Aug. 21, 1923. 1,465,330

M. ARDNER

PLUMBER'S CLAMP

Filed Dec. 28, 1921 2 Sheets-Sheet 1

Fig. 1.

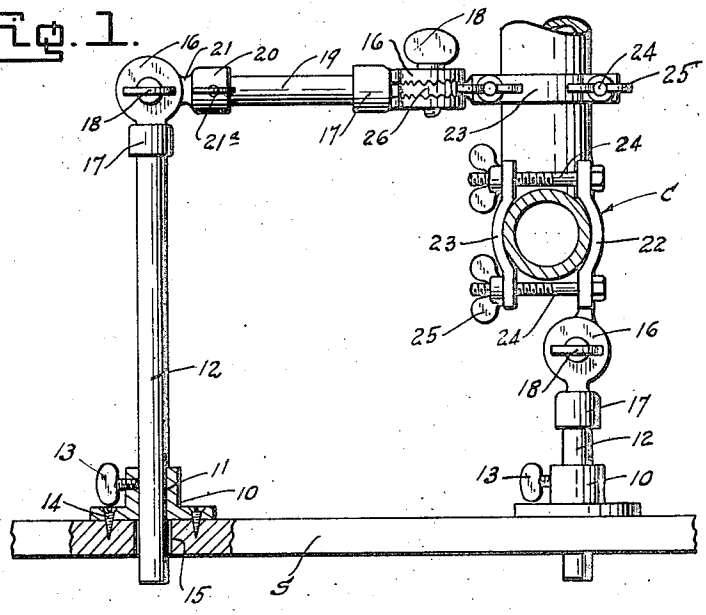
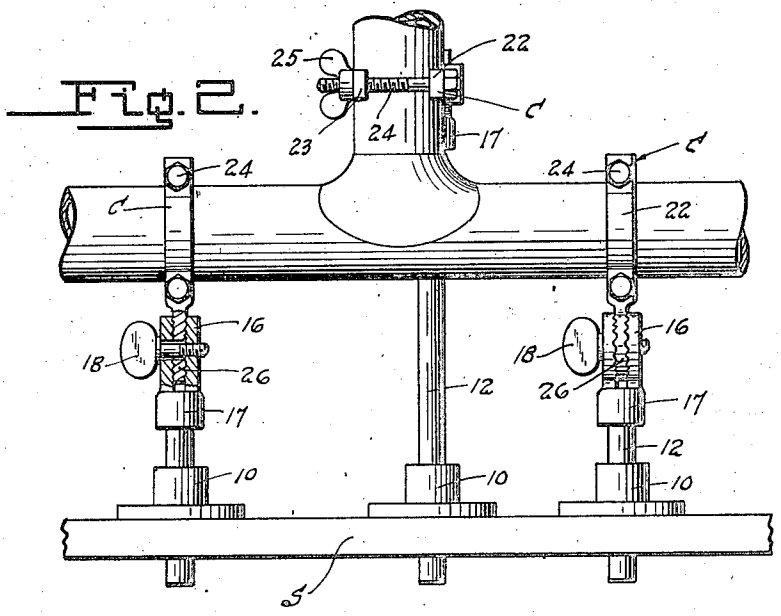


Fig. 2.



Inventor

Max Ardner

By Watson E. Coleman

Attorney

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Fig. 3.

