

C. E. Donnellan. Sheet 1 of 2 Sheets.

Hand Stamp.

No. 109,882. Patented Dec. 6, 1870.

Fig. 1

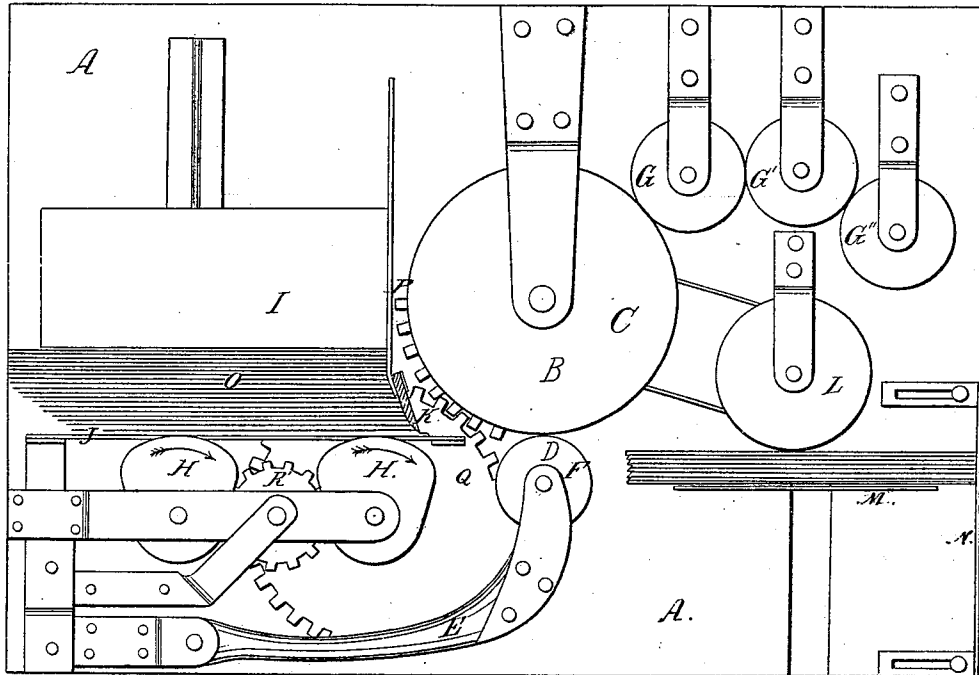
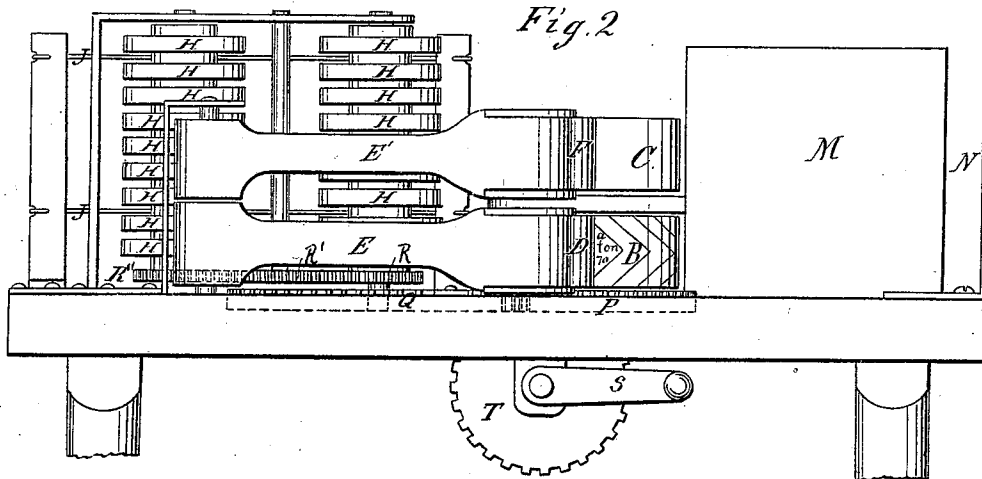


Fig. 2



Witnesses

T. B. Hornaday  
O. F. Mayhew.

Inventor.

