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L. FRIEDMAN

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MEANS FOR SECURING ARTICLES TO WALLS AND THE LIKE

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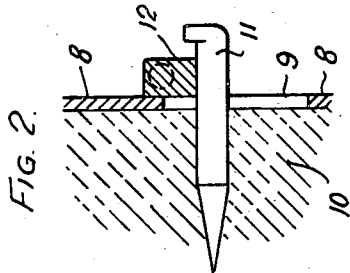
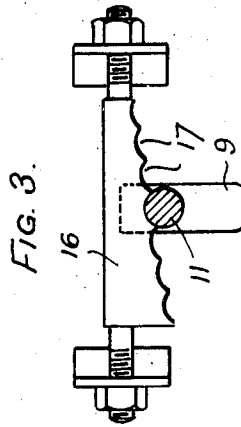
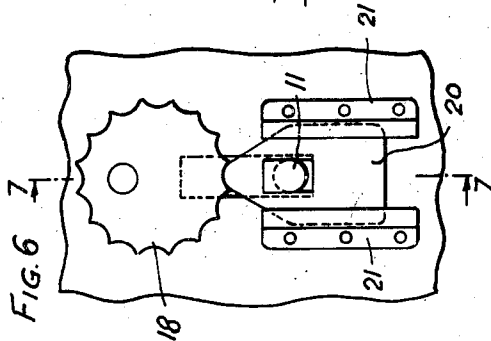
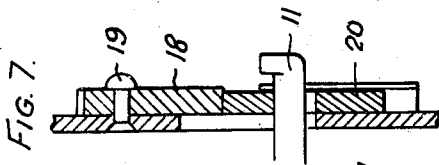


FIG. 5.

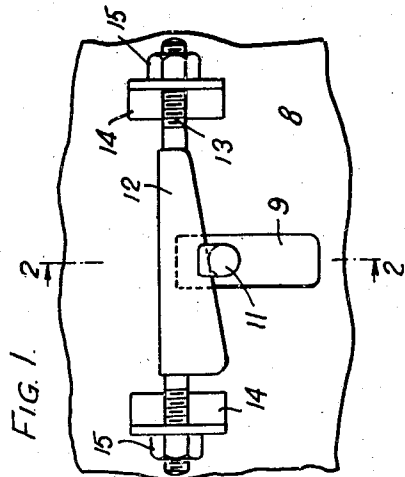
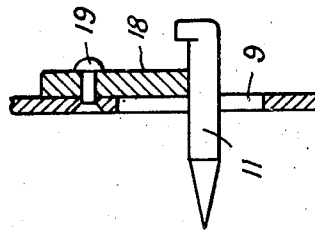
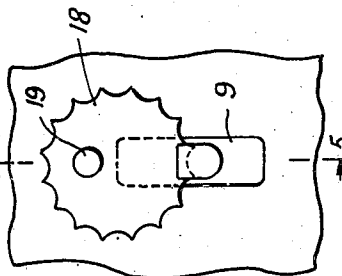


FIG. 4.



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## UNITED STATES PATENT OFFICE

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MEANS FOR SECURING ARTICLES TO WALLS  
AND THE LIKE

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De La Rue Gas Development Limited, London,  
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3 Claims. (Cl. 248—216)

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This invention relates to improved means for securing articles to walls and the like and is applicable to the mounting of articles such as cupboards, cabinets, gas heating appliances and generally any articles having a back plate or like member which is secured to the wall or the like and on which the article is supported.

Heretofore it has been the practice to secure holding means such as hooks, screws, bolts or the like in the wall adapted to engage with suitable slots provided in the back plate carrying the article to be mounted and in some cases to tighten such means against the back plate when the latter is in position.

With such arrangements it was difficult after the article was mounted to correct any inaccuracies in the positioning of the holding means as if after tightening up the securing means it was found that the back plate or the like was out of the horizontal it was necessary to unfasten it and adjust the position of the holding means in the slots which could only be done to a limited extent and in many cases by taking down the complete article.

The invention has for its object to provide improved means for adjusting the position of the back plate or the like in cases of inaccurate placing of the holding means.

According to the invention plain elongated slots are provided in the back plate or the like and means are provided on the plate and separate therefrom whereby the depth of the slots can be independently adjusted without removing the plate or the like from the wall.

