A. H. LONGLEY, Jr.

ADDRESSING-MACHINE.

No. 191,449. Patented May 29, 1877.

Fig. 1.

Fig. 2.

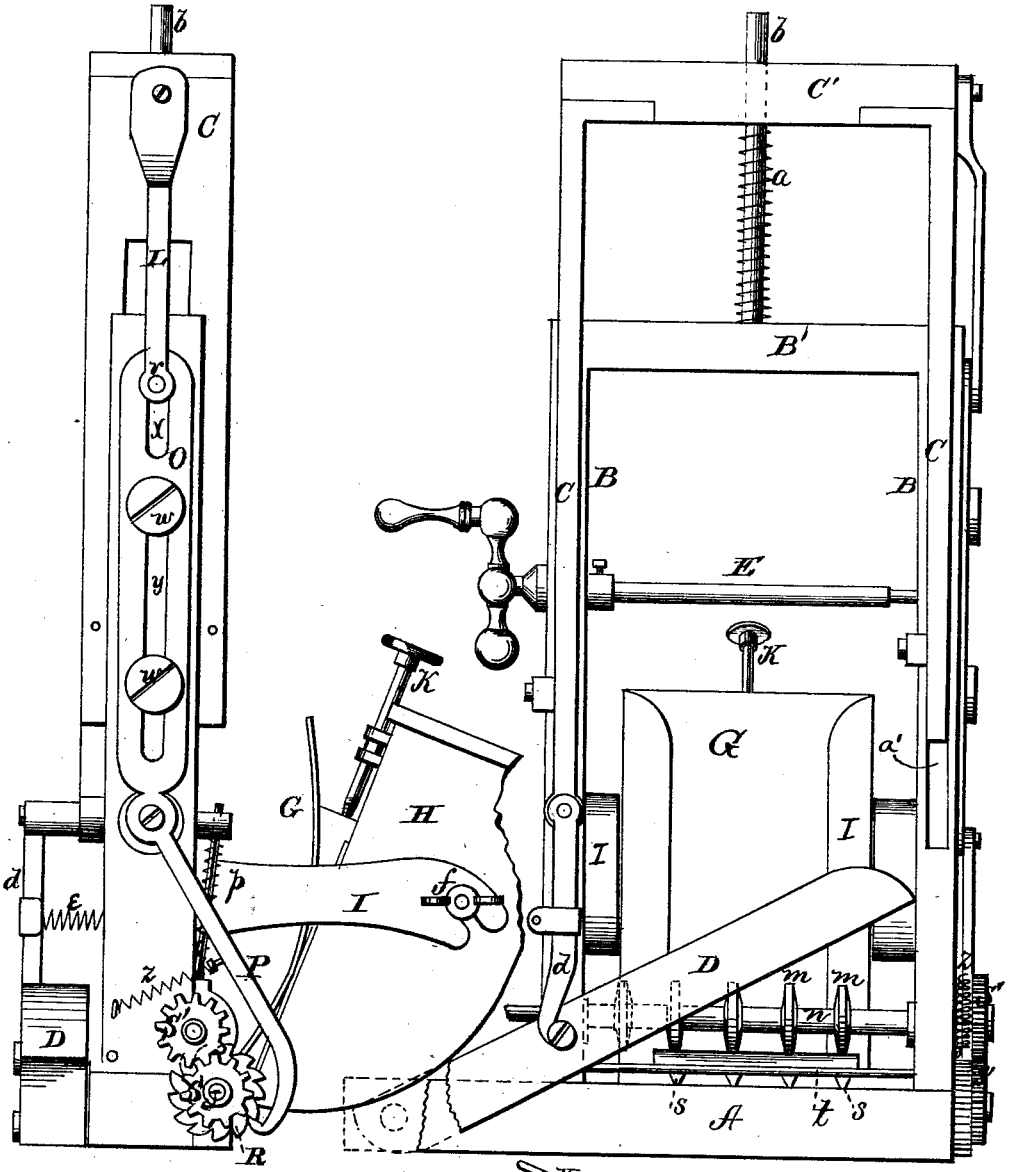
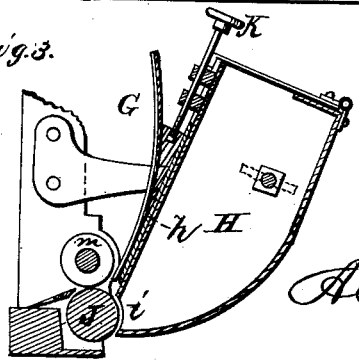


Fig. 3.



