July 7, 1931. J. C. PASCHALI 1,812,898

PRINTING DEVICE

Filed Nov. 2, 1928

Fig. 2.

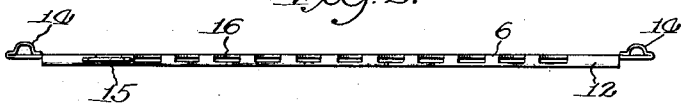



Fig. 1.

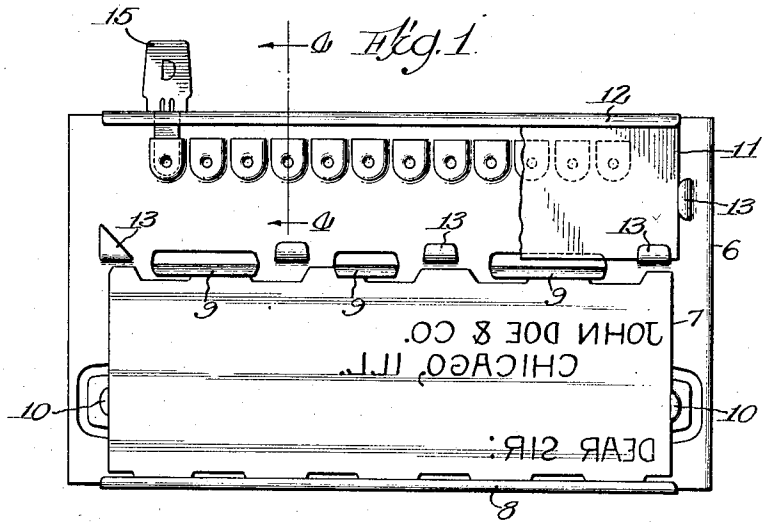



Fig. 4.

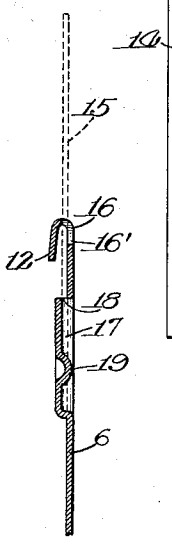
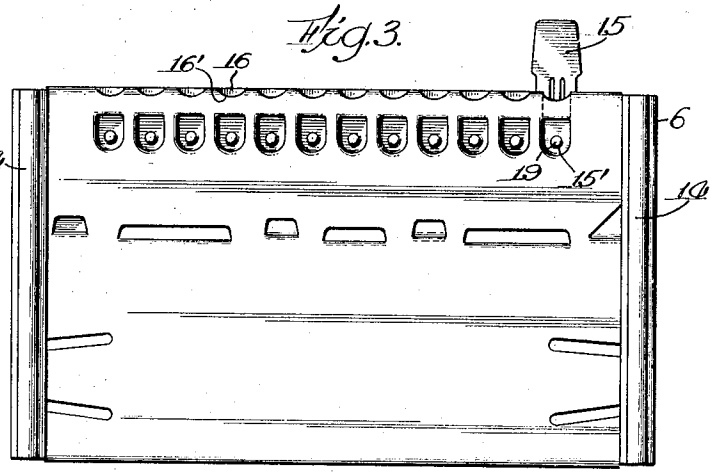



Fig. 3.




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# UNITED STATES PATENT OFFICE

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## PRINTING DEVICE

Application filed November 2, 1928. Serial No. 316,659.

This invention relates to printing devices of the kind which are adapted to be stored in trays or drawers in accordance with a predetermined classification and to be run through a machine for taking impressions therefrom.

The invention has for its object to provide novel means for securing a detachable index tab to the printing device whereby the tab will be held securely and fixedly in place.

Another object is to provide the printing device with novel and simple means for retaining a detachable tab thereon and which will permit easy engagement and disengagement of the tab.

Printing devices of this class have customarily been provided with end flanges on the back to space devices in a tray or drawer or magazine so that the type faces on one device will not be damaged by an adjacent device, and because the tab-retaining devices have generally projected beyond the plane of the back of the body of the device the spacing flanges have been made correspondingly large. A further object of the present invention is to provide a printing device without projections beyond the plane of the back of the device between the spacing flanges whereby the height of the spacing flanges may be reduced, the thickness of the printing device may also be reduced, and a greater number of printing devices may be stored in a tray or drawer or arranged in a magazine than has been customary heretofore.

The invention is adapted for printing devices of many different kinds including one-piece printing devices and those having a frame carrying a detachable printing plate with printing characters embossed thereon, and with or without an information card. I have selected for illustration a printing device comprising a frame carrying a detachable printing plate and a detachable information card. It will be understood that by this selection I do not limit the invention to this particular printing device but reserve the right to use it on any and all printing devices for which it is or may be adapted.

Referring to the drawings,

Fig. 1 is a front view of a printing device embodying the invention, the information card being broken away.

Fig. 2 is a top edge view of the printing device shown in Fig. 1.

Fig. 3 is a back elevation of the printing device.

Fig. 4 is a detail enlarged sectional view on the line 4—4 of Fig. 1.

