Dec. 22, 1959 L. BLUM 2,918,150

NEWEL POSTS FOR ORNAMENTAL RAIL STRUCTURES

Filed Oct. 18, 1956 2 Sheets-Sheet 1

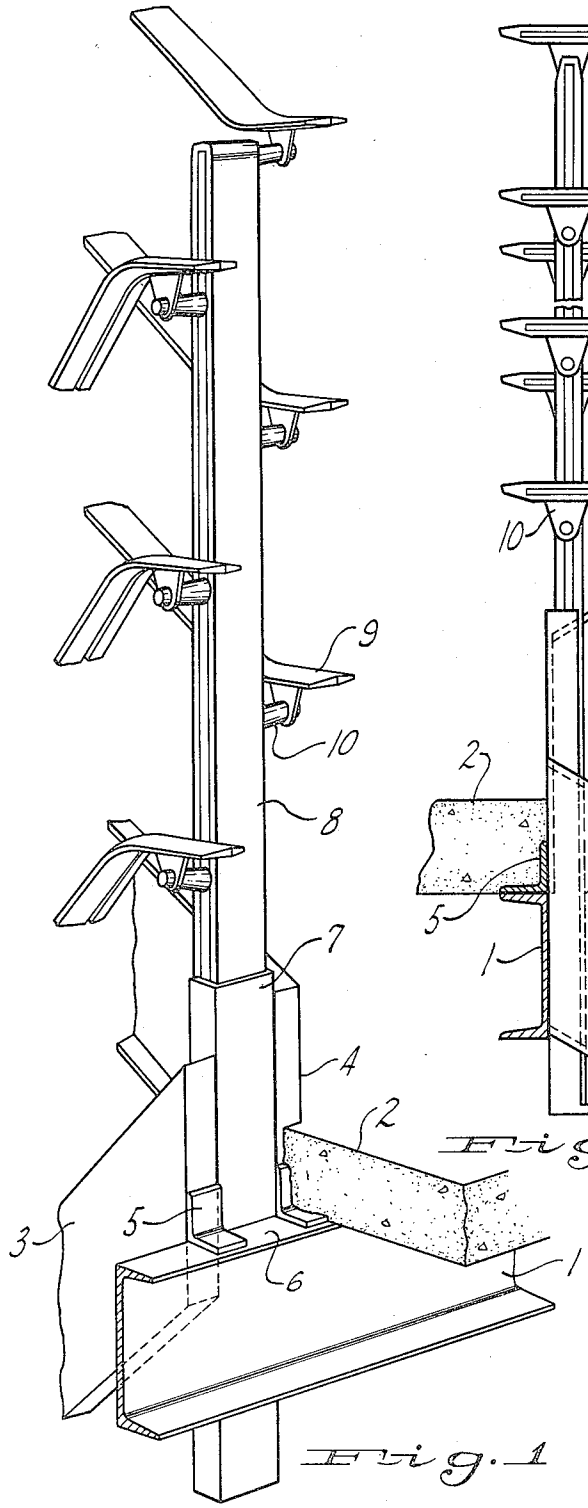


Fig. 1

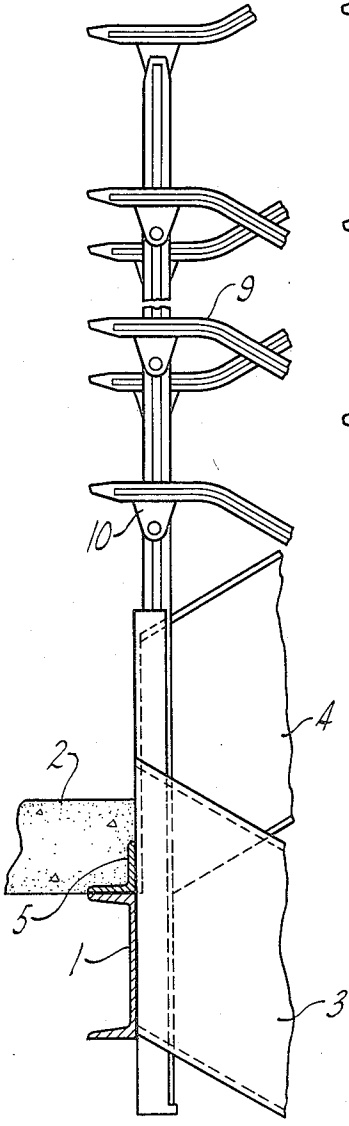


Fig. 2

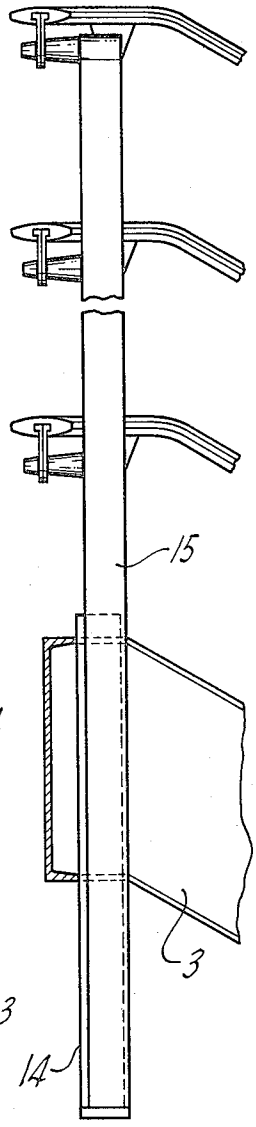


Fig. 3

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NEWEL POSTS FOR ORNAMENTAL RAIL STRUCTURES

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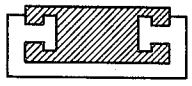


