Aug. 21, 1928. 1,681,340

E. F. HAUSERMAN ET AL

DEMOUNTABLE WALL CONSTRUCTION

Filed Sept. 7, 1926 2 Sheets-Sheet 1

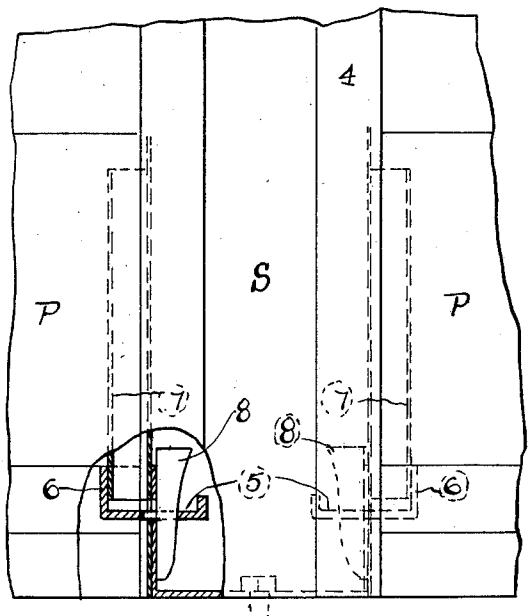


Fig. 1.

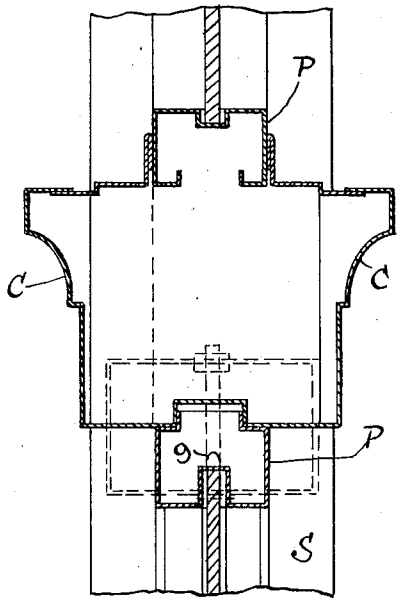


Fig. 3

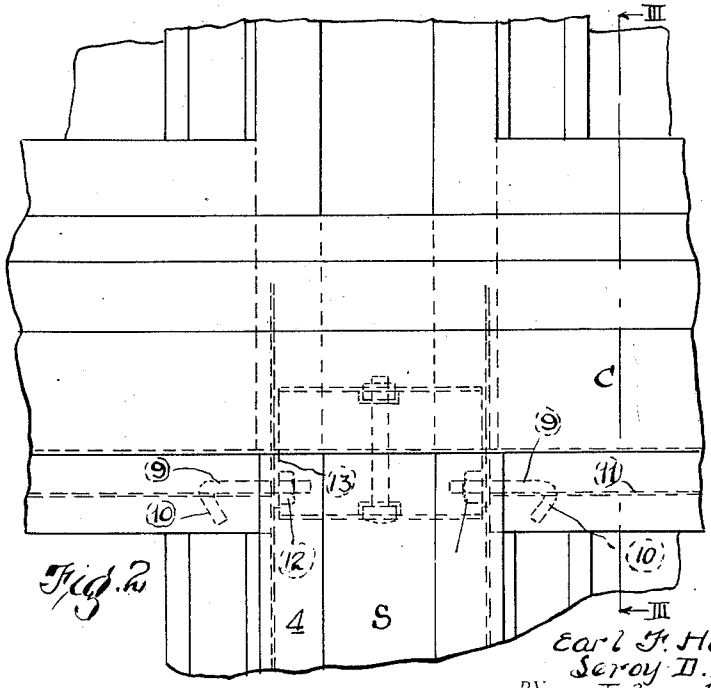


Fig. 2.

