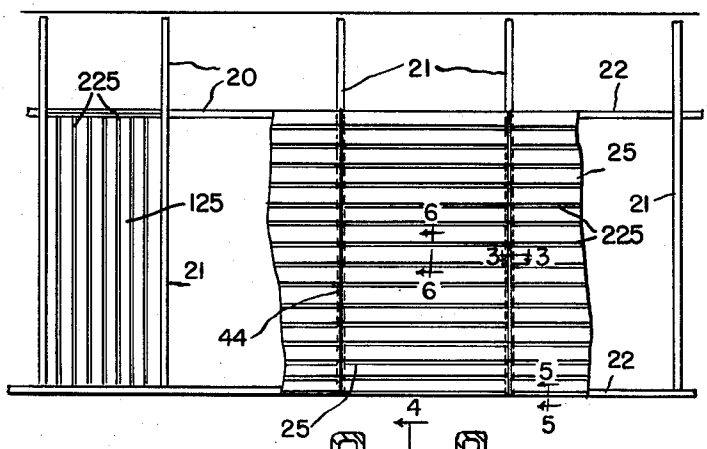
Feb. 23, 1960 C. W. ATTWOOD 2,925,918

DISPLAY BOARD

Filed April 5, 1956 2 Sheets-Sheet 1

FIG.1.



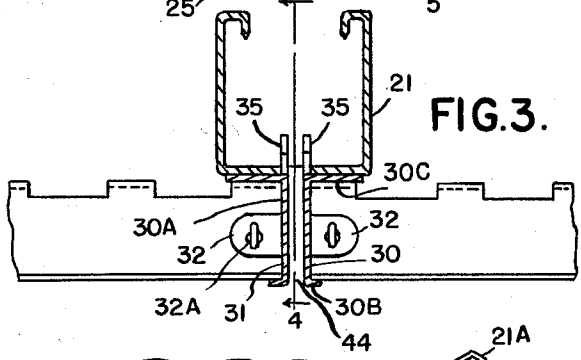


FIG.3.

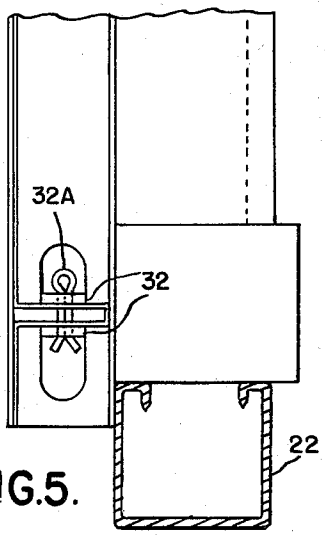


FIG.5.

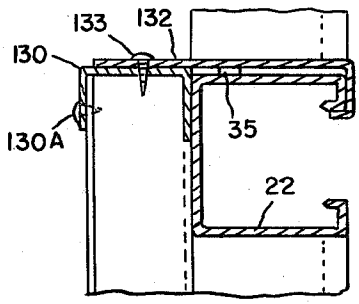


FIG.12.

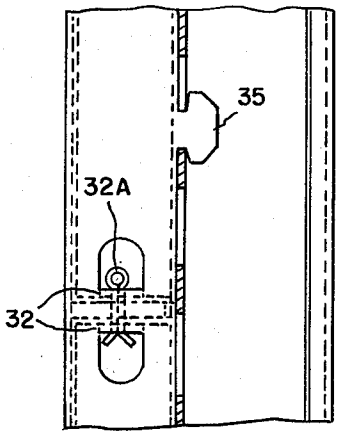


FIG.4.

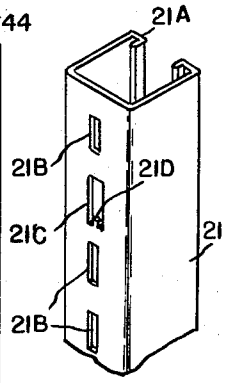


FIG.2.

