June 2, 1931. J. A. BAILEY 1,807,887

PRINTING DEVICE

Filed Nov. 30, 1927

Fig. 1

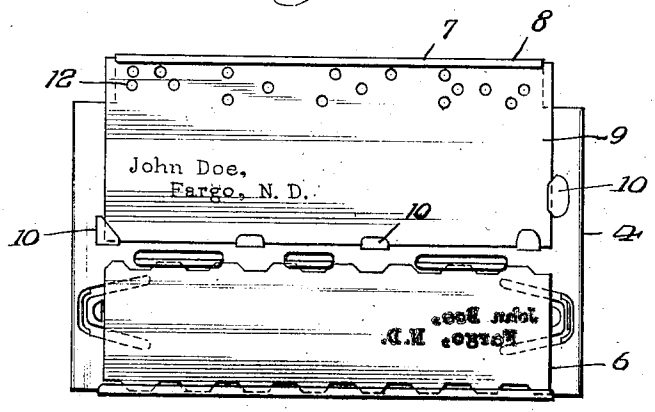


Fig. 2

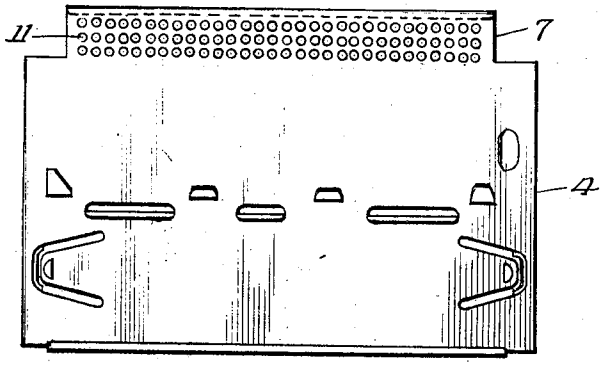
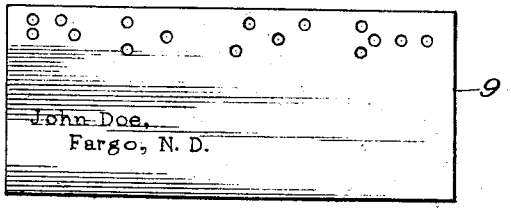


Fig. 3



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UNITED STATES PATENT OFFICE

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PRINTING DEVICE

Application filed November 30, 1927. Serial No. 236,656.

This invention relates to printing devices of that class which are adapted to be run through a printing machine for taking impressions therefrom and which are filed and stored in drawers or trays according to predetermined classification.

The printing machines have been provided with selector devices and the printing devices have been suitably designated by the provision of detachable tabs or other means whereby the printing devices are classified for filing and storing and are automatically selected for printing or for skipping as they pass through the machine. The extensive use of these devices and machines has created a demand for more specialized classification and selection.

The object of the invention is to provide a strong and substantial printing device having a frame standard for comprehensive classification and selection and provided with type characters and with a removable information card which is suitably designated for the specific classification and selection of the particular printing device.

Another object is to provide a standard frame with a plurality of openings concentrated in a relatively limited space adjacent the top of the frame, and a card removably secured on the frame over said openings and provided with a space to receive information data, the card also having certain openings above the information data which register with corresponding openings in the frame to designate the device for specified classification and selection, the location of the openings being important to avoid weakening the frame, to enable the designations to be easily read while the devices are filed in storage, and to provide a clear space for information data.

Referring to the drawings:

Fig. 1 is a front plan elevation of a printing device embodying the invention.

Fig. 2 is a back view of the printing device.

Fig. 3 shows the card detached from the frame.

Referring to the drawings 4 designates a frame which is provided with suitable devices for receiving and holding a detachable plate 6 which bears the printing characters in relief thereon.

The frame is provided at the top thereof and between its end edges with an extension 7 which has its top edge bent to form a retaining bead 8. A card 9 is detachably engaged with this bead and with other retaining devices 10 on the frame. The extension 7 is provided with a plurality of openings 11 and the card is provided with some openings 12 which register with corresponding openings 11 in the frame. The intention is to provide the extension with as many openings as can be conveniently made therein and a large number of openings can be provided because they may be made of small diameter and located close together. The extension constitutes, in effect, an elongated integral tab for the printing device and it may be filled with small openings without affecting the strength of the frame as a whole.

The card covers the openings 11 in the extension and is adapted to be provided with openings 12 registering with corresponding openings 11 so that selector means may pass through registered openings to select the printing device for printing or for skipping. By providing a great number of openings 11 it is possible by punching openings 12 in the card to provide a highly specialized classification in a great number of divisions and subdivisions because the openings 12 may be used in many combinations to produce many divisions and sub-divisions of classification. The invention has the further advantage of enabling the frame to be made in a standard form with a given number of openings 11 because the designation of each printing device for a certain classification is effected by suitably punching the card; and thus all of the frames of a customer's equipment may consist of this single standard and they may be used over and over again by replacing the printing plates and the cards. There is ample space for information data below the area of the card which covers the openings 11 in the extension and this information is readily observable to a clerk examining the printing devices in a tray or drawer, as cards of a card index system are commonly examined, for

checking, correcting, replacing and for other purposes. The openings 12 in the card may be used for classification purposes as well as for operation of selector means and the cards may be removed from the frames and run through a tabulating machine or used separately from the frame for any desired purpose.

It is the effort of the manufacturer to make these frames as light in weight as possible, but of sufficient strength to stand the usage to which they are subjected in ordinary handling and in filing and in passing through the printing machine, and because they are made of light gauge metal and are necessarily provided with some openings where the retaining devices are punched it is the desire to avoid impairing the strength of the frame by the provision of many additional openings in the body thereof, and this is one reason for providing the extension to receive the multiplicity of openings. By this construction the strength of the frame is maintained and the bead 8 reinforces and strengthens the extension. It will be apparent that the openings in the printing device provided by the openings in the card and the registering openings in the extension may be used for classification alone, for selection alone or for both classification and selection.

While I have contemplated using these frames as standard in a printing device equipment, because that seems to be desirable, it is apparent that the frames may be used in various ways in connection with old or other printing devices or frames thereof and provision may be made for using them thus for selection as well as for other purposes. I have shown and described the invention in a simple frame which is well adapted for the purpose, but I reserve the right to make all changes therein as fairly fall within the scope of the following claims.

I claim:

1. A printing device comprising a frame having an integral extension at the top thereof and spaced from the end edges of the frame, said extension being provided with a multiplicity of openings therein for classification or selection purposes and having its upper edge bent over to form a strengthening bead, retaining devices on the frame below said extension, and a card detachably engaged with said bead and retaining devices and covering all the openings in said extension, said card having one or more openings therein registering with corresponding openings in the extension.

2. A printing device comprising a frame having its upper edge portion forming an integral tab in the plane of the body of the frame and having a plurality of holes arranged in horizontal rows within the tab area, a retaining bead at the upper edge of the tab portion above the openings therein, a plate having printing characters embossed thereon, means for retaining the printing plate on the frame, an information card, and means including said bead for retaining the card on the frame above the printing plate, the card having its upper edge portion above the information area overlapping the tab portion of the frame and having one or more openings therein registering with corresponding openings in the tab portion of the frame.

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