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Skousen

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[54] **SUSPENSION ARRANGEMENT FOR PLANE OBJECTS**

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[51] **Int. Cl.** **A47f 7/16**
[58] **Field of Search** 211/46

[56] **References Cited**

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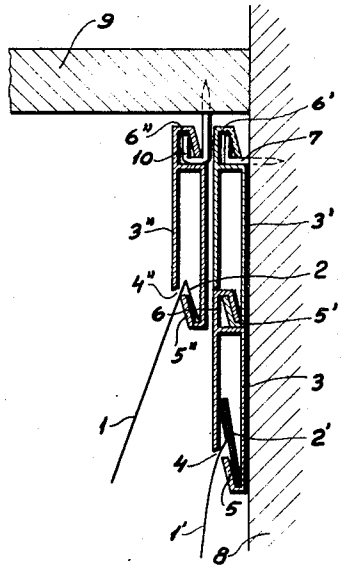
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[57] **ABSTRACT**

A suspension arrangement for suspending a planar sheet of material having a fillet on one end thereof is composed of a horizontally disposed support rail having a hollow chamber therein and a horizontally extending slit communicating with the chamber. The horizontal slit is spaced in proximity to the lower portion of the hollow chamber and the hollow chamber vertically extends from the slit a distance greater than the width of the fillet. Accordingly, the planar sheet can be placed in the suspending apparatus simply by pushing the suspending edge directly into the slit, the fillet being narrow enough to fit entirely within the chamber above the slit so that it will be completely inserted as the sheet is pushed in and then serve to hold the sheet as it rests in the chamber.

3 Claims, 2 Drawing Figures



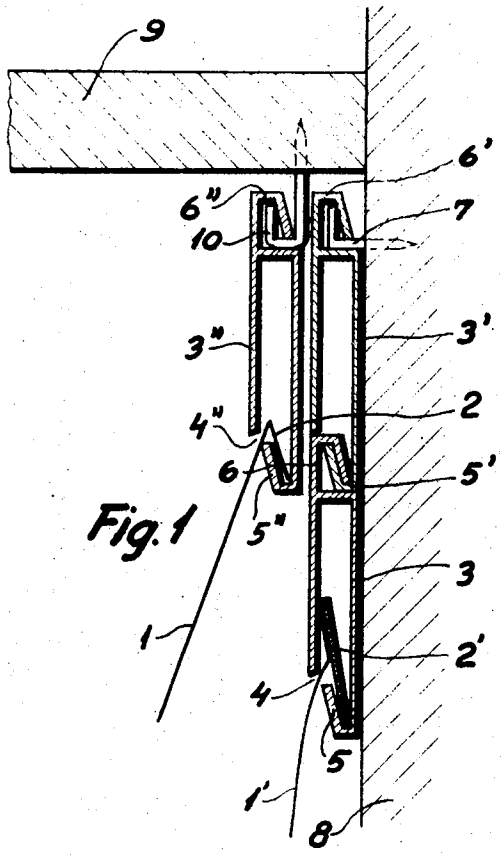


Fig. 1

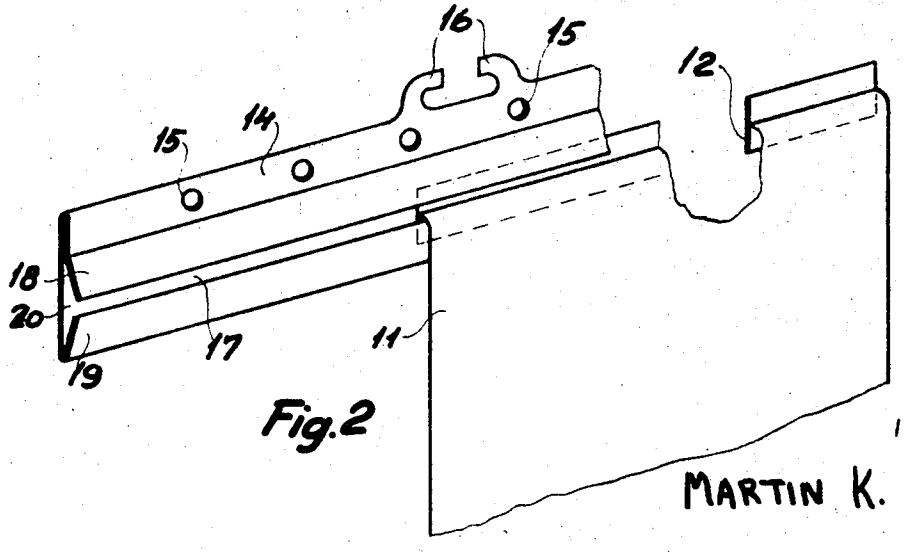


Fig. 2

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SUSPENSION ARRANGEMENT FOR PLANE OBJECTS

This invention relates to a suspension arrangement for plane sheets or similar, substantially plane objects, and it is the aim to provide a simple and rapid means for storing the said objects in a manner that facilitates not only the suspension of the objects but also the removal thereof when a single sheet of a larger number is required.

A further object of the invention is to provide an arrangement that permits easy lateral displacement of the sheets, and a still further object is to provide a simple arrangement by means of which the objects to be filed can be stored in any desired location.

