A. H. LONGLEY, Jr.

ADDRESSING-MACHINE.

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

Fig. 1.

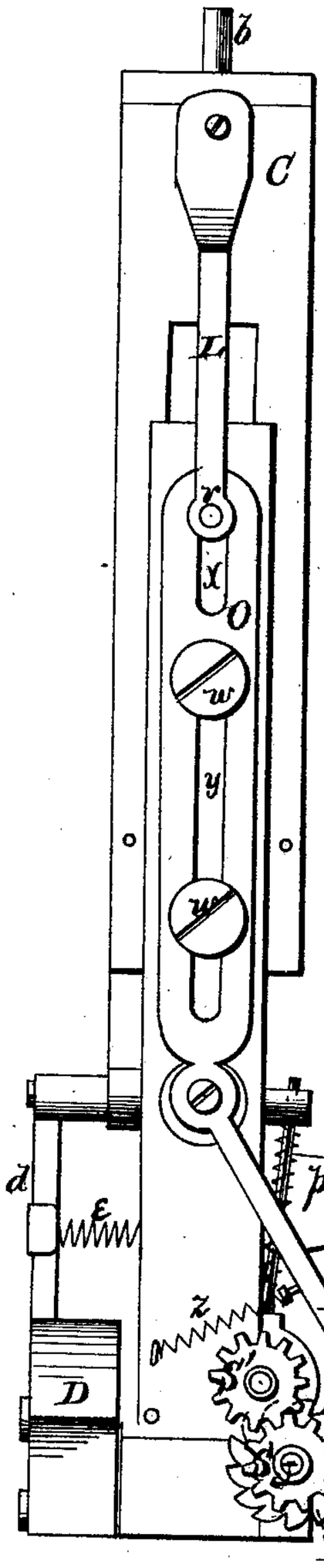


Fig. 2.

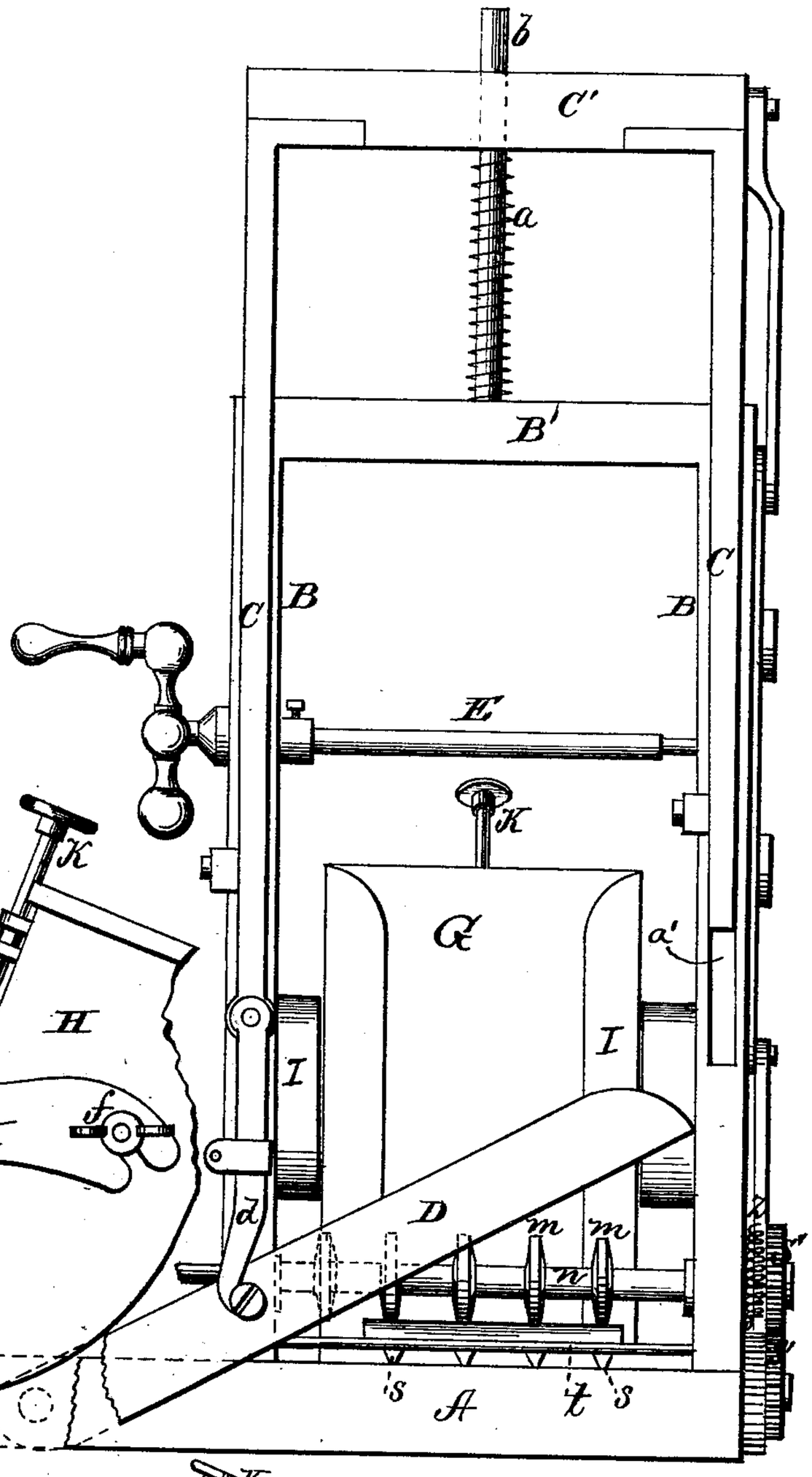
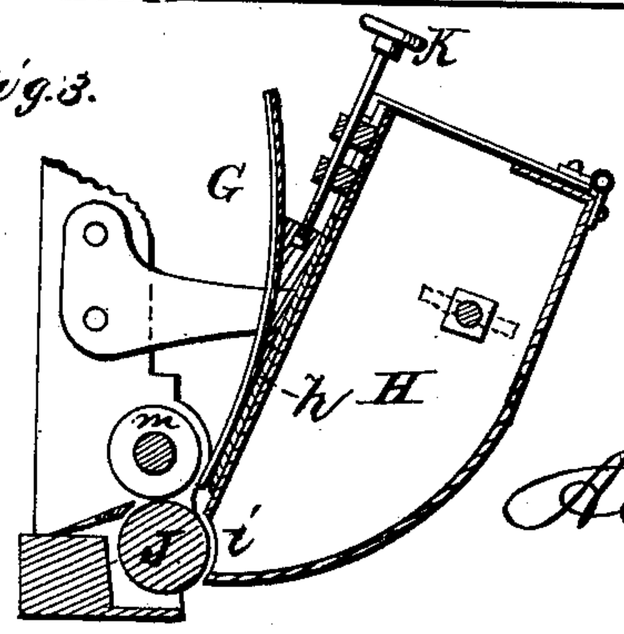


Fig. 3.



WITNESSES
Franck L. Durand
Frank Galt

INVENTOR
Abner H. Longley Jr
Alexander Medway
ATTORNEYS

UNITED STATES PATENT OFFICE.

ABNER H. LONGLEY, JR., OF PAOLA, KANS., ASSIGNOR TO MORRISON MUNFORD AND MARTIN MARSHALL MORRISON, OF KANSAS CITY, MO.

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.