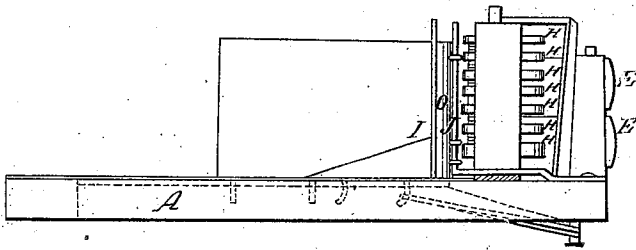
Charles E. Donnellan.

C. E. Donnellan. *Sheet 2 of 2 Sheets.*

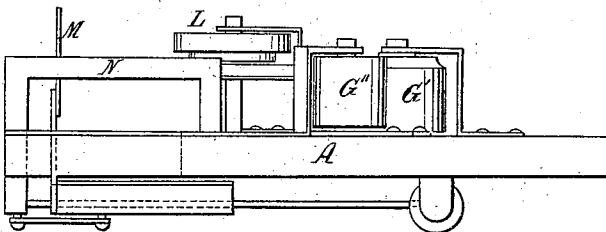
*Hand Stamp.*

*N<sup>o</sup> 109,882. Patented Dec. 6, 1870.*

*Fig. 3*



*Fig. 4*



*Witnesses*  
*A. A. Meadman.*  
*Ed. C. Smith*

*Inventor.*  
*C. E. Donnellan*  
*by*  
*Alexander Mason*  
*his Atty, S.*

# United States Patent Office.

CHARLES E. DONNELLAN, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO HIMSELF AND McCORD & WHEATLEY, OF SAME PLACE.

Letters Patent No. 109,882, dated December 6, 1870.

## IMPROVEMENT IN POST-MARKING STAMP-CANCELING MACHINES.

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

I, CHARLES E. DONNELLAN, of Indianapolis, in the county of Marion and State of Indiana, have invented certain Improvements in Machines for Post-Marking Letters and Canceling the Stamps thereon, of which the following is a specification.

### *Nature and Objects of the Invention.*

My invention consists in the combination and arrangement of a type-wheel or cylinder having the requisite post-mark and canceling-type fixed to its periphery; the inking device; the feed device, in which the letters are placed, and by which they are fed, one at a time, to the post-marking cylinder; and the receiving device, in which they are bunched, convenient for removal, all of which several parts are arranged and properly geared together, and operated by means of a crank, as will be described in detail hereafter.

The object of the invention is to post-mark letters and cancel the stamps thereon with greater rapidity and efficiency than heretofore.

### *Description of the Accompanying Drawing.*

Figure 1 is a top or plan view of a post-marking and stamp-canceling machine embodying my invention;

Figure 2 is a side elevation of the same;

Figure 3 represents an end view of the machine, where the letters are first placed; and

Figure 4, an end view of the machine, where the letters come out.

### *General Description.*

A is the table or frame-work, to which all the other parts are attached.

B, fig. 2, is the type-wheel or cylinder, having the requisite post-mark and canceling-type attached to its periphery. The type-wheel may be of diameter to contain one canceling-type to extend across the longest official envelope, or it may be large enough to contain two or more, as may be required.

C is a friction conducting-wheel, of the same diameter as the type-wheel B, placed above it, as shown, with space between it and the type-wheel for a band. There may also be a friction conducting-wheel similar to C below the type-wheel, if required.

D is a pressure-roll hung in an arm, E, to press the letters against the periphery of the type-wheel.

F is a pressure-roll hung in a similar arm, E', that holds the letters against the friction conducting-roll C.

The inking device consists of the distributing and inking-rollers G G', arranged similar to the inking apparatus of an ordinary printing-press.

The feeding device consists of the elastic rotating cams H, the compensating holder I, guide-wires J, and elastic stop K.

