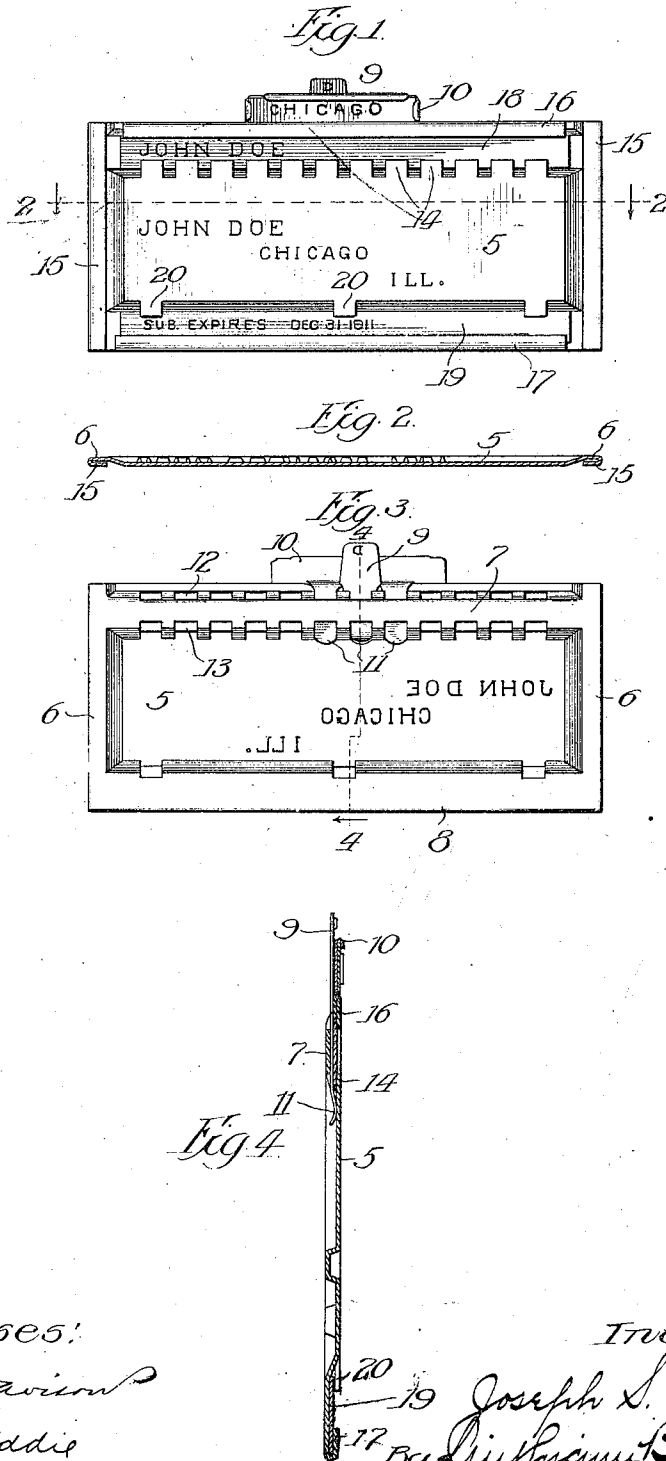


J. S. DUNCAN.
PRINTING DEVICE.
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1,015,757.

Patented Jan. 23, 1912.



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UNITED STATES PATENT OFFICE.

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PRINTING DEVICE.

1,015,757.

Specification of Letters Patent.

Patented Jan. 23, 1912.

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To all whom it may concern:

Be it known that I, JOSEPH S. DUNCAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Printing Devices, of which the following is a specification.

This invention relates to that class of printing devices in which the printing characters are stamped in relief on one side of a metal plate, the other side of the plate showing the printing characters in intaglio.

The object of this invention is to provide a printing device which is adapted to be arranged in accordance with a card index system with the intaglio side at the front so that the address stamped on the type may be employed for reference purposes.

A further object of the invention is to construct the device in a novel manner to protect the type characters and also to provide means for securing cards on the device to receive information of any desired character.

