

Feb. 10, 1931.

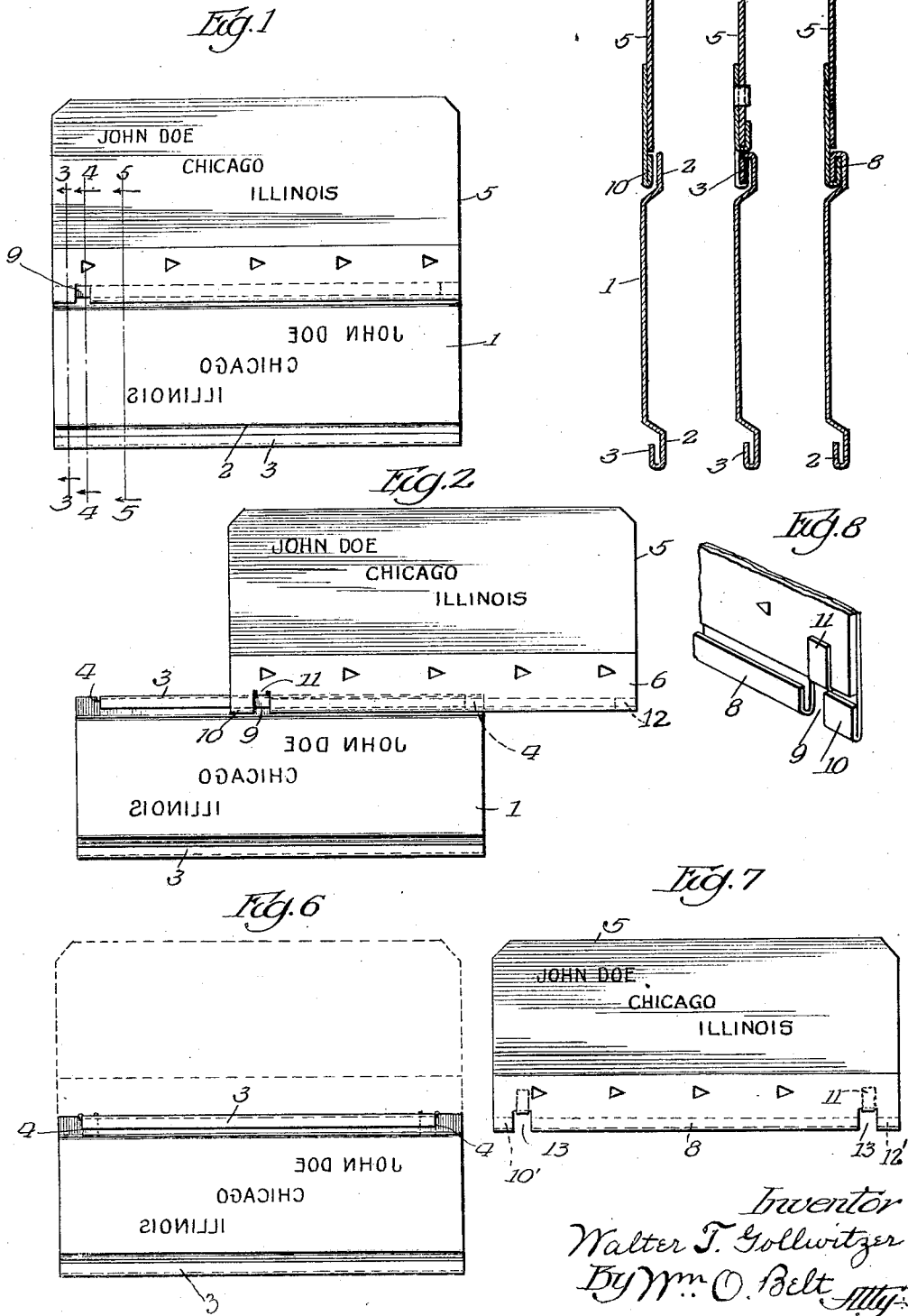
W. T. GOLLWITZER

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PRINTING DEVICE

Filed Aug. 11, 1928

2 Sheets-Sheet 1



Inventor
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