March 17, 1953 P. ZALKIND 2,631,589

REINFORCED FOLDER

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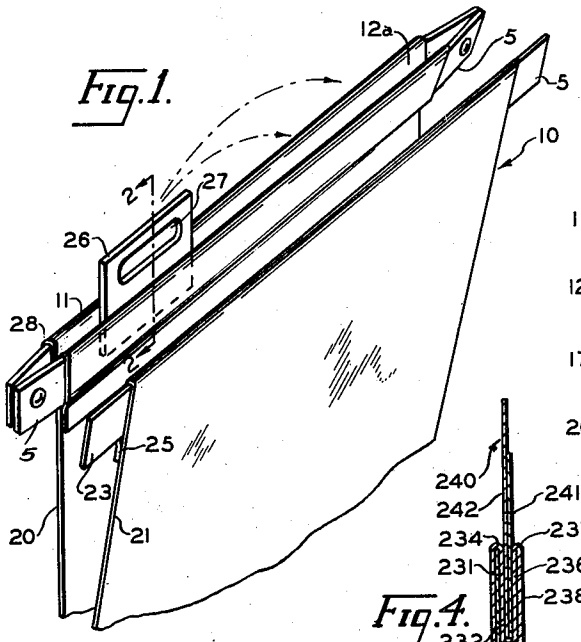


Fig. 1.

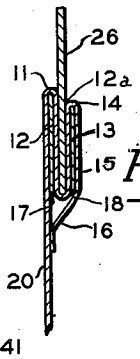


Fig. 2.

Fig. 4.

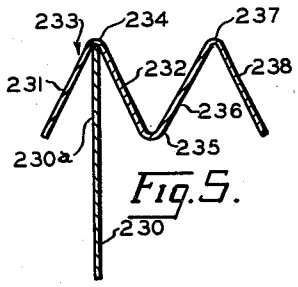


Fig. 5.

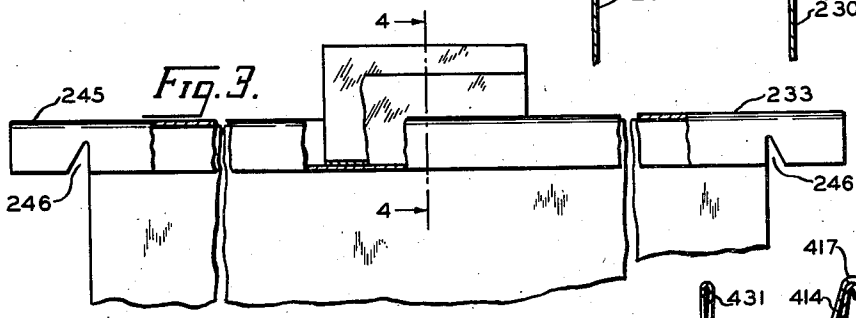


Fig. 3.

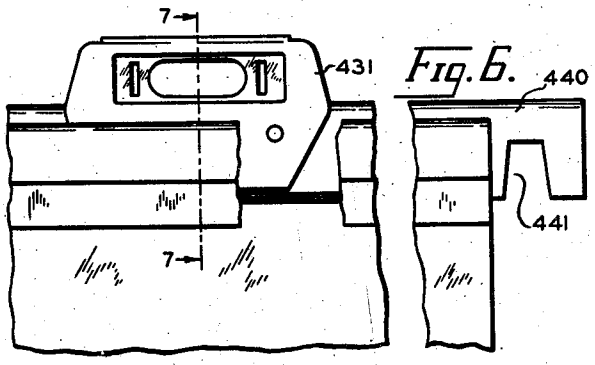


Fig. 6.

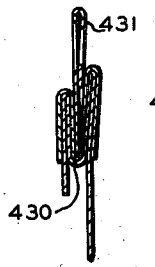


Fig. 7.

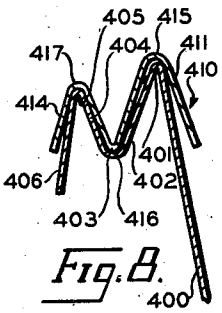


Fig. 8.

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REINFORCED FOLDER

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3 Claims. (Cl. 129—16.7)

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My present invention relates to file folders, cards and the like, and more particularly to index and reinforcing means associated therewith.

