April 29, 1941. E. C. PINNEY 2,240,016

BASE FOR PORCH COLUMNS

Filed Aug. 30, 1939 2 Sheets-Sheet 1

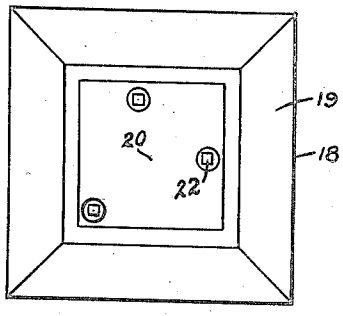


FIG. 1

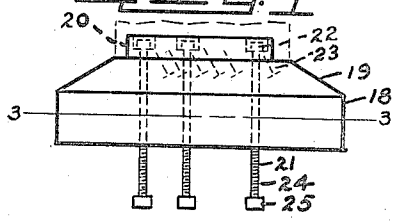


FIG. 2

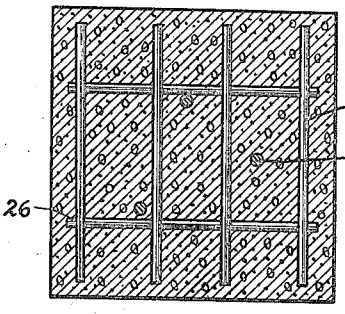


FIG. 3

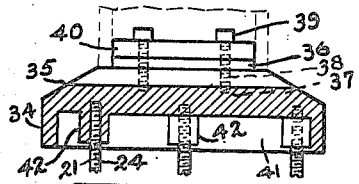


FIG. 10

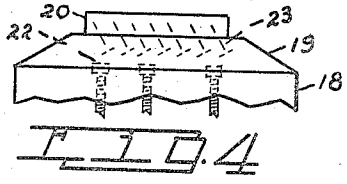


FIG. 4

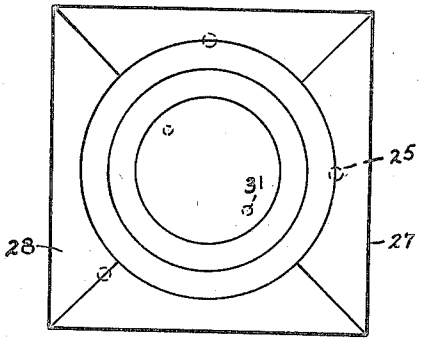


FIG. 5

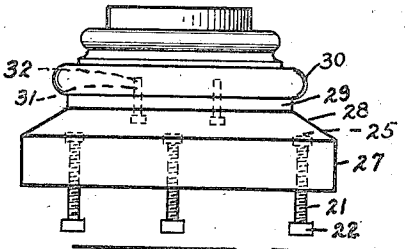


FIG. 6

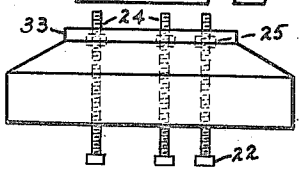


FIG. 7

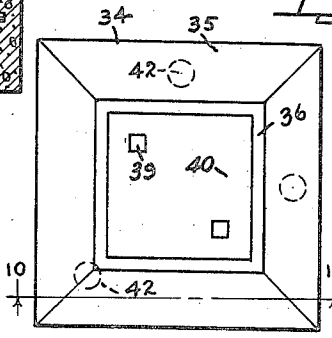


FIG. 8

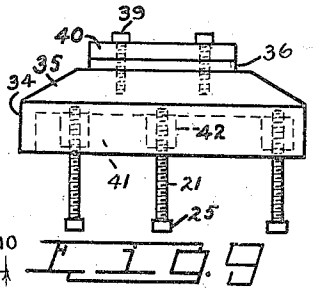


FIG. 9

Inventor

EDWARD C. PINNEY

By J. B. Dickman, Jr.

