J. S. DUNCAN.

PRINTING DEVICE.

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1,026,253.

Patented May 14, 1912.

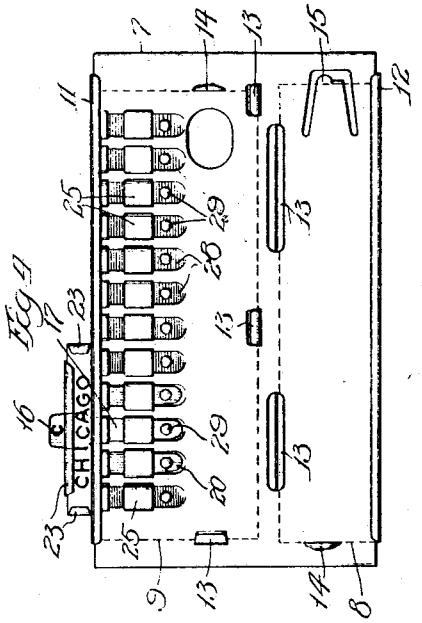



Fig. 4.

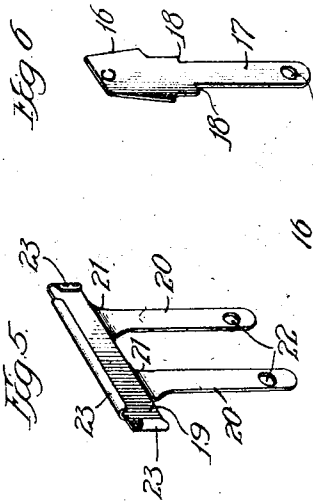


Fig. 6.



Fig. 5.

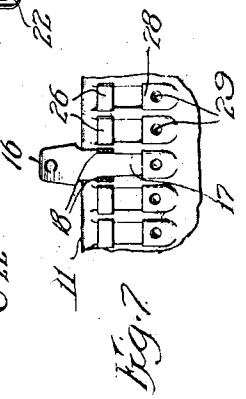


Fig. 7.

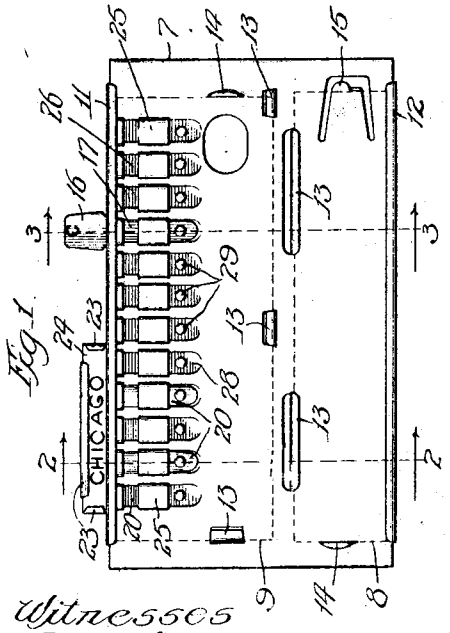



Fig. 1.

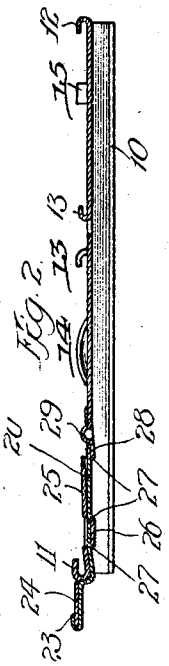


Fig. 2.

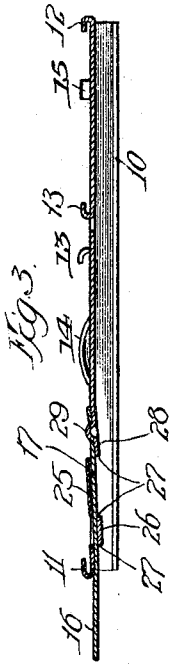


Fig. 3.

Witnesses
Ed. C. Gorrison
M. A. Keddie

Inventor:
Joseph S. Duncan
By Whittemore Bell & Fuller
Attys.

