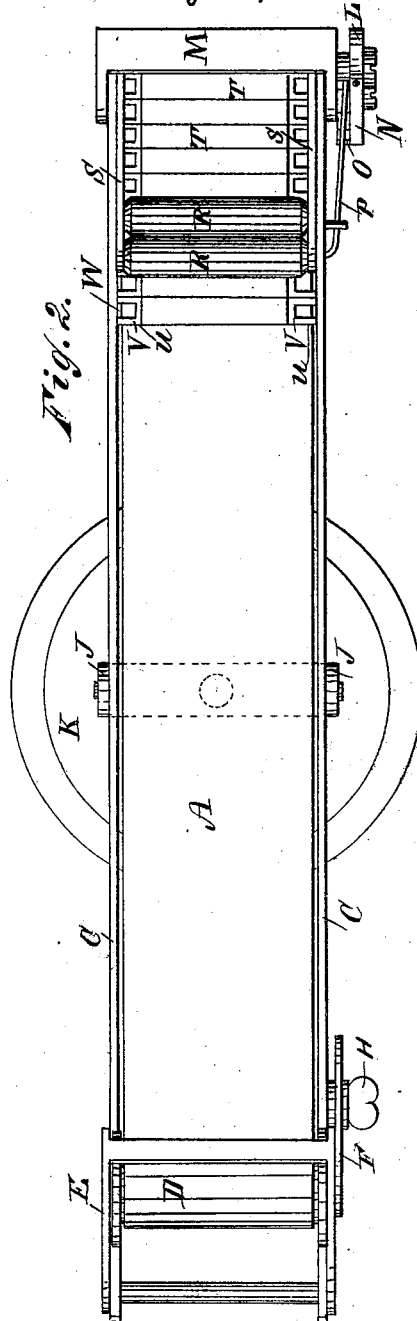
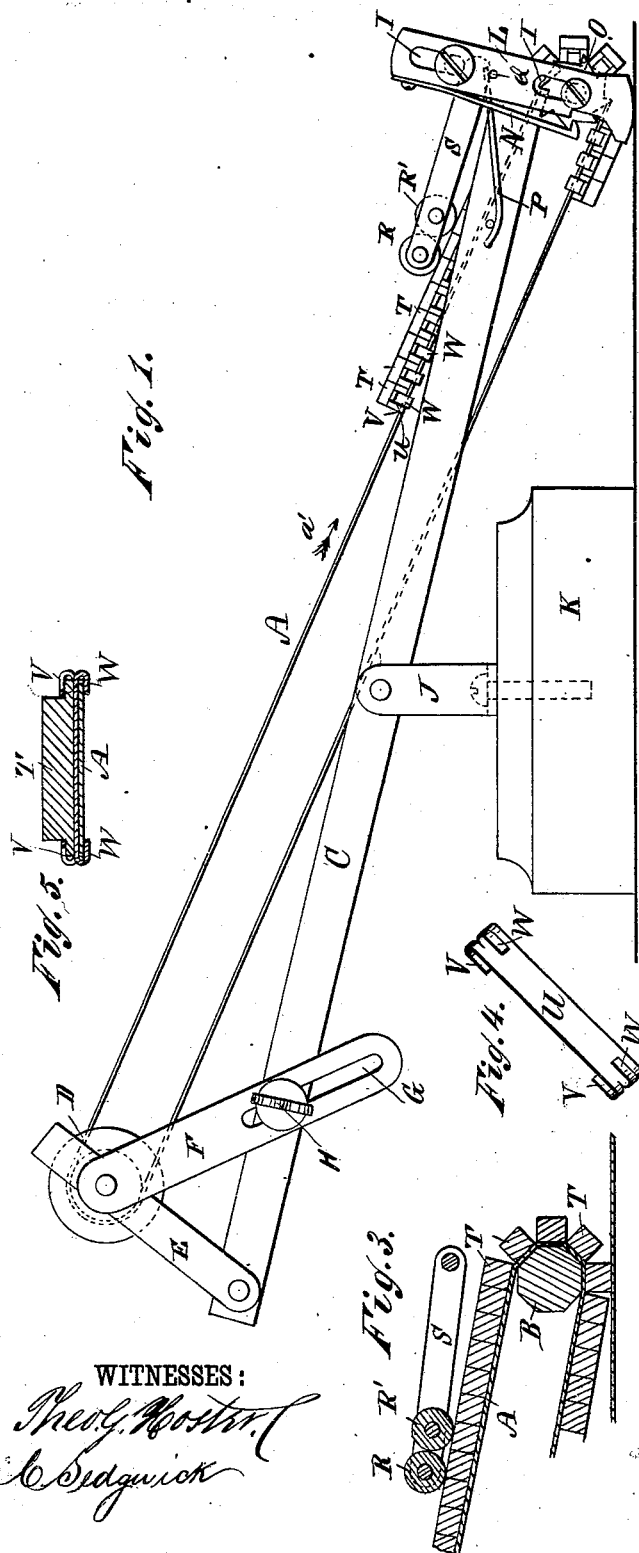


(Model.)

M. M. MORRISON.
ADDRESSING MACHINE.

No. 261,024.

Patented July 11, 1882.



WITNESSES:
Theo. G. Boston
C. Sedgwick

INVENTOR:
M. M. Morrison
BY *Mum & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

MARTIN M. MORRISON, OF KANSAS CITY, MISSOURI.

ADDRESSING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 261,024, dated July 11, 1882.

Application filed December 6, 1881. (Model.)