Attorney

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BASE FOR PORCH COLUMNS

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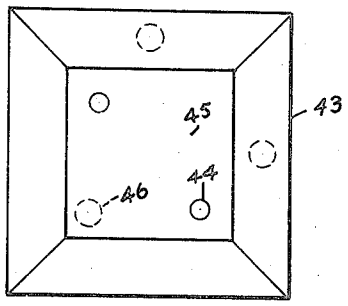


FIG. 11

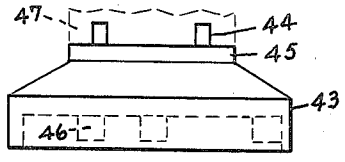


FIG. 12

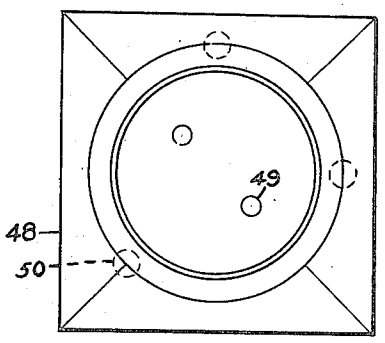


FIG. 13

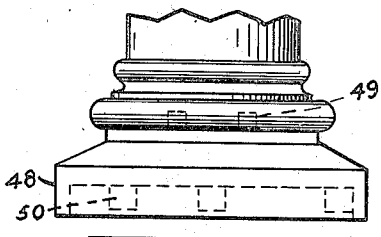


FIG. 14

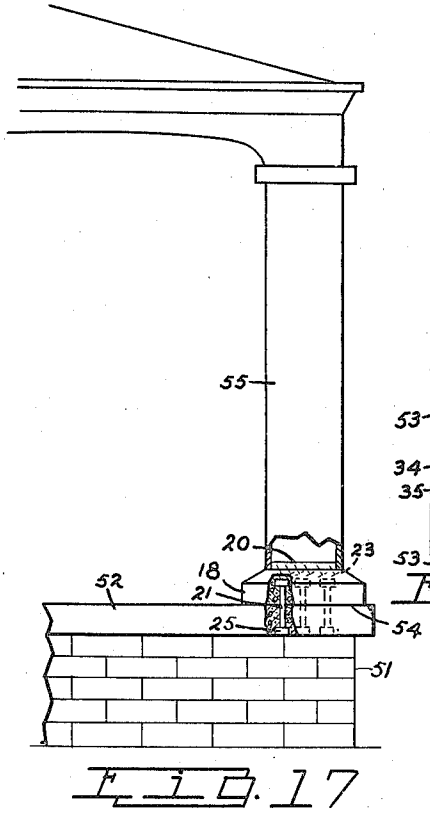


FIG. 17

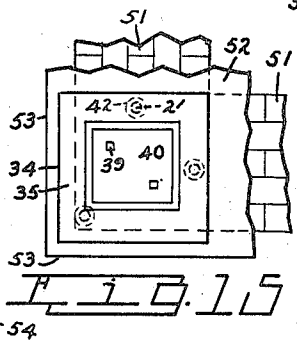


FIG. 15

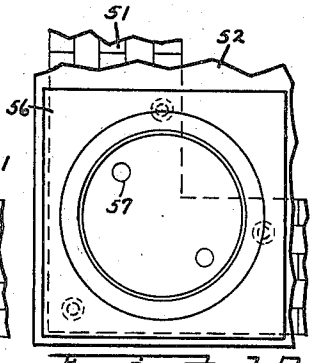


FIG. 16

Inventor

EDWARD C. PINNEY

By J. B. Dickman, Jr.

Attorney

Patented Apr. 29, 1941 2,240,016

UNITED STATES PATENT OFFICE

2,240,016

BASE FOR PORCH COLUMNS

Edward C. Pinney, Washington, D. C.

Application August 30, 1939, Serial No. 292,711

5 Claims. (Cl. 72—0.5)

The present invention relates to bases for porch columns, and particularly to bases that may be positioned before the porch floor is laid, thus eliminating the necessity of jacking up the porch roof with temporary supports.

The common practice, at the present time is to support the roof of a porch with temporary supports until after the porch floor is laid, be it either wood or cement. After the porch floor is laid, the columns are then placed in position and the temporary supports removed. The providing of temporary supports, plus labor charges is very expensive, and further it consumes a great deal of time.

It is therefore an object of the present invention to provide a porch column base, whereby the base may be positioned on the foundation, and the column on the base before the floor of a porch is laid.

Another object of the present invention is the provision of a base provided with means for leveling the base prior to the placing of the column on the base, as well as after the column has been superimposed on the base.

A still further object of the present invention is the provision of a base provided with means for securing the column thereto.

A still further object of the present invention is the provision of a base and means for holding the column securing means to the base.

A still further object of the present invention is the provision of a base for columns adapted for use at any desired point on a porch.

A still further object of the present invention is the provision of a base provided with means for leveling and anchoring said base to a porch floor.

A still further object of the present invention is the provision of a base provided with means for receiving leveling means.

