United States Patent [19]

McDonnell

[11] **3,712,696**

[45] **Jan. 23, 1973**

[54] **SHELF-SUPPORTED DRAWER ARRANGEMENT**

[76] Inventor: **Thomas M. McDonnell,** 11 North 4th Avenue, Maywood, Ill. 60153

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[52] **U.S. Cl.** **312/253,** 312/245, 312/270, 312/306, 312/330, 211/88, 248/301

[51] **Int. Cl.**.....**A47b 91/00,** A47b 51/00, A47f 5/00

[58] **Field of Search**.....312/245, 253, 270, 306, 308, 312/309, 311, 204, 330; 211/88, 90, 31; 248/300, 301, 201, 202, 117 J, 316 D, 226 C; 297/192

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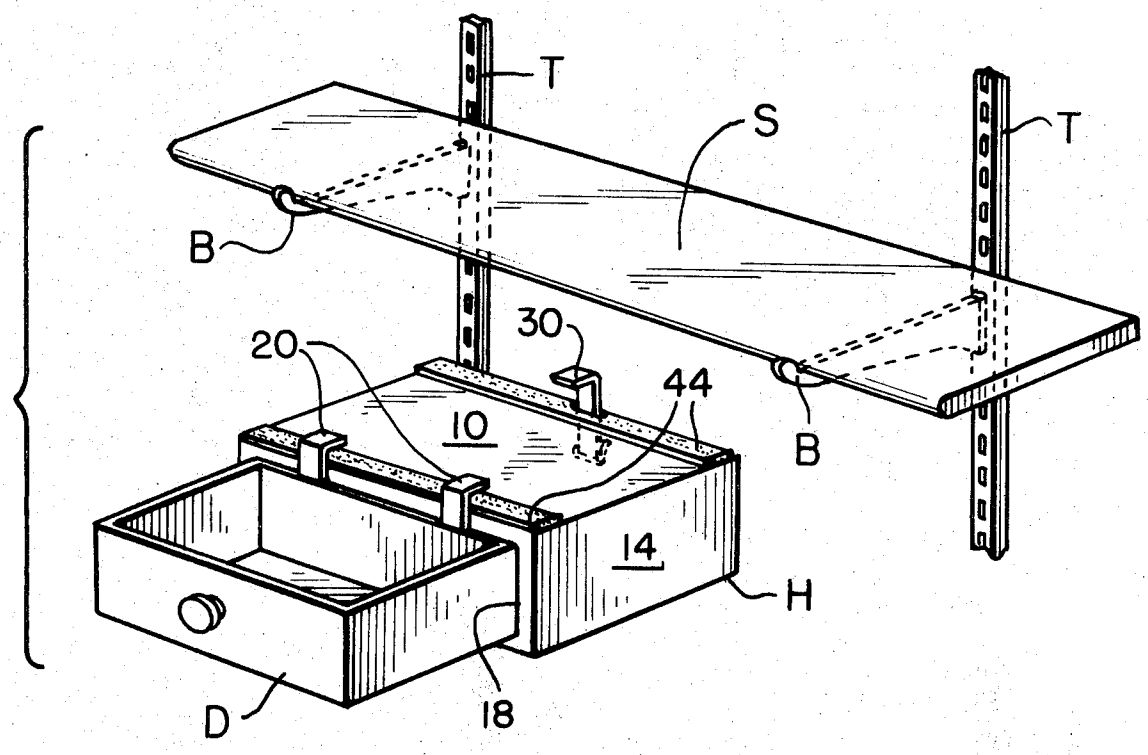
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Primary Examiner—Paul R. Gilliam
Attorney—Richard W. Carpenter

[57] **ABSTRACT**

A shelf-supported drawer arrangement including a housing, one or more drawers, and means for removably attaching the housing to a shelf.

