

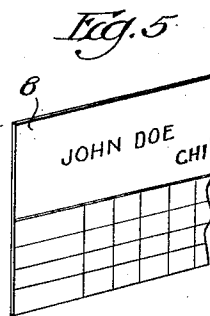
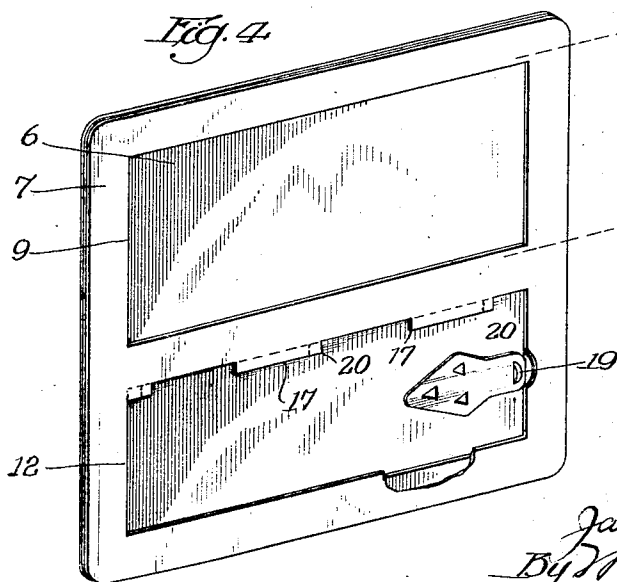
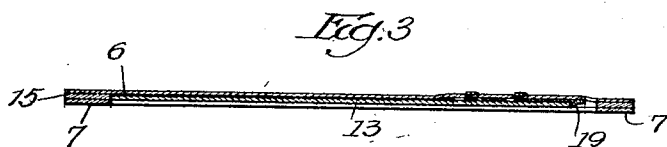
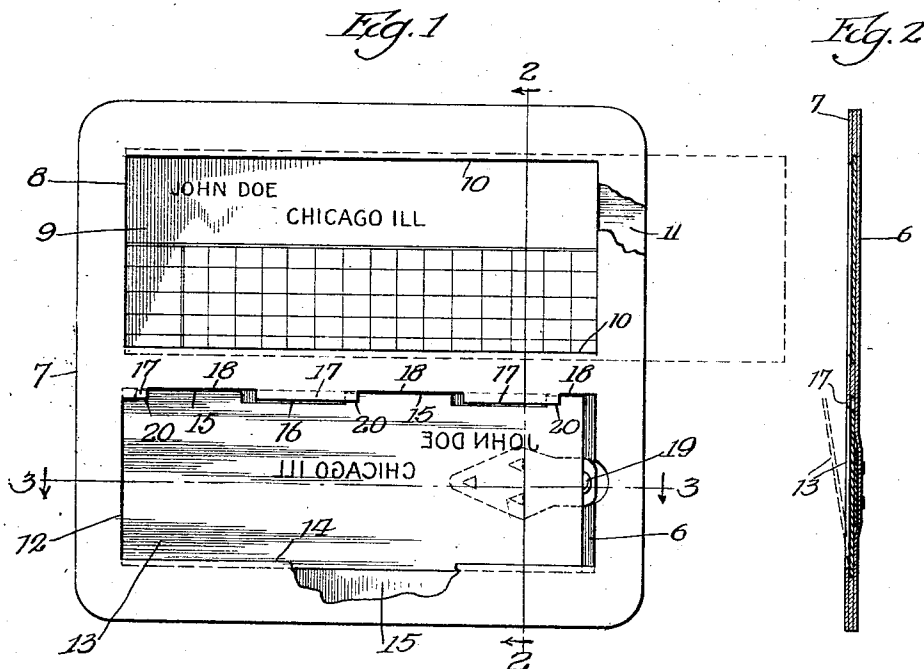
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PRINTING DEVICE

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UNITED STATES PATENT OFFICE

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PRINTING DEVICE

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This invention relates to printing devices of the kind which are adapted to be run through an addressing machine for making printing impressions and are stored in trays or drawers in accordance with a selected classification system.

