

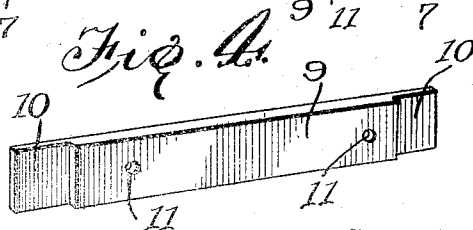
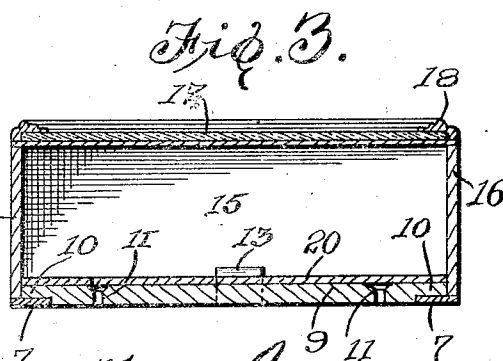
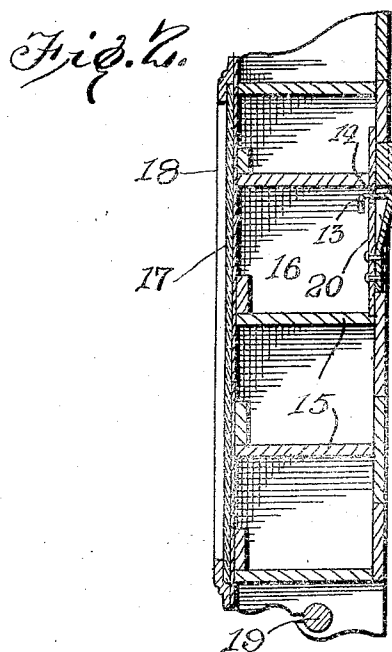
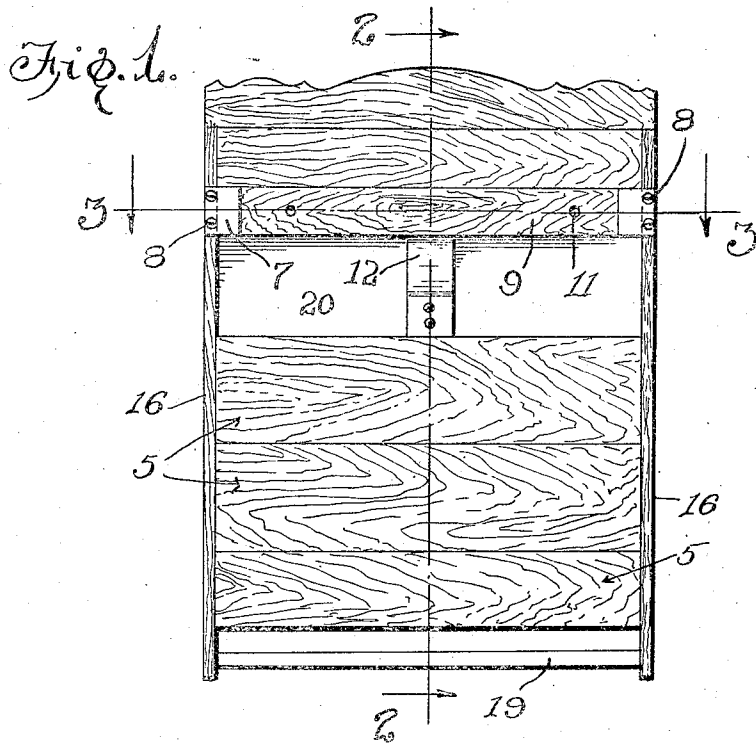
May 17, 1927.

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1,629,430

SUPPORT

Filed July 30, 1926



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UNITED STATES PATENT OFFICE.

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SUPPORT.

Application filed July 30, 1926. Serial No. 126,056.

This invention relates generally to supports, and has more particular reference to an improved means for mounting or hanging wall cabinets, wall mirrors, pictures and the like.

The primary object of the invention is to provide means whereby various articles may be conveniently and effectively hung upon a wall without danger of being accidentally dislodged, but in such manner as to be capable of ready intentional removal.

A still further object is to provide an article hanging means of the above kind which may be readily placed into practical use without liability of causing damage to the wall when the article is being hung or removed.