SUMMARY OF THE INVENTION

These and other objects are accomplished according to the present invention wherein a suspension arrangement for suspending a planar sheet of material having a fillet on one end thereof is composed of a horizontally disposed support rail having a hollow chamber therein and a horizontally extending slit communicating with the chamber. The horizontal slit is spaced in proximity to the lower portion of the hollow chamber and the hollow chamber vertically extends from the slit a distance greater than the width of the fillet. Accordingly, the planar sheet can be placed in the suspending apparatus simply by pushing the suspending edge directly into the slit, the fillet being narrow enough to fit entirely within the chamber above the slit so that it will be completely inserted as the sheet is pushed in and then serve to hold the sheet as it rests in the chamber.

DETAILED DESCRIPTION

FIG. 1 shows a support rail 3 of rectangular cross-section and provided with a slit 4 in the lower section of one of the vertical walls, the section of the vertical wall below the slit being drawn slightly inwards towards the opposite wall so as to form a retaining member 5 of hook-shaped cross-section.

On the upwardly facing wall of the rectangular support rail is mounted a fillet 6 of hook-shaped cross-section and cooperating with the hook-shaped retaining member 5′ of a superimposed support rail 3′ so that the upper support rail supports the lower rail.

The hook-shaped fillet 6′ on the upper rail 3′ is adapted for engagement with a suitable number of hooks 7 secured in a wall 8, and it will be readily seen that the rail 3′ is displaceable on the hook-shaped support members 7 and that likewise the rail 3 is displaceable on the rail 3′, so that by hooking the said rails into each other a whole system of lateral or superimposed suspension means may be built up and for instance suspended under a shelf, as indicated in FIG. 1.

To further illustrate the invention the drawing shows a shelf 9 provided with other hook-shaped support members 1o for engagement with the hook-shaped fillet 6″ of another support rail 3″.

In the slit 4″ of the rail 3″ may, as shown in the drawing, be inserted a plane sheet 1 provided along the suspension edge with an edge fillet 2 which forms an acute angle with respect to the sheet. This sheet will be held securely in position, particularly if the fillet 2 is wider than the height of the hook-shaped retaining member 5″ and thus projects upwardly beyond the edge defining the upper extrenity of the slit 4″.

The fillet 2 may in the simplest embodiment be formed by bending the sheet 1, and if the sheet is of adequate flexibility it can be displaced freely in horizontal direction and can, moreover, be withdrawn simply by a downward pull.

The drawing also shows a paper sheet 1′ which is glued along its upper edge to a fillet 2′, which may conveniently be of a more rigid material such as thick paper or thin cardboard, and which like the fillet 2′ shown here, may be secured to the sheet so as to project beyond the sheet at both sides thereof. In this embodiment the sheet cannot be withdrawn by a mere downward pull, but the sheet is retained more effectively and the carrying capacity will be greater, so that the sheet can be used in any convenient manner to support of a certain weight, for instance by gluing objects to the sheet or by providing it with pockets or channels in which articles may be deposited.

It will be readily seen that with an arrangement like this a relatively large number of sheets may be filed in a limited space and yet easily removed by lateral withdrawal. The displacement may be effected for instance by relative displacement of the rails, whereby a single sheet is extracted from the bundle while still suspended in its rail and thus exposed for inspection. All the sheets can be removed by lateral displacement. If sheets of the same size are super-imposed the lower edge of each sheet will be visible and available for marking or display purposes.

FIG. 2 shows a particularly simple and cheap embodiment of the filing arrangement which, on account of its cheapness and limited space requirements, provides still further possibilities of application than already suggested above.

The drawing shows a sheet of paper 11 secured along its upper edge to a fillet 12 and glued to the upper half of the fillet in the same manner as illustrated by the sheet 1′ in FIG. 1. The fillet 12 is inserted in a support rail 14 comprising two layers of cardboard or other sheet material which are glued together along their upper edge to form the rail, which is provided with holes 15 and suspension hooks 16. By means of these hooks the support rail can be suspended in known manner on a transverse rail provided for this purpose, or the support rail may by means of the holes 15 be filed in a loose-leaf book or similar filing systems.

Along the central longitudinal region of the support rail the two layers are not joined together, and one of the layers is provided with an approximately central longitudinal slit 17 so as to form two flanges 18 and 19 with opposed edges and behind which there is a narrow hollow space 2o for receiving the fillet 12. In the drawing the fillet is shown partially inserted in the support rail.

The rail itself may be made from various materials such as plastics of various types and they may be joined by welding or gluing as appropriate to the material. Also the dimensions may be adapted to requirements.

What I claim is:

1. A suspension arrangement for suspending a planar sheet of material from its edge, said sheet having a fillet integral with the edge from which the sheet is suspended, said fillet forming an acute angle with respect to said sheet, comprising: a horizontally disposed support rail of substantially rectangular cross-

section and having a chamber therein horizontally extending at least the length of the sheet to be suspended, said chamber vertically extending a distance greater than the width of said fillet, said support rail further having a longitudinally extending receiving slit formed in a vertical wall of said support rail such that the wall section below said slit together with the lower horizontal wall of said support rail forms a retaining member of hook-spaced cross-section, said slit communicating with said chamber and located in said support rail so that the distance from said slit to the top of said hollow chamber is greater than the width of said fillet.

2. A suspension arrangement according to claim 1, in which a fillet of hook-shaped cross-section is provided at the top of the rectangular support rail.

3. A suspension arrangement accordin to claim 1, the wall section below the slit forms an obtuse angle with the lower horizontal wall.

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