J. R. Little,

Cultivator Tooth.

No. 108,037. Patented Oct. 4. 1870.

Fig. 3.

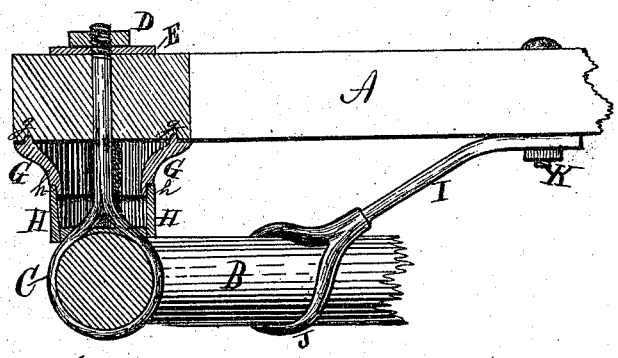


Fig. 2.

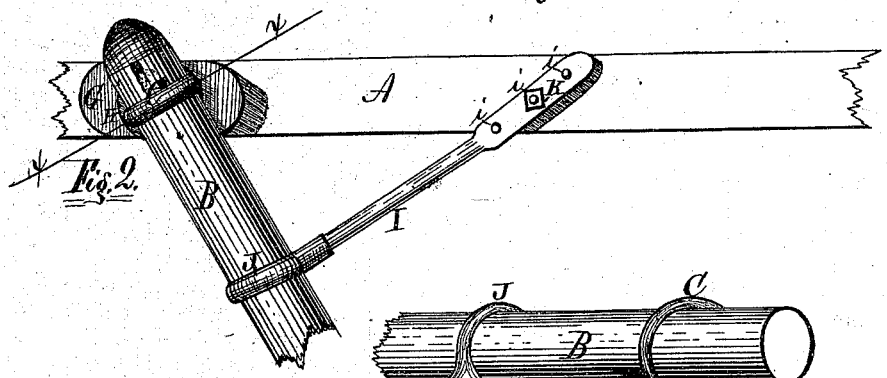
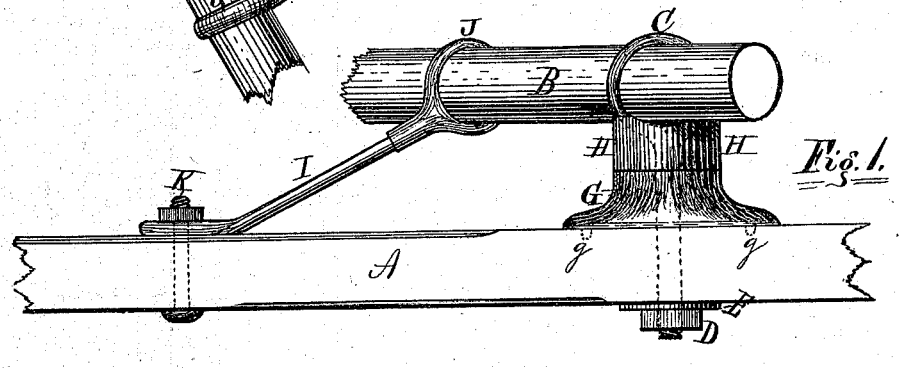


Fig. 1.



Witnesses:—

H. B. Bergen.
D. H. Clarke

Inventor,

James R. Little,
by W. S. Richards,
Atty.

United States Patent Office.

JAMES McFATRICK, OF LENA, ILLINOIS.

Letters Patent No. 108,038, dated October 4, 1870.

IMPROVEMENT IN ADDRESSING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES McFATRICK, of Lena, in the county of Stephenson and State of Illinois, have invented a new and useful Improvement in Addressing-Machine; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention has for its object the production of a machine capable of addressing newspapers, circulars, &c., and consists in certain details of construction, which will be fully described hereinafter.

In the drawing—

Figure 1 represents a plan view of my improved machine;

Figure 2, a rear elevation with the table in section; and

Figure 3, a side elevation with the table in section.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and method of operation.

A represents a table, of suitable size and height, which is supported in any proper manner.

I preferably employ, however, a single standard, *a*, supported upon a tripod, *a' a' a'*.

Below the table, near the floor, I provide a treadle-lever, B, the fixed end of which is attached to one of the legs of the tripod, as shown, the free end being guided in its movement by means of a slotted plate, *b*.

C represents a vertical rod, the lower end of which is attached to the treadle-lever in such manner as to permit the necessary play incidental to the movement of the latter. Its upper end passes through and above the table, as clearly shown in the drawing.

Upon the rod, at its lower end, but above the tripod, is located a spring, *c*, which is held in place by means of a collar, *c'* adjusted by a set-screw.

To this collar is also attached the lower end of the lever D, the upper end of which is slotted and attached to the long arm of the bent lever E, which is also slotted, the two being connected by means of a set-screw, in order to permit necessary adjustment.

The short arm of the lever E extends up into the table, and engages with a slot or notch in the slide F, to which latter it gives a reciprocating motion when the machine is operated.

f represents a pawl attached to said slide, which is operated in connection with a spring, in the usual manner.

The table is provided with a depression, which may be cut in the table itself, if desired, or otherwise suitably constructed, but should, however, be provided with a metallic or other bottom, in which the galley may slide without undue friction.

G represents the galley, which is constructed of zinc, or other suitable metal, and should be provided with a set-screw at one end, to hold its contents in place.

In the galley should be placed the type and slugs, as shown. These may be of metal or wood, as preferred.

H H represent slides, which cover the opening in the table, as shown. Their inner ends are provided with notches, so that an opening is left through them sufficient to expose a single line of type at one time.

The type used may be common newspaper type.

The slugs may be either metal or wooden, and may be short, similar to newspaper or job-slugs or quadrats, or long, extending the whole width of the galley.

The pawl (or dog) works in notches (or cogs) formed by the type and slugs, or the slugs may be extended over the edge of the galley, in which case they are furnished with a knob in the end, so that the pawl may work upon the type or slugs, as may be desired.

I represents a platen attached to the rod C, which rests over the opening in the slides, and is brought down upon the exposed type by the action of the foot-treadle. It is secured in place by means of a set-screw, in order that it may be adjusted at will.

The operation is as follows:

The operator being seated before the table with the newspapers or circulars before him, places them, one at a time, beneath the platen, and simultaneously operates the foot-treadle.

By this means the platen is depressed, and, consequently forces the paper beneath it upon the type below, from which it receives the required impression.

When the pressure upon the treadle is removed, the spring upon the rod C instantly causes it to rise, thus removing the platen from the type, and at the same time actuating the slide to move the galley forward. This is accomplished by means of the pawl, which presses against the type and moves it forward, the spring permitting it to pass freely back in its return movement.

The different parts of the machine may be adjusted as desired, to suit any special requirement.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the spring *c* and adjustable collar *c'* on the vertical rod C, with the lever D, slotted crank-lever E, and removable slide F, with its notch for the reception of the end of the lever, when the parts are arranged as described, for the purpose set forth.

This specification signed and witnessed this 22d day of February, 1870.

JAMES McFATRICK.

Witnesses:

WM. WINTER,

SAML. J. DODDS