March 10, 1931. R. M. DUGDALE 1,795,480

STAMPING DEVICE

Filed Nov. 2, 1929

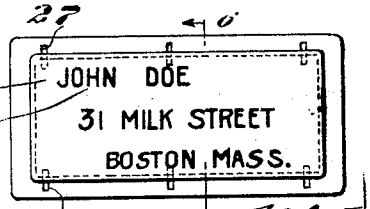


Fig. 5

Fig. 1

Fig. 2

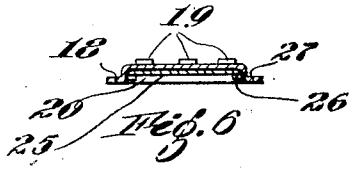


Fig. 6

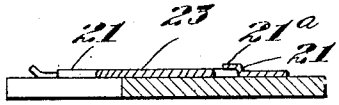


Fig. 4

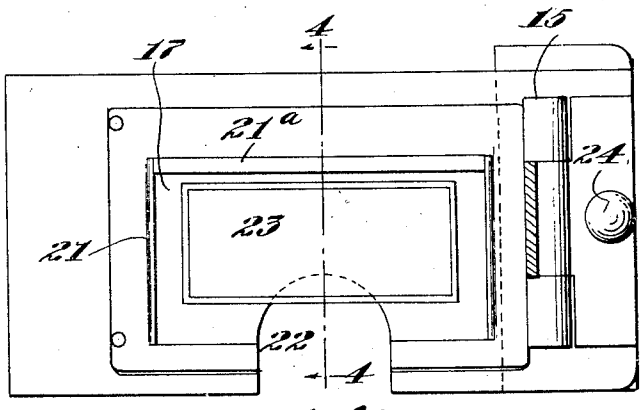


Fig. 3

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Richard M. Dugdale
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1,795,480

UNITED STATES PATENT OFFICE

RICHARD M. DUGDALE, OF DEDHAM, MASSACHUSETTS, ASSIGNOR TO FARRINGTON MANUFACTURING COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS

STAMPING DEVICE

Application filed November 2, 1929. Serial No. 404,290.

This invention relates to a device for printing indicia such as names and addresses on sales slips or the like by means of typographical plates of a kind suitable for use as identification tokens and adapted to be carried by individual customers.

One of the objects of my invention is to render a device of this kind capable of rapid operation. Another object is to provide a device of this kind in which the printing plate and sales slips to be printed are supported on a fixed part of the device, in which a printing plate may be quickly inserted, securely retained and quickly removed, and in which the movable part of the mechanism need not be touched or manipulated by hand except to operate a simple swingable handle associated therewith.

A further object of my invention is to provide a device of this kind which is adapted to retain a printing plate between sheets of a sales book and is provided with an impression mechanism movable in such a manner as to permit the easy positioning of the printing plate and the sheets to be printed. A still further object is to provide an improved base for supporting the device in a rigid manner and which is adapted to serve as a fixed guide for positioning a sales book in position to receive an impression on one or more of its leaves. Further objects of the invention relate to other features which are explained in the specification and accompanying drawings.

In the drawings:

Fig. 1 is a side elevation of the device with the cover plate of the casing removed;

Fig. 2 is an end elevation of the device on a smaller scale;

Fig. 3 is a plan of the plate holder;

Fig. 4 is a section on line 4—4 of Fig. 3;

Fig. 5 is a plan of a typographical plate adapted to serve as an identification token and suitable for use with the illustrated printing device; and

Fig. 6 is a section on line 6—6 of Fig. 5.

The apparatus which I have illustrated as an embodiment of my invention includes a base 11, a plate holder 12 rigid with respect to the base and spaced therefrom by a block 13, a casing 14 hinged to the plate holder at 15 and containing impression mechanism and ribbon feeding and reversing mechanism, and an operating handle 16 for swinging the casing and contained mechanism toward and from the plate holder 12 and for operating the impression mechanism and ribbon feeding and reversing mechanism.