Still another object is to provide means for hanging wall cabinets and like articles, which is extremely simple and durable in construction as well as efficient in operation.

A further object is to provide an improved wall cabinet construction and hanging means therefor whereby hanging of the cabinet upon a wall, as well as its removal from the wall may be conveniently and effectively accomplished.

Other objects will become apparent as the nature of the invention is better understood, and the same consists in the novel form, combination and arrangement of parts herein-after more fully described, shown in the accompanying drawing and claimed.

In the drawing, wherein like reference characters indicate corresponding parts throughout the several views—

Figure 1 is a rear elevational view of a wall cabinet embodying a hanging means constructed in accordance with the present invention;

Figure 2 is a vertical sectional view, thereof taken substantially upon line 2—2 of Figure 1;

Figure 3 is a horizontal sectional view taken on line 3—3 of Figure 1; and

Figure 4 is a rear perspective view of the horizontal mounting bar forming part of the hanging means.

In accordance with the present invention, the article to be hung with its wall 5 flatly disposed in contact with the wall of the room in which the article is to be placed, is provided in said wall 5 with a recess generally indicated at 6. As shown, this recess 6 is provided in the rear surface of the wall 5

and is of horizontally elongated rectangular form.

Rigidly attached to the sides of the article to be hung and projecting inwardly toward each other in spaced relation to the bottom of the recess 6 and so as to overlie the upper corner portions of the latter are opposed flanges or tongues 7 preferably consisting of flat rigid metallic plates attached to the sides of the article by means of screws 8 or the like.

The hanging means further embodies a straight supporting bar 9 of a length substantially equal to the length of the recess 6 but of a width substantially less than one-half the width of recess 6 and having the rear sides of its ends rabbeted to provide tongues 10 of a thickness to snugly seat between the flanges 7 and the bottom wall of recess 6 when the bar 9 is disposed horizontally with its upper edge contacting the upper edge of recess 6 as shown clearly in the several views. This bar 9 is provided with a plurality of transverse openings as at 11 so that screws or other driven fasteners may be readily passed therethrough for being anchored into the wall of the room whereby the bar 9 is rigidly fastened to said wall of the room in a horizontal position. It will thus be seen that with the strip or bar 9 rigidly attached to the wall of the room as above pointed out, and seated in the upper portion of recess 6 with its ends or end tongues 10 engaged behind the flanges 7, the article embodying the wall 5 will be effectively supported or hung.

In hanging the article in this manner it is simply necessary to attach the bar 9 to the wall so that the tongues 10 thereof will be spaced from the wall, and then press the article to be hung against the wall until the bar 9 is seated in the lower portion of recess 6. The article to be hung is then allowed to lower so that the bar 9 is ultimately disposed in the upper portion of recess 6 with the end tongues 10 engaged behind the flanges 7. Naturally, a mere reversal of this operation is all that is necessary to effect removal of the article from the wall. In other words, by simply lifting the article until the bar 9 is disposed in the lower portion of recess 6 with its end tongues 10 disengaged from behind the flanges 7, the article is entirely freed for removal.

In order to prevent accidental dislodg-

ment of the article hung in this manner, suitable means is provided in the recess 6 of the wall 5 and associated with the bar 9 for maintaining the latter against downward movement in the recess 6 or for preventing upward displacement of the article relative to the bar 9 when the tongues 10 of the latter are engaged behind the flanges 7. This means may consist of a resilient spring catch 12 vertically disposed in the central lower portion of recess 6 with its lower end attached to the bottom wall of said recess and its upper end disposed to lie in the path of the lower edge of the bar 9 when the latter is seated with its end tongues 10 behind the flanges 7. The catch 12 is preferably formed from thin gage metal with its upper free end normally tensioned to spring rearwardly away from the bottom wall of recess 6 in the path of the bar 9 as shown clearly in Figure 2, and suitable means is provided for flexing the catch 12 forwardly into flat contact with the bottom wall of recess 6 whereby the same may ride upwardly under the bar 9 when the article is lifted for being readily removed. As shown, the catch 12 is provided with a horizontal forwardly projecting upper end as at 13 extending freely through a slot 14 in the bottom wall of recess 6 and having a finger piece upon its forward end so that the catch may be readily manually flexed for its release. However, when the hanging means is employed in connection with pictures, mirrors and the like, other means may be provided for flexing the catch for its release, operable from a side of the mirror or picture frame.

