H. J. McCAULEY.

INDEX FRAME.

APPLICATION FILED OCT. 15, 1915.

1,244,622. Patented Oct. 30, 1917.

Fig. 1.

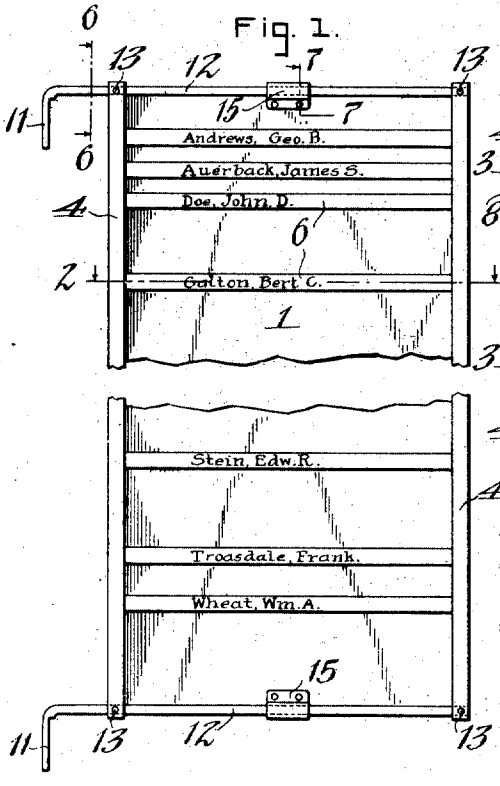


Fig. 2.

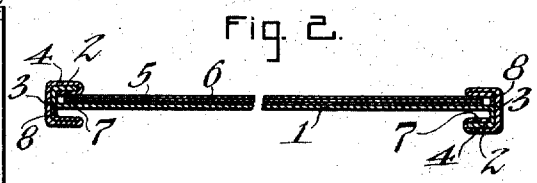


Fig. 3.

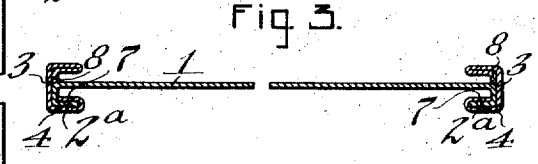


Fig. 4.

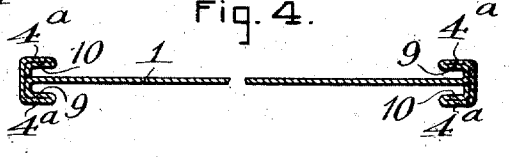


Fig. 5.

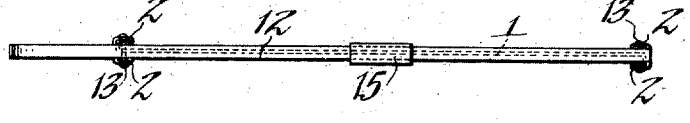


Fig. 6.

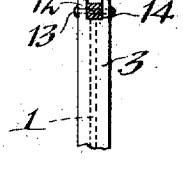
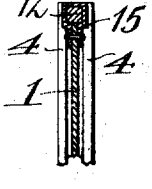


Fig. 7.



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INDEX-FRAME.

1,244,622. Specification of Letters Patent. Patented Oct. 30, 1917.

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To all whom it may concern:

Be it known that I, HERBERT J. McCAULEY, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Index-Frames, of which the following is a specification.

This invention relates to indexes of the kind comprising pivoted frames, panels or leaves mounted upon a support or stand and having opposing guideways or channels which receive the index cards or slips.

The invention has more particular reference to double-faced panels or frames of this character having such channels on both sides. Heretofore such double-faced frames have been constructed by fastening two flanged or channeled panels back to back. Frames of this construction present objectionable seams at their longitudinal edges where they are liable to be separated, and they are moreover comparatively heavy, owing to the double thickness of their backs or body portions.

One of the objects of my invention is the improvement of the frames or panels with a view of simplifying their construction, avoiding the formation of such seams and reducing their weight.

A further object is to improve the construction of the hinge-members of the panel.

In the accompanying drawings:

Figure 1 is a face view of one of the improved panels. Fig. 2 is an enlarged cross section thereof on line 2—2, Fig. 1. Fig. 3 is a similar section of a modified construction of the panel. Fig. 4 is a cross section of another modification. Fig. 5 is a top plan view of the panel. Figs. 6 and 7 are enlarged cross sections on the correspondingly numbered lines in Fig. 1.

Similar characters of reference indicate corresponding parts throughout the several views.

The improved frame or panel may be constructed of any suitable stiff material, but is preferably made of sheet metal.

In the preferred embodiment of the invention shown in Figs. 1 and 2, the sheet or panel 1 has its longitudinal edges bent or turned over in opposite directions to form marginal flanges 2 on opposite sides of the sheet which are spaced a suitable distance from the sheet. Applied lengthwise to the flanged-edges of the sheet are channeled-strips 3 facing each other and having their flanges 4 arranged on opposite sides of the marginal portion of the sheet and suitably spaced therefrom to form opposing channels or guideways on both sides of the sheet for the reception of the usual index cards or slips 5 and the customary transparent holders 6 therefor. In other words, the body of the panel or sheet forms a partition or division plate arranged mid-way between the flanges of the channel-strips 4. These channel-strips may be fastened to the flanged edges of the sheet by any suitable means. In the construction shown in Fig. 2, the portions of the strip forming its flanges are doubled upon themselves to reinforce them, and one of these flanged portions is folded around the adjacent flange 2 of the sheet, as shown at 7, the parts being tightly stamped or pressed together by suitable dies or other appropriate means, thereby securely interlocking or uniting the parts without the use of solder or rivets. The internal edge-portion 8 of the strip may be arranged substantially at right angles to the plane of the sheet and folded against the web or body-portion of the strip, as shown.