File folders commonly comprise a sheet of paper or other fibrous material folded transversely to form articulated leaves or panels. One or more edges of the panels are frequently reinforced and stiffened, one purpose being to resist wear. Means for hanging or suspending such folders and cards have been known for many years.

My invention contemplates novel reinforcing and stiffening means; means at upper or other edges of the folder or card; and also novel securing means for receiving and holding index tabs, labels, markers, flags and the like, hereinafter designated and referred to simply as tabs.

Such means of numerous kinds have been in common use for many years. Some are integral and some permanently attached, as by adhesive, rivets and other means.

My invention contemplates that tabs may be selectively applied at any position along the edge of the folder, card, or other sheet at one or more positions.

My invention further contemplates the use of improved and simplified forms of index tabs or markers.

My invention also contemplates that the index securing reinforcements may extend beyond the edges of the sheet, comprising hanger or suspending means.

Accordingly, a primary object of my invention is the provision of an edge comprising hanger or suspending means.

Another object of my invention is to provide suspending means for the sheet folder or case.

These and many other objects of my invention will become apparent from the following description and drawings in which:

Figure 1 is a view in perspective of a folder embodying my novel index securing reinforcement.

Figure 2 is a cross-sectional view taken on line 2—2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a plan view of another modified form of my index securing reinforcement.

Figure 4 is a cross-sectional view taken on line 4—4 of Figure 3.

Figure 5 is a cross-sectional view corresponding to the cross-sectional view of Figure 4 showing the preliminary step in the formation of the index securing reinforcement of Figure 3.

Figure 6 is a plan view showing another modified form of my index securing reinforcement.

Figure 7 is a cross-sectional view taken on line 7—7 of Figure 6.

Figure 8 is a cross-sectional view corresponding to the cross-sectional view of Figure 7 showing the manner in which the construction of Figure 7 is formed.

Referring now to Figures 1 and 2, I have here

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shown a file holder 10 comprising panels 20 and 21 having conventional construction with the exception, however, that it includes one form of my novel edge construction.

The panel 20 is bent along line 11 to form the re-entrant short panel 12, as seen in Figure 2. The re-entrant short panel 12 is bent up once more along the line 16 to form an upwardly extending panel 13. This panel is again bent along the line 14 to form the downwardly extending panel 15, preferably to a line below line 16.

The reinforcing member 17 may be secured by adhesive or in any other suitable manner against the inner portion of the upper bend line 11 between the panel 20 and the re-entrant panel 12. A similar reinforcing member 18 is secured against the inside of the bend line 14 between the panels 13 and 15. The securement here may also be in any suitable manner, as by adhesive, or held in place by adhesion of members 20 and 12; and member 18 may be similarly held by adhesion of members 13 and 15.

The reinforcing members 17 and 18 may be a strip of any suitable material such as fibre, plastic, wood or metal. There is no adhesive or any other form of securement between the panels 13 and 12 which define a channel or long slot of predetermined depth in which the tab member 26 may be removably inserted and held, the walls of the channel or trench being in close contact with each other.

The reinforcing member 17 and 18 may project beyond the side edges of the panels 20 and 21 to form the extensions 5. The extensions 5 may be fastened together in any suitable manner for added effectiveness so that the panels 13 and 12 will hold together in a clamping relationship to integrate the entire reinforcement.

The short panels 13 and 12 provide a tight close channel for holding tabs, e. g., the index member 26, the flexing of the material permitting the index member 26 to be inserted in the groove between the panels 12 and 13 against the inside of the fold line 16 and holding the tab securely in position. It will thus be seen that an index tab, one or more of the same or varying design, may be readily mounted within the channel 12a formed by the panels 12 and 13, and may be readily removed, or moved to different positions.

The tab 26 may be provided with indicia 27 or with any suitable window in a form now well known to support indicia. The panel 21 may also be folded over at its top edge 24 to form the re-entrant panel 25, and an additional reinforcing strip 23 may be secured between panels 25 and 21 against the inner surface of the bend 24.

The reinforcing member 23 may be the same in form, size and construction as the reinforcing members 17 and 18 (Fig. 2) and may also have extensions 5. The extensions 5 of the various reinforcing members may also serve to suspend the folder in a file drawer or other container on suitable supporting means, such suspension in a file

drawer on a suitable frame or rail or drawer edge being well known for many years.

