

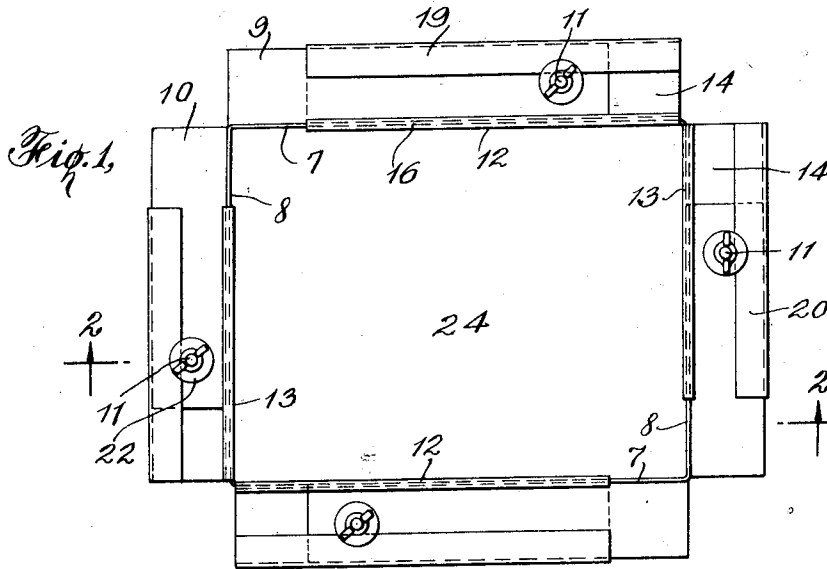
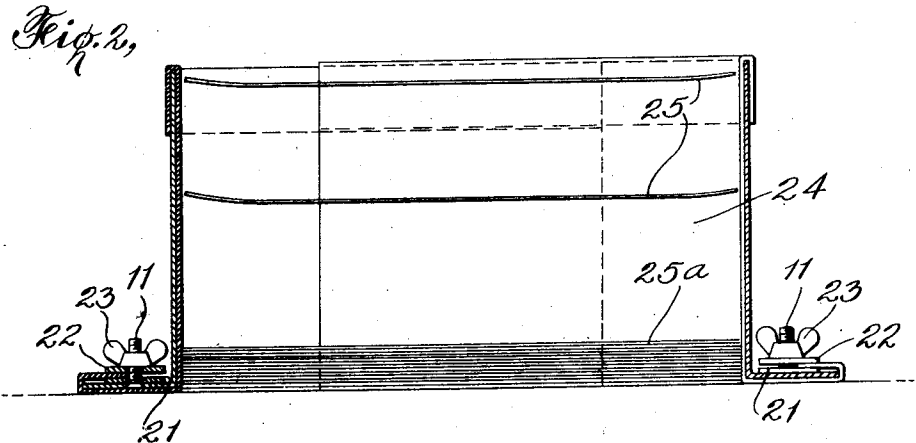
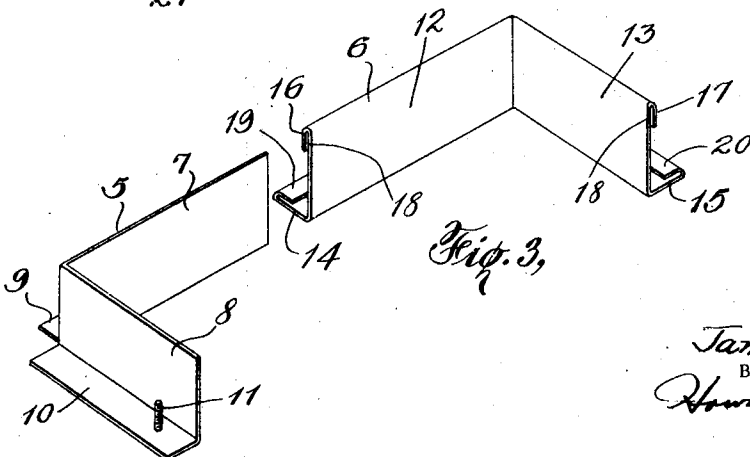
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PRINTER'S FRAME

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PRINTER'S FRAME.

Application filed March 17, 1927. Serial No. 175,990.

This invention relates to printer's frames and particularly to devices of this class which might be termed an adjustable jogger frame or a frame for preventing print offsetting; and the object of the invention is to provide a device of the class specified comprising two pair of frame parts, each being substantially L-shaped in form in cross section as well as in plan forming side members arranged at right angles to each other, the frames in each pair being of similar construction and arranged opposite each other with relation to the corners of a frame constructed thereby; a further object being to provide a frame, one of the pairs of the members of which is flanged to engage horizontal and vertical portions of the other members of the frame to provide for telescoping movement of the members of the respective pairs with relation to each other; a further object being to provide one pair of members with clamp or other securing means whereby all of the members of the frame may be retained in a given position of adjustment; a still further object being to provide a frame of the class described, which by reason of the adjustment of the members employed may be fixed to form a square or oblong chamber within the upright walls of said members to receive printed sheets of predetermined size, the dimensions of the frame being such as to permit of a slow or fluttering placement of the printed sheets, and the stacking of same in said frame; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified, which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a plan view of a frame made according to my invention.

