Dec. 9, 1930. L. C. YOUNG 1,784,264

PIPE VISE STAND

Filed June 13, 1928

Fig. 1.

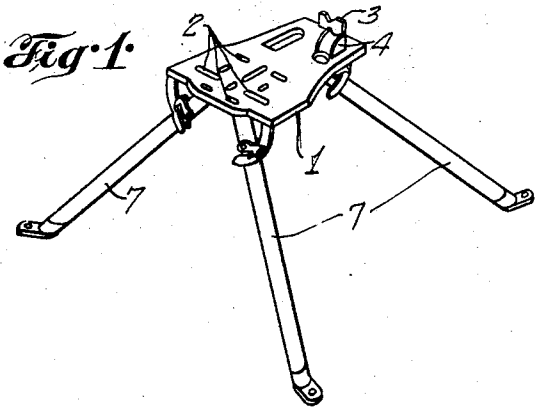
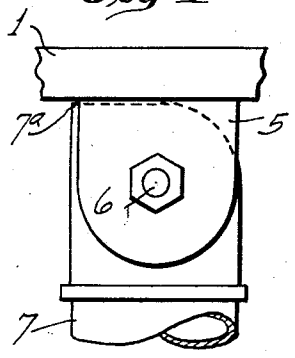


Fig. 4.



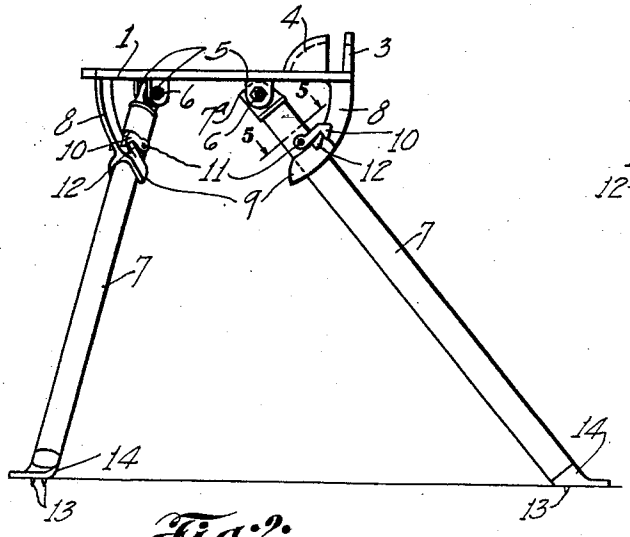


Fig. 2.

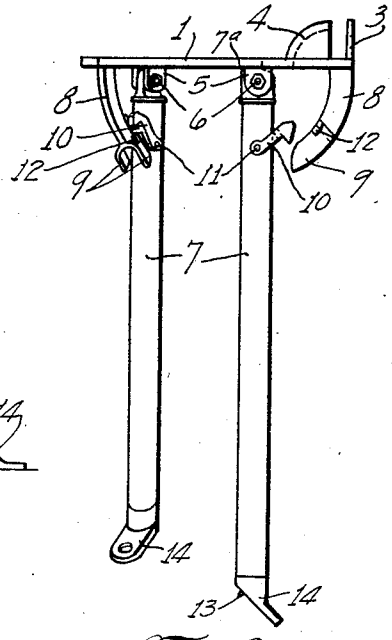


Fig. 3.

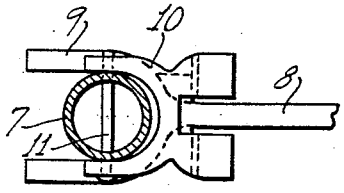


Fig. 5.

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UNITED STATES PATENT OFFICE

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PIPE-VISE STAND

Application filed June 13, 1928. Serial No. 284,898.

This invention relates generally to plumbers' tools and devices. More particularly, my present invention relates to a certain new and useful improvement in plumbers' equipment of the type commonly known as pipe-vise stands and has for its primary object the provision of an inexpensive, compact, durable, and efficient collapsible vise-stand that may with equal facility be collapsed for convenient portability or set up for use, and when in use is firm and rigid, the present application being a continuation in part of my copending application Serial No. 58,098, now issued as Patent No. 1,695,311, dated December 18, 1928.