Fig. 7

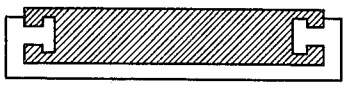


Fig. 8

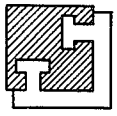


Fig. 9

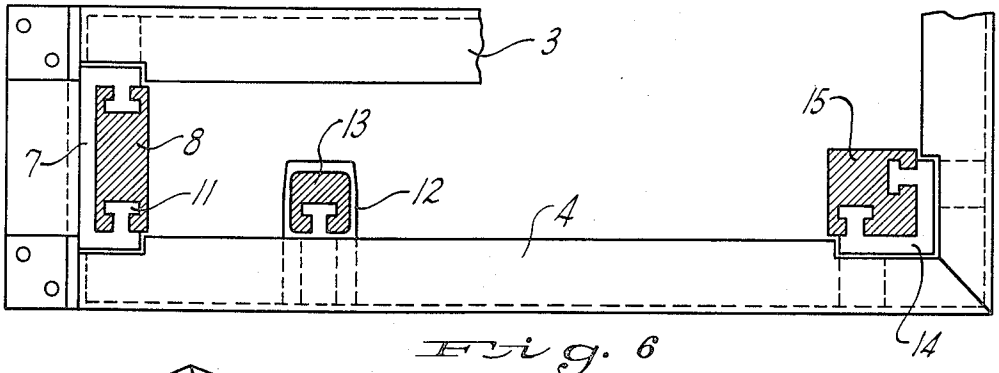


Fig. 6

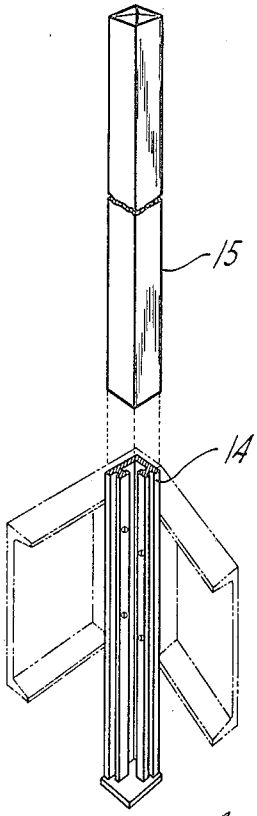


Fig. 4

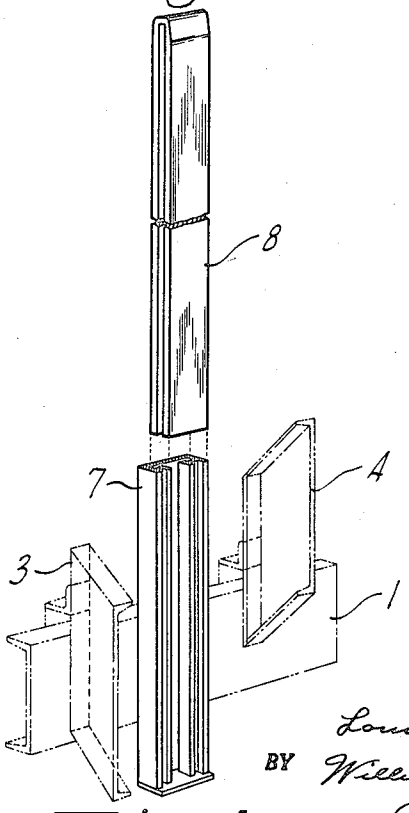


Fig. 5

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NEWEL POSTS FOR ORNAMENTAL RAIL STRUCTURES

Louis Blum, Pittsburgh, Pa., assignor to Blumcraft of Pittsburgh, Pittsburgh, Pa., a firm

Application October 18, 1956, Serial No. 616,686

3 Claims. (Cl. 189—28)

This invention relates to new and useful improvements in ornamental rail structures, more particularly to supports therefor, and the manner of mounting the same, and it is among the objects thereof to provide newel post constructions adapted to be in part asesmbled with the stringers of stairs and on channel beams for subsequently receiving ornamental rails after the heavy construction is completed, thereby eliminating damage to the rail and ornamental post structure. The invention will become more apparent from a consideration of the accompanying drawings constituting a part hereof in which like reference characters designate like parts and in which:

Figure 1 is an isometric view of a newel post and rail assembly embodying the principles of this invention;

Figure 2, a side elevational view thereof;

Figure 3, a similar view of a corner newel assembly;

Figure 4, a view in perspective of a corner newel assembly partially broken away;

Figure 5, a view in perspective showing a newel and post and diagrammatically illustrating the relation to the stringer and stair support;

Figure 6, a view diagrammatically illustrating the newel and post relation relative to the stringers; and,

Figures 7, 8 and 9 are cross sectional views partially in elevation of newel assemblies.

With reference to Figure 1 of the drawing, the numeral 1 designates a channel beam on which is supported a monolithic floor 2 and to which are attached stringers 3 and 4 by welding or fastening to angle brackets 5 that rest upon flanges 6 of the channel beam 1. Mounted between the stringers 3 and 4 is a newel or socket member 7 which is secured to the channel beam 1, as by welding or in other suitable manner. This assembly of the newel is done when the heavy construction work, including the mounting of the stringers 3 and 4, is accomplished. At a future time, when finishing operations are in progress,

