DELANO, of Greenwich, county of Fairfield, and State of Connecticut, have invented a new and Improved Addressing-Machine, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a vertical longitudinal section on line *x x*, Fig. 1, of my improved addressing-machine; and Fig. 3 is a front view of the same, showing the cutting-shears and paper holding and moving pad.

Similar letters of reference indicate corresponding parts.

This invention relates to machines for addressing papers and packages in rapid and reliable manner without the sticking of the label-strip so as to clog the machine, and with the additional facility of moving the addressed papers or wrappers by means of the machine.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

Referring to the drawing, A represents the frame of my addressing-machine, which is provided at the rear part with a reel or roller for winding up the label-strip in the customary manner in these machines. At the middle part of the frame A is the paste-fountain B, from which the endless pasting-belt C takes up its supply of paste by means of a distributing-brush, D, and an equalizing-roller, D^1. The endless belt C is stretched over an upper and lower feed-roller, the lower roller imparting, by an outer pulley turned by the thumb of the operator, motion to the belt. A heavy roller, D^2, of lead or other material, is placed at the inner rear part of the belt C, to keep the same tightly stretched over the equalizing-roller and feed-rollers. The label-strip is conducted over the endless paste-carrying belt C, and retained thereon by a grooved roller, D^3, above the upper, and a pressure-roller, D^4, above the lower, feed-roller, the label-strip passing then over curved conductors E, of wire or other material, from the pasting-belt C to the stationary cutting-shear F at the front end of frame A. The movable shear F^1 is pivoted to the stationary cutter F, and, like the same, extended back of the pivot, being acted upon, in the customary manner, by a spiral spring, *a*, attached to a fixed arm, *b*, of frame A, so as to open for cutting off a piece from the label-strip containing the printed address. The rear part of the movable cutter F^1 is provided with a plate, F^2, being faced with rubber or other material, so as to form a kind of pad that not only presses upon the paper or wrapper to which the address-strip is to be pasted, so as to hold the same firmly simultaneously with the cutting off of the same from the label-strip by the shears, but which also admits the imparting of a side motion to the paper or wrapper at the same time with the cutting of the strips and pasting them on the paper or wrapper. The moving of the paper or wrapper by means of the pad of the addressing-machine saves the removing of the paper or wrapper by the hand, and admits the quicker cutting and pasting on of the address-strips on the papers or wrappers than with the present addressing-machines.

For the purpose of rendering the machine available for thick as well as thin label-strips without the annoyance caused by the soaking of the paper, and the consequent sticking of the knives and clogging of the same, an adjustable guide, G, is arranged laterally above the upper end of the feed-belt, and made to slide in sleeves *d*, being adjusted by a set-screw, or simply by friction in the sleeves to different height. When the label-strip is of heavy paper it is passed in between the upper contact or pressure roller D^3 and the belt, so as to be in contact with the belt over its entire length, and take up the required quantity of paste from the same. When the label-strip is of medium thick paper it is passed over the guide G, which has been raised about an inch above the belt, so that the label-strip forms contact with the belt for about one-half the length of the latter, more or less; but when very thin paper is used for the same the guide is raised to its full height, and the label-strip only brought in contact with the belt near the lower pressure-roller D^4, taking up just a sufficient quantity of paste to be easily cut by the shears, and then pasted in reliable manner to the paper or wrapper.

The conductors bridge over the space between the lower feed-roller of the pasting-belt and the shears, facilitating the cutting off of the address-strips in regular manner.

The addressing-machine may be worked by the addition of the pad, conductors, and guide in quicker and more reliable manner with a label-strip of thick or thin paper, the pasting of the same being regulated as described, and the papers or wrappers moved aside after cutting and pasting of the address-strips thereon at a considerable saving of time and labor.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the movable cutter in an addressing-machine, of the rubber-faced plate F^2, that serves to give a side motion to the paper as well as subserve the purpose of a pressure-pad, as set forth.

2. In an addressing-machine, the combination, with the paste carrying and supplying endless belt, of pressure-rollers arranged above the upper and lower feed-rollers, substantially as and for the purpose specified.

3. In an addressing-machine, the combination, with the paste carrying and supplying belt, of an adjustable guide-piece arranged near the upper end of the belt, substantially as described.

4. In an addressing-machine, the combination, with the paste carrying and supplying belt, and with the lower pressure-roller, of an adjustable guide-piece near upper end of belt, to facilitate pasting and cutting of label-strips of thin paper, substantially as described.

EZEKIEL DELANO.

Witnesses:

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C. SEDGWICK.