WITNESSES

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IMPROVEMENT IN ADDRESSING-MACHINES.

Specification forming part of Letters Patent No. **191,449**, dated May 29, 1877; application filed April 28, 1877.

To all whom it may concern:

Be it known that I, ABNER HIXEN LONGLEY, Jr., of Paola, in the county of Miami, and in the State of Kansas, have invented certain new and useful Improvements in Mailing-Addressers for Newspapers, Circulars, and other mailable matter; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of an addressing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 a front elevation, of my improved addressing-machine. Fig. 3 is a transverse section through the pasting device and paste-reservoir.

A represents the bed-piece, upon which are secured two vertical standards, B B, connected at the top by a cross-bar, B′. The front and rear edges of the standards B are formed with vertical grooves *a′*, and in the same are placed two forked arms, C C, which are connected at their upper ends by a cross-bar, C′, these arms and cross-bar forming a frame movable vertically up and down, while the standards B and cross-bar B′ form, with the bed-piece A, the stationary frame of the machine.

The frame C C′ is held upward by means of a spring, *a*, placed around a vertical rod, *b*, which is fast in the bar B′, and extends upward through a hole in the bar C′. On the front side of the machine one of the arms C is, at its lower end, by a pivoted bar, *d*, connected with a bar, D, of the same dimensions as the bed-piece A, and pivoted thereto at one end. When the frame C C′ is pressed downward the bar D is turned to lie close to and in front against the bed-piece A. The upper edge of the bed-piece A and the adjoining lower edge of the bar D are made sharp, to constitute shears for cutting off the strip to be pasted, and at the same time the bar D presses down the printed and pasted strip on the paper to be addressed. The bar D is held close against the front surface of the bed-piece A by means of a spring, *e*.

The roll of paper on which the addresses are printed is placed on a shaft or roller, E, having its bearings in the standards B B, and the end of the roll is passed down through a guide-plate, G, on the front of the paste-fountain H. This fountain is fastened by set-screws *f* between arms I I, projecting rearward from the standards B B. At the lower edge of the fountain is the mouth or discharge-opening *i*, which opening is brought close up to the horizontal pasting-roller J.

The opening *i* may be contracted or enlarged by means of a slide or gate, *h*, on the front of the fountain, operated by means of a screw-rod, K, and to this sliding gate the guide-plate G is fastened, so as to move up and down with the same. The paper passes through the guide H, over the pasting-roller J, and under a series of disks, *m m*, attached on a horizontal shaft, *n*, for feeding the paper forward. The amount of paste is regulated by means of the gate *h*, which allows the employment of paste of any consistency.

The bearings of the shaft *n* are operated upon by springs *p*, which allow the disks *m* to yield to any thickness of paper. As the paper passes over the pasting-roller J it moves over a series of points or teeth, *s*, and under a rod, *t*, to the shears above described, where the strip is cut off and pressed down upon the paper to be addressed.

The paper is fed by the following means: To the top of one of the side arms C is attached an arm, L, having at its lower end a pin, *v*, extending inward into a slot, *x*, in the upper end of a plate, O, which is held to the standard B by means of set-screws *w w*, passing through another slot, *y*, in said plate. At the lower end of this plate is pivoted a pawl, P, which is held by a spring, *z*, to engage with a ratchet-wheel, R, on the projecting end of the shaft *n*. This shaft is then, by gear-wheels S S′, connected with the journal of the paste-roller J.

When the frame C C′ descends, and just before it completes its downward stroke, the pin *v* moves the plate O downward for the pawl P to slide over the ratchet-wheel R, and at the return movement, just before such movement is completed, the pin *v* lifts the plate O, whereby the pawl P rotates the ratchet-wheel R a certain distance. This, of course, revolves the disks *m* and roller J sufficient to advance the paper one address, which is then ready to be cut off at the next downward movement.

The frame C C′ is operated by means of a treadle attached to it in any suitable manner.

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

1. In an addressing-machine, the combination of the fountain H, having mouth or opening *i*, slide *h*, guide G, and operating set-screw K, substantially as and for the purposes herein set forth.

2. The combination of the bed-piece A, movable frame C C′, connecting-bar *d*, pivoted bar D, and spring *e*, substantially as and for the purposes herein set forth.

3. The combination, with the roller J and shaft *n*, with its disks *m m*, of the frame C C′, pivoted bar D, arm L, with pin *v*, slotted slide O, pawl P, with spring *z*, ratchet R, and gears S S′, all constructed and operated substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of April, 1877.

ABNER HIXEN LONGLEY, JR.

Witnesses:

JOEL JACKSON,

WM. HOUCK.