2 Claims, 6 Drawing Figures



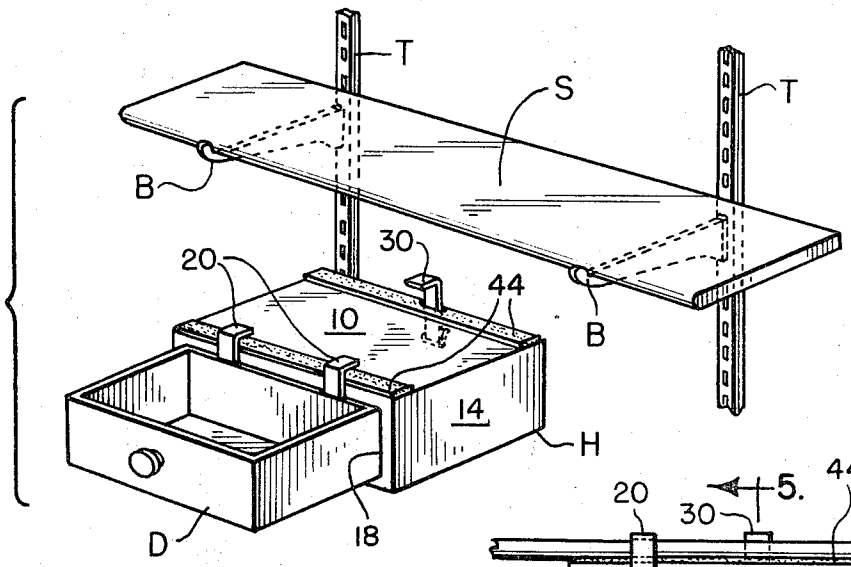


FIG. 1

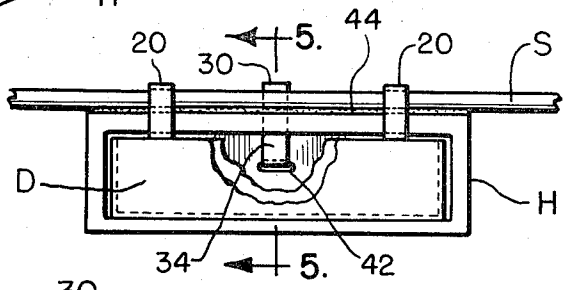


FIG. 2

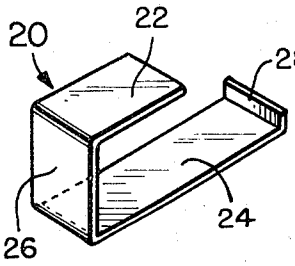


FIG. 3

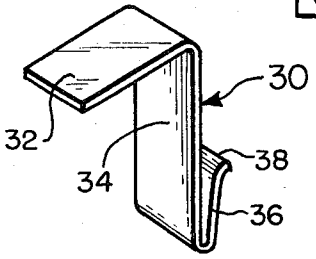


FIG. 4

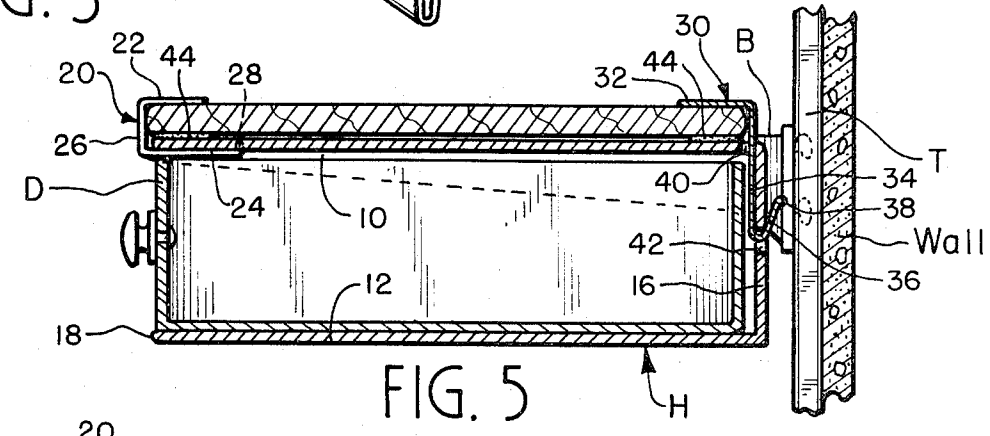


FIG. 5

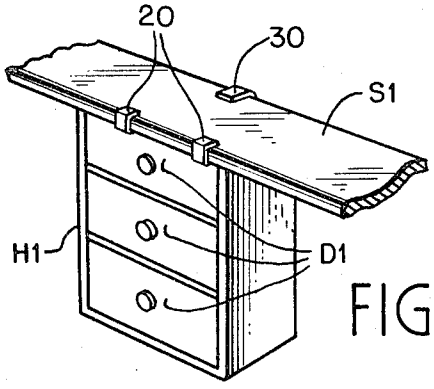


FIG. 6

Inventor
Thomas M. Mc Donnell
By Richard Warren
Attorney

SHELF-SUPPORTED DRAWER ARRANGEMENT

The invention relates to an arrangement for removably suspending a drawer and housing from a free shelf.

In order to provide additional temporary storage space it is desirable to provide a means for mounting drawers in the free areas or spaces between shelves of the type which are adjustably supported by brackets carried by one or more vertical standards.

It is an object of this invention to provide a novel means for suspending, from a shelf, a relatively light weight housing and at least one drawer slidably mounted therein.

A more specific object of the invention is the provision of a mounting means which utilizes a plurality of clips for attaching a drawer housing to the underside of a shelf.