Fig. 2 is a section on the line 2—2 of Fig. 1; and,

Fig. 3 shows perspective detail views of one member of each pair of members employed in the construction of the frame.

In carrying my invention into effect, I provide two frame members or parts 5 and 6 as shown in detail in Fig. 3 of the drawing, and two of each of said members are employed. Thus, my improved frame is constructed of

two pairs of members, the members of the respective pairs being identical in construction.

The member 5 is substantially L-shaped in plan or provided with side portions 7 and 8 arranged at right angles to each other, said side portions being arranged vertically when the device is in use, and their lower ends are provided with outwardly extending base portions 9 and 10 respectively. Secured to said base portions are upwardly extending screws or threaded pins 11, preferably arranged adjacent the outer or free end portions of the sides 7 and 8.

The other part 6 is of the same general form as the part 5 and has sides 12 and 13 having outwardly extending base portions 14 and 15 respectively, and the upper edges of the sides 12 and 13 are provided with downwardly directed flanges 16 and 17 forming channels 18 in which the upper edges of the sides 7 and 8 of the members 5 operate. Likewise, the base portions 14 and 15 are provided with inwardly turned flanges 19 and 20 forming channels in which the outer edge portions of the base parts 9 and 10 of the members 5 operate. With this construction, I provide a telescoping adjustment of each of the members 5 with respect to the members 6.

It will be noted upon a consideration of Figs. 1 and 2 of the drawing that the screws or pins 11 are arranged on the base portions 9 and 10 inwardly of the flanges 19 and 20. In practice, washers 21 are preferably mounted upon the pins 11 and operate within the flanges 19 and 20, while other washers 22 are mounted on the pins 11 outwardly of said flanges, and winged or other nuts 23 are in threaded engagement with said pins and serve as clamping or securing means for retaining the members of the frame in predetermined positions of adjustment.

In assembling the parts, the members 5 are arranged opposite each other with relation to the corners of a frame to be constructed by said members, and the members 6 are thus oppositely arranged. It will be understood that the frame may be adjusted to provide a rectangular square frame or an oblong frame; for example, in viewing Fig. 1 of the drawing, the sides of the frame at the top and bottom of said figure may be extended, maintaining the spaced relation of the sides of the frame at the left and right hand of said figure, or the latter sides of the frame may be extended, maintaining the spacing of the

first named sides. It will also be understood that all of the sides may be extended or contracted to increase or decrease the dimensions of the frame within the limits of the members 5—6 employed. It will also be understood that the frames may be made of any size to suit work-pieces or printed matter of any kind or class.

In the use of the device, the frame is 10 mounted on the delivery or receiving table for the printed sheets when removed from the press in any type of delivery, and the printed sheets are placed upon the top of the frame in such manner as to enter the chamber 15 24 formed between the side walls of said frame, note Fig. 2. The dimensions of the chamber 24 will be such as to substantially correspond with the dimensions of the sheet or sheets 25 to be placed therein, whereby a 20 slow or fluttering descent of said sheets is provided, thus allowing sufficient time for the print on said sheets to dry before stacking the same in said frame as seen at 25^a. In Fig. 2 of the drawing, two of the sheets 25 are 25 shown in the operation of descending in the chamber 24, and it will be understood that the adjustment of the frame members will control the rapidity of the descent.

My improved frame will prevent what is 30 known as print offsetting, which is commonly experienced by printers. By providing the slow stacking or piling of the printed sheets in the manner herein set out, and adjusting the frame to suit the delivery of a pre- 35 determined press, the print offsetting commonly experienced is obviated in a simple, efficient and practical manner. It will be understood that the pocket of air formed beneath each printed sheet placed in the 40 frame serves to support said sheet, and the clearance provided at the corner portions of the members 5 of the frame will be sufficient to allow for the slow escapement of this air,

and assuming that the print on the sheets be directed downwardly, the quick drying 45 of the print is readily effected.

It will be understood that my invention is not limited to the specific form of construction herein shown and described with respect to the detail structure of the pairs of frame 50 members and the means for retaining the same in different positions of adjustment. Various other changes in and modifications of the construction herein shown and described may be made within the scope of the 55 appended claim without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:— 60

In a frame of the class described, two frame members, one of said members having vertical wall portions arranged at right angles to each other, and base portions arranged at right angles to said wall portions, 65 the other member being of similar construction and the upper ends of the wall portions being flanged to engage the walls of the first named member, the base portion of the 70 second named member having inturned flanges forming guide channels in which the base portions of the first named members are placed in coupling said members together and for coupling one frame member with the 75 other, and screws secured to the base portions of the first named frame member adjacent the free ends thereof, said screws extending upwardly and being arranged inwardly of the inturned flange on the base of the second 80 named member.

In testimony that I claim the foregoing as my invention I have signed my name this 12th day of March, 1927.

JAMES J. SULLIVAN.