Thus any inaccuracies in the vertical positioning of the securing bolts or the like can be adjusted. The slot adjusting means may consist of suitably shaped plates or wedges slidably mounted on the back plate or the like and adapted to be moved over the vertical slots to adjust their length or depth. Alternatively rotary members such as cams or eccentrically mounted members may be provided adapted to be turned to cover the desired parts of the slots.

To enable the invention to be fully understood it will now be described by reference to the accompanying drawing, in which—

Fig. 1 is a front elevation of a portion of a back plate secured to a wall or the like and having one form of the invention applied thereto, and

Fig. 2 is a sectional view on line 2—2 of Fig. 1.

Fig. 3 is a view of a further form of the invention.

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Fig. 4 is a front elevation and Fig. 5 is a sectional view on line 5—5 of Fig. 4 of another form of the invention, and

Fig. 6 is a front elevation and Fig. 7 is a sectional view on line 7—7 Fig. 6 of a further form of the invention.

Referring to Figs. 1 and 2. A back plate 8, which may be the supporting part of an article such as a cupboard, gas-heated appliance, or the like is provided with an elongated slot 9 by means of which the plate is to be supported upon a wall 10 by means of a bolt 11. In order to vary the depth of the slot 9 for adjustment purposes as hereinbefore referred to, a wedge 12 is provided, mounted on a spindle 13 which is slidably mounted in brackets 14 secured to the plate 8. The ends of the spindle are screw-threaded and fitted with nuts 15.

With this arrangement when the plate is hung upon the bolt 10, as indicated in Fig. 2, the wedge 12 is in contact with the bolt and by manipulating the nuts 15 it can be moved across the slot 9 thus raising or lowering the plate upon the bolt according to requirements. This adjustment can be effected without removing the plate from the wall.

The plate may have a series of supporting slots therein, each provided with the adjustable wedge device.

Fig. 3 shows a wedge device similar to that shown in Figs. 1 and 2 but in this case the wedge 16 is provided with a serrated bottom surface 17, the serrations being adapted to engage the bolt 11.

In the arrangement shown in Figs. 4 and 5 the wedge device is replaced by a serrated disc 18 which is eccentrically mounted on a pivot pin 19 and covers the upper part of the slot 9. The disc is in contact with the wall bolt 11 when the plate 8 is hung thereon and by turning the disc about its pivot 19 and adjustment of the effective depth of the slot and hence the position of the plate 8 can readily be effected.

Figs. 6 and 7 show an arrangement wherein a washer member 20 is applied over the wall bolt 11 and the back plate 8 is provided with guides 21 so that it can be slidably mounted on the member 20. An eccentrically pivoted disc 18, similar to that shown in Fig. 4 is mounted on the plate and is adapted to make contact with the top of the member 20. With this arrangement, to adjust the position of the back plate the disc 18 is rotated causing the guides 21 to move up and down on the sides of the member 20.

If desired a further adjustment can be obtained by applying an eccentrically mounted washer to

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the wall bolt cooperating with the sliding wedge or eccentric disc devices hereinbefore described.

I claim:

1. Means for adjustably securing an article to a wall or the like comprising the provision in the back plate of the article, on in a plate to which an article is to be attached of a plain elongated slot adapted to engage a supporting wall bolt or the like and adjustable means carried by the plate and separate therefrom for varying the effective length of the slot relative to the bolt whereby the position of the plate can be adjusted without removing it from the wall or the like.

2. Means according to claim 1 wherein the plate is provided with a slidable wedge-shaped member adapted to be moved over the slot in contact with the wall bolt or the like to adjust the effective length or depth of the slot and so to alter the position of the plate relative to the wall bolt or the like.

3. Means for adjustably securing an article to a wall or the like comprising the provision in the back plate of the article, or in a plate to which an article is to be attached of a plain elongated slot adapted to engage a supporting wall bolt or the like, adjustable means carried by the plate and separate therefrom for varying

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the effective length of the slot relative to the bolt whereby the position of the plate can be adjusted without removing it from the wall or the like, said wall bolt or the like being provided with an eccentrically mounted washer member which can be rotated to cooperate with the movable adjustable member on the plate to vary the effective length of the slot, and a washer member for said wall bolt adapted to engage between slide guides carried by the back plate or the like the washer member being arranged to make contact with the movable adjustable means carried by the plate for adjustment purposes.

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