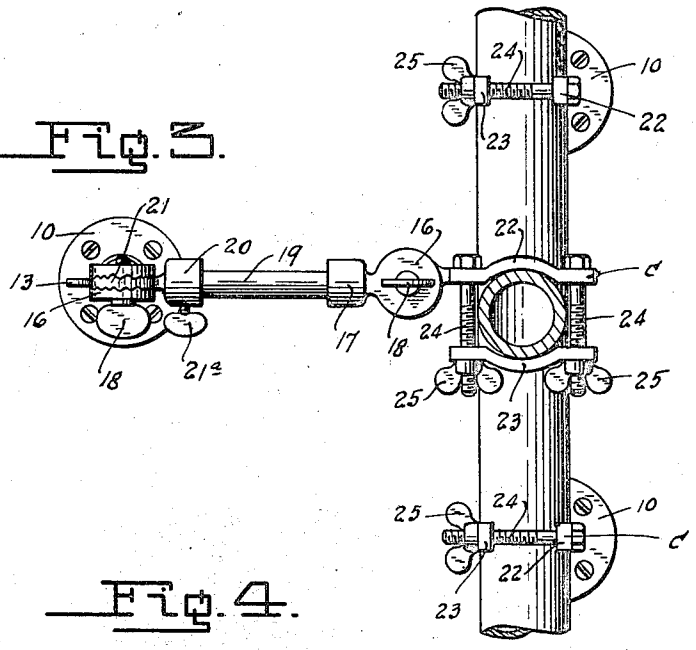


Fig. 4.

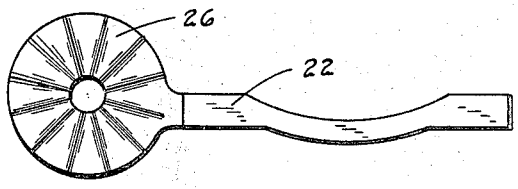


Fig. 5.

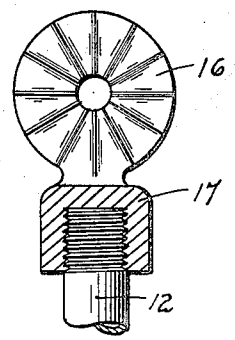
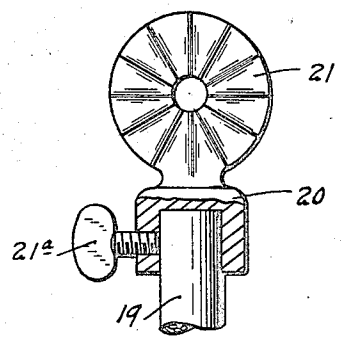


Fig. 6.



Inventor

Max Ardner

By Watson E. Coleman

Attorney

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UNITED STATES PATENT OFFICE.

MAX ARDNER, OF LOCK HAVEN, PENNSYLVANIA.

PLUMBER'S CLAMP.

Application filed December 28, 1921. Serial No. 525,488.

To all whom it may concern:

Be it known that I, MAX ARDNER, a citizen of the United States, residing at Lock Haven, in the county of Clinton and State of Pennsylvania, have invented certain new and useful Improvements in Plumbers' Clamps, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to wipe joint clamps and has for an important object thereof the provision of a clamp for holding sections of lead pipe while making a wipe joint connection thereof.

A further object of the invention is to provide a device of this character having a minimum number of parts and which may be readily adjusted to suit the requirements of the work on hand.

A still further object of the invention is to provide a device of this character in which the standards upon which the working parts of the clamp are employed may be formed of a standard size pipe, enabling the plumber or mechanic employing the clamp to cut lengths for the standards best suited to his requirements.

Other objects and advantages of the invention will become apparent throughout the course of the following description.

In the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, and wherein like reference characters designate like parts throughout;

Figure 1 is a side elevation partly in section of a clamp constructed in accordance with an embodiment of the invention;

Fig. 2 is a front elevation thereof;

Fig. 3 is a plan view thereof; and

Figs. 4, 5, and 6 are detailed views of the clamping elements employed.

Referring now more particularly to the drawings, the numeral 10 designates a suitable base having a vertical opening 11 therethrough, preferably of a size sufficient to permit sliding adjustment of a piece of one-quarter inch of the standard pipe therethrough. The pipe 12 may be held in adjusted position in the base 10 by means of a clamping screw 13 of any desired construction. The base 10 may be secured to any suitable support S by means of securing elements 14 extending through openings provided in the base. The support S is preferably provided with an opening 15 aligning with the opening 11 of the base in order that the pipe may be adjusted not only through the base, but through the support as well.

