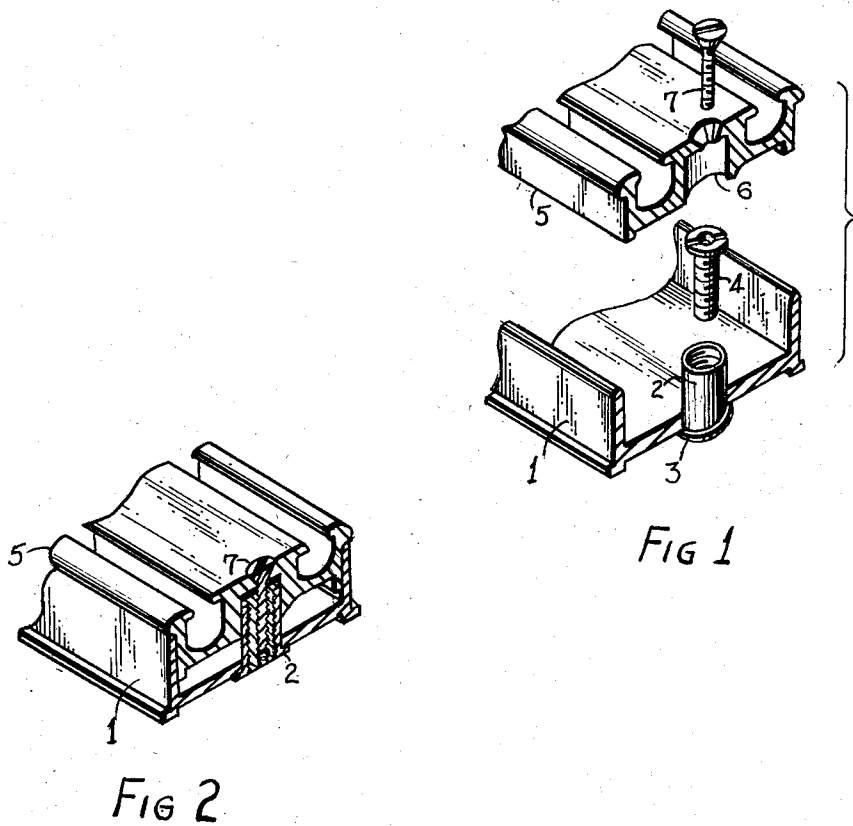


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ADJUSTABLE MOUNTING MEANS

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ADJUSTABLE MOUNTING MEANS

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1 Claim. (Cl. 16—94)

This invention relates to adjustable mounting means for leveling sliding door channels and the like.

More specifically, the invention relates to channels for sliding doors such as shower doors, for instance on bathtubs, and means to level said channels horizontally and to make them plumb in the vertical direction.

The invention generally comprises a first channel member having a U-shaped cross section which is adapted to be nailed or screwed to the wall or floor or other supporting structure, a second channel member adapted to fit into the wall member, the second member being designed to contain the rollers for the doors or windows. Many floors are not level and furthermore have waves in them. Furthermore, the walls are not actually plumb and also have waves which vary from the plumb line due to settling of the building and uneven plastering, etc.

The present invention provides means for mounting the door sliding channel to the wall or base member with adjustable depth to compensate for any variations from the true level or plumb lines.

The mounting means comprises a first barrel member which is adapted to fit through the wall channel and which is internally threaded. A second hollow screw member is adapted to screw into the barrel member and it is also internally threaded. The door slider channel is adapted to fit or rest on this hollow screw, and is adapted to be fastened thereto by another screw member.

Accordingly, the principal object of the invention is to provide new and improved mounting means for sliding door and the like.

Another object of the invention is to provide new and improved mounting means for mounting shower doors on bathtubs.

Another object of the invention is to provide new and improved leveling means for sliding doors and windows.

Another object of the invention is to provide improved leveling means and means for making plumb sliding doors and window channels.

Another object of the invention comprises channel mounting means for sliding doors, comprising first channel means adapted to be fastened against a wall or floor, second channel means adapted to fit on said first channel means, and adjustable fastening means to level said second channel means comprising a first barrel member adapted to fit into said first channel. The hollow internally threaded screw member adapted to screw into said barrel member and a third screw member adapted to screw into said hollow screw member whereby said second channel may be leveled or made plumb.

These and other objects of the invention will be apparent from the following specification and drawings of which:

Figure 1 is an exploded perspective view of an embodiment of the invention; and

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Figure 2 is a perspective view partly in cross section of an embodiment of the invention.

Referring now to the drawings, the channel 1 has a generally U-shaped cross section and is adapted to be securely fastened to the wall or floor by means of nails, screws, or cementing. This channel 1 has a series of holes regularly spaced which are adapted to accommodate the barrel member 2. Note that the center of the channel member 1 is raised slightly so that the lip 3 of the barrel member may fit under it and between it and the wall or floor.

The barrel member 2 is internally threaded and adapted to accommodate the adjustable leveling screw 4. The door sliding channel 5 has a series of wells 6 on its bottom surface into which the head of the screw 4 is adapted to fit. Therefore, the door sliding channel 5 will rest on the head of the leveling screw 4. The channel 5 has a small hole at the center of these wells 6 which is adapted to accommodate a conventional fastener screw 7.

In setting up the apparatus, the channel 1 is first securely fastened to the wall or other supporting structure with the barrel members having first been inserted through the holes in the channel 1. The screws 4 are then screwed into the barrel member 2 and the second channel member 5 is laid on top of the screws 4. The screws 4 are then adjusted in depth so that the second channel member is perfectly level or plumb if it is vertical. When the channel 5 has been levelled or made plumb, it is then fastened tightly with the conventional screws 7. Therefore, the present adjustable fastening means provides simple and reliable means for leveling sliding door channels and the like.

The members including the barrel member 2, the internally threaded screw 4, and the screw 7 are preferably made of die cast aluminum. The screw 7 is conventional.

The screw type leveling device of the present invention is not limited to leveling channels for sliding doors but may be used in various leveling problems which will occur to those desiring to practice the invention.

We claim:

Adjustable means for mounting sliding doors comprising a first channel adapted to be fastened to a surface, a second channel adapted to rest in said first channel with the legs of the respective channels in juxtaposition to thereby provide mutual side support, adjustable leveling means to connect said first and second channels to level said second channel including means to support said second channel, said support means comprising an internally threaded barrel member extending through an opening in the web of said first channel and into the space between the legs of said second channel, a flange on said barrel member mounted between the legs of said first channel to thereby prevent said barrel being drawn through said first channel, a hollow internally threaded screw member adapted to screw into said barrel member, the head of said hollow screw member fitting under and supporting said second channel, and a screw adapted to fasten said second channel on top of said hollow screw member.

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