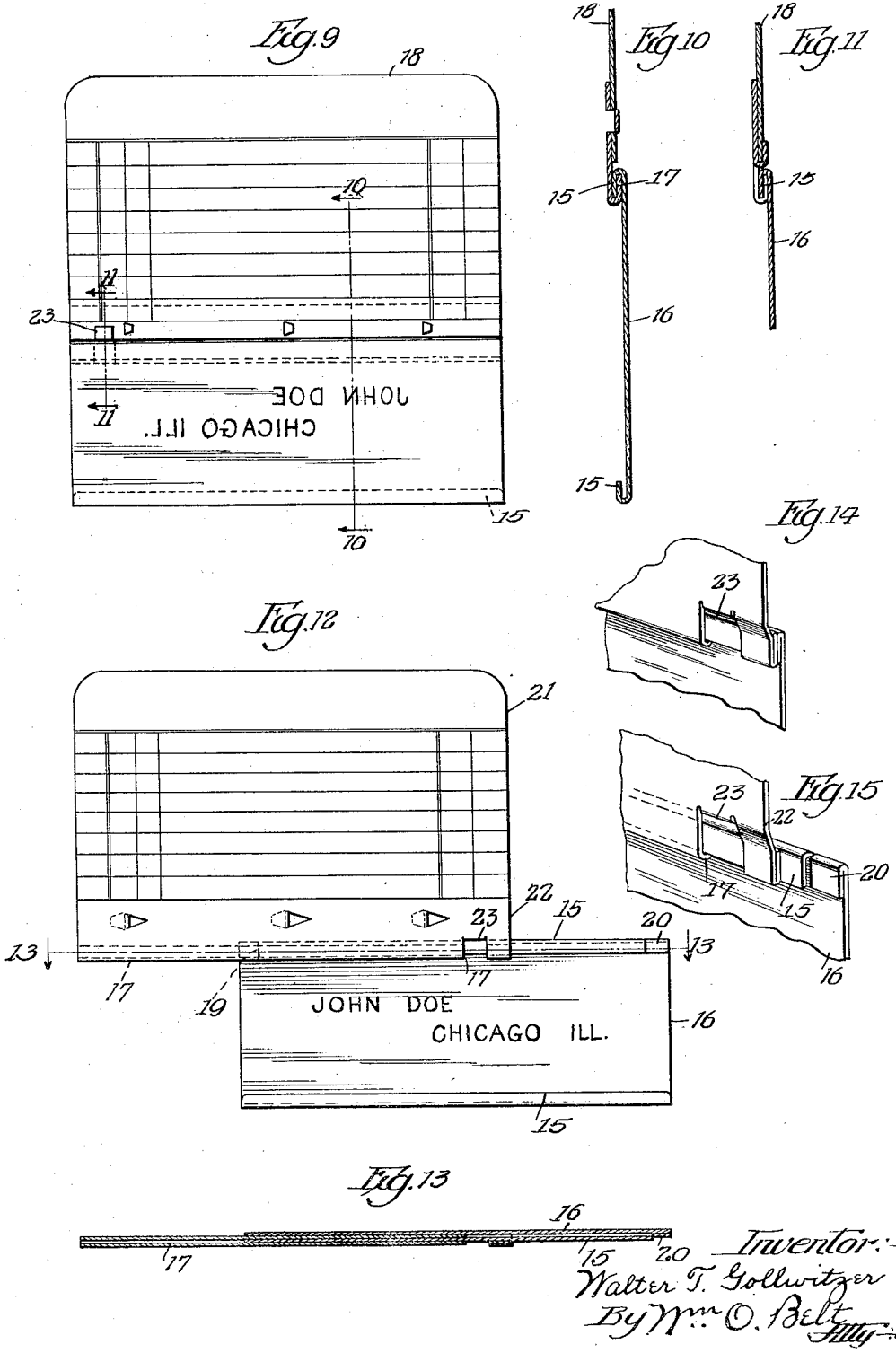
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UNITED STATES PATENT OFFICE

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PRINTING DEVICE

Application filed August 11, 1928. Serial No. 299,007.

