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ADJUSTABLE ANCHOR

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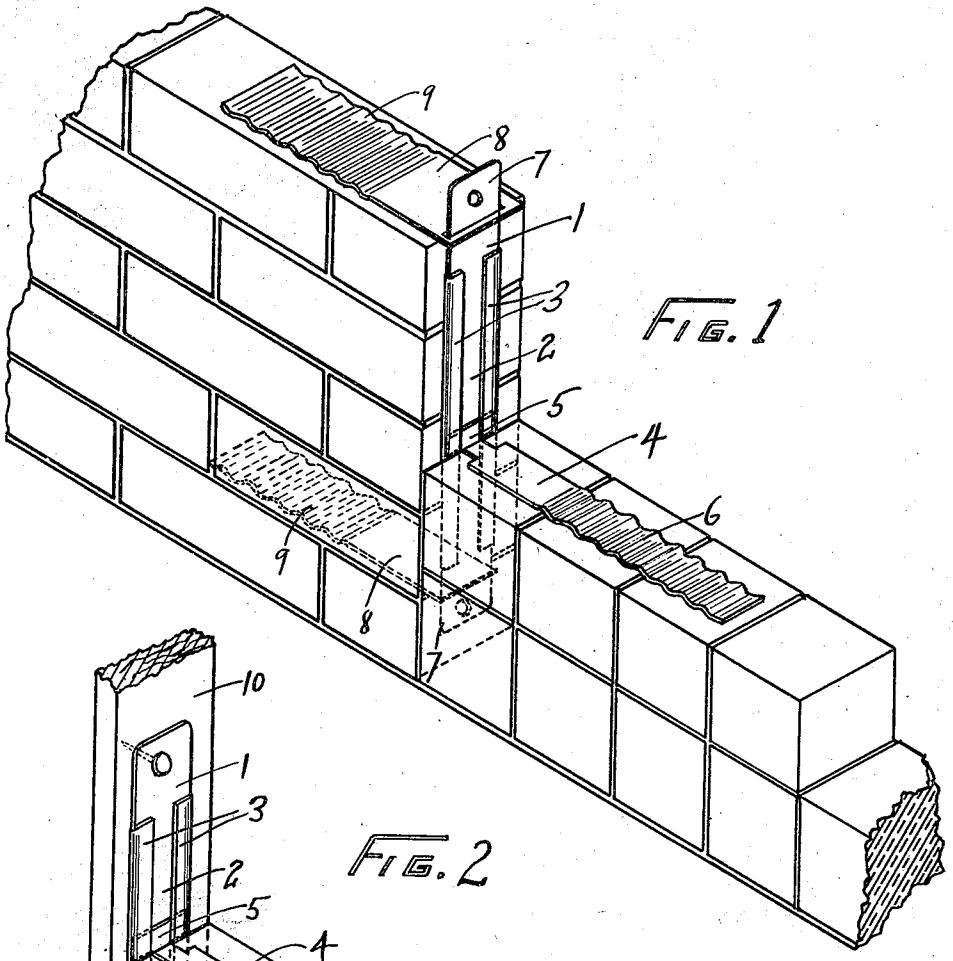


FIG. 1

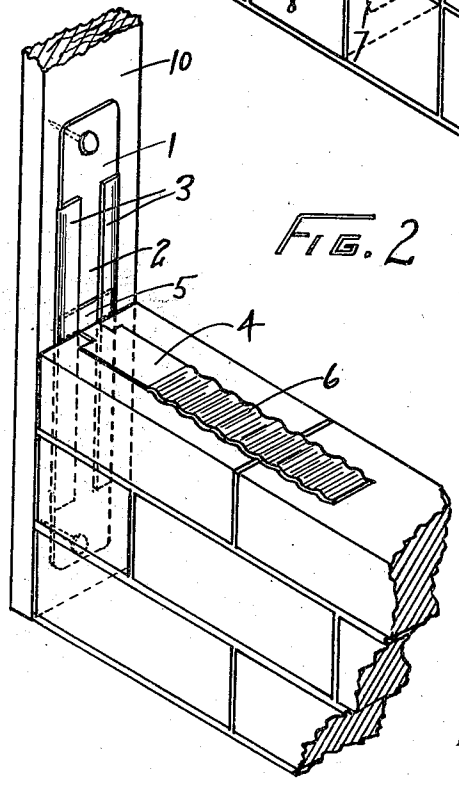


FIG. 2

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ADJUSTABLE ANCHOR

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4 Claims. (Cl. 72—103)

This invention relates to an adjustable anchor, and particularly to one adapted for use in construction work.

The principal object of this invention is the provision of an adjustable anchor for use in anchoring one form of masonry to another; for instance, the anchoring of a glass block curtain wall to a wall of ordinary brick or tile.

A further object of this invention is the provision of an adjustable anchor for use in anchoring door bucks and all similar types of frames to masonry walls.

A still further object of this invention is the provision of an adjustable anchor which, due to its novel form, can be used in anchoring ornamental metal walls to a masonry wall.