These and other objects of the invention will be apparent from an examination of the following description and drawings, wherein:

FIG. 1 is perspective view of a shelf and drawer housing adapted for attachment thereto;

FIG. 2 is a front elevation of the housing and shelf illustrated in FIG. 1, with the drawer housing shown mounted under the shelf;

FIGS. 3 and 4 are perspective views of the front and rear clip members, respectively, which are illustrated in FIG. 1;

FIG. 5 is a vertical section taken on line 5—5 of FIG. 2; and

FIG. 6 is a perspective view of a modified form of the invention;

It will be understood that, for purposes of clarity, certain elements have been intentionally eliminated where they have been illustrated to better advantage in other views.

Referring now to the drawing for a better understanding of the invention, it will be seen that the drawer D and drawer housing H are adapted to be removably suspended from the underside of a shelf S which is in turn supported by a pair of brackets B carried by or mounted a pair of standards T.

Housing H and drawer D are preferably formed of a relatively lightweight material such as plywood, paperboard, or a plastic material.

Housing H includes top and bottom walls **10** and **12** respectively, a pair of side walls **14**, and a rear wall **16** all of which are joined together at their edges to form a box-like enclosure having an opening **18** at the front thereof for slidably receiving at least one drawer D.

Housing H is removably attached to and suspended under shelf S by means of a pair of front clip members **20** and at least one rear slip member **30**.

As best seen in FIG. 3, front clip member **20** includes a pair of vertically spaced upper and lower elements **22** and **24**, respectively, which are interconnected at their forward extremities by a preferably integrally formed vertical element **26**, which is adapted to engage the front edge of shelf S, to define a generally U-shaped structure adapted to clamp shelf S and housing top wall **10** between the upper and lower elements **22** and **24**.

Both clip members are preferably formed of spring steel or some other material having resilient qualities which afford a spring like action to insure that the engagement between the clip members and the housing and shelf will be snug and firm.

If desired, front clip member lower element **24** may be provided at its rear extremity with an integrally formed upturned tip portion **28** which is adapted to dig into the underside of housing top wall **10** and thereby prevent accidental relative movement between the housing and shelf.

As best seen in FIG. 4, rear clip member **30** includes an upper horizontal element **32**, adapted to engage the upper surface of shelf S, a vertical element **34** depending from the rearward extremity of upper element **32**, and lower hook-like element **36** extending upwardly and rearwardly from the lower end of vertical element **34**.

Vertical element **34** is disposed to engage the rear edge of shelf S and the inner side of housing rear wall **16**, and to extend downward through an opening **40** in housing top wall **10**.

Lower element **36** is adapted to extend rearwardly and upwardly through an opening **42** in the rear wall **16** of housing H in spaced relation to the lower portion of vertical element **34** to clamp a portion of housing rear wall **16** therebetween.

Rear element **36** may be provided at its rear extremity with an integral tip portion adapted to bear against a portion of bracket B to help maintain a snug or firm connection between the housing and shelf.

If desired, to provide an even tighter and more snug connection between the housing and shelf and to insure against any slippage between the shelf and housing, there may be provided a pair of strips of spongy double-faced adhesive material positioned at the front and rear edges of the shelf between the underside of the shelf and the upper surface of housing top wall **10**.

The arrangement illustrated in FIG. 6 is similar in construction and operation to the embodiment illustrated in the previous views except that the housing H 1 is large enough to house a plurality of drawers D 1.

Thus, it will be understood that the invention provides a simple arrangement of light weight construction for a housing and drawer which may be easily and removably attached to and suspended from a horizontal shelf.

I claim:

1. In an arrangement for removably suspending a drawer and drawer housing under a horizontal shelf having free front and rear vertical edges, the combination of:

a. a drawer housing having top, bottom, rear, and side walls interconnected to form a box-like enclosure open at the front for receiving at least one drawer;

b. at least one drawer received within said housing;

c. self-contained, resilient clip means for removably attaching, without bolts, said housing under said shelf, including:

i. at least one front clip member having a pair of upper and lower horizontal elements adapted to snugly engage the upper side of said shelf and the under side of said housing top wall, respectively, and a vertical element interconnecting said horizontal elements;

ii. at least one rear clip member having an upper horizontal element adapted to engage the upper side of said shelf, a vertical element extending downwardly from said horizontal element

through an aperature in said housing top wall, and lower hook-like element extending rearwardly and upwardly from the lower end of said vertical element through an aperature in said housing rear wall;

iii. the vertical element of said rear clip member is disposed to lie against the rear surface of said shelf and against the inner surface of said housing rear wall;

d. said clip means including two clip members at one end of the housing and one clip member at the opposite end of the housing.

2. An arrangement according to claim 1 and including a pair of strips of double-faced, sponge like adhesive tape interposed between the underside of said shelf and the upper side of said housing top wall adjacent the front and rear edges of said shelf.

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