And with the above and other objects in view, my present invention resides in the novel features of form, construction, arrangement, and combination of parts hereinafter described and pointed out in the claim.

In the accompanying drawings,—

Figure 1 is a perspective view of a collapsible pipe-vise stand embodying my invention, illustrated as when set-up for use;

Figure 2 is an elevational view of the stand as when set-up for use;

Figure 3 is an elevational view of the stand as when collapsed for portability;

Figure 4 is an enlarged fragmental detail view, showing the rule-joint connection between the several respective legs and the head of the stand; and

Figure 5 is a detail sectional view taken approximately on the line 5—5, Figure 2.

Referring now more in detail and by reference characters to the drawing, which illustrates a preferred embodiment of my invention, 1 designates the top-member or head of the stand, which is preferably in the form of a plate-casting formed or provided with variously located and suitably spaced openings or the like, as at 2, for accommodating convenient attachment to the plate 1 of the particular vise or other tool, while fixed upon the upper face of plate 1 is a V-shape lug 3 for supporting a pipe-section in threading operations and an arcuate lug 4 for facilitating pipe-bending operations.

Integrally or otherwise fixed to, and depending from the under face of, plate or head 1, is a plurality of suitably located pairs of spaced parallel ears 5, and having their respective upper ends disposed between, and for swingable movement relatively to plate 1 pivotally connected by individual bolts 6 to the ears 5—5 of said pairs, are suitably elongated legs 7, which are hence adapted to be swung together to facilitate convenient portability of the stand or, in a like manner, to be spread apart or swung outwardly relatively to each other for supporting the plate 1 upon a floor or the like as when the vise-stand is set-up for use.

At its upper or attached end, each leg 7 is of arcuate contour, as best seen in Figure 4, whereby each leg 7 is adapted, when in collapsed position, for engagement at a corner, as at 7*a*, with the under face of the head 1. The leg-corner 7*a* in its engagement with the head 1 thus forms what may be described as a rule joint, limiting the inwardly swingable movement of the leg to collapsed position. Thereby, the several legs 7, when collapsed, are held out of engagement the one with the other, obviating any squeezing or other injury to the person while carrying the stand.

To limit the outward swingable movement of the several legs 7, the plate 1 is integrally or otherwise rigidly formed upon its under face and adjacent its margin with a plurality of depending arcuate brackets or arms 8, each bifurcated or forked, as at 9, at its lower or free end and each suitably disposed with its forked end 9 presented inwardly for individual engagement with a respective leg 7. Thus, when the several legs 7 are spread outwardly and individually engaged by the several bracket-arms 8, not only are the several legs 7 retained by the brackets 8 from further outward swingable movement, but the several arms or brackets 8 function also in co-operation with the several legs 7 as reinforcing braces for the head, particularly at its margin, and thus a firm, rigid stand for the head 1 and its carried vise, not shown, is provided, each leg 7 being relatively retained in outwardly swung position and in engagement with its respective brace-providing arm 8, by means of a preferably double hook 10 spanning and pivoted at its shank

upon the leg, as at 11, and adapted at its free end for detachable engagement with oppositely disposed lugs 12 co-operatively located on the arm 8, as best seen in Figure 2. Preferably each of said legs 7 is provided at its lower or free end with a projecting prong 13 for detachable gripping or non-slipping engagement with a floor or other support and also with a foot 14 for convenient bolting, if desired, to the floor.

I am aware that changes in the form, construction, arrangement, and combination of the several parts of my new pipe-vise stand may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

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

A pipe-vise stand including a head in the form of a plate, a supporting-leg pivotally attached at an end to the head for swingable movement, and an arcuate bracket-arm depending from the head and having a bifurcated free end presented inwardly relatively to and disposed under the head for engagement by and with the leg for re-inforcingly bracing the head, in combination with means comprising outwardly presented opposed lugs upon the arm, and a double hook spanning and pivoted at its shank upon the leg for detachable engagement with the lugs for releasably retaining the leg obliquely in engagement with the arm.

In testimony whereof, I have signed my name to this specification.

LEE C. YOUNG.