F. P. BATES.

ADDRESS PRINTING MACHINE.

APPLICATION FILED FEB. 27, 1917.

1,253,771.

Patented Jan. 15, 1918.

2 SHEETS—SHEET 1.

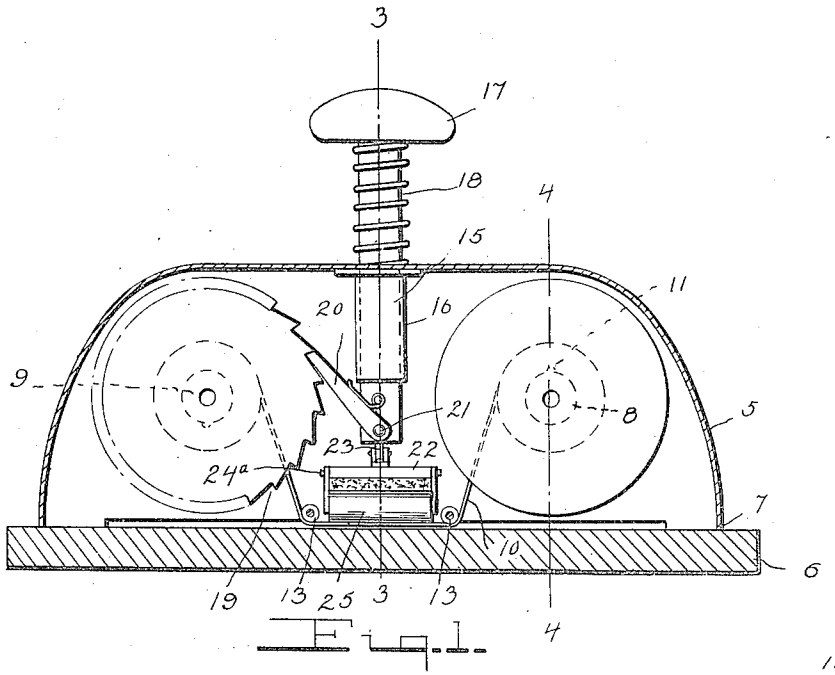


Fig. 1.

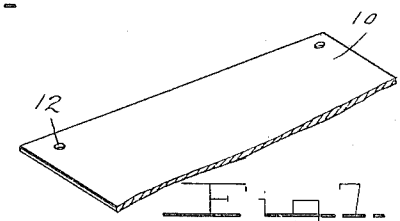


Fig. 7.

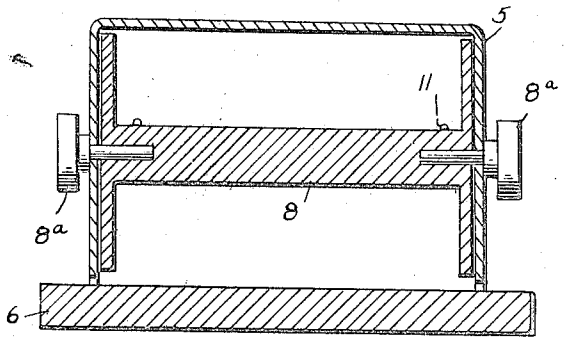


Fig. 4.

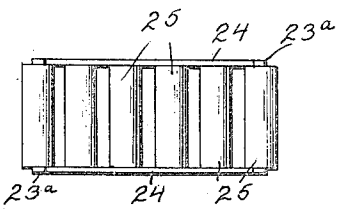


Fig. 5.

Witnesses

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2 SHEETS—SHEET 2.

