R. MINSHULL.

STABLE APPLIANCE.

APPLICATION FILED AUG. 16, 1919.

1,423,241. Patented July 18, 1922.

Fig. 1.

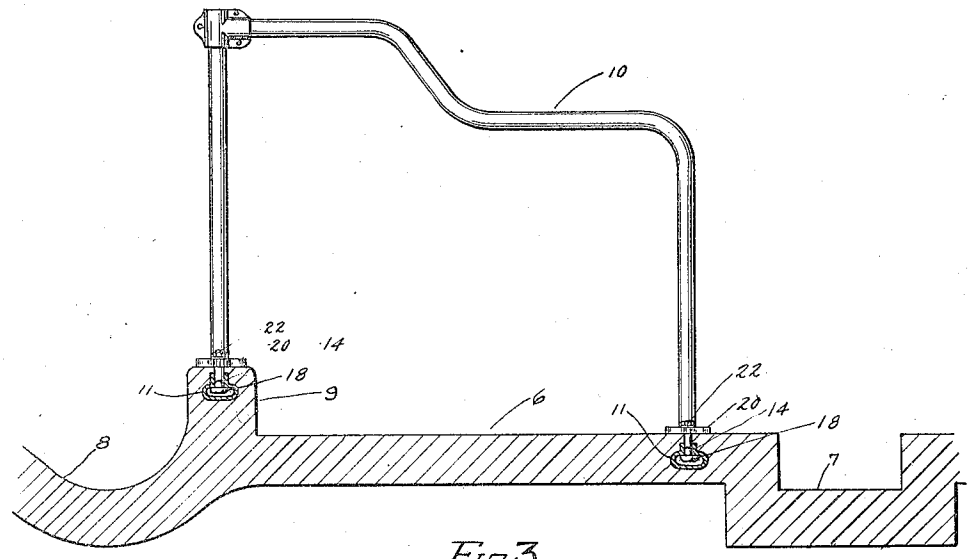


Fig. 3.

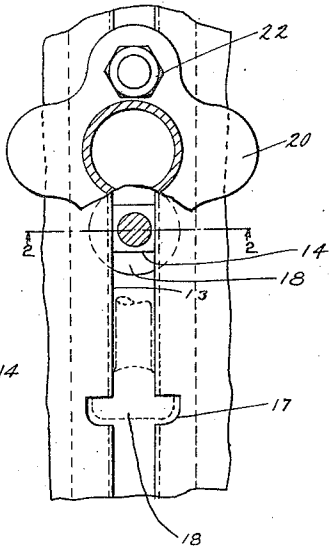


Fig. 2.

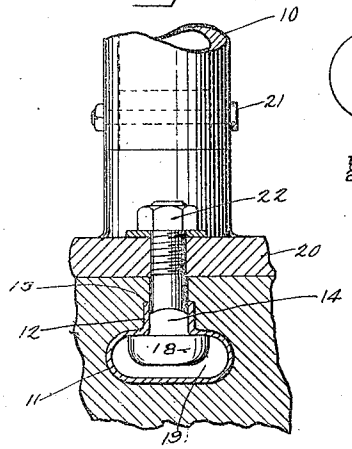


Fig. 4.

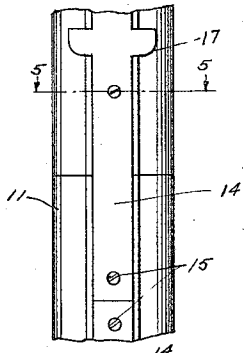
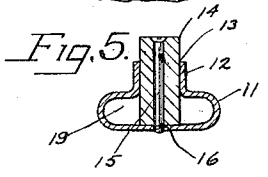


Fig. 5.



WITNESS:

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STABLE APPLIANCE.

1,423,241. Specification of Letters Patent. Patented July 18, 1922.

Application filed August 16, 1919. Serial No. 317,965.

To all whom it may concern:

Be it known that I, ROBERT MINSHULL, a citizen of the United States, and resident of Waterloo, in the county of Jefferson and State of Wisconsin, have invented new and useful Improvements in Stable Applances, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

The present invention relates to certain new and useful improvements in stable appliances and refers more particularly to means for adjustably anchoring stall fixtures.

One object of this invention is to provide a longitudinal channel of inverted T-shape which is formed in the stable floor or curbing and adapted to receive the head of a securing bolt for adjustably securing or anchoring a stall frame, stanchion, or other stall fixtures.

Another object of this invention is to provide a stall frame anchor which may be readily moved longitudinally to vary the width of the stall as desired.

