

W. H. Clague
R. B. Randall

Mailing Machine.

No. 121,931.

Patented Dec. 19, 1871.

Fig 1.

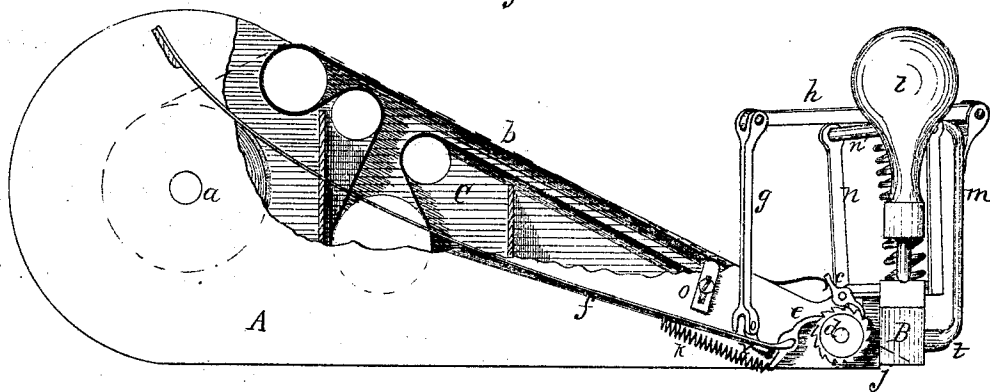
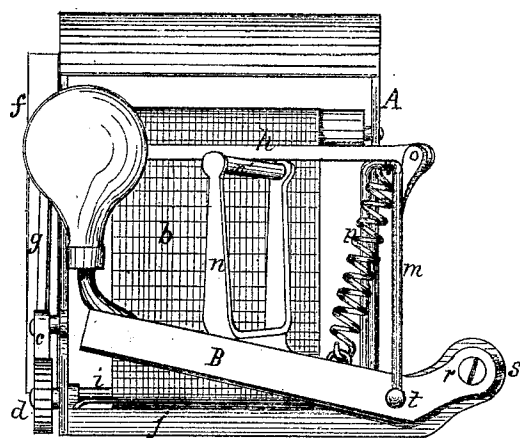


Fig 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. CLAGUE AND ROBERT B. RANDALL, OF ROCHESTER, NEW YORK,
ASSIGNORS TO THEMSELVES AND EZRA R. ANDREWS, OF SAME PLACE.

IMPROVEMENT IN ADDRESSING-MACHINES.

Specification forming part of Letters Patent No. 121,931, dated December 19, 1871; antedated December 2, 1871.

To all whom it may concern:

Be it known that we, WILLIAM H. CLAGUE and ROBERT B. RANDALL, of Rochester, in the county of Monroe and State of New York, have invented certain Improvements in Mailing or Addressing Machines, of which the following is a specification:

Our invention relates to certain improvements in a device patented by Robert Dick in 1859; and consists mainly in an attachment to render the advance of the printed strip of addresses to the knife automatic.

In the drawing, Figure 1 is a side elevation of our invention, representing some of the parts broken away. Fig. 2 is an end elevation.

The strips of printed matter are wound upon a cylinder, *a*, Fig. 1, and pass over the endless paste and feed-apron *b* to the knife *B*, which, when operated by the knob *l*, cuts off each name or address and presses it upon the periodical. The paste or cement is contained in a reservoir, *C*, through which the apron *b* is guided by suitable rollers, and the paste upon the upper side of such apron is communicated to the under surface of the printing-strip as it passes down to the knife. The device is supported by the left hand of the operator and the knife *B* actuated by his right hand, as fully described in the patent of said Dick.

In the construction of this machine we provide the spindle of the roller *i* with a ratchet, *d*, with which a pawl, *e*, engages, and also the retaining-dog *c*. The pawl *e* is pivoted either to a spring-bar, *f*, secured at one end to the frame of the machine, or to an arm swinging from the axis of the ratchet, and its working-point is retained in contact with the ratchet by the spring *k*. The feed-lever *h* is hinged at one extremity to the upright

m and linked at the other to the spring-bar or arm *f*. A lifter, *n*, is secured to the knife-bar, projecting upward so as to come in contact with the lever *h* when the knife is raised to the upper part of its movement. Thus the latter is entirely independent of the feed in the lower portion of its stroke, while as it is elevated it actuates such feeding device by means of the lever *h*. By this means two or more impulses may be given to the lever *h* and pawl *e* without completing the downward stroke of the knife-bar, whereby the printed strip may be fed along to any required distance before cutting off. The fixed stop *x*, Fig. 1, limits the descent of the lever *h* and bar *f*, and the adjustable stop *o* regulates the amount of the feed at each impulse. The spring *p*, attached to the upright *m*, lifts the knife-bar after its downward stroke, and also actuates the feed as said bar completes its upward movement. The knife *B* is pivoted to the cutting-back *j* at the point *t*, and an extension, *s*, is formed upon the cutting-back, against which an arm, *r*, of the knife bears. A set-screw is inserted in the arm *r*, its extremity resting upon the plate *s*, and by its adjustment the lateral sway of the knife away from the cutting-back *j*, caused by the wear of the parts, is compensated.

What we claim as our invention is—

In combination with the feed-ratchet *d*, arm *f*, and feed-lever *h*, the knife *B*, provided with the lifter *n*, constructed and arranged to operate substantially as and for the purposes set forth.

W. H. CLAGUE.
R. B. RANDALL.

Witnesses:

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DE L. CRITENDEN.

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