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DISPLAY BOARD

Filed April 5, 1956 2 Sheets-Sheet 2

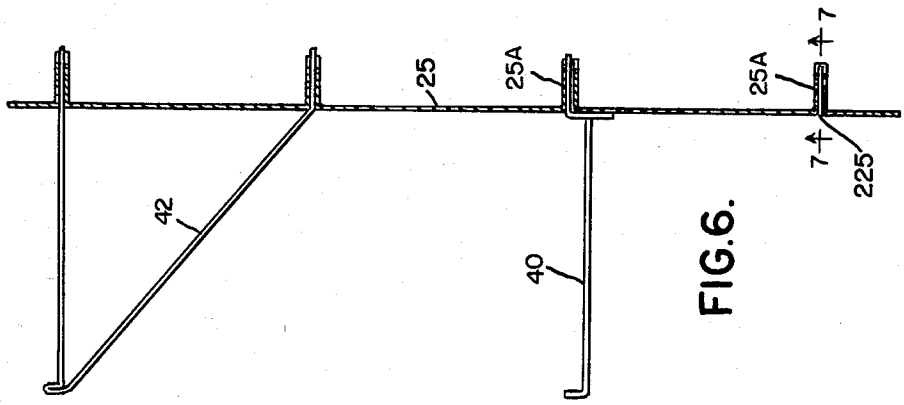

FIG.6.

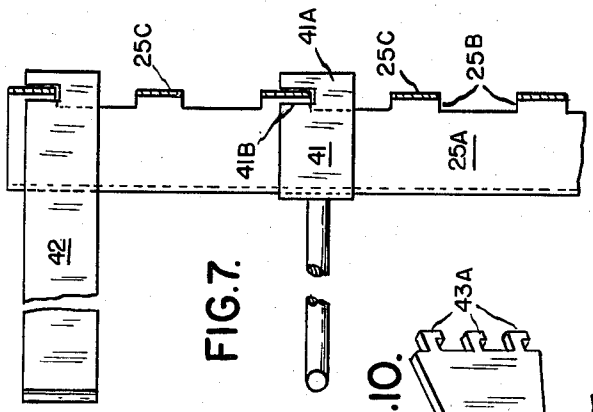

FIG.7.

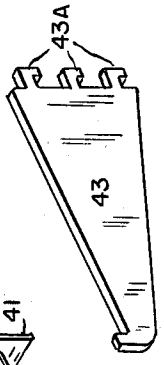

FIG.10.

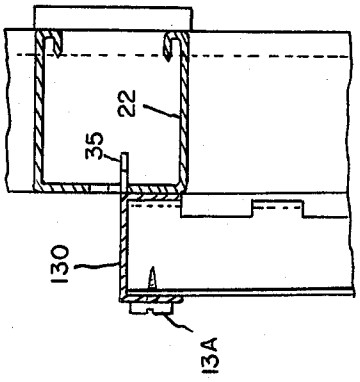

FIG.11.

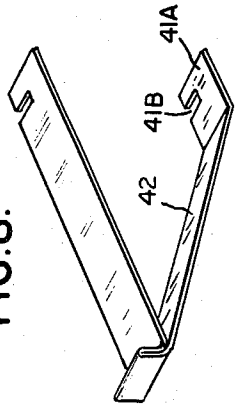

FIG.8.

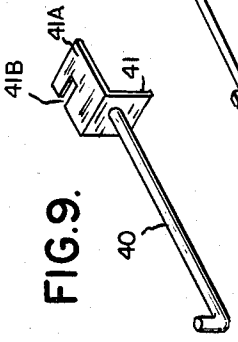

FIG.9.

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2,925,918

DISPLAY BOARD

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Application April 5, 1956, Serial No. 576,315

9 Claims. (Cl. 211—87)

The present invention relates to display boards of the type commonly known as "peg-boards"; that is, it relates to a structure of large area provided with numerous openings for the reception of hangers of various kinds upon which are to be suspended or otherwise supported a multiplicity of articles to be displayed.

The most common form of "peg-board" consists of a sheet of usually plywood or analogous material, provided with rows of small holes into which are inserted supports for the articles. Such boards are open to a number of objections, not the least of which is the fact that they are unwieldy in shipping and installation. Another objection is that frequent changing of location of the supports causes considerable wear of the opening with consequent sloppy fitting.

The present board, on the other hand, is so constructed that it is easy to handle, compact for shipping and is subject to little wear in relocating the supports.

Among the objects of the invention is to provide a display board that will eliminate the above stated objections and provide features not possible with the usual pegboard.

Another object is to provide a metal board that is sufficiently flexible, before being placed in position, to be rolled into a cylindrical form having a relatively small diameter so that it may be easily handled and shipped.

Another object is to provide such a display board and mounting structure with means by which the assembling of the parts into a fixed permanent structure may be accomplished without the use of any tools.

Still other objects and advantages will readily occur to those skilled in the art upon reference to the following description and the accompanying drawings in which

Fig. 1 is a front elevation of an erected display board involving the present invention.

Fig. 2 is a perspective view of a portion of one of the upright frame members.

Fig. 3 is an enlarged section on line 3—3 of Fig. 1.

Fig. 4 is a section on line 4—4 of Fig. 3.