A still further object of the present invention is the provision of means in bases for square or round columns for leveling said bases, the bases being made of any suitable material.

Other objects of the present invention will be more fully understood from the following description and claims, when the same are read in connection with the drawings accompanying and forming a part of this specification, similar numerals of reference designating like parts in all the figures.

Figure 1 is a top plan view of a square base, with a column nailing block positioned thereon and illustrating the position of bolts in the nailing block.

Figure 2 is an elevational view of same and illustrating the position of bolts through the nailing block and base, and leveling means on the bottom of the bolts, a column being shown in dotted lines and fragmentarily around the nailing block, the nailing block being provided with anchoring means illustrated in dotted lines.

Figure 3 is a sectional view taken on line 3—3 of Figure 2 and illustrating reinforcing means in the base and the position of the bolts.

Figure 4 is a fragmentary elevational view similar to Figure 1 and illustrating in dotted lines means for securely holding a nailing block to the base, and further illustrating the position of the bolts.

Figure 5 is a top plan view of a base for round columns, the bolts being shown in dotted lines.

Figure 6 is an elevational view of Figure 5 and illustrating in dotted lines means for engaging and holding the column base to the porch base, the bolts being shown in dotted and full lines.

Figure 7 is a modified form of the invention in which nuts are imbedded in the base for engagement with the threaded portion of the bolts,

Figure 8 is a top plan of a metal base for square posts or columns, and illustrates the position of means for securing a nailing block to the base, and in dotted lines the position of lugs for receiving leveling means.

Figure 9 is an elevational view of Figure 8, the means for receiving the leveling means being shown in dotted lines, the inner bottom portion of the base being hollow as shown by the dotted lines.

Figure 10 is a sectional view taken on line 10—10 of Figure 8 and illustrating the formation of the bottom portion of the base, a column being shown in dotted lines and fragmentarily,

Figure 11 is a top plan view of a base similar to the one illustrated in Figure 8, illustrating column engaging means, and the position of lugs for my novel leveling means.

Figure 12 is an elevational view of Figure 11 and illustrating column engaging studs, the lugs in the bottom of the base being shown in dotted lines.

Figure 13 is a top plan view of a base for round columns and illustrating in dotted lines column engaging means, the lugs being shown in dotted lines.

Figure 14 is an elevational view of Figure 13, a column and base being superimposed upon my novel base, the studs and lugs being shown in dotted lines, the column fragmentarily.

Figure 15 is a top plan view of a corner of a building, the brick wall and concrete floor being shown fragmentarily, with a column base super-

imposed thereon and illustrating in dotted lines the position of the leveling means for the column base.

Figure 16 is a view similar to Figure 15 and illustrating the position of a larger base on a corner of a building, and the position of the leveling bolts.

Figure 17 represents a side elevation of a porch provided with one of my novel bases, a portion of the column, base and concrete floor being broken away to show the column secured to the nailing block and the leveling means imbedded in the concrete floor.

In the drawings I have illustrated bases formed of concrete and iron and adapted to be used with round or square columns, however I do not wish to limit myself to these specific materials or shape.

In Figures 1, 2, 3, 4, 5, 6 and 7 the bases are made of concrete, while Figure 8 to 14 inclusive are made of metal.

In Figures 1, 2, 3 and 4, the numeral 18 represents a porch column base having beveled edges 19 and a nailing block 20, the nailing block being shown secured to the base in a two-fold manner, by bolts 21, the heads 22 of which are recessed in the nailing block 20, and further held to the base by nails 23 as shown in Figures 2 and 4 in dotted lines, the nails being imbedded in the concrete when the base is cast. One end of the bolts are provided with a threaded portion 24 for engagement with a nut 25. The base as illustrated in Figure 3 is provided with reinforcing bars 26, all of the concrete bases having some form of reinforcing means. It is to be noted that in Figure 4, the top of the bolts 22 are positioned differently from those shown in Figure 2.

In Figures 5 and 6 I have illustrated a base 27 adapted for use with round columns. The base 27 has a beveled portion 28 and a raised portion 29 of a size to receive the standard diameter of the raised block 30. Imbedded in the concrete base 27 are bolts 31 illustrated in dotted lines, the shanks 32 engaging bores in the block 30. As illustrated in Figure 6 the nuts 25 are imbedded in the concrete, however the bolts may be imbedded in the concrete as illustrated in Figure 2. If the nuts 25 are imbedded in the concrete base, a bore has to be provided (not shown) which is in excess of the diameter of the bolt shank, to allow the shank to turn freely, in order that the base may be leveled.