The plate holder 12 is provided with a recess 17 for the reception of a typographical plate 18 such as shown in Figs. 5 and 6. Three of the edges of recess 17 in the plate holder 12 are provided with raised shoulders 21, one of which may have a flange 21^a to project over the recess for retaining the plate securely therein. The plate holder is further provided with a cut-away portion 22 to permit the plate to be grasped in removing it from the machine. If desired, a raised central portion 23 may be provided within the recess 17 of the plate holder to engage within a recess of the plate. The typographical plate 18 is adapted to carry on its upper side any suitable indicia 19, such as a customer's name and address, in raised letters in non-reversed order. Such a typographical plate is suitable for use as a customer identification token since the raised non-reversed letters thereon may easily be read. This plate is preferably formed from a flat blank which has its central portion struck-up to provide a recess 20 on its rear or lower side. A thin sheet of cardboard 25 carrying suitable identification or authorization data may be suitably secured within recess 20 by tongues 26 stamped from the plate adjacent its edges as shown at 27 in Figs. 5 and 6.

Casing 14 may be swung to the right in Fig. 1, away from the plate retaining means and around the hinge 15, until it contacts with a buffer 24. This may conveniently be accomplished by means of the operating handle 16. In this position the plate holder 12 is exposed, whereupon the typographical plate 18 may be inserted in the recess 17 and any desired sheet of paper or plurality of sheets with interposed carbon sheets may easily be placed upon the printing plate 18. My apparatus is particularly adapted to be used in connection with sales books and the

space between the base 11 and the plate holder 12 preferably is of a size sufficient to receive a portion of a sales book while one or more of the upper sheets of the sales book are placed above the plate holder 12 and upon the typographical plate 18, as shown in Fig. 2. The block 13 between the base and the plate holder serves as a fixed abutment and guide for the sales book.

The casing 14 may then be swung into the position shown in Fig. 1 wherein an inking ribbon 29 extending along the bottom of casing 14 is positioned adjacent the upper surface of the sheet of paper upon which the printing impression is to be made. Ribbon 29 is guided to and from the bottom of the casing by vertical ribbon guides 42, and is transferred back and forth between reels 40 and 41, carried on shafts 52 and 53, and associated with a suitable automatically actuated ribbon feeding and reversing tumbler 46. For a more detailed description of the ribbon actuating and reversing mechanism, my copending application of even filing date is referred to. An impression roller 28 is retained at its opposite ends in a stationary slotted guide 43 and is movable across the casing over the inking ribbon 29. A vertically disposed plunger 30 is connected by a pin and slot connection to the operating handle 16 and is normally urged toward the upper end of the casing by a suitable spring 31. The lower end of the plunger 30 is provided with a diagonal cam surface 32 which bears upon a cam follower 33 carried by a pivotally mounted roller yoke 36. This yoke is provided with slots 37 at its lower ends for retaining the journals 38 of the impression roller 28, and is normally held in the position shown in Fig. 1 by a spring 39. Downward movement of the operating handle 16 moves the cam 32 to swing the pivotally mounted yoke 36 to the left in Fig. 1 and causes the impression roller 28 to move horizontally across the casing in contact with and pressing downwardly on inking ribbon 29 to make the desired printing impression upon the sheet of paper superposed on the typographical plate 18. To print several superposed sheets carbon paper may be inserted between the sheets. By locating the printing plate at the back of the sheets to be printed the indicia is impressed on the sheets in proper order from a plate having the indicia in non-reversed order instead of the customary reversed order, thereby facilitating the use of the plate as an identification token as well as preventing the plate from being soiled by contact with the ink ribbon or carbon sheet.