To all whom it may concern:

Be it known that I, MARTIN M. MORRISON, of Kansas City, in the county of Jackson and State of Missouri, have invented a new and Improved Addressing-Machine, of which the following is a full, clear, and exact specification.

The object of my invention is to facilitate printing addresses on newspaper-wrappers and on newspapers, and to reduce the cost and labor of making changes or alterations in the subscription-lists.

In this machine each address is formed upon and constitutes a separate type-block, of rubber or other elastic material. The type-blocks are secured separately but side by side and transversely upon the surface of an endless movable belt. The latter is arranged upon rollers with suitable mechanism in such a manner that by the act of pressing down one of the type-blocks, and thereby printing one address, the belt will be moved so as to bring a new type-block into position for printing, and thus all the addresses carried upon the belt can be successively printed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal elevation of my improved addressing-machine. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal sectional elevation of the printing end of the machine. Fig. 4 is a perspective view of one of the strips for holding the type-blocks on the belt. Fig. 5 is a cross-sectional elevation of the belt, showing the manner in which the type-blocks are secured on the belt.

An endless belt, A, passes over a polygonal roller or pulley, B, journaled in a stirrup, M, at one end of an oblong frame, C, and over a cylindrical roller or pulley, D, journaled in a U-shaped frame, E, pivoted to the opposite end of the frame C and provided with a pivoted brace, F, having its lower end provided with a slot, G, through which a thumb-screw, H, passes into one of the longitudinal bars of the frame C, by means of which brace F and screw H the frame E can be locked at a greater or less inclination to the frame C. The tension of the belt A can be adjusted by giving the frame E a greater or less inclination and

locking it in position. The frame C is pivoted to a fork, J, which is swiveled in a base, K.

A longitudinal standard, L, provided with two longitudinal slots, I, is held by screws to one of the shanks of the stirrup M, and on its inner longitudinal edge is provided with a spring-hook pawl, N, fastened to the standard L at the top of the same. The hooked end of this spring-pawl N engages with a ratchet-wheel, O, having as many teeth as the polygonal pulley B has sides, and which ratchet-wheel is fastened rigidly on the shaft of the pulley B between the shank of the stirrup M and the standard L. The lower end of the standard L is slightly rounded. After each depression the outer end of the frame C is raised by a spring, P, attached to the side bar of the frame C and resting on a stud, Q, of the standard L.

Two inking-rollers, R R', of rubber or analogous material are journaled in the ends of holders or arms S, pivoted to the shanks of the stirrup M, and these rollers R R' are inked in some suitable manner, and, as they rest loosely on the type-surface of the type-blocks T, they ink these type-surfaces.

The rubber or other elastic type-blocks T are held on the belt A by metal strips U, provided at the ends with clips V and W, of which the former are bent over the tops of the strips U and grasp the ends of the type-blocks T, which are thus held to these strips U, whereas the clips W are bent over on the under side of the strips and overlap and grasp the edges of the belt A, thereby holding the strips U to the belt A.

A proof of all the type-blocks on the belt can be taken by inking the belt and pressing it on a sheet of paper, or a proof can be taken by making an impression with each type-block T separately by means of the mechanism described.

The type-blocks are preferably made in the same manner that rubber stamps are made.

If desired, the device can be operated by machinery instead of by hand.

The operation is as follows: The type-blocks T are fastened to the belt A in the manner described, and this belt is passed over the rollers or pulleys B and D. The lower or rounded end of the standard L rests on the paper, and

if pressure is exerted on the stirrup M the same will move downward, and as the hook at the end of the spring-pawl N catches in the ratchet-wheel O the same will be revolved the distance of one tooth, whereby the belt A is moved in the direction of the arrow *a'* and the next type-block T is brought under the polygonal pulley, which presses this type-block upon the paper. Every time the stirrup M or lower end of the frame C is pressed downward a new type-block T passes under the polygonal roller or pulley B. As there are as many teeth in the wheel O as the roller or pulley B has sides, and as all the blocks T have the same width as the sides of the polygonal roller, the blocks T will be pressed accurately on the paper or wrapper and will give a clean and distinct impression or imprint. Preferably the blocks T remain on the belt, and the several belts are successively mounted in the frame C until all the addresses are printed.

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

1. The combination of the belt A, carrying type-blocks T, the polygonal roller B, the standard L, having a rounded end, the stirrup M, the spring-pawl N, having end hook, and the ratchet O, having a tooth for each side of pulley B, for the purpose specified.

2. In an addressing-machine, the combination, with the pivoted frame C, of the rollers B and D, the belt A, carrying type-blocks T, the pivoted frame E, the brace F, and the locking-screw H, substantially as herein shown and described, and for the purpose set forth.

3. In an addressing-machine, the combination, with the pivoted frame C, of the belt A, carrying type-blocks T, and of the fork J, swiveled in a base, K, substantially as herein shown and described, and for the purpose set forth.

4. In an addressing-machine, the combination, with the pivoted frame C, of the rollers B and D, the endless belt A, carrying type-blocks T, the ratchet-wheel O on the end of the roller B, the standard L, and the hooked spring-pawl N, substantially as herein shown and described, and for the purpose set forth.

5. In an addressing-machine, the combination, with the pivoted frame C, of the rollers B and D, the endless belt A, carrying type-blocks T, the ratchet-wheel O, the standard L, the hooked spring-pawl N, and the spring P, substantially as herein shown and described, and for the purpose set forth.

MARTIN MARSHALL MORRISON.

Witnesses:

CHAS. E. HASBROOK,
CHAS. H. WILLIAMS.