If desired, the lower edges of the extensions 5 may be provided with notches to position them accurately on the supporting edge or rail.

In Figures 3, 4 and 5, I have shown a slightly modified form of metallic reinforcement, which reinforcement may be more readily understood from the expanded view of Figure 5. Here it will be seen that panel 230 is encased by the flanges 231 and 232 of the reinforcing member 233. The reinforcing member 233 is an M-shaped member in which the flanges 231 and 232 are connected along the bend 234 and in which flange 232 is connected to flange 236 along the bend 235, and in which flange 236 is connected to flange 238 along the bend 237.

The flanges 231, 232, 236 and 238 are formed up so that, as seen in Figure 4, the upper margin 230a of panel 230 is securely encased between flanges 231 and 232 while flanges 232 and 236 form a close-walled groove or trench, the base of which is the bend 235. The flange 238 is pressed tight against the flange 236 to form a finished upper edge 237 for the groove between flanges 232 and 236. The groove between flanges 232 and 236 thus forms a receptacle for the tab 240, the said tab may be a metallic member 241 and a paper indicial carrying strip 242.

It will be obvious that the tab 240 may be moved to any desired position in the groove between flanges 232 and 236. As will also be obvious, the reinforcement 233 may comprise extensions 245 which may be notched at 246 for purposes hereinbefore described.

In Figures 6, 7, and 8, I have shown a simplified reinforcing member for a panel or sheet in which, as is seen in Figure 8, the panel 400 is bent at 401 to form the short panel 402.

Another bend at 403 defines the short panel 404; and another bend at 405 defines the short panel 406. When bent up, the panels 400 to 406 assume the M-shaped formation of Figure 8.

A channel member 410, having panels 411, 412, 413 and 414 separated by the bend lines 415, 416, 417, also has an M-shaped formation corresponding to the M-shaped formation of the paper panel edge. The reinforcing member 410 is mounted over the M-shaped formation of the upper edge of the panel 400 and then clinch together to form the reinforcement shown in Figures 7.

The surfaces of the reinforcing panels 412 and 413 thereby define a groove 430 to receive an index tab 431 of suitable form. The index tab may thus be mounted at any place in the groove 430.

One or more of the legs of the reinforcing member 410 may be extended, as at 440 of Figure 6, to provide a panel or folder carrying extension; and this extension 440 may be notched as at 441 so that it may hang over the edge of a drawer or of an insert, rib or wire in the drawer.

In the foregoing, I have described my invention in connection only with preferred embodiments thereof. Many variations and modifications of my invention and many adaptations thereof to other devices will now be obvious to those skilled in the art. Accordingly, I prefer to be bound not by the specific disclosures herein but only by the appended claims.

I claim:

1. A panel having an edge reinforcement; said reinforcement comprising a second short panel folded down and into substantially parallel arrangement with said first mentioned panel; and a stiffening member between said first panel and said second short panel; said stiffening member extending substantially at least the length of said panels, a third short panel folded up in surface to surface arrangement with said second short panel; and a fourth short panel folded down into substantially parallel arrangement with said third short panel; and a second stiffening member between said third and fourth panels, said stiffening members being joined externally of said second and third panels and disposed in parallel relation so as to define a tab holding space between the second and third panels.

2. A panel having an edge reinforcement; said reinforcement comprising a second short panel folded down and into substantially parallel arrangement with said first mentioned panel; and a stiffening member between said first panel and said second short panel; a third short panel folded up in surface to surface arrangement with said second short panel; and a fourth short panel folded down into substantially parallel arrangement with said third short panel; and a second stiffening member between said third and fourth panels; at least one of said stiffening members extending beyond the ends of said first panel to form suspending members, said stiffening members being joined externally of said second and third panels and disposed in parallel relation so as to define a tab holding space between the second and third panels.

3. A panel having an edge reinforcement, said reinforcement comprising a second short panel folded down and into substantially parallel arrangement with said first mentioned panel; and a stiffening member between said first panel and said second short panel; a third short panel folded up in surface to surface arrangement with said second short panel; a fourth short panel folded down into substantially parallel arrangement with said third short panel; a second stiffening member between said third and fourth panels; said stiffening members extending beyond the ends of said panels and being joined at respective ends.

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