F. X. MÜLLER.

VERTICALLY ADJUSTABLE POST.

APPLICATION FILED JULY 26, 1916.

1,222,234.

Patented Apr. 10, 1917.

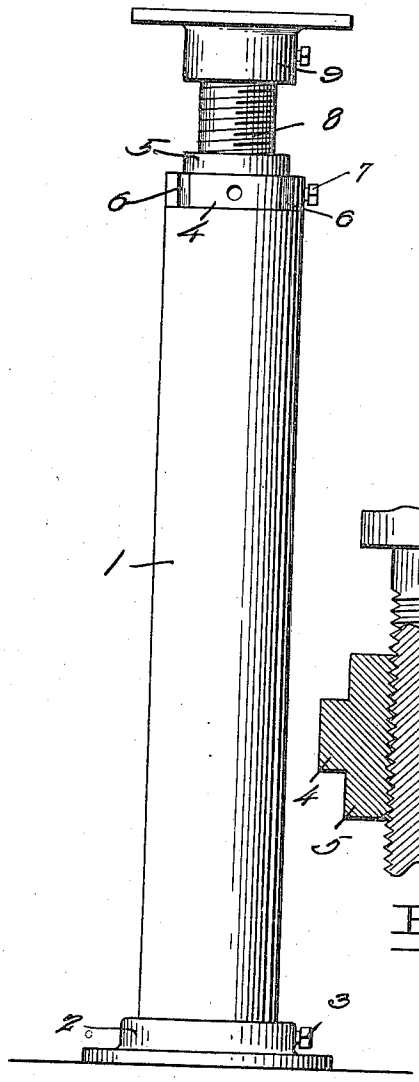


Fig. 1.

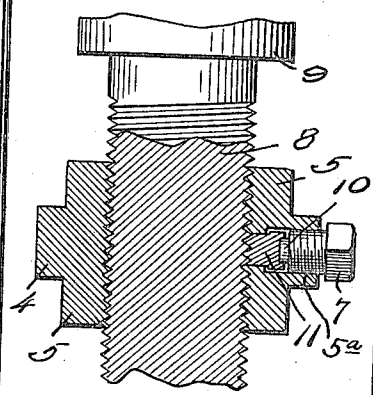


Fig. 3.

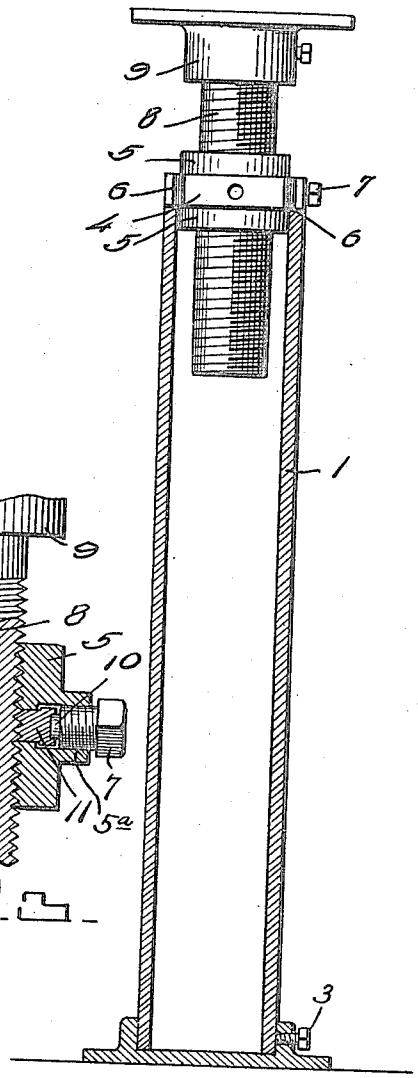


Fig. 2.

Witnesses

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VERTICALLY-ADJUSTABLE POST.

1,222,234. Specification of Letters Patent. Patented Apr. 10, 1917.

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To all whom it may concern:

Be it known that I, FRANK X. MÜLLER, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Vertically-Adjustable Posts, of which the following is a specification.

My present invention pertains primarily to means for preventing damage to plaster in dwellings due to sagging of the joists and other building parts; and it has for its object to provide a post, adjustable in length, and adapted to be adjustably fixed under buildings and porches to support the same and also adapted to be adjusted as occasion demands with a view to compensating for any tendency of a building to sag.

