

J. S. DUNCAN.
 FRAME FOR STENCILS OR OTHER ARTICLES.
 APPLICATION FILED SEPT. 2, 1904.

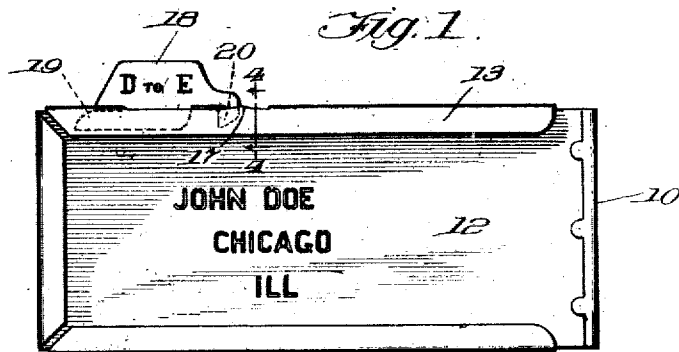
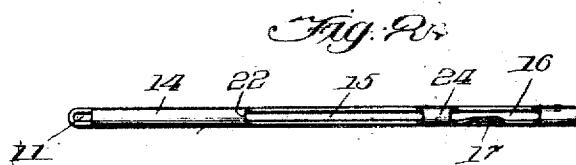
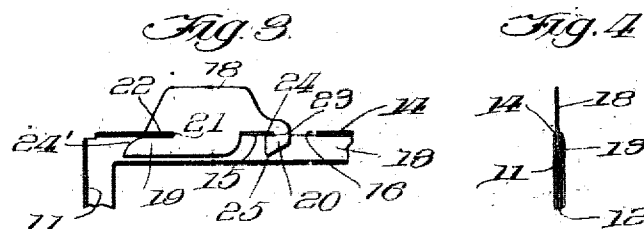


Fig. 5.

Fig. 6.

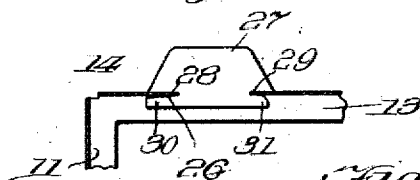


Fig. 7.

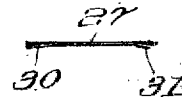


Fig. 8.

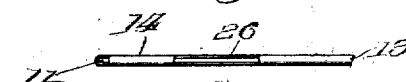
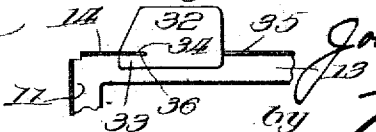


Fig. 9.



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UNITED STATES PATENT OFFICE.

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FRAME FOR STENCILS OR OTHER ARTICLES.

No. 853,539.

Specification of Letters Patent.

Patented May 14, 1907.

Application filed September 2, 1904. Serial No. 223,099.

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 Frames for Stencils or other Articles, of which the following is a specification.

The object of this invention is to provide a printing device with a detachable index tab so that the printing device can be used with or without the tab and so that the tab can be changed as required to correspond with the name on the printing device or to conform to the requirements of a card index system.

The invention is particularly adapted for stencil printing devices in which a stencil is carried by a skeleton frame, and I have illustrated this embodiment of the invention in the accompanying drawings in which

Figure 1 is a plan view of a stencil printing device embodying the invention. Fig. 2 is an enlarged detail top edge view of a portion of the stencil frame, the end of the frame being shown in section. Fig. 3 is a longitudinal sectional view of one corner of the stencil frame showing the tab in place. Fig. 4 is a sectional view on the line 4-4 of Fig. 1. Fig. 5 is a bottom edge view of the tab shown in Figs. 1-4. Fig. 6 is a sectional view corresponding to Fig. 3 and showing another form of tab. Fig. 7 is a bottom edge view of the tab shown in Fig. 5. Fig. 8 is a top edge view of a portion of the stencil frame shown in Fig. 6. Fig. 9 shows another construction.

The frame 10 is open between its sides and ends, and provided at the edges of said opening with channels 11 to receive the edges of the stencil 12. In the construction illustrated in the drawings, the top or upper side 13 of the frame is formed by bending upon itself the material of which the frame is made to form the inwardly directed stencil channel 11, with the bent edge 14 forming the outer edge of the top of the frame.

In the construction shown in Figs. 1-5 the outer edge of the frame, at any position between its ends, has two slots 15 and 16, one wall of the slot 16 being provided with a locking flange 17. This flange can be

formed in cutting the slot, or by bending or pressing the edge of the slot inwardly after it is cut. The tab 18 has an elongated toe 19 and a heel 20 arranged to enter the slots 15 and 16 respectively. The toe 19 is formed by slitting the tab at 21 to receive the part 22 of the outer edge of the frame, and the heel is slitted at 23 to receive the part 24 of the outer edge of the frame lying between the slots 15 and 16. In practice, the toe of the tab is inserted in the slot 15 alongside the stencil and moved forward until the heel can be carried down into the slot 16, thus bringing the tab into parallel relation with the top of the frame. Then the tab is moved forward to its final position as shown in Fig. 1, the heel being carried past the flange 17 which locks the tab in place. To facilitate inserting the toe and heel in the slots, I preferably cut them down to points 24' and 25. If desired, the heel or toe (or both the heel and toe, as shown in Fig. 4) may be bent sidewise to frictionally engage the frame and tend to hold the tab in fixed position therein. To detach the tab 18 from the frame, the tab is moved backward (to the right in Fig. 1) until the heel is carried past the locking flange, after which the heel is lifted out of the slot 16 and the toe is pulled out of the slot 15.