The nuts 25 in Figure 7 are imbedded in the concrete and the construction is the same as in Figure 6, except that the threaded portions 24 protrude above the raised portion 33 and engage companion bores in a solid column (not shown).

In Figures 8, 9 and 10 I have illustrated a metal base 34 having a beveled portion 35 and a raised portion 36. The threaded bores 37 are provided in the top of the base and receive the threaded shank 38 of bolts 39 that secure the nailing block 40 to the base. As illustrated in Figure 9 by the dotted lines and in full and sectional lines in Figure 10, a portion 41 of the bottom of the base is hollow, however I do not wish to confine myself to this particular structure, as the base may be made solid, the hollow portion of the base is provided with depending lugs 42 that are threaded and receive the threaded shank 24 of bolts 21.

In Figures 11 and 12 I have illustrated a base 43, the base being similar in structure to the base shown in Figure 8 and differing, in that the studs 44 are provided on the raised portion 45, one bolt receiving lug 46 being positioned differently from the one shown in Figure 8. The studs are integral with the base 43. This type of base is to be used with a solid column 47 as shown in dotted lines, the column having bores for the reception of the studs.

Figures 13 and 14 represent a metal base 48 for round columns of a greater size than the average column, and it is to be noted that the studs 49 are positioned closer together than those shown in Figure 11, due to the construction of the base of the round column. The column base is of the same structure as shown in Figure 11, except lug 50 is positioned differently than lug 46, and a further description of this base is deemed unnecessary.

In Figure 15 I have illustrated a corner of a foundation the brick wall 51 being shown fragmentarily. On top of the wall 51 is a concrete floor 52, and it is to be noted that the edges 53 of the porch floor extend beyond the side walls of the foundation walls 51, this being the usual practice. Positioned upon the concrete floor is a porch column base as illustrated in Figure 8, and showing the position of the leveling bolts 21 and lugs 42 in dotted lines with respect to the front and side foundation walls, the front and side edges of the column base being inset from the front and side edges of the concrete floor as shown by the numeral 53.

When it is necessary to use a base for round columns of a size in excess of the size illustrated in Figure 13, I have in Figure 16 illustrated a base 56 for large round columns, the base being positioned on a corner of a porch floor and foundation, and shows the position of the column base to the edges of the porch floor, the studs 59 being positioned a greater distance apart.

In the actual use of my novel base, either of cement or metal, as illustrated in Figure 17, after the porch foundation 51 has been completed, the base 18 is then positioned on the brick wall and the floor form placed around the foundation, the base being adjusted to the proper height which is usually 4 inches between the top of the foundation wall 51 and the bottom of the base 54, the nuts 25 are then adjusted until the base is level, the column 55 is then superimposed upon the column base, and the column nailed to the nailing block 20. When the concrete floor 52 is poured, the concrete will encase the bolts 21 and the leveling nuts 25, thus rigidly securing the base in place. Where the metal bases are used the bolts are rotated until the base is level, the threaded portions 24 of the bolts engaging the threaded lugs 43. It is to be noted that I have provided two distinct ways of leveling column bases, either by threaded members engaging bolts, or the threaded portion of the bolts engaging threaded members. I wish to have it understood that the bolts may be of any desired configuration.

Changes in detail may be made without departing from the scope of the claims hereto appended.

What I claim is:

1. A base for porch columns comprising a body, column securing means on said body, means securing the column securing means to the body, means for leveling said base, said leveling means anchoring said base to a porch floor.

2. A concrete base for porch columns comprising a body, column securing means on

said body, means in the column securing means for securing the column securing means to the body, reinforcing means in the body, means in said base for leveling the base and anchoring the base to a concrete floor.

3. A concrete base for porch columns comprising a body, column securing means on said body, means in the column securing means for securing the column securing means to the base, reinforcing means in the base, means in the body for spacing the body, and means co-acting with the spacing means for leveling and anchoring the base.

4. A metal base for porch columns comprising a body, column securing means on said body, means for securing the column securing means to the body, means formed in the base of the body for the reception of leveling means, said leveling means anchoring the base to a concrete floor.

5. A metal base for porch columns comprising a body, column engaging means integral with said body, means formed in the base for the reception of leveling means comprising a plurality of lugs, said leveling means spacing the base from a wall, said leveling and spacing means anchoring said base to a concrete floor.

EDWARD C. PINNEY.