The adjustable anchor shown and described herein has been designed with two primary purposes in mind. First, it has been found necessary that, in modern construction using curtain walls of glass block or other similar material, the curtain wall be anchored firmly to the regular masonry wall; and heretofore the problem of anchoring these walls to one another adequately has been difficult, due to the difference in size of the materials used in the wall construction, thus causing an unevenness in the various course levels and the resulting inability of the anchor to overcome this unevenness. The adjustable anchor shown and described herein will successfully accomplish this difficult task as one portion of the anchor is attached to the masonry wall and the other portion placed in position only when the other wall has reached the point of anchor. Thus, it is immaterial whether or not the various course levels are even as the adjustable anchor provides for a wide range of varying course levels.

The secondary adaption of the adjustable anchor shown and described herein is its use in securely anchoring door bucks or other door or window frames to masonry walls. Heretofore, it has been necessary to apply various anchor means to the frame after the masonry wall has been partially constructed. This invention provides means for positioning a portion of the adjustable anchor upon the door buck or rough frame when the frame is originally positioned by the carpenter or other workmen, and provides for the application of the second portion of the device by the mason at such time as the masonry wall reaches the previously located portion of the adjustable anchor. Again, due to the adjustability of the device, it makes no difference where the top level of the masonry course falls, as the anchor is equally effective over a wide range of varying course levels.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a perspective view of the adjustable anchor being used to anchor securely a curtain wall of glass block to a wall of ordinary masonry.

Figure 2 is a perspective view of the adjustable anchor being used to anchor a door buck or other similar frame to an ordinary masonry wall.

By referring to the drawing, and Figure 1 in particular, it will be seen that the adjustable anchor comprises a bracket portion 1 having a channel 2 formed upon the face thereof by means of inturned flanges 3. An anchor portion 4 has a T-like head 5 formed at right angles thereto and adapted to slidably engage the channel 2. The anchor portion 4 is also provided with a corrugated section 6 adapted to suitably engage masonry construction. Functioning with the ends 7 of the bracket portion 1 there is a slotted secondary anchor portion 8, the slotted portion of which slidably engages the ends 7 of the bracket portion 1. These secondary anchors 8 are provided with corrugated sections 9 which cause them to become firmly embedded in a masonry wall and securely hold the bracket 1 of the device in proper position. In Figure 1 these secondary anchors 8 are shown holding the bracket portion 1 of the device on a masonry wall and a wall of glass block has been laid up until the top course is adjacent to the bracket 1. The anchor portion 4 of the device has then been slidably inserted in the channel 3 of the bracket and allowed to drop downwardly until it rests upon the top course of the glass block wall. In this position the mason simply continues laying mortar and additional glass blocks and the resulting structures will be securely anchored to one another.

In Figure 2 the bracket portion 1 of the adjustable anchor is shown nailed or otherwise suitably attached to a door buck or other frame 10. The anchor portion 4 of the device has been placed in position and slipped downwardly until it rests

upon the top course of a masonry wall. It is obvious that in this adaption of the adjustable anchor, the secondary anchor portions 8 have been dispensed with as they are used only when anchoring one form of masonry to another as in Figure 1. The adaption of the adjustable anchor as shown in Figure 2 eliminates the loose wooden nailing blocks and flimsy inadequate wall ties frequently used in anchoring frames to masonry walls and the resultant knocking out of plumb and line level of the frame being anchored.

The adjustability of the anchor permits the mason to work continually at his job as the insertion of the anchor portion 4 of the anchor device takes but a second of his time when the top course of the masonry reaches any point adjacent to the channel 2 of the bracket 1. It is obvious that the use of this adjustable anchor will save a great deal of time in setting door and similar frames, and insure a positive anchoring at all times.

It will be seen that the adjustable anchor shown and described herein becomes in effect a very effective wall tie when used in connection with masonry and glass or other similar products as shown in Figure 1, and that it becomes an effective door buck anchor when used in connection with a wood or metal frame and a masonry wall as shown in Figure 2.

What I claim is:

1. An adjustable anchor comprising a bracket portion having flanges thereon forming a channel, an anchor portion having a T-shaped head formed at one end thereof and adapted to slidably engage the said channel, together with a pair of secondary anchors slotted at one end and adapted to engage ends of the said bracket portion in such manner that the said bracket portion is held to one masonry wall while the slidable anchor is positioned in another masonry wall.

2. An adjustable anchor comprising a bracket portion and an anchor portion, a corrugated section on said anchor portion, a T-like head on one end of said anchor portion, a channel formed on said bracket portion as a part thereof by inturned flanges on said bracket the said inturned flanges forming the said channel so that it is open at both ends, said T-like head of said anchor portion adapted to function within said channel, openings provided in the said bracket portion to enable it to be fastened to a frame.

3. An adjustable anchor comprising a bracket portion and an anchor portion, a corrugated section on said anchor portion, a T-like head on one end of said anchor portion, a channel formed on said bracket portion as a part thereof by inturned flanges on said bracket, said T-like head of said anchor portion adapted to function within said channel, openings provided in the said bracket portion, a pair of secondary anchors having slots therein adapted to function over the ends of said bracket portion and to be embedded within a masonry wall to secure the bracket thereto, corrugated sections on said secondary anchors.

4. As a new article of manufacture, an adjustable anchor comprising a bracket portion, flanges on said bracket portion forming a channel open at both ends, a slidable anchor having a head at one end adapted to function in said channel a corrugated section formed on the said slidable anchor, secondary anchors having slots therein functioning over upper and lower ends of said bracket.

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