This invention relates to printing devices which are adapted to be run through an addressing machine for taking impressions therefrom and to be stored in trays or drawers in accordance with any desired classification.

The primary object of the invention is to provide a printing device of simple construction and light in weight comprising a printing plate member and a card member associated without the use of a frame by means whereby the card member is mounted on the plate member in juxtaposed relation thereto and projects from one edge of the plate member.

Another object of the invention is to provide a printing device comprising a printing plate member and a card member of any desired size irrespective of the size of the plate member and adapted to be detachably mounted on the top edge of the plate member so that these members may be readily separated and assembled by replacing a plate member or a card member.

And a further object of the invention is to provide means whereby the card member and the plate member of the printing device may be interengaged by sliding one of said members relatively to the other member and parallel thereto.

And other objects of the invention are to provide means of similar character for automatically locking the card member and the plate member together when engaged, and which can be easily released to permit separation of the members; to mount the card member on the plate member so that the card member will project from one edge of the plate member in substantially the plane of the plate member; to provide the card member with a metal connector strip having the engaging parts thereon.

I have illustrated the invention in selected embodiments in the accompanying drawings in which

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

Fig. 2 is a similar view showing the position of the card and plate members in the operation of separating them;

Figs. 3, 4, and 5 are enlarged sectional views on the lines 3—3, 4—4, and 5—5 of Fig. 1;

Fig. 6 is a front view of the plate member, the card member being indicated in broken lines;

Fig. 7 is a front view of a card member arranged in position for engagement with the plate member, Fig. 6;

Fig. 8 is a detailed enlarged view of the back of one corner of the card;

Fig. 9 is a front elevation of a device differing in some details from those shown in Figs. 1—8;

Figs. 10 and 11 are enlarged sectional views on the lines 10—10 and 11—11 of Fig. 9;

Fig. 12 is a back view of the device shown in Fig. 9 with the parts in process of separation;

Fig. 13 is a sectional view on the line 13—13 of Fig. 12;

Figs. 14 and 15 are detailed enlarged views showing the interlocking parts of Figs. 9—13 in locked and unlocked positions, respectively.

The plate member 1 in Figs. 1—6 has printing characters embossed thereon, and its top and bottom margins 2 are depressed and provided with in-turned flanges 3. The flanges in this form of the invention are located on the front of the plate with the type characters, and the top flange is cut away at its ends as indicated by 4. The card member comprises a card 5 made of card board, fibre board, or other suitable material and a metal connector strip 6 which is fastened to the lower edge of the card by prongs 7 struck up from the strip or by other suitable fastening means. In this form of the invention the connector

strip is fastened on the front of the card at the lower margin thereof, and it is provided at its lower edge with a flange 8 which is turned up on the back of the strip and is directed towards the lower edge of the card but is spaced slightly therefrom, Fig. 5. The flanged part of the connector strip is notched at 9, adjacent one end, and that part 10 of the flange between the notch and the adjacent end of the strip is flattened to provide a stop at that end of the flange. That part 11 of the flange which is cut to form the notch 9 is bent over upon the card to securely hold the card at this corner to the connector strip because this is the corner which must be deflected slightly to release the locking device so that the card member may be separated from the plate member. The opposite corner 12 of the connector strip, Figs. 1-4 and 8, is also slit and flattened to form a stop at this end of the flange corresponding with the stop 10 at the notched end of the flange. In Figs. 6 and 7 the plate member is made like the plate member of Figs. 1 and 2, and the card member is similar to the card member of Figs. 1 and 2 except that its notches 13 adjacent each end of the connector strip correspond with notch 9 of Figs. 1 and 2. In Fig. 7 there are stops 10' and 12' formed by compressing the flange at the ends thereof beyond the notches 13 and corresponding with the stops 10 and 12 of Figs. 1, 2, and 8. The card member is mounted on the plate member in the construction of Figs. 1-8 by engaging the left end of the flange 8 on the card member with the right end of the flange 3 on the plate member and moving one of these members endwise relatively to and parallel with the other member until they are aligned at their end edges. The stop 12 at the right end of the connector strip will then engage the right end of the top flange 3 on the plate to prevent further movement of the card member to the right, relatively to the plate member, Fig. 1; and the stop 10 at the left end of the connector strip will engage the left end of the top flange 3 on the plate and prevent movement of the card member to the right, Fig. 1, on the plate member and relative thereto. Thus, by interengaging the left end of the flange of the connector strip with the right end of the top flange of the plate and then moving one of the members endwise relatively to the other and parallel therewith, the moving member will come to rest in proper position on the other member in alignment therewith, and the two members will be locked together by engagement of the stops on the connector strip of the card member with the ends of the top flange on the plate member. Ordinarily the card member will be the moving member in engaging and locking the card and plate members, but this is a matter of choice, and the plate member may be the moving member. When the plate member is held in the