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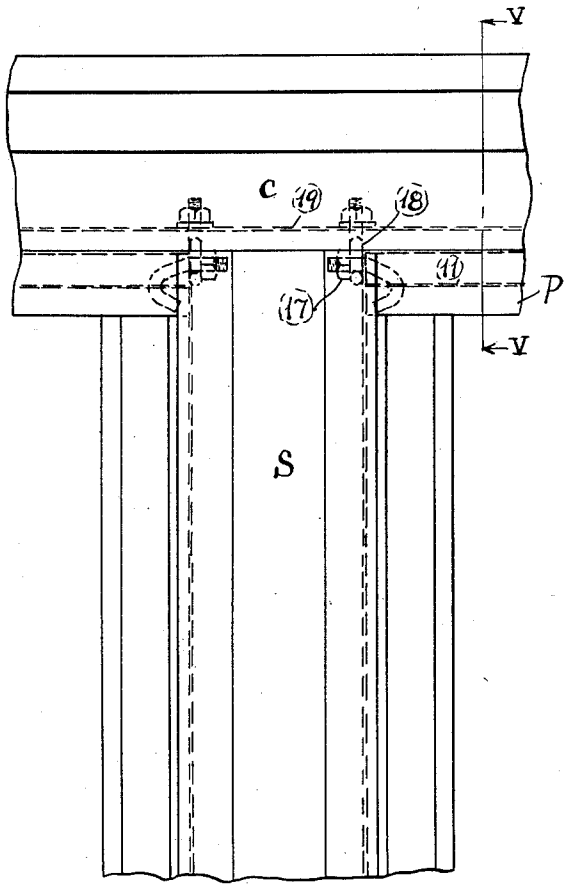


Fig. 4

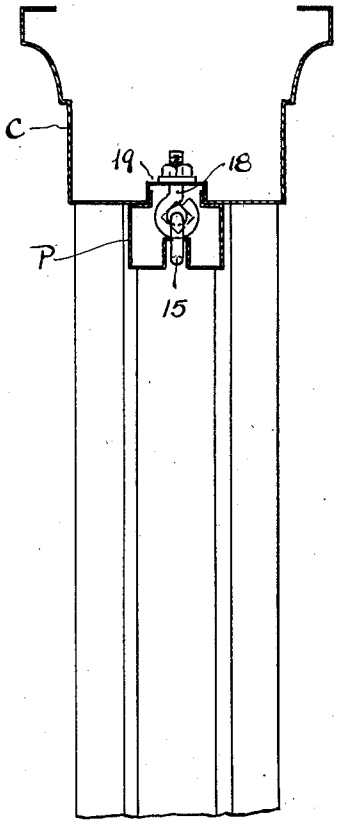


Fig 5

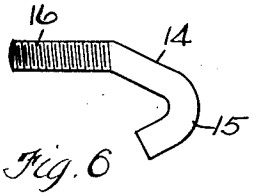


Fig. 6

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UNITED STATES PATENT OFFICE.

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DEMOUNTABLE WALL CONSTRUCTION.

Application filed September 7, 1926. Serial No. 134,111.

This invention relates to wall construction, more particularly of a demountable character advantageous for interior use in partitions, etc. In structures of this type, it is highly desirable that vertical supports or posts and panel elements be held together inconspicuously and in a manner allowing assembly without the necessity of highly skilled labor, and allowing disassembly, if required, as easily as the original putting up.

To the accomplishment of the foregoing and related ends, the invention, then, consists of the means hereinafter fully described, and particularly pointed out in the claims, the annexed drawing and the following description setting forth in detail certain features embodying the invention, such disclosed means constituting however, but several of various forms in which the principle of the invention may be used.

In said annexed drawings:—

Fig. 1 is a fragmentary front elevational view of a construction embodying the present invention; Fig. 2 is a fragmentary front elevational view of a modification; Fig. 3 is a section on the plane indicated by the line III—III, Fig. 2; Fig. 4 is a fragmentary front elevation of a further modification; Fig. 5 is a section on the plane indicated by the line V—V, Fig. 4; and Fig. 6 is an elevation of a detail.

The reference character S in the drawing designates a support or post, made preferably of hollow sheet metal with a removable face plate 4, and shaped for engaging panel members P, also preferably made of hollow sheet metal. A cornice C may also be employed if desired, either topping the entire structure as indicated in Fig. 4, or having further sections on above, as indicated in Fig. 2.