In the accompanying drawings illustrating what I now consider to be the preferred embodiment of the invention Figure 1 is a plan view of a printing device embodying my invention and showing that side thereof on which the type characters appear in intaglio and ordinarily considered the back of the device. Fig. 2 is a transverse sectional view. Fig. 3 is a plan view showing that side of the device in which the type characters appear in relief and ordinarily considered the front of the device. Fig. 4 is a transverse sectional view on the line 4-4 of Fig. 3.

The device is preferably stamped from a single sheet of metal and it comprises a centrally disposed panel 5 which may be of any desired dimensions but is preferably made as large as possible to accommodate an address of several lines. The panel is depressed in the front side of the device and the type characters are stamped in relief on that side so that they will be contained within the depression formed by this panel. There are elevated portions 6 at each end of the device, and elevated portions 7 and 8 at the top and bottom of the device, respectively, on the back thereof, which form a continuous border surrounding the panel and preferably elevated as high or higher

than the plane of the face of the type characters so that the latter will be protected by reason of their arrangement in the depressed panel and inclosed within the elevated border from injury in handling.

The device may be provided with index tabs of various kinds and I have shown it constructed to receive the tabs 9 and 10 of which the former may be used for alphabetical classification and the latter for geographical classification as set forth in my pending application Serial No. 594,024, filed November 25, 1910. These tabs are each provided with stems 11 which are adapted to engage openings 12 and 13 at the top and bottom of the elevated portion 7. I prefer to remove the metal entirely in forming the openings 12 but in forming the openings 13 the metal is arranged to form lips 14 on the back of the device for a purpose hereafter described. The openings 12 and 13 are arranged in pairs one above the other and as many pairs may be provided extending lengthwise of the portion 7 as desired. The tabs may be engaged with any of said openings, and, as shown in the drawings, the tab 9 may be located behind the tab 10, or it may be located in any of the other openings, as desired.

The edges of the device at the ends thereof are bent to form flanges 15 on the back of the device and the top and bottom edges of the device are bent to form flanges 16 and 17 respectively on the back of the device. A card 18 may be inserted beneath the flange 16 and the lips 14 and bear the name appearing on the address or any other information or data desired. Another information card 19 may be arranged beneath the flange 17 and lips 20 formed by striking up the metal at the juncture between the raised portion 8 and the panel 5. These cards are located in the depressions provided on the back of the device by the elevated border parts 7 and 8 on the front or printing side of the device and they are not only securely held in place on the device but they are protected against injury or defacement and nevertheless may be readily removed and replaced. These cards are useful in many ways and particularly where the address relates to a periodical subscription. The upper card may bear the name of the subscriber printed thereon, or

any other desired information, and the lower card may bear the date of expiration of the subscription. It will be observed that these cards may be readily replaced at comparatively little expense when the subscription is renewed and thus avoids the expense of renewing the entire device which would be necessary if the date of expiration was stamped directly upon the device itself.

- 10 This is simply one illustration of the usefulness of my device and in the many varieties of business in which the device may be employed the cards can be used for other purposes.
- 15 These devices are run through machines in which the address is printed upon envelopes, etc., and it is desirable, in view of the comparatively soft character of the metal necessarily employed, that they should be stiffened as much as possible to preserve their shape, not only for the addressing operation but also for storage purposes in accordance with the card index system. This stiffening is produced in my improved device by the panel, elevated parts and flanges and it is believed that the device will withstand all ordinary usage.

It will be observed that I utilize the intaglio side of the printing form for reference purposes and that the printing device as a whole is comparatively small in size. This size may be reduced if desired by omitting some of the features of the invention, such as the card 19 which will thereby permit the panel 8 to be greatly lessened in width. If other forms of index tabs are employed the card 18 may be omitted and the part 7 greatly reduced in width.

What I claim and desire to secure by Letters Patent is:

1. A sheet metal printing plate having a panel stamped therein, said panel being depressed in one face of the plate and projected at the opposite face of the plate, and printing characters on the depressed face of the panel, substantially as described.

2. A sheet metal printing plate having a panel stamped therein, said panel being depressed in one face of the plate and projected at the opposite face of the plate, and printing characters on the depressed face of the panel and projecting therefrom a distance not exceeding the depth of depression of the panel, substantially as described.