In the construction shown in Figs. 6 to 8, the frame is provided with a single slot 26 and the tab 27 is slitted lengthwise at 28 and 29 in its ends, one of said slits, as 28, being longer than the other and forming a toe 30 and a heel 31. In arranging this tab on the frame, the toe is inserted in the slot 26 and moved forward until the heel can be pushed down into the slot, after which the tab is moved backward into the position shown in Fig. 6. The toe and heel 30 and 31 are bent sidewise to frictionally engage the frame and hold the tab in fixed position thereon, and it will be observed that the toe and heel project beyond the end walls of the slot to prevent the tab from being detached from the frame accidentally. In detaching the tab 27 from the frame it is first moved forward (to the left in Fig. 6) and the heel is withdrawn from the slot, after which the toe is pulled out of the slot.

In Fig. 9 the tab 32 is simply provided with a toe 33 formed by slitting the tab at 34. This toe which may be bent sidewise is inserted in the slot 35 in the frame and the tab is pushed down into the slot and then moved forward (to the left) until the end wall 36 of the slot is wedged tightly in the slit.

My present invention is designed to simplify the construction and decrease the cost of making printing devices of this character for use in a card index system. All frames, or a number of the frames, as desired, may be provided with the slots and the tabs can be arranged on any of the frames as the index system may require. This dispenses with the necessity of providing certain frames for use only as index frames. If all the frames are slotted, any one of them can be made an index frame at any time. If, for example, the first stencil in the A section of the system (which stencil would carry an index tab bearing index characters such as "A to B") became obsolete for any reason it would not be necessary to substitute for that stencil the stencil in the second frame in the system, but it would only be necessary to detach the index tab from the first frame and place it on the second frame. This is a very simple operation and avoids the necessity of removing the stencil from the second frame and inserting it in the first frame, which might result in injury to the stencil. Furthermore, it will be readily understood that, with the present invention, the index tabs can be distributed throughout the frames in a tray and changed as often as desired and without necessitating a change of the stencils themselves. I may provide slots at several places in the frame so that all the tabs need not be arranged in alinement in a tray. Index or other characters may be printed, stamped or otherwise affixed to the tabs.

Without limiting myself to the exact construction and arrangement of parts herein shown and described, what I claim and desire to secure by Letters Patent is:—

1. A stencil frame open between its sides and ends to permit the stencil to be used for printing while in the frame and provided with a slot, in its edge, in combination with a detachable tab adapted to engage the slot, and means on the tab for holding it in the slot.
2. A stencil frame open between its sides and ends to permit the stencil to be used for printing while in the frame and provided with a channel to receive the stencil and a slot, in its edge, in combination with a tab adapted to be inserted through said slot into said channel alongside the stencil, and means on the tab for holding it in the slot.
3. A stencil frame open between its sides

and ends to permit the stencil to be used for printing while in the frame and provided with two slots in its edge, in combination with a detachable tab having separate parts adapted to engage said slots.

4. A frame for stencils or other articles provided with a channel and two slots, in combination with a tab adapted to be inserted through said slots into said channel and detachably connected to the frame.

5. A frame for stencils or other articles provided with two slots, in combination with a tab having a toe to engage one slot and a heel to engage the other slot.

6. A frame for stencils or other articles provided with a slot, in combination with a tab having a toe adapted to enter said slot, said toe being bent sidewise to frictionally engage the frame.

7. A frame for stencils or other articles provided with a slot, in combination with a tab having a heel adapted to enter said slot, said heel being bent sidewise to frictionally engage the frame.

8. A frame for stencils or other articles provided with slots, in combination with a tab having a toe and heel to enter said slots, said toe and heel being bent sidewise to frictionally engage the frame.

9. A frame for stencils or other articles provided with two slots, in combination with a tab having a toe to enter one slot and a heel to enter the other slot, and means for locking the tab in said slots.

10. A frame for stencils or other articles provided with a channel and two slots, in combination with a tab provided with a toe and a heel arranged to enter said channel through said slots, said tab having slits to engage end walls of said frame, and said toe and heel, or one of them, being bent sidewise to frictionally engage the wall of the channel.

11. A frame for stencils or other articles provided with a slot, in combination with a detachable tab adapted to enter said slot and be moved longitudinally therein, said tab being constructed to make locking engagement with the frame.

12. A frame for stencils or other articles provided with a slot, in combination with a detachable tab adapted to enter said slot and be moved longitudinally therein, said tab having a horizontal slit to receive an end wall of said slot.

13. A frame for stencils or other articles provided with two slots, in combination with a detachable tab provided with a toe and a heel adapted to enter said slots, said toe and heel having slits to receive end walls of said slots.

14. A frame for stencils or other articles provided with two slots, in combination with a detachable tab having separate parts adapted

ed to enter said slots, said parts having slits to receive end walls of said slot, and means for locking the tab in said slots.

15. A frame for stencils or other articles
5 provided with a channel and two slots, in combination with a detachable tab having a toe and heel adapted to enter said slots and to be moved longitudinally therein, said toe and

heel having slits to receive end walls of said slots, and one or both thereof being bent side- 10 wise to frictionally engage the wall of the channel.

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