A further object of this invention is to provide a channel member of inverted T-shape which is adapted to be set in the concrete curbing or in the floor adjacent the gutter when the same is being molded, means being provided whereby the top edges of the inverted T-shaped channeled member will be disposed below the top surface of the curbing or floor.

A still further object of this invention is to provide a channeled member of the class described adapted to be set in the curbing or floor when the same is being molded and which will have means whereby the anchor bolts may be readily placed therein or removed therefrom.

With the above and other objects in view which will appear as the description proceeds, my invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the hereindisclosed invention may be made as come within the scope of the claims.

In the accompanying drawing I have illustrated one complete example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and in which:

Fig. 1 is a side plan view of a stall frame supported by means of my device, the stable floor and the channeled members being in section.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 3.

Fig. 3 is a top view of a portion of one of the channeled members and the anchor for the stall frame, parts being broken away and in section to more clearly illustrate details of construction.

Fig. 4 is a top plan view of a portion of two channel members illustrating the method of securing the same together for positioning in the curb or floor mold, and

Fig. 5 is a transverse section view taken on the line 5—5 of Fig. 4.

Referring now more particularly to the accompanying drawing, numeral 6 designates the usual stall flooring, 7 the gutter at the rear thereof, 8 the bin or manger, 9 the usual curbing running transversely of the stalls at their inner ends, and 10 the stall frame which is adjustably secured to the curbing 9 and the floor 6 adjacent the gutter 7 by means now to be described.

When the curbing 9 and flooring 6 is being molded, I place therein channeled members 11 which are of inverted T-shape and have the leg 12 of the T slotted, as at 13, for receiving the squared shank 14 of suitable anchor bolts. When one length of channel member 11 is insufficient for the stable with which it is used, two lengths are placed end to end, see Fig. 4, to obtain the desired result. When two lengths are employed, the filler 14 which is employed in molding channeled members 11 in the curbing and floor, are so disposed that they will form a firm brace for the channeled members and retain them in position until the concrete has become set.

The fillers 14 are of a height greater than the entire height of the members 13 and are secured therein by means of screw bolts 15 which pass therethrough and engage in threaded openings 16 disposed centrally in the bottom of the channeled members. When the channeled members are placed in the molds, not shown, the top surfaces of the fillers 14 are placed flush with the desired top of the floor or curbing, and when

the concrete has become set the fillers 14 are removed by removing screws 15 as will be apparent. By this structure, the channeled members 11 are disposed entirely below the top surface of the curbing and floor.

Formed in the channeled members 11 at suitable intervals, are enlarged openings 17 which are shaped to conform with the enlarged heads 18 of the anchor bolts, which permits the ready removal from or engagement in the channeled members of the anchor bolts. As best shown in Figures 1 and 2, the anchor bolts have their heads disposed in the larger portion 19 of the channeled members and have their shanks passed upwardly therethrough to engage the anchor plate 20 secured to the lower adjacent end of the stall frame 10, as at 21, the squared shank 14 of the anchor bolt preventing its rotation when the locking nut 22 is tightened.

The uses of the structure hereinbefore described are varied and while I have illustrated the same in the drawing as supporting the stall frame, it will be appreciated that the lower securing chain of a stanchion may be connected therewith, or any other suitable stall fixture may be secured to the curbing or flooring by means of the anchor bolts disposed within the channeled members 11.

The anchor bolts are placed in the channeled members 11 as indicated by dotted lines in Fig. 3, and as the heads 18 are of less thickness than the width of the openings 17, their insertion is readily accomplished.

What I claim as my invention is:

1. In a stable appliance, the combination with the portion of a concrete flooring, of a guideway therein, a channel member of inverted T-shape set in the flooring with its vertical portion in register with said guideway and its top edges spaced below the surface of the flooring, and a temporary strip adapted to be removably secured in the channel member and having its top projected beyond the top edges of the vertical portion of the channel member a distance substantially equal to that between the top edges of the vertical portion of said channel member and the surface of the flooring.

2. In a stable appliance, the combination with the portion of a concrete flooring, of a guideway therein, a channeled member of inverted T shape set in the flooring with its vertical portion in register with said guideway and its top edges spaced below the surface of the flooring, a temporary strip adapted to be removably secured in the channel member and having its top projected beyond the top edges of the vertical portion of the channel member a distance substantially equal to that between the top edges of the vertical portion and the surface of the flooring, said channel member having opposite portions of the side walls thereof and the adjacent walls of the transverse portion recessed, and projections carried by said strip and in register with said recesses to provide an opening through which a bolt head may be inserted into the guide channel.

In testimony whereof, I affix my signature.

ROBERT MINSHULL.