left hand and the card member in the right hand and the two members engaged, both members may be moved endwise relatively to each other to bring them into final position. To release the lock, sufficient pressure is applied to the back of the card member at the lower left corner thereof to disengage the stop 10 from the flange 3, and then one or the other, or both members may be moved to separate them. The assembly and the separation of the members may be easily and quickly performed so that the card member or the plate member may be replaced without requiring the separation of the device for any material time from the set or system of which it forms a part. In the construction of Figs. 9-15 the flanges 15 are formed on the back of the plate 16 and the flange 17 is formed on the front of the card member 18. The left end of the flange 15 at the top of the plate 16 is cut away at 19, Fig. 12, and the other end is slit and compressed to form a stop 20. The card member comprises a card 21 and a connector strip 22 fastened to the card and provided with a notch 23 adjacent its right end, Fig. 12. In the construction of Figs. 9-15 the end of the flange 17 on the card member at the notch 23 is engaged with the flange 15 on the plate member at the cut away end 19 of the flange 15, and then the parts are engaged by sliding one or the other or both of them relatively and in parallel relation until the end of the flange 17 at the notch 23 engages the stop 20, whereupon the two members will be interlockingly engaged and aligned. To release the lock, the corner of the card member at the notch 23 is slightly deflected to free the stop 20 from the end of the flange 15 so that the parts may be reversely moved to disengage the flanges. The construction of Figs. 9-15 is substantially the same as that of Figs. 1-8 except that in Figs. 1-8 the flanges on the front of the plate member and on the back of the card member and the parts are disengaged by lifting the corner of the card member at the notch, whereas in the construction of Figs. 9-15 the flanges on the back of the plate and on the front of the card member and the lock are released by depressing the corner of the card member at the notch. In the construction of Figs. 6 and 7 the card member has two notches, but it is the left corner of the card member at the notch, Fig. 7, which is lifted, and this is the same corner as in the construction of Figs. 1 and 2. The invention provides a printing device of simple construction, comprising a printing plate with a card member detachably mounted thereon at the top edge of the plate to provide a device which can be used in storage and in addressing machines in the same manner that printing devices have been used heretofore. I prefer to emboss the printing characters on the plate, but they may be otherwise formed. The card may be of any size and

shape desired, and it may be ruled or otherwise printed on both sides for receiving statistical data or any information desired. The two members of the device may be easily and quickly separated so that the card member or the plate member may be changed whenever desired without separating the device for any material length of time from the set or system of which it forms a part. The connector strip reinforces the card and provides the interlocking means for engagement with the plate, which makes the device strong and substantial. Changes in the form, construction, and arrangement of 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 printing plate member, and a card member mounted on the printing plate member in juxtaposed relation thereto and projecting outwardly from one edge thereof.

2. A printing device comprising a printing plate member and a card member mounted on the printing plate member in juxtaposed relation thereto and at the top edge thereof and projecting outwardly therefrom in substantially the plane of the printing plate member.

3. A printing device comprising a printing plate member and a card member mounted on the printing plate member in juxtaposed relation thereto and at one edge thereof, said card member having a connector strip for engagement with the plate member.

4. A printing device comprising a printing plate member and a card member mounted on the printing plate member, said card member comprising a card made of card board or the like to receive information data, and a metal connector strip fastened to the card at one edge thereof for engagement with the plate member.

