

May 4, 1926.

P. O. LIEN

1,583,403

ADDRESSING HAND STAMP

Filed July 14, 1924

Fig. 6.

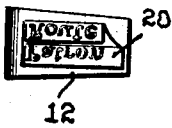


Fig. 1.

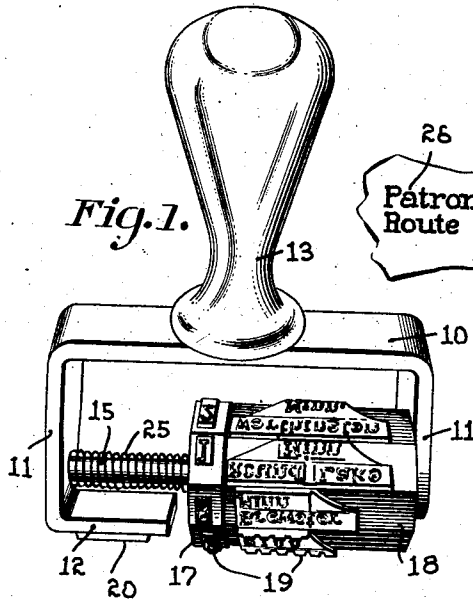


Fig. 7.

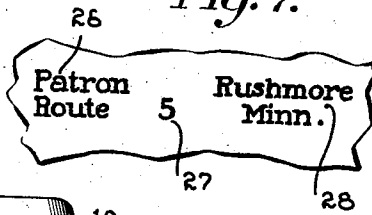


Fig. 2.

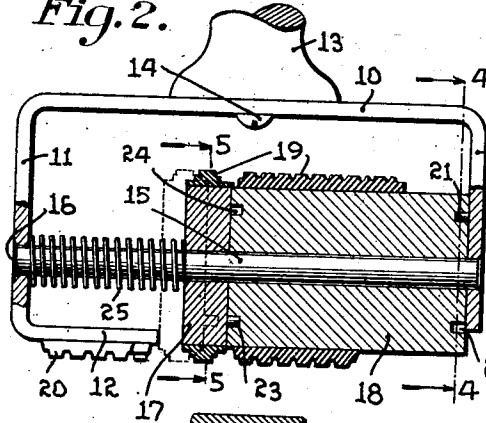


Fig. 3.

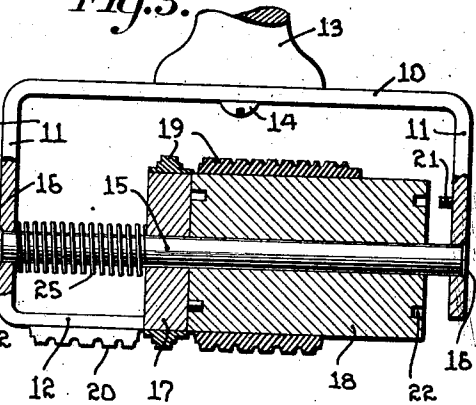


Fig. 4.

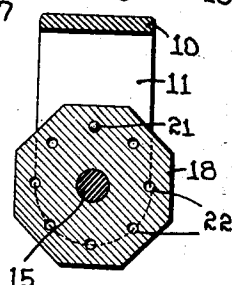
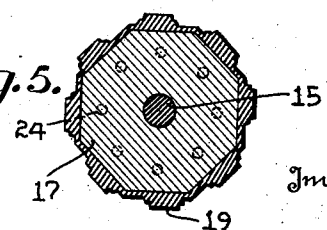


Fig. 5.



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1,583,403

UNITED STATES PATENT OFFICE.

PETER O. LIEN, OF WORTHINGTON, MINNESOTA.

ADDRESSING HAND STAMP.

Application filed July 14, 1924. Serial No. 725,907.

To all whom it may concern:

Be it known that I, PETER O. LIEN, a citizen of the United States, residing at Worthington, in the county of Nobles and State of Minnesota, have invented certain new and useful Improvements in Addressing Hand Stamps, of which the following is a specification.

This invention relates to printing devices and has special reference to a printing stamp of the class wherein a plurality of disks or drums bearing printing characters are mounted on a common shaft and are independently rotatable thereon so that any desired combination of the characters on the several disks may be brought into alinement for printing the combination.

Such devices have been constructed heretofore having the disks arranged to lock when adjusted, the locking being effected upon the disk being moved longitudinally on the shaft to a certain position the movement from such locking position of any disk being resisted by a spring contacting with the particular disk. With such construction each disk requires a separate spring so that there are as many springs as disks.

The principal object of the present invention is to provide a novel device of this character wherein the construction is so simplified that a single spring suffices to hold all of the disks in locked position, the construction nevertheless permitting free withdrawal of any disk from such locking position to permit its rotation.