The pipe 12 or vertical support employed has its upper end threaded for the reception of a threaded head 16 shown in the present instance as provided with a pair of upstanding ears 17, the opposed faces of which are corrugated. One of the ears 17 has an opening formed therethrough and the other of the ears has an opening aligning with the first named opening and interiorly threaded and engaged by a clamping screw 18. It will be obvious from an inspection of the drawings that the head 17 forms one piece of the two piece swivel clamp. An arm 19 is provided having upon one end thereof a casting 20 provided with an extension 21 corrugated upon its opposite faces and forming the other piece of the two piece swivel clamp, this extension 21 having an opening through which the clamping bolt 18 may extend. The opposite end of the arm 19 is provided with a head 16 similar to the head provided upon the vertical standard 12.

In accordance with my invention, I also provide a pipe clamp C comprising a pair of clamping members 22 and 23 adapted to be arranged upon opposite sides of the piece of pipe to be held and assembled thereabout by means of bolts 24 having wing nuts 25, by means of which the clamp may be tightened. The clamp section 22 is provided with an extension 26 corrugated upon its opposite faces and likewise adapted to form the second piece of the two piece swivel clamp hereinbefore mentioned. It will be obvious from the foregoing that either the arm 19 may be engaged with the head 17 upon the standard 12 or the clamp C may be engaged therewith. If desired, the arm 19 may be engaged with the head 17 of the vertical standard and the clamp C engaged with the head 17 of the arm. Since the standard 12 is circular in cross section and may be readily rotated within the base 10 and the arm 19 may be adjusted at any desired angle thereto, it will be seen that the arm 19 may be positioned at any desired direction. The engagement of the head 17 with the arm 19 is threaded as in the case of the engagement of the head 17 with the standard 12 so that these heads are interchangeable. The casting 20 previously mentioned has a slip joint connection with the arm 19 and a thumb screw 21[a] by means of

which the arm 19 may be clamped in position. Accordingly, a clamp C may be engaged with the head 17 of the arm 19, turned in any desired position and angle and clamped in such angle. It will accordingly be seen that in the formation of wipe joints it is possible to bend the pipe employed to the desired curvature and then hold the sections in their proper position by the clamp.

In the use of the device, three of the bases 10 will be employed, each provided with a standard 12 having a head 17 thereon. With two of these heads, a clamp C may be engaged to hold the T-head of the wipe joint and with the other an arm 19 will be employed having a clamp C engaged with the head 17 thereon. The arm 19 as previously stated may be adjusted to any desired position to hold the stem pipe of the T-head in the proper position for forming a wipe joint regardless of whether the pipe employed is straight or bent.

It will be obvious that the head 17 and bases 10, together with the castings 21 being adapted for use for the standard size pipe, it will be unnecessary for the mechanic to carry the standards 12 and arms 19 with him to the work to be done if the same be at any distance. The heads and castings may simply be removed and placed in the kit and pipe of the desired length cut upon the ground. It will furthermore be obvious that the construction hereinbefore set forth is capable of considerable variation in the shape, size and construction of the various parts shown, without in any manner departing from the spirit of my invention, and I accordingly do not limit myself to the specific structure thereof except as hereinafter claimed.

What is claimed is:—

1. In a plumber's clamp for use in joint wiping operations, a base adapted for mounting upon a suitable support, a member longitudinally and rotatably adjustable through the base and provided with a head forming one piece of a two-piece swivel clamp, an arm and a pipe clamp each provided with an extension forming the other piece of said swivel clamp and adapted for interchangeable engagement with said head, and a head similar to the first-named head at one end of said arm, said arm being rotatable in the extension thereof and means for locking the arm against rotation.

2. A plumber's clamp for use in joint wiping operations comprising three base members adapted for mounting upon a suitable support, members adjustable through said base members and each provided with a head forming one piece of a two-piece swivel clamp, an arm having an extension forming the other piece of the two-piece swivel clamp engaged with one of said heads and provided upon its free end with a head similar to said heads, and clamps engaged with the nast-named head and the heads of the remaining members, said clamps each being provided with an extension forming the other piece of the two-piece swivel clamp.

In testimony whereof I hereunto affix my signature.

MAX ARDNER.