Fig. 5 is an enlarged section on line 5—5 of Fig. 1.

Fig. 6 is an enlarged section on line 6—6 of Fig. 1, showing also suitable hangers and their attachment.

Fig. 7 is a view from the top of Fig. 6 with parts in section.

Figs. 8 and 9 are perspective views of hangers suitable for use with the board.

Fig. 10 is a perspective view of a shelf support suitable for use with the board.

Figs. 11 and 12 are sectional views showing two forms of anchoring a vertical rib panel to a horizontal frame member.

As indicated in Fig. 1, a display board constructed in accordance with the present invention, consists of a frame 20, which may, for example, be erected adjacent a wall or in any suitable location. This frame may be fixed to the floor and ceiling or supported erect in any

suitable fashion and consists of spaced vertical members 21, fixed to horizontal members 22.

Carried on the frame 20 are one or more panels 25 and 125, the frame members and panel dimensions being so coordinated that the side edges of the panels will be located at the center-lines of the frame members. As indicated in Fig. 1, the completed board will present a flat surface having narrow vertical slots at the frame members and a multiplicity of parallel narrow horizontal or vertical slots extending across the panels.

The frame members, as indicated in Figs. 2, 3 and 5 consist of members channel shaped in cross section, having the edge portions of the side walls turned in at right angles and then again inwardly at right angles as shown clearly at 21A, Fig. 2. Also, the channels will be provided in their bottom walls with a plurality of rectangular slots 21B and 21C, the latter being somewhat wider than slots 21B and fewer in number. These slots 21C will be regularly spaced from each other and provided at their lower margins with a short tongue 21D, the purpose of which will be later explained.

The panels 25, as shown in vertical section in Fig. 6, will consist of sheet metal having at regularly spaced intervals laterally extending ribs 25A, which, in the erected board, will be upon the rear face so that the front face will appear substantially smooth with a plurality of horizontal slots 225, these being the openings into the ribs 25A.

The ribs 25A, in cross section, will be substantially rectangular and much narrower vertically than horizontally. As an example, the dimensions of a rib might be an inch horizontally with a vertical distance of one-eighth of an inch between the upper and lower walls. It should be clearly understood, however, that these dimensions are not critical and are only illustrative and they may be varied without departing from the spirit of the invention.

Further, each of the ribs 25A is cut away at the apex of the rib to provide slots 25B (see Fig. 7) separated from each other by a short integral rib portion 25C.

By producing the panels 25 in this form from relatively thin sheet metal, the panel will be sufficiently flexible to enable it to be rolled upon itself with the resulting "roll" of comparatively small diameter and suitable for easy packaging and handling.

For the purpose of vertically stiffening the panels 25 and fixing them to the upright frame members 21, there are fixed to the lateral edges of the panels the strips 30 and 31 shown in cross section in Fig. 3, these being identical except that they are made "right" and "left." They each comprise a sheet metal strip 30A having a short right angle flange 30B which overlies the front face of the panel. At the rear edge of the strip, a second flange 30C overlies the outer ends of the ribs 25A and lies against the face of the frame member 21.

The strips 30 and 31 are suitably fixed to the panels by ears 32 punched out of the strips and fixed to the ribs 25A by any suitable means such as cotter pins 32A. Also at suitable intervals, correponding to the spacing of slots 21C in the frame members, are T-shaped tongues 35 preferably punched out of the flanges 30C. These tongues serve to anchor the panels to the slotted frame members as indicated in Fig. 4, and where two adjacent panels are so anchored to the same frame member, the tongues 21D in the slots 21C serve to maintain the proper spacing of the panels and allow access to all of the slots 21B and 21C through the space between strips 30 and 31.

In Figs. 6 to 10 are illustrated several forms of brackets or supports for objects to be displayed upon the display board.

Figs. 6, 7 and 9 show a single rod, hook or peg 40 having fixed at one end a small right angled plate 41, the aligned portion 41A being notched as at 41B. The notch 41B is so located that it may coact with one of the portions 25C of a rib 25A. In Fig. 8, there is shown a bracket 42 having two of the portions 41A and notches 41B, the two being so spaced as to cooperate with two of the ribs.

In Fig. 10 there is shown a bracket of a form suitable for a shelf support capable of supporting considerably more weight than would ordinarily be supported by brackets 40 and 42. In this form, the bracket 43 will consist of a plate having at one edge a plurality of tongues or hooks 43A spaced to coact with the slots 21B and 21C in a supporting frame member 21, this edge of the plate passing through the space 44 between the strips 30 and 31.

