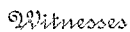


WIPE JOINT PIPE HOLDER.
APPLICATION FILED MAY 6, 1910.

Patented Dec. 20, 1910.

Fig. 1.



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3 SHEETS—SHEET 2.

Fig. 2.

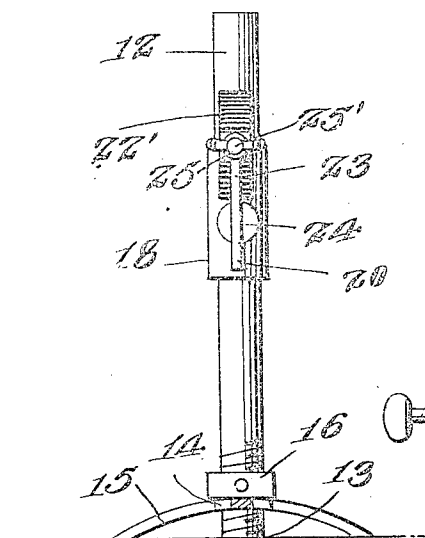


Fig. 4.

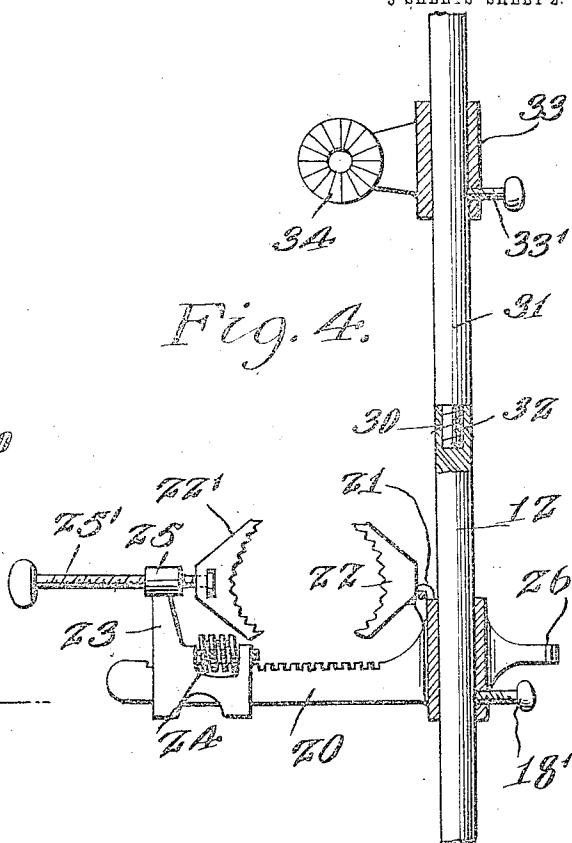
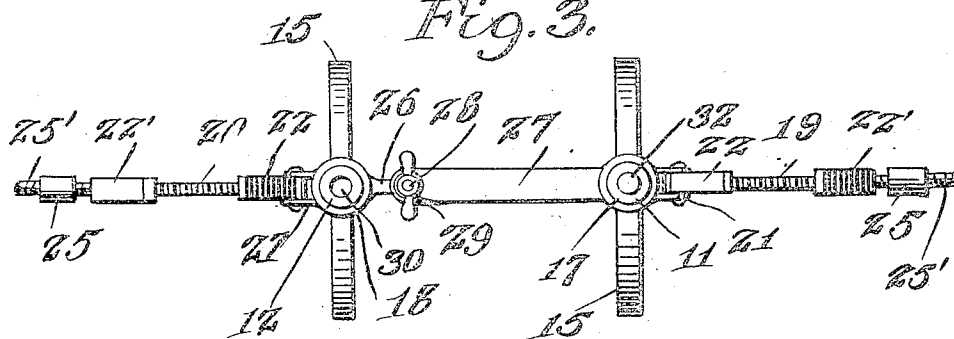


Fig. 3.



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Fig. 6.

