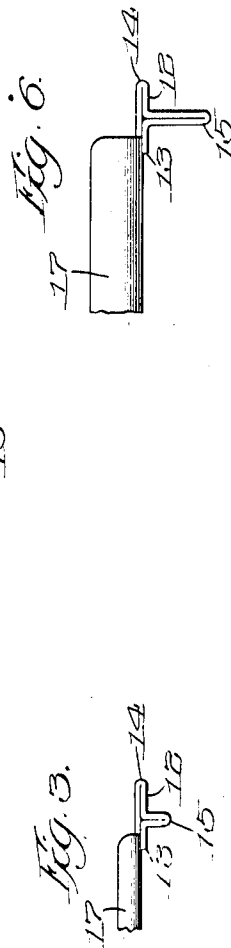
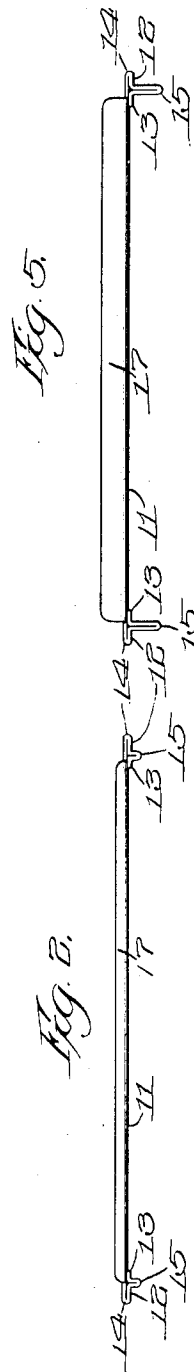
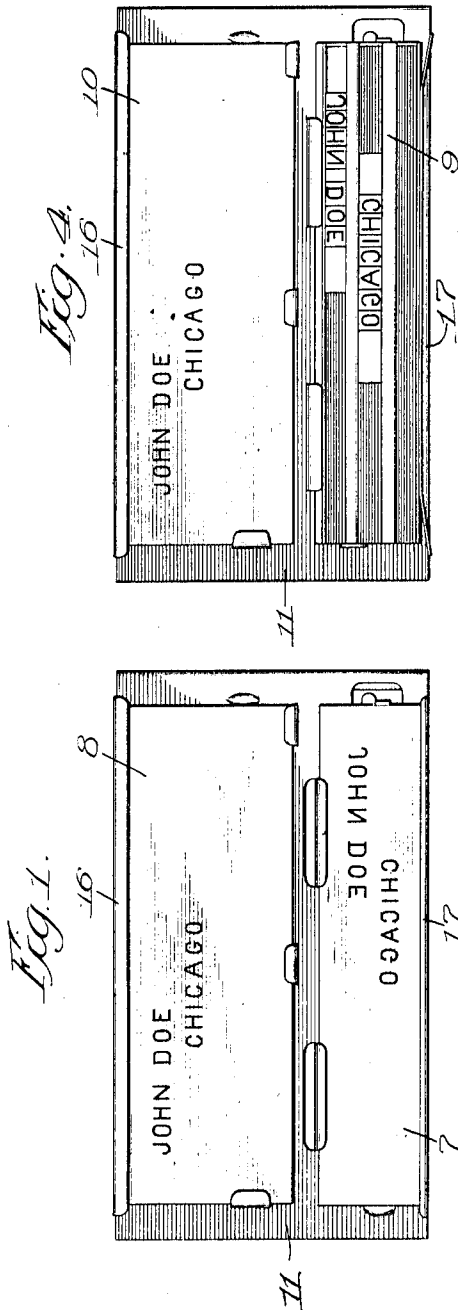


J. S. DUNCAN.
PRINTING DEVICE.
APPLICATION FILED APR. 6, 1910.

1,026,245.

Patented May 14, 1912.



Witnesses:
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UNITED STATES PATENT OFFICE.

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PRINTING DEVICE.

1,026,245.

Specification of Letters Patent.

