C. E. PAULSON.

NEWEL POST FOR STAIRS, OR OTHER SUPPORT.

APPLICATION FILED FEB. 7, 1908.

912,260. Patented Feb. 9, 1909.

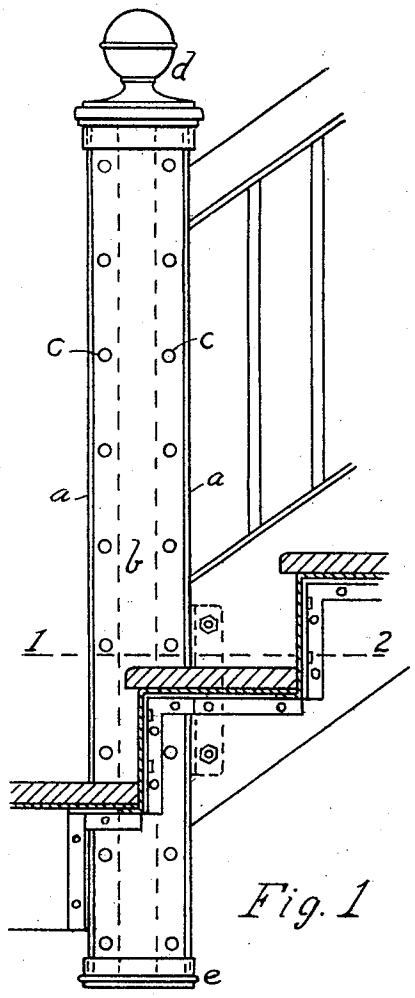


Fig. 1

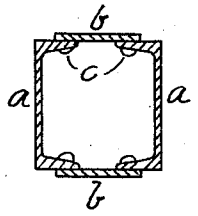


Fig. 4

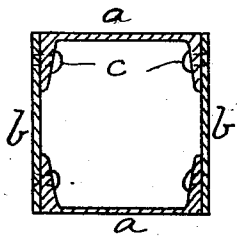


Fig. 3

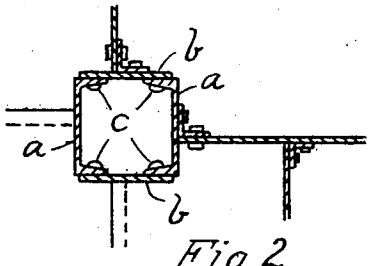


Fig 2

WITNESSES:

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CHARLES E. PAULSON, OF KEARNY, NEW JERSEY.

NEWEL-POST FOR STAIRS OR OTHER SUPPORT.

No. 912,260. Specification of Letters Patent. Patented Feb. 9, 1909.

Application filed February 7, 1908. Serial No. 414,693.

To all whom it may concern:

Be it known that I, CHARLES E. PAULSON, a citizen of the United States of America, residing in the city of Kearny, county of Hudson, and State of New Jersey, have invented certain new and useful Improvements in Newel-Posts for Stairs or other Supports, of which the following is a specification.

The object of my invention is to construct a post, the shaft or body of which is composed of standard rolled steel sections or members and so riveted or screwed together as to form a rigid whole and to give the appearance of solid post as usually made of cast iron.

My invention consists in the novel and peculiar arrangement of the various members used to form the post as will be more fully described and illustrated in the accompanying drawings in which,

Figure 1 is a section through a part of a stairway showing a view of a typical post in connection with string, risers, steps, railing etc.; Fig. 2 is a plan section of the above taken on line 1—2; and Figs. 3 and 4 are plan sections showing slight modifications in the relative sizes and position of the members composing the shaft.

Referring to the drawings, like letters refer to like parts throughout.

a represents a standard rolled steel channel section, *b* represents a standard rolled steel plate or bar, *c* indicates the rivets or screws connecting them together and which are here shown to be countersunk on the outside, *d* and *e* represent cap and drop finishing ornaments which may be of any design and are usually made of cast iron, but may be of any other material suitable for the purpose.

In Figs. 1 and 2 the plates *b* are of the same width as the channels *a* and are so placed as to form an exact square with the corners having the appearance of being cut out, the outside of the post giving no indication of the manner of construction or the shape of the members composing the same.

Fig. 3 is a plan section in which the width of the plate *b* is as much wider than the channel *a* as twice its own thickness and when the plates and channels are assembled as shown, the post will be exactly square with flush joints.

Fig. 4 shows a plan section of a post with the plates made as narrow as possible to economize material and still give a square post.

It is preferable to have the rivets or screws countersunk or flush on outside for the sake of appearance, but this is not necessary from a practicable point of view. The cap *d* and drop *e* may be attached to the shaft in the usual manner as with cast iron posts.

The principal advantage in this invention consists in the use of standard material obtainable at all times in the market, as in the construction of stairs and other structures, the making of special patterns for the various conditions and dimensions usually met with is not necessary. The cap and drop can be of a standard pattern and can be used on all posts regardless of length. The uniformity of surface and finish and clean straight lines so difficult to obtain in castings is another great advantage, as is also the time saved, since there is no delay waiting for patterns to be made and altered and defective castings to be replaced. There is also the advantage that steel has over cast iron in the matter of strength and the more positive factor of safety.

It is evident that this method of construction is suitable for other purposes than herein described and I do not limit myself to its use for the purposes specified. It is also possible to vary the details without departing from the spirit of the invention and I do not limit myself to these exact sections.

I claim as my invention:

A stair post composed of two channels oppositely faced to present inwardly turned flanges and two flat plates or bars secured to the outside of the flanges of said channels to form a hollow post whereby its method of construction and the shape of the parts composing the same are concealed.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

CHARLES E. PAULSON.

Witnesses:
WILLIAM ABBE,
L. H. GROTE.