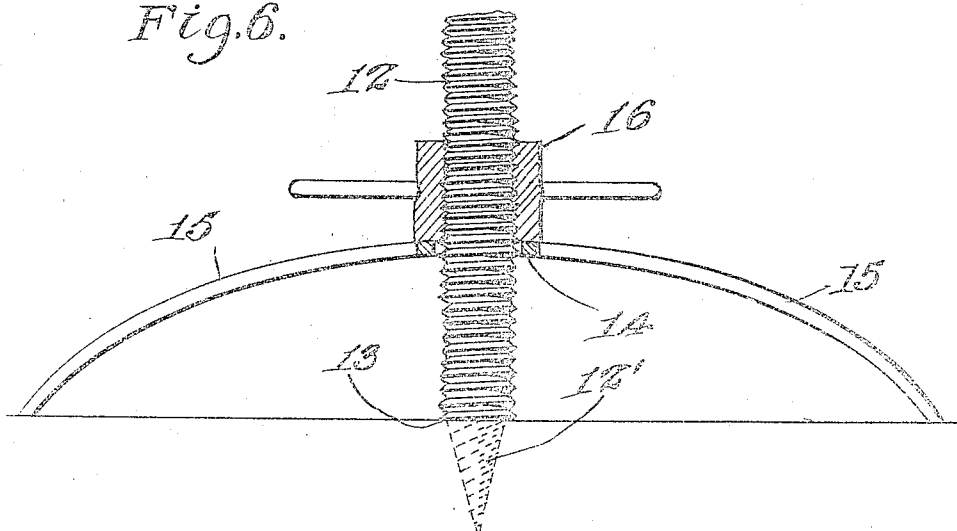
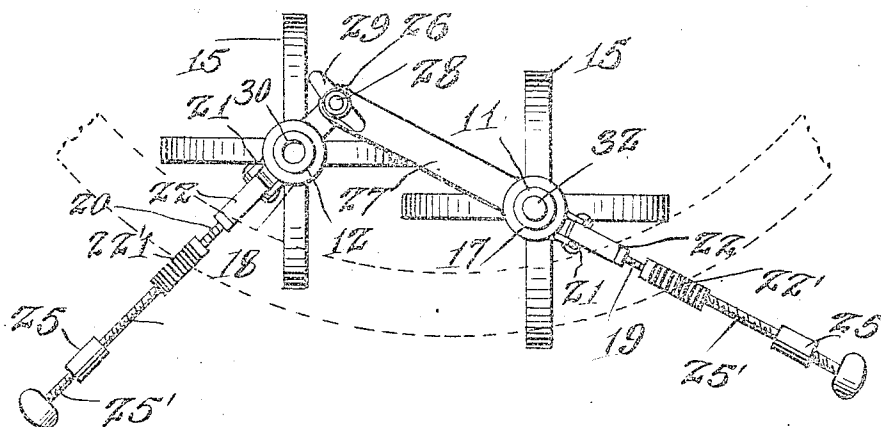


Fig. 7.



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UNITED STATES PATENT OFFICE.

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WIPE-JOINT PIPE-HOLDER.

979,305.

Specification of Letters Patent.

Patented Dec. 20, 1910.

Application filed May 6, 1910. Serial No. 559,712.

To all whom it may concern.

Be it known that I, CHARLIE D. HUNT, a citizen of the United States, residing at Paola, in the county of Miami and State of Kansas, have invented certain new and useful Improvements in Wipe-Joint Pipe-Holders, of which the following is a specification.

This invention relates to plumbers' appliances, and more particularly to pipe holders, and has for its object to provide such a device adapted to hold pipes during the making of a "wipe joint."

A further important object is to provide a novel form of standard and pipe clamping device adjustable thereon.

A further object is to provide a novel means for supporting the pipe sections to be connected to an elbow, whereby the sections may be adjusted at any distance from the support and disposed at any desired angle with respect to the elbow.

Another object is to provide a novel means for securing the device to a floor or other similar support.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings, Figure 1 is a front view of the holders, Fig. 2 is a side view thereof, the upper section being removed, Fig. 3 is a top plan view of the lower portion of the device shown in Fig. 1, Fig. 4 is a detail partly in section of the adjustable sleeves, Fig. 5 is a detail vertical cross section of the adjusting device for the branch holder, Fig. 6 is a detail sectional view of the standard bracing means, Fig. 7 is a top plan view of the device having a curved pipe engaged therein.

Referring to the drawings, there is shown a floor or the top of a work bench 10, upon which there are secured at spaced distances, the standards 11 and 12 each threaded for some distance inwardly of its lower end and having the reduced wood screw portions 12', and forming a stop shoulder 13 at

the lower end of the standard, the screw portion being firmly engaged in the material 10. Engaged slidably around the lower ends of the standards, there are the spider braces 14, having the resilient downwardly curved arms 15, firmly engaged against the floor and held thereagainst by means of a suitable thumb nut 16 threaded upon the standard above the spider. The nut is screwed downwardly against the spider to force the pointed ends 15' into the floor and brace them against lateral movement. The standards are circular in cross section and are provided with a suitable scale thereon to indicate units of distance from their lower ends. The standard 11 is somewhat less in height than the one 12, for a reason to be subsequently indicated. Carried revolubly and vertically adjustable upon each of the standards, there are sleeves 17 and 18, provided respectively with the integrally formed rack arms 19 and 20. Above the arms and adjacent the bases of the arms are formed the spaced ears 21, between which, are pivoted the inner of the pipe clamping jaws 22, having gripping teeth. Each of the castings 17 and 18 carries a set screw 17' and 18' respectively engaged through the sleeve and adapted to impinge against the respective standards 11 and 12, to retain the sleeves adjustably at various points in their movement.

Carried slidably upon the arms 19 and 20, there are sliding jaw supporting sleeves, 23, adjustable longitudinally thereon by a suitable worm wheel 24 engaging in the racks on the arms 19 and 20 respectively. The sleeve 23 is provided with an interiorly threaded hub 25, through which and parallel with the arms 19, and 20 respectively extend the adjusting screws 25' which have swiveled upon their inner ends the outer pipe clamping jaws 22' between which jaws and the jaws 22 is adapted to be clamped a section of pipe to be soldered. Also carried by the sleeve 18 there is a laterally extending and vertically apertured lug 26, which is adapted to be straddled by the apertured furcations 27' of the arm 27, which projects from the sleeve 17, and pivotally connected thereto by means of a bolt

28, passing through said lug and furcations. A thumb nut 29 is engaged upon the upper end of the bolt 28, whereby the two clamping devices may be horizontally adjusted to engage pipes having various degrees of curvature or angularity, and may be rigidly secured in such position.