# UNITED STATES PATENT OFFICE.

JOSEPH S. DUNCAN, OF CHICAGO, ILLINOIS, ASSIGNOR TO ADDRESSOGRAPH COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

## PRINTING DEVICE.

1,026,253. Specification of Letters Patent. Patented May 14, 1912.

Application filed November 25, 1910. Serial No. 594,024.

*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 printing devices of that class which comprises a printing form and an information card carried by a frame and adapted to be stored in accordance with a card index system, or stacked in a pile, and run through an addressing, or other printing machine, for taking an impression from the form. To adapt the device for a card index system it is desirable to provide detachable tabs which may be readily engaged with or removed from the device for the purpose of classifying them, for example, alphabetically and geographically, or otherwise, as conditions may require.

The object of this invention is to provide a printing device of this general character with one or more detachable tabs adapted to be readily engaged with the frame and positioned thereon so that the tabs on the devices in a drawer or tray can be easily read and examined.

A further object of the invention is to provide for the arrangement of two tabs on the frame, one in front of the other, whenever it may be necessary.

In the accompanying drawings illustrating my invention Figure 1 is a front elevation of a printing device embodying the invention, showing two tabs separated. Figs. 2 and 3 are sectional views on the lines 2—2 and 3—3 of Fig. 1 respectively. Fig. 4 is a view similar to Fig. 1 showing the alphabetical tab located behind the geographical tab. Fig. 5 is a detail view of the geographical tab and Fig. 6 is a similar view of the alphabetical tab. Fig. 7 is a detail rear view of the invention partly in section.

My invention may be embodied in printing devices of various kinds but it is particularly adaptable, as shown in the drawings, to that form of printing device which comprises a frame 7 constructed to hold a printing plate 8 and an information card 9, the plate and card being indicated in a general way in dotted lines in Figs. 1 and 4. Obviously, the invention can also be embodied in a frame in which the printing form is made up of type arranged in a holder and mounted in the frame. The frame is provided with suitable spacing flanges 10 and with suitable means for retaining the printing plate or type holder and the card thereon, which may consist of the upper and lower heads 11, 12, lips 13, stops 14, and locking devices 15. Examples of these two forms of printing devices are shown and described in my Patent No. 692,994, dated February 11, 1902.

The tab 16, which may be employed for alphabetical classification, has a stem 17 and shoulders 18. The tab 19, which may be used for geographical, or other classification, is preferably provided with two stems 20 offset at 21. The stems of both tabs may be provided with openings 22. The lettering on the tabs may be applied directly thereto by printing or stamping, or the tabs may be made to receive removable slips bearing the lettering and to illustrate this I have shown the tab 16 with a letter for an alphabetical classification printed directly thereon and the tab 19 provided with retaining flanges 23 to hold a card 24 on which a geographical designation may be printed, the card resting upon the head 11, as shown in Fig. 2. Obviously the tab 16 may be similarly provided with retaining devices for holding a removable card, or the lettering can be printed or stamped directly upon the tab 19.

The frame is constructed with a plurality of keepers to receive the stems of the tabs, and such series of keepers extending substantially from one side edge to the other to enable the tabs to be positioned thereon in such a manner that when the printing device in a tray carry a number of index tabs the latter can be arranged on the printing device in different positions to enable all of them to be easily read. These keepers are stamped up in that portion of the frame below the head 11 which is adapted to receive the card 9 and they are therefore concealed by the card when the latter is in place in the frame. For each stem there is a keeper 25 on the front of the frame and a keeper 26 on the back of the frame, and the frame is slitted at 27 at the top and bottom of each keeper. I also prefer to depress a portion of the frame at 28 below each keeper 25 to accommodate the