the newell post 8, Figure 1, is placed in the newel or socket 7 and ornamental rails 9 are attached to the post 8 by brackets 10.

Figure 5 shows the relation of the newel 7 to the beam 1 and stringers 3 and 4. It also shows the shape of the newel which is that as shown at 7, Figure 6 of the drawing. The post 8 is of a cross-section as shown in Figure 6 of the drawing, to interact with the T-shaped elements 11 of the newel or socket element 7. The stringers may be provided with newels 12 for receiving posts 13 that are applied at intervals to support the rails 9 and corner newels 14 and posts 15 may be provided, as shown in Figure 6, also Figure 4.

Figures 7 through 9 show the newel and post relation separate from any other supporting structure. All of the newels may be put in place when the stair stringers are mounted and their cooperating posts for supporting the rails may be assembled at any time when convenient and when the ornamental structures are not subject to damage.

Although one embodiment of the invention has been herein illustrated and described, it will be evident to those skilled in the art that various modifications may be made in the details of construstion without departing from the principles herein set forth.

I claim:

1. An ornamental rail mount comprising a structural steel shape having legs extending therefrom and having T-shaped lugs extending from the inner walls of the legs of the structural steel shape to form a newel post socket member adapted to be attached to metal stringers and beams of a building stairs and an ornamental newel post of complementary shape to the structural steel shape socket member having a body portion with T-slot means interacting with the T-lugs of the structural steel shape socket member.

2. The ornamental rail mount of claim 1 wherein the structural steel shape comprises an angle shaped member.

3. The ornamental rail mount of claim 1 wherein the structural steel shape comprises a channel-shaped member.

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