The construction shown is particularly applicable for wall cabinets, such as medicine cabinets, combined toilet cabinets and towel racks and the like. In the construction shown the wall 5 constitutes the rear wall of a cabinet whose interior is divided by a plurality of superimposed horizontal flanged partitions 15 so as to form a plurality of superimposed trays for reception of various articles, the cabinet also including end walls 16 and a front door consisting of a mirror 17 mounted in a frame 18. This door is usually of the horizontal swinging type having suitable latching means for retaining it in closed position. This type of cabinet also has its side walls formed with projecting lower ends which support the usual horizontal towel supporting bar 19 in the usual manner.

In the specific embodiment of the invention illustrated the flanges 7 consist of metallic plates attached to the rear edges of the side walls 16 of the cabinet, and the rear wall 5 is formed with the recess 6 by leaving an opening therein and covering this opening by means of a sheet metal plate 20 suitably secured to the inner or front side

of the wall 5. The plate 20 thus forms the bottom wall of recess 6 and has the catch 12 riveted or otherwise secured thereto. Further, the slot 14 is formed in the plate 20 and the horizontal upper end portion 13 of the catch 12 extends through a slot in the plate 20 and has its finger piece exposed within the interior of a compartment of the cabinet. In view of this construction it will be seen that it is necessary to open the door of the cabinet in order to have access to the finger piece of the catch 12 for release of the latter, and if the door is provided with a suitable lock, removal of the cabinet from the wall will be effectively prevented by other than authorized persons.

From the foregoing description it is believed that the construction and manner of use as well as the advantages of the present invention will be readily understood and appreciated by those skilled in the art.

Minor changes may be made without departing from the spirit and scope of the invention as claimed.

What I claim as new is:—

1. In combination, an article having a wall adapted to be disposed in contact with the wall of a room or the like and formed with a recess in the rear side thereof, inwardly projecting rigid flanges overlying the upper corner portions of the recess in spaced relation to the bottom wall of the latter, a bar adapted to be rigidly fastened to the wall of the room in a horizontal position and having reduced ends adapted to seat behind said flanges when the bar is seated in the upper portion of the recess, and a catch mounted in the recess and positionable to engage the lower edge of said bar for preventing its displacement in the recess from behind said flanges.

2. In combination, an article having a wall adapted to be disposed in contact with the wall of a room or the like and formed with a recess in the rear side thereof, inwardly projecting rigid flanges overlying the upper corner portions of the recess in spaced relation to the bottom wall of the latter, a bar adapted to be rigidly fastened to the wall of the room in a horizontal position and having reduced ends adapted to seat behind said flanges when the bar is seated in the upper portion of the recess, a catch mounted in the recess and positionable to engage the lower edge of said bar for preventing its displacement in the recess from behind said flanges, and means for facilitating manual release of said catch from the path of said bar.

3. In combination, an article having a wall adapted to be disposed in contact with the wall of a room or the like and formed with a recess in the rear side thereof, inwardly projecting rigid flanges overlying the upper corner portions of the recess in

spaced relation to the bottom wall of the latter, and a bar adapted to be rigidly fastened to the wall of the room in a horizontal position and having reduced ends adapted to seat behind said flanges when the bar is seated in the upper portion of the recess, said recess being of a width substantially more than twice the width of said bar whereby the article may be placed into engagement with the bar so that the latter is seated in the lower portion of the recess and then lowered for causing engagement of the ends of the bar behind said flanges with the bar seated in the upper portion of the recess.

4. In combination with a wall cabinet having a rear wall provided with a recess in the rear side thereof, rigid flanges fixed to

the sides of the cabinet and projecting inwardly toward each other so as to overlie the upper corner portions of said recess in spaced relation to the bottom wall of the latter, and a bar of a length substantially equal to the length of the recess adapted to be seated within the latter with its ends engaged behind said flanges, said bar being adapted to be rigidly fastened in a horizontal position to a wall of a room or the like, said rear wall of the cabinet having an opening covered by a plate forming the bottom of said recess, and a catch attached to said plate for retaining the bar seated in the upper portion of the recess.

In testimony whereof I affix my signature.
ALEXANDER ALLEN.