As indicated in Fig. 1, the panels may be arranged upon the supporting frame with the ribs 25A arranged either horizontally or vertically and the horizontal arrangement is preferred. However, the vertical arrangement, if desired, may be had with just a few minor variations.

In the vertical rib panel, the channel members 30 and 31 may be fixed to the panel edges at the ends of the ribs 25A in the manner above described, but it is preferred to fix them in place by means of screws as indicated in Figs. 11 and 12. In these figures, the channel member 130 will be identical with the member 30 or 31 except that openings will be provided for screws 130A in the front flange.

In Fig. 12 is shown means for fixing the panel to a frame member which is not slotted as in Fig. 2. In this construction, a small hooked member 132 is shown as extending over the frame member and secured to the channel member 130 by means of screw 133, the hook being engaged over the edge of the frame member 22.

I claim:

1. A display board comprising a frame including vertical members each provided with a plurality of vertically aligned slots, flexible sheet metal panels mounted on said frame, said panels presenting at their exposed faces a plurality of horizontally arranged parallel slots extending the width of the panels, stiffening means fixed to the lateral edges of said panels and comprising elements adapted to enter said slots and thereby fix said panels to said frame.

2. A display board comprising a frame having spaced vertical members each provided with a vertical series of slots, display panels mounted on said frame and consisting of relatively thin flexible sheet metal formed to provide a plurality of horizontally arranged ribs on one face of said panels, said ribs being open to the other face whereby to present a plurality of horizontal parallel slots, stiffening members fixed to the lateral edges of said panels and means carried by said stiffening members coacting with the slots in the frame members for fixing said panels thereto.

3. A display board comprising a frame having spaced vertical members each provided with a vertical series of slots, some of which are wider than the others, display panels mounted on said frame and consisting of relatively thin flexible sheet metal formed to provide a plurality of horizontally arranged ribs on one face of said panels, said ribs being open to the other face whereby to present a plurality of horizontal parallel slots, stiffening members fixed to the lateral edges of said panels and means carried by said stiffening members coacting with the wider slots in the frame members for fixing said panels thereby whereby adjacent panels are spaced to provide access to the slots in the frame members from the front of the board.

4. A display board comprising a rectangular panel of flexible sheet metal formed to provide a plurality of parallel ribs on one face, said ribs being open to the other face, whereby said panel is stiffened along one axis and sufficiently flexible to be capable of being rolled into a cylindrical form having a relatively small diameter along the axis at right angles thereto, means for counteracting the flexibility, said means consisting of a channel member fixed to said panel at the ends of the ribs and embracing said panel and rib ends.

5. A display board comprising a rectangular panel of flexible sheet metal formed to provide a plurality of parallel ribs on one face, said ribs being open to the other face, whereby said panel is stiffened along one axis and sufficiently flexible to be capable of being rolled into a cylindrical form having a relatively small diameter along the axis at right angles thereto, means for counteracting the flexibility, said means consisting of a channel member fixed to said panel at the ends of the ribs and embracing said panel and rib ends, a supporting frame for said panel and means carried by said stiffening channel for fixing the panel to the frame.

6. A display board comprising a rectangular panel of flexible sheet metal formed to provide a plurality of parallel ribs on one face, said ribs being open to the other face, whereby said panel is stiffened along one axis and sufficiently flexible to be capable of being rolled into a cylindrical form having a relatively small diameter along the axis at right angles thereto, means for counteracting the flexibility, said means consisting of a channel member fixed to said panel at the ends of the ribs and embracing said panel and rib ends, a supporting frame for said panel including slotted upright members, and tongues carried by said stiffening channel for entering the slots in said upright members and thereby fixing said panel to said frame.

7. A display board comprising a supporting frame and a rectangular sheet metal panel formed to provide a plurality of parallel ribs on one face, said ribs being open to the other face, a channel member embracing each of two edges of said panel and embodying means for anchoring said panel to the supporting frame.

8. A display board comprising a frame including spaced channel members each provided with a series of longitudinally spaced slots, some of which are wider than others; a plurality of adjacent relatively thin flexible sheet metal panels spanning the spaces between said channel members and provided with slots arranged to detachably receive portions of article-supporting elements; and means carried by said panels engaging in the wider slots of the channel members to secure the panels to the channel members with spaces between adjacent panels affording access to all of the channel slots by engagement portions of other article-supporting elements.

9. In combination with a display panel consisting of a vertically extending strip of sheet metal formed to provide a plurality of horizontally extending ribs open to the face of said strip, the walls of said ribs being substantially parallel, article supporting hangers having at one end a plate fitting within a rib and means on said plate and on said rib coacting to prevent displacement of said hanger toward the face of the strip.

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