Patented May 14, 1912.

Application filed April 6, 1910. Serial No. 553,737.

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 that kind of printing device in which the printing form is carried by a frame adapted to be stored in accordance with a regular card index system. The form may consist of type characters stamped from a plate removably mounted in the frame, or of type set in a holder removably mounted in the frame, or of a stencil. A card bearing an impression of the form and other information, if desired, may also be removably mounted in the frame.

The object of the present invention is to provide a frame or holder of simple and inexpensive construction having spacing flanges formed integral therewith and in a manner to stiffen and strengthen the frame transversely to prevent bending.

In the accompanying drawings Figure 1 is a front view of a printing device comprising a printing plate and embodying my invention. Fig. 2 is an edge view and Fig. 3 is an enlarged detail of one corner of the same. Fig. 4 is a front view of a printing device comprising a form of type set in a holder and embodying my invention. Fig. 5 is an edge view and Fig. 6 an enlarged view of one corner of the same.

As the present invention relates only to the frame, which may be adapted in many different ways for receiving printing forms and cards, it will only be necessary to refer to the forms and cards and to the manner of securing them in the frame in a general way.

In Fig. 1 the form is stamped in a plate 7 and this plate and the card 8 bearing an impression of the form are removably secured on the front of the frame. In Fig. 4 the form consists of type set in a holder 9 and this holder and the card 10 are removably secured on the front of the frame. These two forms of printing devices are sufficient to illustrate the invention which, it will be understood, is not limited to these particular forms or to the means shown for securing them and the cards in the frames. The frame 11 is made of sheet metal and its ends are bent inwardly upon the back of

the frame at 12 and this bent part is up-set between the inner end 13 thereof and the outer end 14 of the frame and squeezed together to form the spacing flanges 15. The width of the flange is preferably governed by the character of the printing form. When a printing plate 7 is employed the flange is relatively narrow but when a printing form 9 is used the flange will be relatively wide so that when a plurality of printing devices are stacked one upon the other the flanges will separate the devices to prevent contact with the face of the type.

The bent portion 12 is preferably pressed tightly against the back of the frame and the upset part forming the spacing flange is preferably squeezed tightly together, as shown. This materially stiffens and strengthens the frame at its ends and prevents the frame from bending transversely in handling and in passing through the printing machine. The frame is also preferably strengthened and stiffened longitudinally by the beads or flanges 16 and 17 which may be employed, as shown, to secure the card and printing device or holder at the upper and lower edges of the frame, respectively. The spacing flanges are preferably located adjacent to the ends of the frame to prevent the frame from bending and also so that they will clear the printing devices in a stack. While the spacing flanges are preferably located at the back of the frame, as shown, they may be located on the front of the frame if desired.

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

1. A printing device consisting of a metal plate having one edge portion folded back upon the plate, and said folded portion also being bent outwardly at substantially right angles to the plate to form a spacing flange extending in substantial parallelism with said edge of the plate.

2. A printing device consisting of a metal plate having an edge portion folded back upon the plate, and said folded portion also being bent outwardly at substantially right angles to the plate and then inwardly at substantially right angles to the plate to form a spacing flange extending in substantial parallelism with said edge of the plate.

3. A printing device comprising a metal plate having an edge portion folded back upon itself and said folded portion being

bent outwardly at substantially right angles to the plate, then inwardly toward the plate at substantially right angles thereto and then bent into substantial parallelism with the plate.

4. A printing device consisting of a metal plate having opposite edges formed into retaining flanges upon one side of the plate, the other opposite edges of the plate being folded back upon the other side of the plate, each of said folded portions being bent intermediate of its ends to form a spacing flange extending across the plate transversely with respect to the retaining flanges.

5. A printing device frame made of sheet metal and having its ends bent inwardly and against the body of the frame, said bent portions being upset between the inner edges thereof and the outer end edges of the frame to project outwardly in a direction at right angles to the plane of the body of the frame and the upset parts being squeezed together to form spacing flanges.

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