Feb. 11, 1930. A. L. NYLUND ET AL 1,746,672

POST MOUNTING

Filed Nov. 20, 1928

Fig. 3.

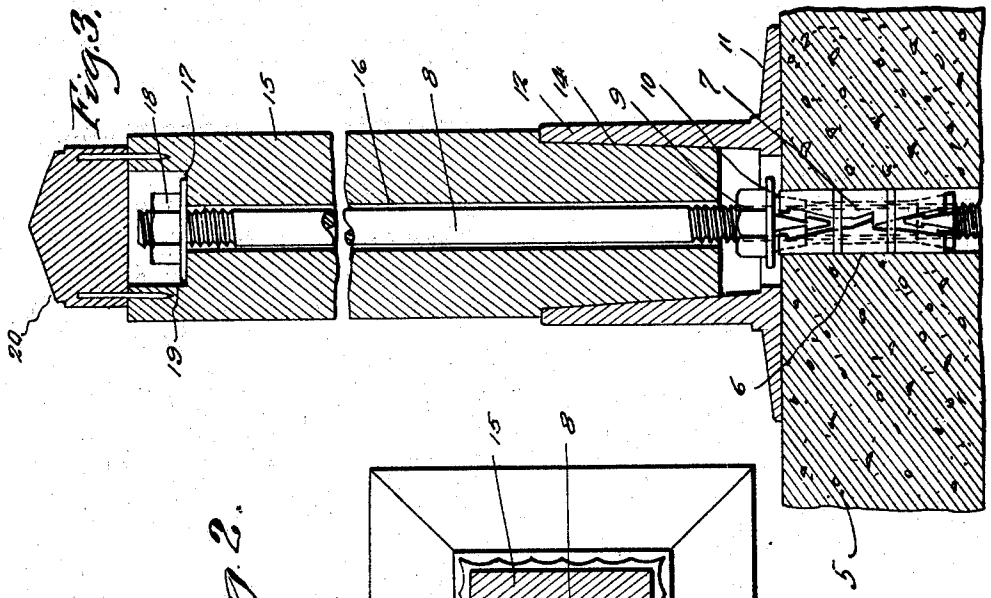


Fig. 2.

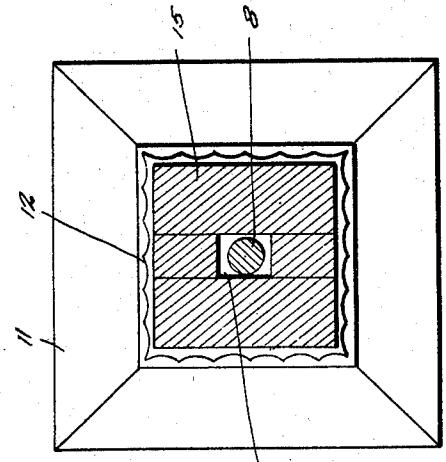
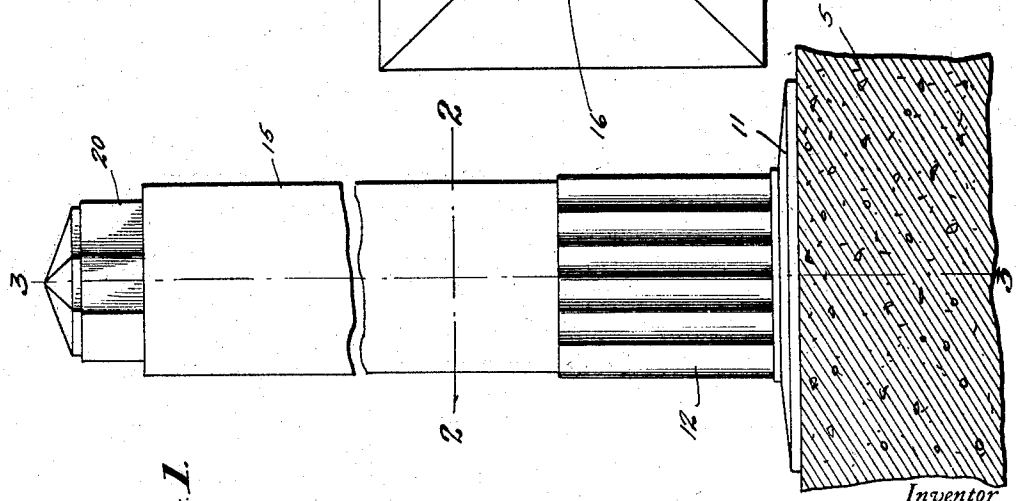


Fig. 1.