3. A printing plate consisting of an integral sheet metal strip having a panel stamped therein within the edges of the plate, said panel being depressed on one side and elevated on the other side of the plate, the marginal portion of the plate surrounding the panel constituting a spacer projecting beyond the depressed face of the panel, and printing characters stamped in relief on the depressed side of the panel and in intaglio on the elevated side thereof, said

printing characters projecting a distance beyond the depressed face of the panel not exceeding the projection of the spacer.

4. A printing plate comprising a sheet metal strip having a type form stamped in relief on one side thereof, and a card-receiving part on the other side of the plate depressed in the plane of the surface of said other side of the plate and lying at one side of the type form, substantially as described.

5. A printing plate comprising a sheet metal strip having a type form stamped in relief on one side thereof, and a card-receiving part on the other side of the plate depressed below the plane of the surface of said other side of the plate, said card-receiving part being located above the type form, and extending lengthwise of the plate, substantially as described.

6. A printing device comprising a metal strip having a type form stamped in relief thereon and a depressed part above said form on the back of the device, and means for retaining a card in said depressed part.

7. A printing device comprising a metal strip having a type form stamped in relief thereon and a depressed part above said form on the back of the device, a flange at the top and lips at the bottom of said depressed part to retain a card therein.

8. A printing plate comprising a sheet metal strip having a type form stamped in relief on one side thereof, and card-receiving parts on the other side of the plate depressed below the plane of the surface of said other side of the plate and extending lengthwise thereof, one card-receiving part being located above the type form, and the other card-receiving part being located below the type form, substantially as described.

9. A printing device comprising a metal strip having a type form stamped in relief thereon and a depressed part below said form on the back thereof, and means for retaining a card in said depressed part.

10. A printing device comprising a metal strip having a type form stamped in relief thereon and a depressed part below said form on the back thereof, a flange at the bottom and lips at the top of said depressed part to retain a card therein.

11. A sheet metal printing plate having a panel stamped therein, said panel being depressed in one face of the plate and projected at the opposite face of the plate, and printing characters on the depressed face of the panel, a portion of the plate which projects beyond the depressed face of the panel constituting a depressed card-receiving part on the opposite side of the plate, substantially as described.

12. A sheet metal printing plate having a panel stamped therein, said panel being depressed in one face of the plate and pro-

jected at the opposite face of the plate, and printing characters on the depressed face of the panel, a portion of the plate which projects in front of the depressed face of the panel constituting a card-receiving part, said card-receiving part being open for inspection of the card at that face of the plate which is opposite the printing face thereof, substantially as described.

10 13. A printing device comprising a metal strip having a type form stamped in relief thereon and depressed parts above and below said form in the back of the device, and means for retaining cards in said depressed parts.

15 14. A printing device comprising a metal strip having a type form stamped in relief on one side and appearing in intaglio on the other side thereof, and means on the intaglio side of the device for retaining a card in place thereon.

20 15. A printing device comprising a metal strip having a type form stamped in relief thereon and an elevated part above the form on the relief side thereof provided with openings, and a detachable tab adapted to be engaged with said openings.

25 16. A printing device comprising a metal strip having a type form stamped in relief thereon and an elevated border above the

form on the relief side thereof provided with a plurality of openings arranged in pairs, and a detachable tab adapted to be engaged with a pair of said openings.

17. A printing device comprising a metal strip having a depressed panel and a type form stamped in relief in said panel, an elevated part above the panel provided with a plurality of openings at its juncture with the panel and with oppositely disposed openings at the top of said elevated part, and a detachable tab adapted to be engaged with a pair of said openings.

18. A printing plate comprising a metal strip having a depressed panel and a type form stamped in relief therein, a stiffening border around said panel and stiffening flanges at the top, bottom and end edges of the device.

19. A printing plate comprising a metal strip having a centrally located depressed panel with type characters stamped in relief therein, an elevated stiffening border around the panel on the type side thereof, and stiffening flanges at the top, bottom and end edges of the device on the back thereof.

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