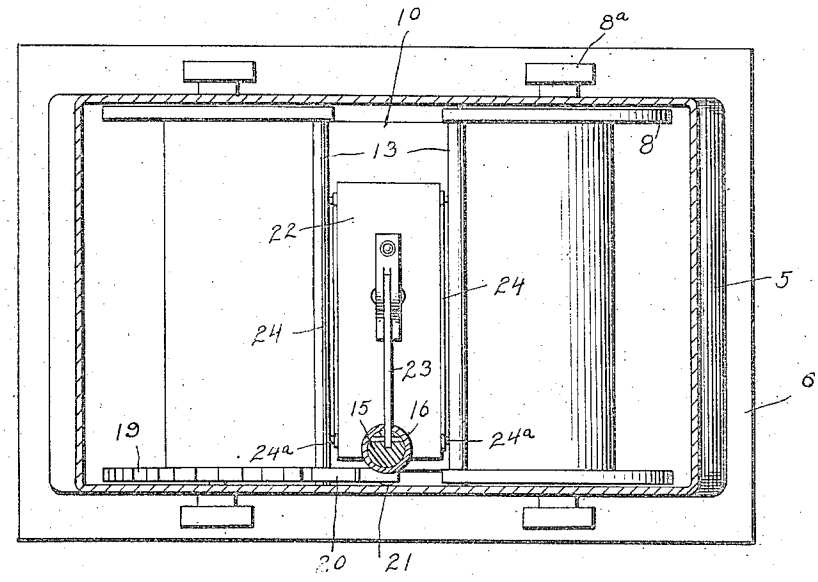


Fig. 2.

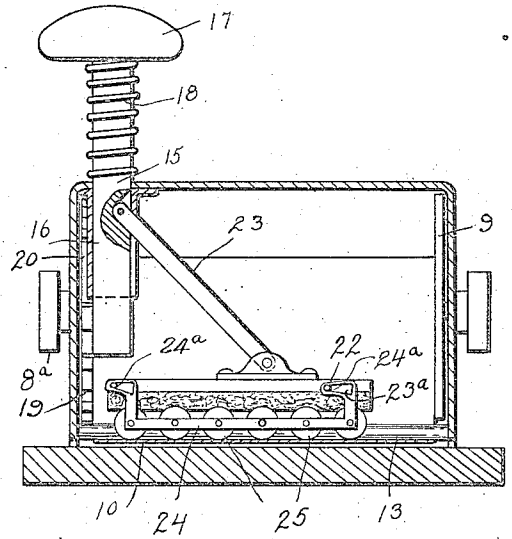


Fig. 3.

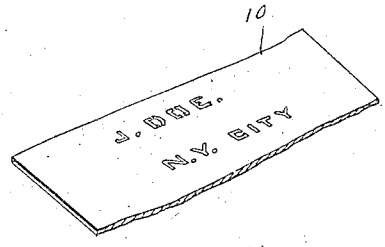


Fig. 6.

Witnesses

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FRED P. BATES, OF FILER, IDAHO.

ADDRESS-PRINTING MACHINE.

1,253,771. Specification of Letters Patent. Patented Jan. 15, 1918.

Application filed February 27, 1917. Serial No. 151,263.

To all whom it may concern:

Be it known that I, FRED P. BATES, a citizen of the United States, residing at Filer, in the county of Twin Falls and State of Idaho, have invented certain new and useful Improvements in Address-Printing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in printing machines of that type ordinarily used for printing addresses upon envelops and the like.

The invention has for its object to provide a simple and portable machine in which the stencil strip is automatically actuated by the slide rod which operates the inking rollers.

Another object is the provision of an address printing machine including a novel structure and arrangement of the inking pad and rollers, and means for actuating the rollers.

With these and other objects in view, the invention consists in the novel construction, combination and arrangement of parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawings, in which:

Figure 1 represents a longitudinal sectional view through the address printing machine,

Fig. 2 represents a horizontal sectional view therethrough,

Fig. 3 represents a transverse sectional view on the line 3—3 of Fig. 1,

Fig. 4 represents a transverse sectional view on the line 4—4 of Fig. 1,

Fig. 5 represents a bottom plan view of the group of inking rollers and the supporting frame therefor,

Fig. 6 represents a fragmentary perspective view of the stencil sheet or strip, and

Fig. 7 represents a fragmentary perspective view of one terminal of the stencil sheet.

Referring to the drawings in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates a housing which is supported upon a base plate 6 and is provided at its opposite ends with openings 7 adapted to receive the envelops or matter to be printed. Feed and receiving spools 8 and 9, respectively, are supported adjacent the opposite ends of the casing 5 and the opposite ends of a stencil strip 10 are secured to the spools 8 and 9 by lugs 11 carried by the spools and engaging in apertures 12 in the terminals of the strip 10. The stencil strip 10 is wound upon the feed spool 8 and is adapted, during intermittent rotation of the receiving spool 9 to be wound upon the latter, during the operation of the machine. A pair of guide rollers 13 are rotatably supported in the casing 5 between the spools 8 and 9 and the stencil strip 10 is extended under the guide rollers 13, which latter extend from one side wall of the casing to the opposite side wall thereof.