The receiving device consists of the friction conducting-wheel L, which is driven by a band from a pulley between the type-wheel B and friction conducting-wheel C, the compensating holder M, and the adjustable stop N, the latter being arranged to adapt it to letters of various length.

The letters are bunched in convenient parcels, and are placed in the feeding device, as shown at O, between the guide-wires J and the compensating holder I, the latter being held against the letters by means of a spring or, preferably, by a weight, so that the pressure will be the same for any number of letters. The compensating holder I holds the letters firmly against the guide-wires J, and the rotating elastic cams H drive the one next the wires forward until it is taken hold of by the friction conducting-wheel C and pressure-roll F, which, together with the type-wheel B and pressure-roll D, carries it through between the type-wheel and pressure-roll, where it is post-marked and the stamp canceled. The forward end of the letter is then caught between the rotating friction conducting-roll L and the compensating holder M, and driven forward against the stop N, where they are bunched as when placed in the feed device.

The object of the stop K is to prevent but one letter passing out of the feed device at a time, and this may be adjusted so as to adapt it to letters of various thickness.

The feed-cams are rotated from a cog-wheel, P, below and on the shaft of type-wheel B, which gears with a similar wheel, Q, on the lower end of the shaft of the set of feed-cams nearest the type-wheel.

A smaller cog-wheel, R, just above wheel Q, gears with an idler, R', and this again with a cog-wheel, R'', on the shaft of the first set of feed-cams H, so as to rotate them both in the same direction, as indicated by the arrows on fig. 1.

When the type-wheel B is furnished with but one post-marking and stamp-canceling type, it and the feed-cams H and friction conducting-wheel L of the receiving device are geared to revolve at the same speed, or to make the same number of revolutions, so that they will be uniform in their action in feeding, post-marking, and receiving the letters. But when the type-wheel has two or more post-marking and canceling-types, the feed-cams will have to be geared to rotate two or more times faster to correspond.

By making the type-wheel of large dimensions, and placing on its periphery but one post-marking and canceling-type, several feed and receiving or bunching devices may be employed, by which means the post-marking of letters and the cancelation of the stamps thereon, may be greatly expedited. The feed devices may be adjusted to letters of various thickness, and the receiving device to those of various length.

Where there are several feeding devices, it will be

necessary to have a separate set of inking-rolls for each.

I do not wish to confine myself to the horizontal position of the feed, printing, and receiving-wheels, as they may be made to operate vertically, if desired.

The machine is operated by means of a crank, S, on the shaft of which is a bevel-wheel, T, that gears with a bevel-wheel on the shaft of the type-wheel.

It will be understood that this machine can be made of sufficient size and adapted to print business and other cards, cards on envelopes, small posters, and other similar printing, as the arrangement and relation of the feed-cams H, guide-wires J, and flexible stop K are such that, by suitable adjustment of the stop K, the machine may be made to feed single sheets of thin paper or thick card-board with equal facility.

The wheel B may be provided on its periphery with a post-marking and canceling device, so that it can be readily removed and cleansed, and wheels bearing the months, days, and years on their periphery may be placed within the wheel B, so as to change the date as required.

I do not wish to confine myself to the cams H for carrying the letters forward, as this may be done by a

vibrating plate of rubber or other device. An air-pump may be used to cause the letters to adhere to the carrier-plate.

The canceling-type may be so constructed and applied to the wheel B as to print fine lines, of any desired pattern, over the face of the letter.

*Claims.*

I claim as my invention—

1. The combination of the elastic stop K, compensating holder I, wires J, and series of cams H, placed on vertical shafts, with spaces between the cams, substantially as and for the purposes herein set forth.

2. The guide-wires J, elastic stop K, and elastic rotating cams H, in combination with the pressure-rolls D F, type-wheel B, and friction conducting-wheel C, substantially as and for the purposes herein set forth.

3. The receiving device, consisting of the friction conducting-roll L, compensating holder M, and adjustable stop N, arranged substantially as set forth.

CHARLES E. DONNELLAN.

Witnesses:

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O. F. MAYHEW.