All portions of the channel-strips are thus reinforced producing a strong and reliable construction. At the same time the body of the panel consists of but a single thickness of material, reducing its weight correspondingly. This construction has the further advantage that the longitudinal edges of the panel are smooth and seamless, avoiding all liability of separating the two pairs of channels on opposite sides of the sheet.

Instead of arranging the flanges 2 of the sheet on opposite sides thereof, as shown in Fig. 2, they may both be arranged on the same side of the sheet, as shown at 2^a in Fig. 3.

As a further modification of the invention, the flanges forming the channels may

be made integral with the sheet, as illustrated in Fig. 3. In this case, each marginal portion of the sheet is bent inwardly parallel with its body, as shown at 9, and then doubled upon itself to form one of the channel-flanges 4^a. It then extends across the outer edge of said flange and is next bent inwardly parallel with the body of the sheet and doubled upon itself, as shown at 10, to form the other channel-flange 4^a.

It will be noted that in all of the several embodiments of the invention, the body of the panel or frame comprises a single thickness of sheet metal or other suitable material, and the panel is double-faced or provided on opposite sides of its margins with opposing flanges spaced from the sheet to form channels for index cards or the cards and their holders.

These improvements are applicable to frames or panels with or without the customary hinge-members or pivots 11 which are journaled in bearings of the customary support or standard which forms no part of my invention and is therefore not shown in the drawings. The shanks 12 of these members are preferably of rectangular cross section and may be fastened to the panel by any suitable means. They preferably extend across the ends of the panel and are secured between the flanges 2 of the channel-strips by transverse rivets 13 or other suitable fastenings, the flanges extending beyond the ends of the panel for this purpose. The web-portion of the channel-strip 3 nearest the pivots of the hinge-members are notched at their ends, as shown at 14, to receive the shanks of said members. The intermediate portions of the shanks may be fastened to the panel-body by ties or clips 15.

While my improvement is herein shown in connection with an index frame or panel, it is also applicable to similar frames or racks used for displaying jewelry and other goods, the jewelry in that case being suspended from hooks or other attachments carried by boards or cards which are slid lengthwise into the channels of the frame.

I claim as my invention:

1. A double-faced index-panel or the like, comprising a stiff sheet and separate inwardly facing channel strips secured lengthwise to opposite edges of said sheet with their flanges arranged at opposite sides of the sheet and spaced therefrom, forming opposing channels on each side of the sheet.

2. A double-faced index-panel or the like, comprising a stiff sheet having its edges turned over to form inwardly-facing flanges, and inwardly-facing channel-strips applied lengthwise to said flanged edges and interlocked therewith, the sheet being arranged midway between the flanges of said strips and spaced therefrom, forming opposing channels on both sides of the sheet.

3. A double-faced index-panel or the like, comprising a stiff sheet of a single thickness of material having its edges turned over to form inwardly - facing flanges, and inwardly - facing channel - strips secured lengthwise to said flanged edges with their flanges arranged on opposite sides of the sheet and spaced therefrom.

4. A double-faced index-panel or the like, comprising a stiff sheet and separate-piece inwardly - facing channel - strips secured lengthwise to the edges of said sheet with their flanges arranged on opposite sides thereof and spaced therefrom, the flanged portions of said strips being folded upon themselves.

5. A double-faced index-panel or the like, comprising a stiff sheet having its edges bent to form inwardly-facing flanges and inwardly - facing channel - strips applied lengthwise to the edges of said sheet with their flanges arranged on opposite sides thereof and spaced therefrom, one of the flanged portions of each strip being folded around the adjacent flange of the sheet.

6. A double-faced index-panel or the like, comprising a stiff sheet having its edges bent to form inwardly-facing flanges and inwardly-facing channel-strips applied lengthwise to the edges of said sheet with their flanges arranged on opposite sides thereof and spaced therefrom, one of the flanged portions of each strip being folded upon itself and its other flanged portion folded around the adjacent flange of the sheet.

7. A double-faced index-panel or the like, comprising a stiff sheet provided on both sides of its margins with inwardly-facing flanges which extend beyond the end of the sheet, and a hinge-member having a shank extending across the end of the sheet and confined between the projecting end-portions of said flanges.

8. A double-faced index-panel or the like, comprising a stiff sheet, inwardly-facing channel-strips secured lengthwise to the edges of said sheet with their flanges arranged on opposite sides thereof, said flanges extending beyond the end of the sheet, and a hinge-member having a shank extending across the end of the sheet and confined between the projecting end-portions of said flanges.

9. A double-faced index-panel or the like, comprising a stiff sheet, inwardly-facing channel-strips secured lengthwise to the edges of said sheet with their flanges arranged on opposite sides thereof, said flanges extending beyond the end of the sheet, and the projecting end portion of one of said strips having a notch in its web, a hinge-member having a shank extending across the

end of the sheet and seated in said notch, and means for securing said shank to the projecting end portions of said flanges.

10. In a leaf structure of the character described, a two faced panel having a marginal guide channel on each side comprising a single, integral, inwardly bent flange on the edge of the panel, and a separate strip of sheet material, bent U-shaped in cross section, extending around the edge of the panel body, the margin of one flange of said strip being bent into engagement with the flange on the panel thereby securing the strip to the panel.

HERBERT J. McCAULEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."