In using the device the respective standards 11 and 12 are screwed into the proper support until the shoulders 13 abut thereagainst. After this the nuts 16 are screwed downwardly until the resilient arms and spider portions are engaged against the floor with sufficient firmness to properly brace the standards. One section of the pipe is then engaged between the jaws 22 and 22', after which the sleeves are adjusted to the proper height and secured by means of the thumb screws 17' and 18', when the thumb nut 29 may be tightened. A like method is pursued with the opposite section, which is adjusted in proper position, to abut the end portion of the first section secured in position, after which the operation of wiping may be very readily conducted.

It will be observed that the standard 12 is recessed at its upper end, the recess 30 being provided with threads to receive the reduced threaded portion 32, of the extension bar, 31. Slidably engaged upon the extension bar 31, is a sleeve 33, having formed integrally therewith and extending laterally therefrom an arm 33, provided with an off-set circular boss 34. The boss is centrally apertured and provided with a rosette face, and adapted to be adjustably engaged against a rosette washer 35 having an elongated opening 36 therethrough. Inserted through the off-set 34 and by means of which the rod 40 and the rosette block 35 are adjusted, is the threaded bolt member 37, having the thumb nut 38 engaged thereon, as shown. The bolt is gradually enlarged oppositely of the threaded portion so as to fill the elongated opening 36. This enlarged portion is provided with a member 39, through which the branch rod 40 is passed and adjusted and clamped in any desired position by means of the above mentioned elements 34, 35, 36, 37 and 38. When the enlargements enter the elongated openings 36, the rod 40 will be held frictionally against the rosette block.

Mounted to slide on the rod 40, is a sleeve similar to the sleeves 17 and 18 from which projects a rack arm 42 similar to 19 and 20, the base portion of the arm carrying a jaw 22, and the arm 42 carrying the slidable member 23 and parts cooperating with the jaw 22 similar to those above described. The free end of the rod 40 is threaded and provided with a screw point similar to those upon the standards 11 and 12, so that this rod 40 may be used as a standard inde-

pendently of the other elements if desired. By adjustment of the thumb nut 38 upon the bolt 37 the rod 40 may be adjustably clamped against longitudinal movement through the sleeve 39, and against relative rotation. The arm 40 may be adjusted at any angle with respect to the horizontal at the same time that it is rotated for similar adjustment of the arm 42. The fastening in both of these adjustments is accomplished by the one thumb nut. The sleeve 33 is provided with a suitable thumb screw 33' projected therethrough for engagement with the extension 31 to hold the sleeve thereon against sliding or rotative movement.

It will be observed that the member 31 is provided with a threaded portion 32 at its upper end, whereby in ordinary work where an extension is to be connected to an elbow the standards 11 of one set of clamps may be inverted and secured in the socket 30 in the other set, the sleeve 33 engaged thereover, and the remaining standard 12 engaged slidably and held adjustably against longitudinal or rotative movement by means of the clamp nut 38. The numerals indicating this use of the device are applied to Fig. 1 with dotted lines.

What is claimed is:

1. A device of the class described comprising two standard members having their lower ends threaded and also provided with screw tenons adapted for engagement in wood and the like, resilient spider members slidable over the threaded portion and a nut engaged inwardly of the spiders for impingement against the spiders to force them against material engaged by the tenons, and pipe clamping devices carried slidably upon the standards.

2. A device of the class described comprising standard members adapted to be secured upon a support, slidable pipe clamping devices carried thereon, sleeves slidably mounted on said standards, each of said sleeves having a lateral projection provided with a rosette boss extending at right angles thereto, said boss being centrally and circularly apertured, a rosette block having an oblong passage therethrough restricted to circular form and adapted to register with the named aperture, said block being disposed in engagement with said boss, a threaded bolt projecting through the said block and boss, a thumb nut engaged with the bolt, said bolt being enlarged outwardly and oppositely of the nut to fill said oblong opening, said enlargement having a transverse passage therethrough, said passage being adapted to receive one of said standards slidably therethrough to be clamped adjustably at any angle and against revolution.

3. A device of the class described comprising a plurality of standards, sleeve mem-

5 ber's slidable thereon and carrying pipe engaging jaws centrally pivoted and having their opposite portions extended obliquely with respect to each other, said sleeves having laterally extending rack arms, sliding members thereon, means for adjusting the members longitudinally of the arms, and second pipe engaging jaws opposed respectively to those first named, and means for adjust-

ing said jaws relatively toward and away 10 from each other.

In testimony whereof I affix my signature, in presence of two witnesses.

CHARLIE D. HUNT.

Witnesses:

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KATHLEEN LEWIS.