lower end of the stem. The tab 16 is inserted in the keepers, in front of the upper keeper 26 and back of the lower keeper 25, and the shoulders 18 of the tab engage the upper edge of the keeper 26. The stems of the keeper 19 are spaced apart to correspond with the spacing of the keepers so that they may both be engaged with keepers, as shown in Figs. 1 and 4, and the shoulders formed by the offsets 21 will engage the bead 11 upon which the lower edge of the tab rests, as shown in Fig. 2. The two tabs may be separated from each other on the frame, as shown in Fig. 1, but the off-set arrangement of the tab 19 permits the tab 16 to be located behind the tab 19, as shown in Fig. 4, whenever desired. The keepers may retain the tabs in position on the frame without the necessity of any locking devices but for security I prefer to provide the frame with protuberances 29 to engage the openings 22 in the stems of the tabs. These protuberances are rounded and the stems may be readily engaged and disengaged therewith by simply forcing the tabs in and pulling them out and without the necessity of lifting the lower ends of the stems. This means forms an effective locking engagement between the tabs and the frames which is sufficient to prevent disengagement of the tabs from the frames or disarrangement of the tabs on the frames under all ordinary conditions.

The invention is especially useful in maintaining a card index system wherein it is desired to provide two or more classifications because the index frames are constructed to receive a plurality of tabs, and, as shown in Fig. 4, one of the tabs may be located behind the other. This latter feature is important because it enables the positioning of the tabs on the frame in a manner which will permit all of the classification designations to be readily observed and read.

The frame embodies no additional parts for my present invention except the integral keepers which are stamped up from the frame during the process of manufacture and hence involves no appreciable additional cost. All of the frames may be thus provided with keepers but this is not necessary and a set of frames solely for index purposes may have the keepers if preferred. The tabs can be readily applied to and removed from the frames without removing the latter from the trays in which they are stored and when the tabs are applied they will be securely held against displacement. To facilitate the insertion and removal of the tabs I prefer to stamp the keeper 25 to an inclined position, as shown in Figs. 2 and 3, so that the tabs can the more readily be moved to and from locking position in engagement with the protuberance or projection 29.

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

1. A printing device frame comprising a plate having a keeper offset on one side thereof within the periphery of the plate and open at one end and a detachable tab seated in said keeper.

2. A printing device frame comprising a plate having a keeper stamped up and offset therefrom at one side of the plate within the periphery thereof and open at one end, and a detachable tab seated in said keeper through its open end.

3. A printing device frame having a keeper open at one end, and a detachable tab having a stem seated in said keeper through its open end.

4. A printing device frame having a keeper stamped up and offset therefrom on the front of the frame and open at one end, and a detachable tab seated in said keeper through its open end.

5. A printing device frame having a plurality of keepers thereon spaced apart and extending adjacent to the top of the frame approximately from end to end thereof, each keeper being open at one end, and a detachable tab seated in one of said keepers through its open end.

6. A printing device frame having a keeper thereon below its upper edge and open at one end, a detachable tab seated in the keeper through its open end, and a shoulder on the tab to engage the frame.

7. A printing device frame having two alined keepers thereon, and a detachable tab having a stem seated in both of said keepers to hold the tab on the frame.

8. A printing device frame having two alined keepers thereon on opposite sides thereof, and a detachable tab seated in both of said keepers to hold the tab on the frame.

9. A printing device frame having a keeper thereon open at one end, a detachable tab seated in said keeper through its open end, and means for locking the tab on the frame.

10. A printing device frame having an open-ended keeper thereon below its upper edge, a projection below the keeper, a tab seated in and extending through said keeper and engaging said projection.

11. A printing device frame having two alined keepers on opposite sides thereof and a projection in alinement with the keepers, and a tab having a stem seated in said keepers and provided with an opening to engage said projection.

12. A printing device frame having a plurality of pairs of keepers thereon, and a detachable tab having a plurality of stems each stem seated in a pair of said keepers.

13. A printing device frame having a plurality of keepers thereon, a pair of detachable tabs arranged one in front of the other

and one projecting beyond the other, said tabs having stems seated in said keepers.

14. A printing device having keepers disposed in a series extending in a direction across the device, a detachable tab having a pair of spaced stems engaged with non-adjacent keepers, and another detachable tab having a stem engaged with a keeper located between the keepers engaged by the spaced stems, said other tab projecting outwardly beyond the first-mentioned tab.

JOSEPH S. DUNCAN.

Witnesses:
WM. O. BELT,
M. A. KIDDIE.