For securing a panel member to the post, a clip 5 insertible through a hole in the side of the post is located with its hook portion 6 engaging a projection or bridge 7 in the panel member. Through a slot in a portion of the clip 5 within the post, a wedge 8 is then driven. Such fastening means may be used at any point on the panel member as desired.

In the form shown in Figs. 2 and 3, a bolt 9 having a hook end 10 is located with the hook through a hole in the groove-floor 11 in the panel member and the other end projecting through a hole or slot in the post. A nut 12 serves for tightening. A projection 13 from the cornice may be included under the nut.

In some cases, we prefer an offset in the hook bolt. This may be in the form shown in Figs. 4 and 6, the bolt having a bent offset 14 and a hook end 15, the other end 16 being threaded as usual to receive a nut 17. With the hook end 15 engaged in a hole in the groove-floor 11 of the panel member and the threaded end 16 projecting through a hole or slot in the side of the post, the nut 17 may be turned up. Where a cornice and a panel member are to be secured to the post, a projection from the cornice is included under the nut. This may advantageously be in the form of an eye bolt 18 extending from the recessed floor 19 of the cornice in line with the end 16 of the hook bolt to lie under the nut 17. On drawing up the nut, the entire assembly is secured.

From the foregoing the manner of assembly will be clear. To disassemble in the case of the wedge form, Fig. 1, the face plate 4 of the post having been removed, the wedges 8 are knocked out of the clips 5, when the clips may be withdrawn from engagement with the panel member and the latter is then free to be removed from engagement against the post. With the hook bolts, the face plate of the post similarly having been removed, the nuts are unscrewed and removed, or at least loosened sufficiently to allow manipulation to raise the hook out of the hole in the panel member, when the panel may be directly withdrawn.

As will thus be seen, the construction, in any of the forms illustrated provides a means for securing panel members to a support or post in such a manner that the securing means is entirely invisible outside, since the elements concerned are enclosed wholly within the post and adjoining structure, and when the face plate 4 of the post is put on, all is concealed. Moreover, by reason of the character of the take-up means, the entire assembly may be as readily demounted as set up.

Other modes of applying the principle of the invention may be employed, change being made as regards the features herein disclosed,

provided the means stated by any of the following claims or the equivalent of such stated means be employed.

We therefore particularly point out and distinctly claim as our invention:—

1. In construction of the character described, the combination of a hollow post, a panel member engageable with said post, and take-up means insertible wholly from within said post for securing said panel member to said post.

2. In construction of the character described, the combination of a hollow post, a panel member engageable with said post, said means including a bolt engaging said panel member, and a nut coacting with the bolt.

3. In construction of the character described, the combination of a hollow post, a panel member engageable with said post, take-up means within said post for securing said panel member to said post, said means including a hook bolt engaging said panel member and a nut coacting with the bolt.

4. In construction of the character described, the combination of a post, a cornice, a panel member engageable with said post and cornice, and means for securing said panel member to said post and cornice, said means including a bolt engaging the panel member, and coacting means engaging the post and cornice.

5. In construction of the character described, the combination of a post, a cornice, a panel member engageable with said post and cornice, and means for securing said panel member to said post and cornice, said means including a hook-bolt engaging the panel member, a coacting means engaging the cornice within the post, and a nut for the said hook-bolt.

6. In construction of the character described, the combination of a post, a cornice, a panel member engageable with said post and cornice, and means for securing said panel member to said post and cornice, said means including an offset hook-bolt engaging the panel member, a coacting means engaging the cornice within the post, and a nut for the said hook-bolt.

7. In construction of the character described, the combination of a post, a cornice, a panel member engageable with said post and cornice, a means for securing said panel member to said post and cornice, said means including a hook-bolt engaging the panel member, an eye-bolt projecting from said cornice within the post and receiving the threaded end of the hook-bolt, and a nut for the said hook-bolt.

8. In construction of the character described, the combination of a post, a cornice, a panel member engageable with said post and cornice, a means for securing said panel member to said post and cornice, said means including an offset hook-bolt engaging the panel member, an eye-bolt projecting from said cornice within the post and receiving the threaded end of a hook-bolt, and a nut for the said hook bolt.

Signed by us this 26 day of August, 1926.

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