A slide rod 15 is movable vertically in a guide 16 carried by the casing 5 and is provided at its upper terminal with a knob or handle 17, forming an abutment for one terminal of a coil spring 18, the opposite terminal of which is engaged with the top of the casing 5 and normally retains the slide rod in elevated position. One flange of the receiving spool 9 is formed with ratchet teeth 19, which are engaged by a spring actuated pawl 20, pivotally secured at 21 adjacent the lower terminal of the slide rod 15, whereby during the upward or return movement of the rod under the influence of the spring 18 a rotary step by step movement is imparted to the receiving spool 9, so as to wind a portion of the stencil strip thereon. During the downward movement of the slide rod 15 the pawl 20 moves idly over the ratchet teeth 19.

An inking pad 22 having its inking surface disposed downwardly, is arranged in the space between the guide rollers 13 and is pivotally connected with one end of a link 23 and pivotally connected at its opposite terminal with the slide rod 15, whereby a reciprocatory movement is imparted to the inking pad 22 during vertical movement of the slide rod. A supporting frame consisting of a pair of side plates 24 is arranged under the inking pad 22, and is provided with upwardly directed and enlarged terminals having elongated slots 23^a therein, loosely receiving pins 24^a projecting laterally from the inking pad, whereby the frame is connected therewith. A series of inking and presser rollers 25 is rotatably supported in the frame and these are arranged intermediate the inking surface of the pad 22 and that portion of the stencil strip 10

which is disposed between the guide rollers 13.

In operation, the stencil strip 10 is initially wound upon the feed spool 8, by turning the knobs 8ª attached to the opposite ends thereof, and arranged exteriorly of the casing 5. When the first stencil of the strip is in position under the presser rollers 25, the envelop or other matter to be printed is inserted through the opening 7 in one end of the casing, and by a downward pressure upon the slide rod 15 the latter is depressed, thus moving the inking pad 22 and rollers 24 across the upper surface of the stencil sheet. When the slide rod is released, it is automatically elevated by the spring 18 and during its upward movement the pawl 20 engaging the ratchet teeth 19 imparts a rotary movement to the receiving spool 9, thus moving the strip 10 longitudinally and disposing the next succeeding stencil in proper position under the presser rollers 25.

What I claim is:

1. A device of the character described including a casing, feed and receiving spools rotatably supported in the casing, a stencil strip secured to the spools and adapted to be wound upon the receiving spool, guide rollers arranged between the spools, presser rollers arranged over the stencil strip, a vertically movable rod connected with the rollers for actuating the latter, and means controlled by said rod for intermittently rotating the receiving spool.

2. A device of the character described including a receiving spool, a stencil strip adapted to be wound upon the spool, ink applying rollers movable across the strip at right angles to the direction of travel of the latter, a rod for moving the rollers across the strip, and means controlled by the rod for intermittently rotating the spool.

3. A device of the character described including a receiving spool, a stencil strip adapted to be wound upon the spool, ink applying rollers movable across the strip at right angles to the direction of travel of the latter, a rod for moving the rollers across the strip, and means operable during the return movement of the rod to intermittently actuate the spool.

4. A device of the character described including a casing, feed and receiving spools rotatably supported in the casing, a stencil strip connected with the spools and adapted to be wound upon the receiving spool, a vertically movable slide rod, a plurality of presser rollers arranged over the stencil strip, and a link connecting the slide rod with the presser rollers.

5. A device of the character described including a casing, feed and receiving spools supported in the casing, a vertically movable slide rod mounted in the casing, a stencil strip secured to the spools and adapted to be wound upon the receiving spool, a frame, a link connecting the frame with the slide rod, means normally retaining the slide rod in elevated position, and a plurality of presser rollers supported in the frame and movable against the stencil strip.

6. A device of the character described including a base plate, a casing supported upon the base plate having work-receiving openings in the ends thereof, a stencil strip movably supported in the casing, an ink pad arranged in the casing, a frame movable relatively to the ink pad, presser rollers arranged under the ink pad, supported in the frame and engaged with the stencil strip, and a vertically movable slide rod connected with the ink pad.

In testimony whereof I affix my signature in presence of two witnesses.

FRED P. BATES.

Witnesses:
C. W. CASE,
ANDREW EDWARDS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."