

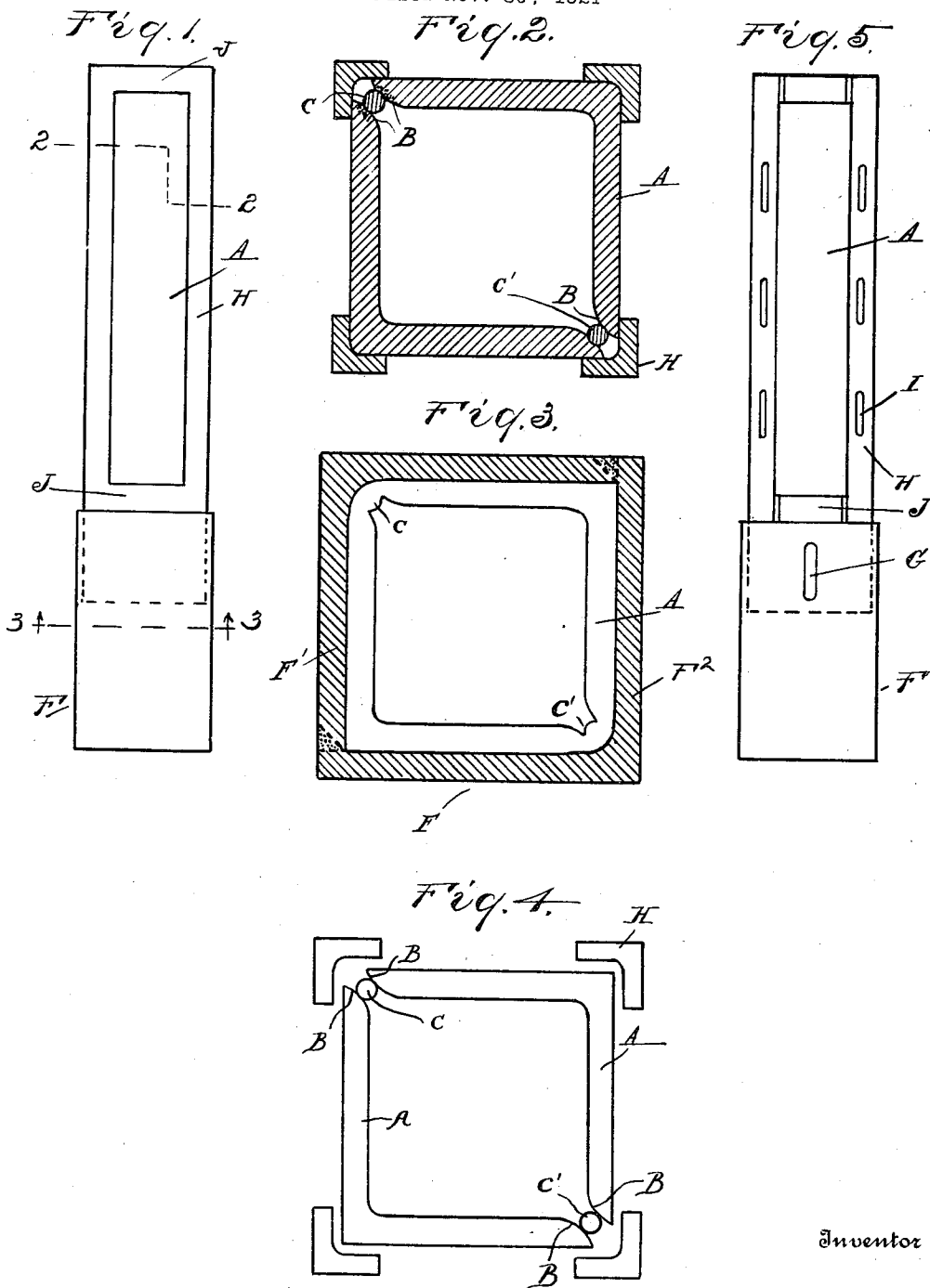
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STEEL NEWEL POST

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UNITED STATES PATENT OFFICE.