The object of the invention is to provide a printing device of simple and novel construction, light in weight, and comprising a removable card and a removable printing plate which can be easily and quickly changed whenever desired.

Another object of the invention is to provide a light weight printing device comprising a frame, a card, and a printing plate, with means for engaging the plate interlockingly with the frame by an endwise movement of the plate, and yielding means for holding the plate in place.

In the accompanying drawings illustrating a selected embodiment of the invention,

Fig. 1 is a front elevation of a printing device embodying the invention, parts thereof being broken away;

Fig. 2 is a sectional view on the line 2—2 of Fig. 1;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1;

Figs. 4 and 5 show a perspective view of the frame, partly broken away, with the card arranged in position for insertion in the frame.

Referring to the drawings, the frame of the printing device comprises a back 6 and skeleton mat 7 fastened to the front of the back and provided with an opening 8 to receive the card 9. Provision may be made for inserting and securing the card in the frame in any suitable manner; for example, by providing flanges 10 at the top and bottom of the opening 8 and a slot 11 at one end of said opening, through which the card may be moved into the opening. The mat also has an opening 12 for the printing plate 13, on which printing characters may be formed by embossing or otherwise. The mat has a flange 14 at its lower edge to engage the lower edge of the plate and preferably there is a filler 15 between the mat and the back, or the mat is made thicker as

found most convenient. The plate is provided with alternate projections 15 and recesses 16 along its upper edge, and there are disconnected flanges 17 at the upper edge of the opening 12 which provide recesses 18. The projections and recesses on the plate are complementary to the projections and recesses on the frame, and the plate and opening are correctly proportioned so that the lower edge of the plate may be engaged beneath the flange 14 as indicated by the broken lines in Fig. 2. And then the plate may be pressed back flat against the back of the frame with the projections 15 in the recesses 18 and the projections 17 in the recesses 16 and with the plate resting upon the yielding locking device 19. The projections 17 are glued to the back 6 of the frame or are otherwise fastened thereto, except the corners 20, which are left free so that when the plate is shifted to the left, Fig. 1, the projections 15 on the plate will engage under the corners 20. When the plate has been moved to the left, Fig. 1, as far as the left end edge of the opening 12, the yielding lock 19 will engage the right end of the plate, and then the plate will be held in the opening 12 flat upon the back 6 by engagement of its lower edge with the flange 14, by engagement of its projections 15 under the corners 20 of the projections 17, by the mat at the left end of the opening 12, and by the locking device 19. The invention provides a printing device of simple and novel construction, comprising a frame which can be made of light material in any size or shape, a removable information card, and a removable printing plate. The removable card and the opening 8 may be omitted and the frame itself used for information data. The means for securing the plate in place insures accuracy of registration of the plate in the frame and an efficient means for securing the plate in the frame so that it will always be maintained in proper position. Changes in the form, construction, arrangement, and material of the parts of my invention may be made without departing from the spirit or sacrificing the advantages thereof, and I reserve the

right to make all such changes as fall within the scope of the following claims.

I claim:

1. A printing device comprising a frame having an opening therein and a printing plate in said opening, and interengaging projections on the frame and plate the corners of the projections on the frame overlapping corners of the projections on the plate.

2. A printing device comprising a frame having an opening therein and a printing plate in said opening, said frame and plate having interengaging projections thereon, with corners of the projections on the frame overlapping corners of the projections on the plate, and a yielding locking device for holding said projections interengaged.

3. A printing device comprising a frame having an opening therein, a printing plate seated in said opening, there being a flange at the lower edge of the opening to receive the lower edge of the plate, the upper edge of the plate and on the frame at the edge of the opening having interengaging projections, the projections on the plate being adapted to interlock with the projections on the frame when the plate is moved endwise relative to the frame, and means for holding the plate with said projections in engagement with the frame.

4. A printing device comprising a frame having an opening therein and a back therefor, a printing plate, a flange at the lower edge of the opening to receive the lower edge of the plate, interengaging projections at the upper edge of the plate and the upper edge of the opening, corners of the projections on the frame overlapping corners of the projections on the plate, and a yielding stop secured on the back to engage an end of the plate for holding said corners in engagement.

JAMES A. BAILEY.