Another object of the invention is the provision of an adjustable post embodying simple and efficient means through the medium of which the post may be adjustably fixed and left in one state for a long period of time without liability of the thread of the screw being injured and without danger of the parts becoming "set" through corrosion or from any other cause.

Other advantageous characteristics of the invention will be fully understood from the following description and claims when the same are read in connection with the drawings, accompanying and forming part of this specification, in which:

Figure 1 is an elevation of my novel post.

Fig. 2 is a view partly in elevation and partly in section.

Fig. 3 is a fragmentary enlarged section illustrative of my novel means for preventing injury to the thread of the screw and for also precluding setting of the parts.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

It will be noted that the preferred embodiment of my invention is extremely simple and inexpensive in construction and is made up of readily procurable elements. The said embodiment comprises a base 2 having a socket in its upper side and also having a set screw 3; a column 1, of gas pipe, disposed at its lower end in said base and adapted to be held by the set screw thereof; an interiorly threaded collar 5 having a circumferential flange 4 midway its height and adapted to rest on the upper end of the column 1, whereby the collar is reversible, a screw 8 extending through and engaging the threaded bore of the collar and supported by the same, and a top plate 9 suitably mounted on the screw and adapted to be positioned below the building, porch or the like that is to be supported. In this connection I would have it understood that there are many relations in which my novel post may be employed to advantage, and among the same may be mentioned the support of stationary wash tubs and other heavy fixtures common to dwelling houses and other buildings.

As shown in Figs. 1 and 2, the flange 4 of the collar 5 is provided in its periphery with recesses 6 for the engagement of a spanner or the like. I would also have it understood in this connection that the flange 4 may be apertured as shown or otherwise adapted for the application of any means suitable to the purpose for enabling an operator to exert leverage on the collar through the medium of an applied implement. It will also be noticed by reference to Fig. 3 that the collar 5 is provided in its flanged portion with a radially-disposed bore 5^a. The outer portion of this bore 5^a is threaded for the engagement of a radially disposed screw 7, and the inner portion of the bore is smooth for the endwise movement of a soft-metal plug 11, the outer end of which is provided with a socket to receive the reduced end of the screw 7. By virtue of this construction, it will be manifest that after the collar 5 is turned to raise or lower the screw 8 and the cap plate 9, as occasion demands, the screw may be adjustably fixed as to height by turning the screw 7 and thereby setting the plug 11 against the thread of the screw 8. This manipulation of the parts will effectually preclude any casual rotation of the screw 8 in the collar 5, and this without liability of the thread of the screw being injured. It will also be appreciated in this connection that because of the interposition of the soft metal plug between the set screw 7 and the thread of the screw 8 there is practically no liability of the parts becoming fixed with respect to each other even when the post after adjustment thereof is left to stand for a long period of time.

In the practical use of my novel post, it will be understood that when it is positioned under a building or under a porch or the like, it is not necessary when the building or porch sags to interpose wedges

or the like between the building or porch and the top plate of the post. On the other hand, it is simply necessary to turn the collar 5 in the proper direction and to the extent necessary to raise the building or porch so as to compensate for the sagging thereof. It will also be appreciated that my novel post may be adjusted at intervals so that little difficulty will attend the maintenance of a house or porch at its original height, no matter how great may be the tendency for the building or porch to settle.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

1. A vertically adjustable post comprising a tubular column, open at its upper end, an interiorly-threaded collar having a peripheral flange at an intermediate point of its height superimposed on the upper end of the column and also having end portions adapted to be disposed in the column, and a screw extending through and engaging the thread of the collar.

2. In means for the purpose described, the combination of a suitable support, a collar arranged on said support and interiorly threaded and having a radially disposed bore the outer portion of which is threaded, a screw extending through the collar and engaging the thread thereof, a soft metal plug arranged in the inner portion of the radial bore of the collar, and a set screw bearing in the outer portion of said bore and also bearing at its inner end against said plug, whereby said plug is enabled to prevent setting of the parts.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK X. MÜLLER.

Witnesses:
GEO. J. WINTER,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."