This device is capable of rapid operation. Since the casing 14 will normally be swung back against the buffer 24 while the device is not in use, a considerable open space is left above the plate holder 12 which renders the insertion of a typographical plate in the recess 17 easy. Likewise the large open space above the plate holder 12 facilitates the placing of the upper leaves of the sales book upon the typographical plate and the plate holder. The placing of the typographical plate and the sales book in position for printing is facilitated by the construction which receives these parts upon the plate holder 12, rigid with respect to the base. In placing the typographical plate and the sales book in a position for printing, it is unnecessary to affix or position either of these articles with respect to any movable part of the mechanism. In this way either the typographical plate or the sales book may be inserted in the device by the use of a single hand. In swinging the casing 14 into printing position the handle 16 may be employed and after this operation a further movement of the operating handle 16 serves to actuate the impression roller. At the end of the impression stroke the casing may be swung back away from the typographical plate by means of the same operating handle. Due to this arrangement of parts the operating handle 16 is the only movable portion of the machine that needs to be touched in operating the device.

I claim:

1. A printing device comprising a base, a plate holder above said base and spaced therefrom, means on said plate holder for holding a printing plate in a predetermined printing position thereon, and an impression device above said plate holder including inking means and means for pressing downward on said inking means.

2. A printing device comprising a base, a plate holder above said base and spaced therefrom, means on said plate holder for holding a printing plate in a predetermined printing position thereon, and an impression device above said plate and movable as a unit toward and from said plate holder, said impression device including inking means and means for pressing downward on said inking means.

3. A printing device comprising a base, a plate holder above said base and spaced therefrom, means on said plate holder for holding a printing plate in a predetermined printing position thereon, a casing movable with respect to said plate holder, an inking ribbon extending along the bottom of said casing and a roller adapted to move over said inking ribbon.

4. A printing device comprising a base, a plate holder above said base and spaced therefrom, means on said plate holder for holding a printing plate in a predetermined printing position thereon, a casing movable with respect to said plate holder, an inking ribbon in the bottom of said casing, a roller adapted to move over said inking ribbon, and a handle for moving said casing into printing position and for actuating said roller.

5. A printing device comprising a base, a

plate holder above said base, plate retaining means on said plate holder for detachably retaining a printing plate in a predetermined printing position thereon, said plate holder being fixed to said base and said plate holder and base being spaced a distance sufficient to permit a portion of a book to be inserted therebetween, with another portion of the book above said plate holder and above a printing plate retained thereon, and an impression device above said plate holder pivotally mounted to swing toward one side of the plate retaining means to permit the easy insertion of a printing plate and the placing thereon of the paper to be printed, and adapted to swing to a position adjacent and over said plate retaining means.

6. A printing device comprising a base, a plate holder above said base, plate retaining means on said plate holder for detachably retaining a printing plate in a predetermined printing position thereon, said plate holder being fixed to said base and said plate holder and base being spaced a distance sufficient to permit a portion of a book to be inserted therebetween, with another portion of the book above said plate holder and above a printing plate retained thereon, and a casing above said plate holder pivotally mounted to swing toward one side of the plate retaining means to permit the easy insertion of a printing plate and the placing thereon of the paper to be printed, and adapted to swing to a position adjacent and over said plate retaining means, said impression device including inking means and means for pressing downward on said inking means.

7. A printing device comprising a base, a plate holder above said base, plate retaining means on said plate holder for detachably retaining a printing plate in a predetermined printing position thereon, said plate holder being fixed to said base and said plate holder and base being spaced a distance sufficient to permit a portion of a book to be inserted therebetween, with another portion of the book above said plate holder and above a printing plate retained thereon, and a casing above said plate holder pivotally mounted to swing toward one side of the plate retaining means to permit the easy insertion of a printing plate and the placing thereon of the paper to be printed and adapted to swing to a position adjacent and over said plate retaining means, an inking ribbon in the bottom of said casing and a roller adapted to move over said inking ribbon.

Signed by me at Boston, Massachusetts, this 31st day of October, 1929.

RICHARD M. DUGDALE.