Sept. 20, 1938. A. F. ARAND 2,130,531

STRUCTURAL ANCHOR

Filed Aug. 14, 1936

Fig. 1.

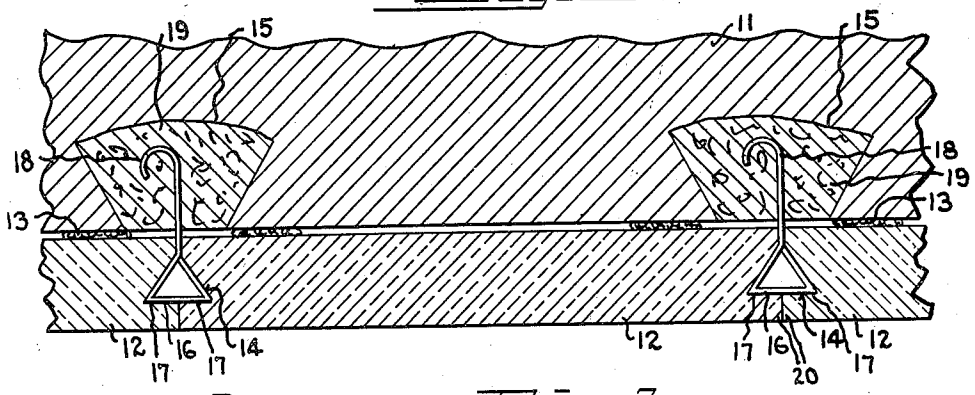


Fig. 2.

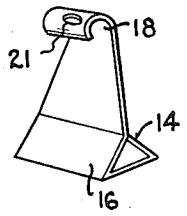


Fig. 3.

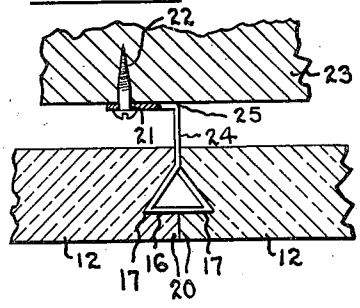


Fig. 4.

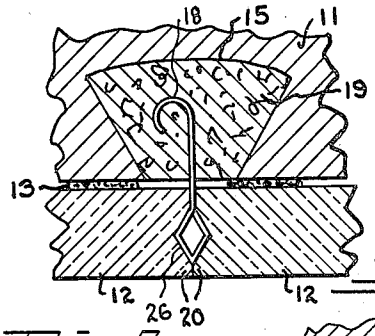


Fig. 5.

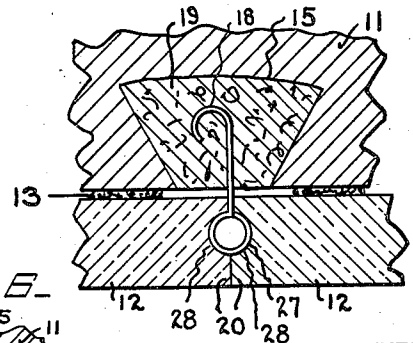


Fig. 6.

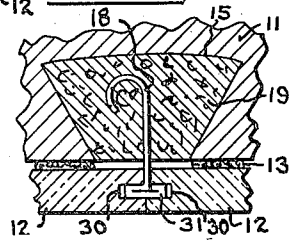
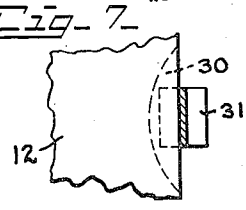


Fig. 7.



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STRUCTURAL ANCHOR

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Application August 14, 1936, Serial No. 96,091

3 Claims. (Cl. 72—101)

My invention relates to a new and improved anchor adapted to be used in anchoring glass plates, tile or other finishing facing material, where it is desired to have close fitting joints and no projections on the surface. At the present time considerable glass is used to face the front of store buildings, and it also is used extensively on walls and ceilings in interior construction. These plates of glass are of various colors and form an ornamental and pleasing effect. Heretofore, in securing these glass panels to a surface, they were merely cemented to the surface by a suitable plastic material being spread over the surface and the panels pressed thereagainst. This form of construction has resulted in considerable damage and inconvenience due to frost or other foreign material getting into the joint and causing the plates to fall away from the surface to which they were cemented. This construction is particularly dangerous in overhead work.