5. A printing device comprising a printing plate member and a card member, and interengaging means on said members for securing the card member to one edge of the printing plate member in juxtaposed relation thereto and projecting outwardly therefrom in the general direction of the plane of the printing plate member.

6. A printing device comprising a printing plate member and a card member and means for interlockingly engaging said members at adjacent edges in juxtaposed relation and comprising oppositely directed flanges on said members.

7. A printing device comprising a printing plate member and a card member and means for interlockingly engaging said members at adjacent edges in juxtaposed relation and comprising oppositely directed flanges on

said members and locking devices on said members.

8. A printing device comprising a printing plate member and a card member and means for interlockingly engaging said members at adjacent edges in juxtaposed relation and comprising oppositely directed flanges on said members and locking devices forming part of said flanges.

9. A printing device comprising a printing plate member and a card member and means for interlockingly engaging said members at adjacent edges in juxtaposed relation and comprising oppositely directed flanges on opposite sides of said members.

10. A printing device comprising a printing plate member and a card member, said card member comprising a card and a connector strip fastened to the card, and means on the printing plate member and the connector strip for interlockingly engaging said members in juxtaposed relation.

11. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members, said flanges adapted to be engaged by relative endwise movement of one or the other or both of said members for connecting said members in juxtaposed relation.

12. A printing device comprising a printing plate member and a card member having oppositely depressed flanges on opposite sides of said members and adapted to be engaged by endwise relative movement of one or the other or both of said members in parallel relation, and means for detachably locking said members in juxtaposed relation with their flanges engaged.

13. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members for supporting the card member on the printing plate member in juxtaposed relation, and locking means to prevent relative movement of said members.

14. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members for supporting the card member on the printing plate member in juxtaposed relation, and locking means adjacent the ends of said members.

15. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members for supporting the card member on the printing plate member in juxtaposed relation, and locking means at the ends of said flanges.

16. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members for supporting the card member on the printing plate member, and locking means comprising a stop at one end of the

flange on the printing plate member and a stop at the opposite end of the flange on the card member.

17. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members for supporting the card member on the printing plate member, locking means comprising stops at opposite ends of the flanges, and means to permit release of said locking means.

18. A printing device comprising a printing plate member and a card member, interengaging flanges on adjacent edges of said members for supporting the card member on the printing plate member, and locking means comprising stops at opposite ends of said flanges, there being a notch in the card member flange adjacent one stop to permit release of said stop for separating the members.

19. A printing device comprising a printing plate member and a card member, said members having interengaging means at adjacent edges for mounting the card member on the plate member in juxtaposed relation, and yielding means for locking the members in engagement.

20. A printing device comprising a printing plate member and a card member, said members having interengaging means at adjacent edges for mounting the card member on the plate member in juxtaposed relation, yielding means for locking the members in engagement, and stops to prevent relative endwise movement of the members.

21. A printing device comprising a printing plate member and a card member, said card member comprising a card and a connector strip fastened to one side of the card, said connector strip projecting beyond one edge of the card and having its margin bent to form a flange directed towards the edge of the card and spaced therefrom, said plate being provided with a flange to engage the flange on the connector strip.

22. A printing device comprising a printing plate member and a card member, said card member comprising a card and a connector strip fastened to one side of the card, said connector strip projecting beyond one edge of the card and having its margin bent to form a flange directed towards the edge of the card and spaced therefrom, said plate being provided with a flange to engage the flange on the connector strip, the top of the plate being located in the space on the card member between the edge of the flange and the adjacent edge of the card.

23. A printing device comprising a printing plate member and a card member, said printing plate member having a flange at one edge, said card member comprising a card and a connector strip fastened to the card, said connector strip projecting beyond one edge of the card and being bent upon itself to form a flange with its edge, spaced from

the adjacent edge of the card, the flange on the plate member being adapted for engagement with the flange on the card member, whereby the interengaged flanges will prevent relative back or front movement of the plate member or card member, and the edge of the card will prevent its engagement of the flanges by relative inward movement of said members.

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