With the above and other objects in view one form of the invention will now be described in detail and afterwards specifically pointed out in the claims, reference being had to the accompanying drawings, wherein:—

Figure 1 is a perspective view of the complete device.

Figure 2 is a section taken longitudinally through the lower part of the stamp, the disks being shown locked in full lines and one disk being shown in broken lines in its unlocked position.

Figure 3 is a section similar to Figure 2 but with both disks moved to unlocked position.

Figure 4 is a section on the line 4—4 of Figure 2.

Figure 5 is a section on the line 5—5 of Figure 2.

Figure 6 is a detail showing a face view

of the fixed or permanent portion of the stamp.

Figure 7 is a view showing the impression made by the stamp.

In the present embodiment the invention has been shown as especially adapted to stamp addresses for rural mail routes and to that end the device is provided with a U-shaped frame of bar metal having a base portion 10 and downwardly extending legs 11 whereof the extremity of one leg is provided with an inwardly extending foot 12 parallel to the base 10. Centrally of the frame base there is provided the usual handle 13 secured in position by a screw 14.

Between the legs 11 extends a shaft 15 which is suitably secured in position, as by having its ends riveted over at 16, and on this shaft is rotatably mounted the disks or drums, these being in this particular embodiment a disk 17 and a drum 18. For the purpose of generally grouping these devices both the disk and the drum will be termed "type-wheels" as they are each of polygonal form and have on their sides the printing type or characters 19. As will be readily understood the number of type wheels may be varied to suit the particular use for which the stamp is intended. For instance a dating stamp may have separate type wheels for the years, the months and two day wheels, one bearing the numbers 1, 2 and 3 and the other numbers from 0 to 9. However, such changes in construction being within ordinary mechanical construction it is not necessary here to illustrate the same.

Irrespective of the number of type wheels, these wheels are so arranged that they occupy the greater portion of the space between the inner end of the foot 12 and the opposed leg 11, room being left to afford sufficient movement of the wheels longitudinally of the shaft to permit unlocking thereof for rotation, the foot 12 thus acting as a stop as well as a support for fixed type 20. The leg 11 opposite the foot is provided with a locking or setting pin and the adjacent end of the drum 18 is provided with a series of recesses 22 corresponding in number and position to the several sets of type 19 on that drum. Similarly the adjacent ends of the disk and drum are provided with the locking pin 23 and the series of recesses 24. Between the disk 17 and the leg 11 carrying the foot 12 is provided a spring 25 which is coiled around the shaft

15 and is arranged to urge the type wheels into locking engagement with each other and with the opposed leg 11.

5 The device here shown has the type on the leg arranged to print the words "Patron" and "Route" as shown at 26 in Figure 7. The disk is provided with rural route numbers 27 and the drum carries city or town addresses as at 28 so that after im-
10 pressing the stamp as shown in Figure 7 it is only necessary to insert the name of the patron. In operation the route numbers may be changed by moving the disk to the left against the spring action as shown by
15 the broken lines in Figure 2 so that it is free from the drum and may then be rotated. When it is desired to change the city or town address both parts are moved as in Figure 3 and both turned to bring the proper
20 town name in position. The drum is then shifted back to locked position and the disk turned to set it for the proper route. Other forms of the device are set in like manner, all of the typewheels being moved to the
25 left and successively set from right to left.

Besides the changes in the number of type-wheels and the indications thereon other changes will also suggest themselves to those skilled in the art which will fall within the
30 scope claimed. Hence it is not my intention to limit the invention to the exact form here shown and described.

Having thus described the invention, I claim:—

35 1. In a stamp of the class described, a

frame having spaced legs, a shaft supported by said legs and extending between them, type wheels slidable and rotatable on said shaft, one end wheel and the adjacent leg being provided with slidably interlocking
40 positioning means, the adjacent end of adjacent wheels being also provided with slidably interlocking positioning elements, and a single coiled compression spring on said shaft and bearing at one end on the side of
45 the remaining end wheel and at its other end against the remaining leg, said last mentioned leg having its free end bent inwardly to form a stop for the wheels when they are moved to non-locking position. 50

2. In a stamp of the class described, a frame having spaced legs, a shaft supported by said legs and extending between them, type wheels slidable and rotatable on said shaft, one end wheel and the adjacent leg
55 being provided with slidably interlocking positioning means, the adjacent end of adjacent wheels being also provided with slidably interlocking positioning elements, and a single coiled compression spring on said
60 shaft and bearing at one end on the side of the remaining end wheel and at its other end against the remaining leg, and a foot on said last leg projecting towards the first leg and forming a stop for said wheels and
65 a type support.

In testimony whereof I affix my signature.

PETER O. LIEN.