Referring to the drawings, the printing device comprises a frame 6 and a printing plate 7 having type characters embossed thereon, the plate being detachably held on the front of the frame by the bottom edge bead 8, the lips 9 and the yielding locking devices 10. The information card 11 is detachably held on the front of the frame above the plate 7 by the top edge bead 12 and the lips and other retaining devices 13. Spacing flanges 14 are located on the back of the frame at the ends thereof so that when the printing devices are stacked one upon another or stored in upright position on their bottom edges in a tray or drawer the flanges 14 form spacers to prevent one frame from damaging the face of the printing characters on the plate of the next printing device. The ends of the beads 8 and 12 and the other retaining devices are spaced sufficiently from the end edges of the frame so that the spacing flanges on the back of one frame will engage the marginal end portions on the next frame without being obstructed by the retaining devices.

The frame is provided at its top with means for receiving a detachable tab 15 in any one of a plurality of positions or for receiving a plurality of tabs. This means is duplicated as desired across the frame at and adjacent to the top thereof and each of said means comprises a slot 16 at the top edge of the frame, a pocket 17 below the slot and spaced therefrom, said pocket being formed by a depression in the body of the frame from the back towards the front thereof, there being a slit 18 at the top of the pocket alined with the slot, and a stud or protuberance 19 in the pocket below the slit. The slot 16 is located back of the bead 12 and it is enlarged at 16′ on the back of the frame to provide a clearance for relief in the metal of which the frame is made. The metal of the frame de-

pressed to form the pocket 17 projects on the front of the frame but does not project beyond the retaining devices so that the information card will not be forced by these pocket projections above the surface plane of the retaining devices. The slot 16, the slit 18 and the pocket 17 are in alinement and the tab 15 may be inserted in the slot 16 and pushed downward with a direct push through the slit 18 into the pocket 17, and with sufficient force to cause the tab to ride over the stud 19 until it enters the opening 15′ in the tab. The tab is held on the frame in normal position without deflection and without tension and it is secured against accidental displacement by engagement of the stud with the opening 15′ in the tab. The construction is such that the tab is held firmly and securely in upright position, it is easily insertable and it can be removed by exerting sufficient pulling force or more easily by inserting a sharp instrument under the lower end of the tab to lift it so that it can be pulled over the stud. Heretofore the means which have been provided on a printing device for securing a tab in place have projected more or less above the plane of the back of the body of the frame and since the faces of the type characters on one frame are disposed opposite the back of another frame when the printing devices are stacked or stored it is necessary to provide the spacing flanges to prevent damage to the printing faces.

Any projections on the back of the frames make it necessary to correspondingly enlarge the spacing flanges so that these projections will clear the type faces of the next printing device. This has the effect of thickening the printing device and correspondingly limits the number which can be stored in a given space. By making the pockets and securing the tab in accordance with my invention the securing means and the tab will not project above the plane of the back of the body of the plate and the spacing flanges can be made correspondingly smaller or thinner, the thickness of the printing device will be correspondingly lessened, and a greater number of printing devices can be stored in a given space. While the reduction in thickness is comparatively little on a single printing device it amounts to considerable in the aggregate and will enable several more printing devices to be used in a magazine, tray or drawer of the dimensions now commonly used. And since these lists of printing devices often aggregate many thousands and sometimes many millions it is apparent that a reduction in the thickness of the device is a matter of considerable importance.

I have shown the invention in a form which is well adapted for the purposes intended in a printing device of the kind illustrated but it may be that changes in the form, construction, dimensions and arrangement of parts may be necessary or desirable to adapt the invention for other printing devices, or for other reasons, and I reserve the right to make all such changes as fall within the scope of the following claims.

In a one-piece printing device the type characters are embossed and the tab-retaining means are formed on the body of a single plate from which the device is made, whereas in the type of printing device illustrated herein the tab-retaining means are formed on a frame and the type characters are embossed on a separate plate detachably engaged with the frame. In the claims I will employ the word "body" to include the two types of printing devices.

I claim:

1. The combination of a printing device of the class described comprising a body, a detachable index tab, and tab-retaining devices struck up on the body and adapted to receive and hold the tab in fixed position, said retaining devices including a pocket depressed from the back of the body and receiving the end portion of the tab.

2. The combination of a printing device of the class described comprising a body, a detachable index tab, and tab-retaining devices struck up on the body and adapted to receive and hold the tab with the end of the tab engaging said retaining devices located at the back of the body and below the surface thereof.

3. A printing device of the class described comprising a body having a bead at the top edge thereof and a pocket depressed from the back of the body and spaced below the bead, the body having a slot at the bead and a slit at the top of the pocket and said slot and slit and pocket being alined to receive an index tab.

4. A printing device of the class described comprising a body having a bead at its top edge and on its front and a pocket depressed from its back and spaced below said top edge, there being a slot at the top of the bead and a slit at the top of the pocket and said slot and slit and pocket being adapted to receive an index tab and to hold said tab below the surface plane of the back of the body.

5. The combination of a printing device of the class described having a bead at its top edge and a pocket depressed from its back and spaced below said top edge, an outstanding stud in said pocket, there being a slot at the top of the bead and a slit at the top of the pocket, and a tab adapted to be inserted in the slot and slit and pocket and having an opening to receive the stud, that part of the tab located in the pocket being disposed below the surface of the back of the body and that part of the tab above the pocket being tightly held between the bead and the front of the body.

6. A printing device of the class described

comprising a body having a bead on its front at its top edge and flanges on its back at its end margins, there being a slot at said bead, a slit below the slot and a depressed pocket below the slit, said slot and slit and pocket being adapted to receive and hold the tab below the surface of the back of the body and said back surface between the end flanges being free from obstructions.

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