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UNITED STATES PATENT OFFICE

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POST MOUNTING

Application filed November 20, 1928. Serial No. 320,644.

The present invention relates to a post mounting and more particularly to means for mounting a post in an upright position on a concrete floor for the purpose of building office partitions or the like.

The prime object of the present invention resides in the provision of means for mounting and hanging a post in a strong and rigid manner.

A still further very important object of the invention resides in the provision of an improved structure of this nature which is simple, inexpensive to manufacture and install, durable, easy to assemble and disassemble, efficient and reliable in use, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a detail elevation of one of the posts, constructed in accordance with the present invention.

Figure 2 is a transverse section taken substantially on the line 2—2 of Figure 1, and

Figure 3 is a vertical section taken substantially on the line 3—3 of Figure 1.

Referring to the drawing in detail it will be seen that the numeral 5 denotes a concrete floor which is formed with a recess 6 for each post.

Since all the posts are identical in construction as far as this invention is concerned we will describe only one in detail. An expansion bolt 7 of conventional construction is placed in the recess 6 and a rod 8 is threaded therein with a nut 9 and washer 10 threaded thereon, so that the bolt 7 may be expanded in the recess to be tightly and rigidly anchored therein.

A shoe is then placed over this vertically disposed rod 8 to rest on the floor 5. This shoe includes a base flange 11 and an upright wall structure 12, to provide a downwardly tapering interior 14. A post 15 is provided with a longitudinally extending bore 16 countersunk at its upper end to provide a shoulder 17.

This post 15 is placed over the rod 8 and the lower end thereof is reduced and tapered to provide a wedge fit within the interior 14 of the wall structure 12.

The upper end of the rod 8 is threaded and a nut 18 is threaded on said upper edge to impinge a washer 19 against the shoulder 17 to drive the post 15 downwardly to attain the wedge fit in the shoe.

A cap 20 is placed over the upper end of the post 15 and completes the assembling of the post. Partitions 21 may be disposed between the post in any conventional manner as indicated in Figure 1 and doors 22 may be hung between the posts in the usual well known manner.

It will be seen that posts constructed and set up in accordance with this invention will be rigidly mounted and anchored on the concrete floor. It will further be seen that the post may be quickly and economically assembled on the floor and are of a sufficiently simple construction to be manufactured at a relatively low cost.

The present embodiment of the invention has been disclosed in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described our invention, what we claim as new is:

1. In combination, a concrete floor having a recess therein, an expansion bolt in the recess, a rod threaded into the expansion bolt, a nut on the rod to expand the bolt, a shoe resting on the floor and having a wall structure providing a downwardly tapering interior, a post having a bore to receive the rod and having its lower end tapered to extend into the interior of the wall structure, and a nut threaded

on the upper end of the rod to force the post downwardly so that its tapered lower end has a wedge fit in the wall structure of the shoe.

2. In combination, a concrete floor including a recess, an expansion bolt in the recess, a rod threaded in the expansion bolt to rise vertically from the floor, a nut threaded on the rod for expanding the bolt in the recess, a shoe including a base flange resting on the floor and a wall structure rising therefrom about the rod, a post on the rod having its lower end in the wall structure, said post having a bore to receive the rod, the upper end of the bore being countersunk to form a shoulder, a nut threaded on the upper end of the rod to impinge against the shoulder and hold the post tightly in the wall structure of the shoe, the interior of the wall structure being tapered downwardly and the lower end of the post being reduced, and the reduced portion tapering downwardly to provide a wedge fit in the wall structure, and a cap on the upper end of the post.

In testimony whereof we affix our signatures.

ALBERT L. NYLUND.
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