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STEEL NEWEL POST.

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To all whom it may concern:

Be it known that I, CONRAD E. ANDERSON, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Steel Newel Posts, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to steel newel posts and a method of forming the same.

It is the object of the invention to provide a newel post that will eliminate the large expense involved in producing such an article by casting and which will further avoid the roughness of appearance that is difficult to avoid in casting an article of such a nature.

A further object is to produce a steel newel post by a method involving a considerable saving of time as compared with present practice.

In the drawings:—

Figure 1 is a view in elevation of the improvement post;

Figure 2 is a cross section on line 2—2 through the body of the post;

Figure 3 is a cross section on line 3—3 of Figure 1 through the base of the post;

30 Figure 4 is a view illustrating the method of forming the body of the post from standard angle bars;

Figure 5 is a view of the post showing an initial provision of slots to facilitate welding;

In these views the reference character A designates a pair of standard angle bars which are combined to form the body of the post. Preliminary to connecting said bars by welding, they are arranged in the complementary relation shown in Figure 4 with their reduced edge portions B spaced a slight distance apart, so as to permit cylindrical filler rods C and C' to be clamped between said portions. The two angle bars are then welded together by fusing portions of said filler rods at suitable space intervals. Thus the section line for Figure 2 is so taken as to show a welded portion of the rod C and an unwelded portion of the rod C'. F is the base member of the post formed of a pair of angle bars F' and F² by a method somewhat similar to that above described, said bars being however sufficiently larger than the bars A to permit the body formed by the latter to snugly tele-

scope into said base. It is preferred to bevel the edges of one of said bars, and abut said edges against the edge portions of the other bar, thus forming pockets to be filled with metal in the process of welding. Before establishing the telescoping relation, the upper end portion of the base is slotted as indicated at G to facilitate welding the body A thereto, the slots G being filled in the welding operation with molten material. To give the body of the newel post a paneled appearance, each corner of the said body is embraced by a relatively small angle bar H rigidly secured in place by welding. Preferably this welding operation is facilitated by a preliminary slotting of the bars H as indicated at I, said slots being filled with molten metal in welding. The panel effect is completed by securing a pair of small cross strips J to each side face of the body, adjacent the top and base of the post. The strips J are secured both to the body of the post and to the angle bars H in one welding operation.

The described post, produced by the disclosed method, is very much less expensive than the cast post now commonly used and the various operations of assembly may be accomplished in a much shorter period of time than is required to produce a cast post. Furthermore, the construction is one that lends itself to production in any desired size, the expense involved in the production of different sizes being very slight as compared with casting. It is further to be noted that the built up steel post is much lighter for a given strength than a similar post produced by casting.

What I claim as my invention is:

1. A hollow steel post comprising a pair of opposed angle bars having abutting flanges a rigid connection therebetween and relatively small apertured angle bars embracing said abutting flanges and having a welded connection therewith through said apertures.

2. A hollow steel post comprising a pair of opposed standard angle bars having a welded connection between their flanges.

3. A hollow steel post comprising a hollow rectangular body composed of opposed rigidly connected angle bars and relatively small angle bars respectively embracing the corners of the body and having a welded connection with the body.

4. A post comprising a body and a base

respectively composed of angle bars having their flanges abutted and a welded connection therebetween, said body being telescopically engaged within said base and rigidly secured thereto.

5 5. A post comprising a hollow rectangular steel body and a hollow rectangular steel base provided with apertures therein, the former telescoping within the latter and having a welded connection through said apertures therewith.

10 6. The method of forming a hollow steel post, comprising welding together the flanges of two standard angle bars arranged in an opposed relation.

7. The method of forming a hollow steel post from standard angle bars, comprising shearing off the rounded edges of two standard angle bars, arranging said angle bars in opposed relation with their flanges abutting and rigidly connecting said flanges by welding.

8. The method of paneling a rectangular metal post comprising embracing the corners of said post by apertured angle bars of a size to produce the desired panel and securing said angle bars to the post by welding through said apertures.

In testimony whereof I affix my signature.
CONRAD E. ANDERSON.