The object of my invention is to provide an anchor arranged to aid in supporting and positioning the plates either on a wall, ceiling or floor construction. A further object is to provide the plates with recesses in the abutting edges for reception of the anchor. A further object is to provide an anchor formed to the shape of the grooves and permitting close abutment of the adjoining plates.

My invention will be further readily understood from the following description and claims and from the drawing, in which latter:

Fig. 1 is a horizontal section of a portion of a wall showing my improved anchor and the corresponding plates held in position against the wall.

Fig. 2 is a perspective view of the preferred form of my improved anchor.

Fig. 3 is a view similar to Fig. 1 showing a modified form of attaching means for the anchor.

Figs. 4 and 5 are views of modified forms, showing various shapes of the anchor head.

Fig. 6 is a view of a further modified form of my device, and;

Fig. 7 is a plan view of a portion of a panel with the anchor therein.

I have indicated a wall 11 which may be the front of a building, the interior walls, ceiling or floor to which it may be desired to secure the finishing plates 12. In securing the plates 12 which may be of glass, tile, or other material to the wall 11 a plastic composition 13 is applied between the plates and the wall or may be spotted at suitable positions on the back of the plate. In using my improved anchor 14 in connection with the plates 12, suitable holes or recesses 15 are gouged out of the wall to form a space for the foot of the anchor. In the preferred form I provide a triangular head 16, for the anchor arranged to be received in V slots 17 in the plates 12. This anchor is bent from a single strip of metal preferably of a non-corrosive character having the extending foot 18 bent to form a hook. In securing the plates 12 to the wall one of the plates is suitably cemented to the wall after the recesses 15 have been cut into the wall. The anchor 14 is then placed with a portion of the head in the slot 17 with the foot 18 extending into the recess 15. Suitable plastic material 19 is then forced into the recess 15 about the hook for securely anchoring the anchor to the wall. The next plate being applied to the construction is then positioned adjoining the first mentioned plate with the slot 17 received over the exposed portion of the head of the anchor whereby the abutting edges 20 of the plates are brought into close proximity to each other.

The foot of the anchor 14 is provided with one or more holes 21 arranged to receive a wood screw 22 shown in Fig. 3. This construction of the foot of the anchor is used when it is desired to anchor panels to a wood wall 23. The shank 24 is straight and the workman positioning the plates on the wall, bends the anchor as at 25 at the desired point to space the plates 12 the desired distance from the wood wall.

In Fig. 4, I have shown a modified head for the anchor formed in a diamond shape as indicated at 26 with corresponding grooves in the plates 12. In Fig. 5, I have shown the anchor provided with a circular head 27 arranged to be received in grooves 28 in the plates 12.

In Figs. 6 and 7 I have shown a further modification wherein recesses 30 are ground into the edge of the panel at suitable locations and the anchor is provided with a T head 31. This construction is particularly well adapted for comparatively thin panels.

With this construction the number of anchors used to aid in supporting the plates depends on the thickness and size of the plate. The anchor and grooves in the plates are so constructed to permit the abutting edges of the plates to be set adjacent to each other for forming a continuous surface.

While I have shown a preferred form of my invention I do not wish to be limited to the construction shown in the drawing as various other

styles of heads may be provided for the anchor within the scope of the appended claims.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In combination with a wall, recesses in said wall, glass panels, an anchor provided with a formed head, a shank extending from said head having a bent end cemented in said recess, said panels provided with cooperating grooves for the head of said anchor, whereby upon joining said panels said anchor holds adjoining panels with the front edges of said panels tightly abutting each other.

2. In combination with a wall, a recess in said wall, glass panels, an anchor provided with a triangular head, a shank extending from said head provided with means to be cemented in said recess, said panels provided with cooperating V grooves for the head of said anchor, whereby upon joining said panels said anchor holds adjoining panels with the front edges of said panels abutting each other.

3. In combination with a wall, panels provided with spaced apart recesses, an anchor provided with a head arranged to be received in cooperating recesses, a recess in said wall, a shank extending from said head provided with a hooked end arranged to be cemented in said wall recess.

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