F. B. BURNS.

PIPE HOLDING DEVICE.

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1,155,337. Patented Oct. 5, 1915.

Fig. 1

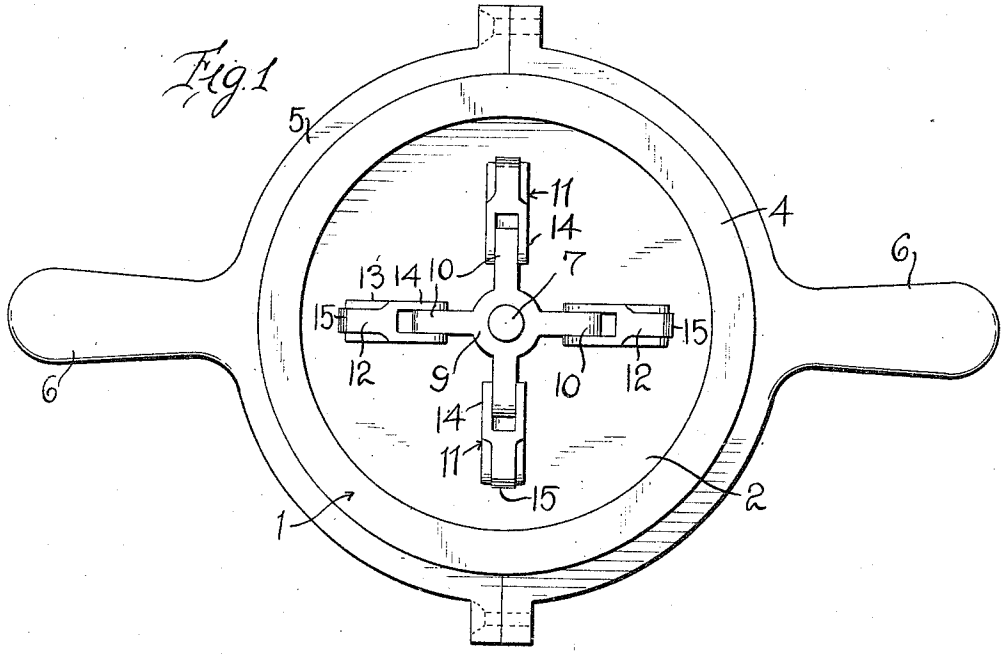
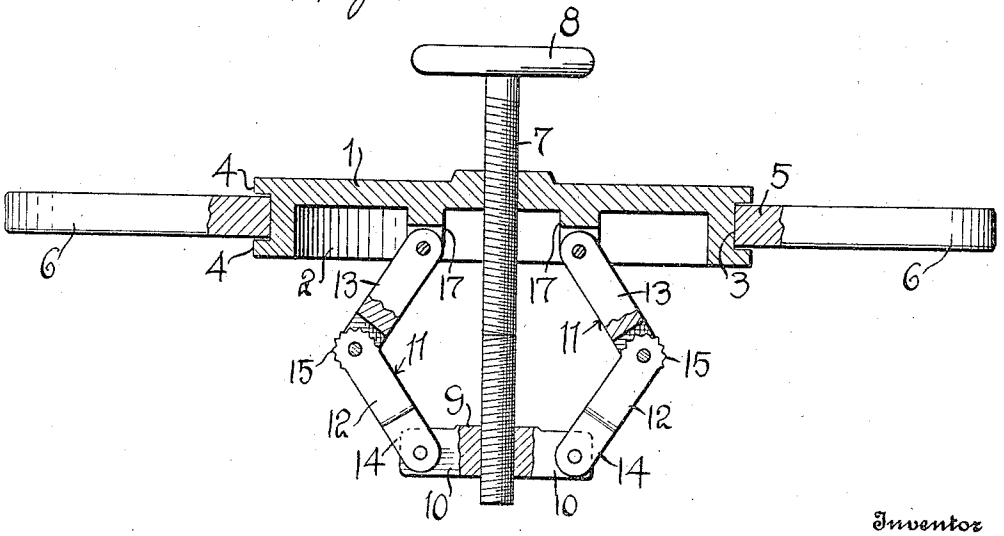


Fig. 2



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PIPE-HOLDING DEVICE.

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To all whom it may concern:

Be it known that I, FRANCIS B. BURNS, a citizen of the United States, residing at North River, in the county of Warren and State of New York, have invented certain new and useful Improvements in Pipe-Holding Devices, of which the following is a specification, reference being had to the accompanying drawings.

This invention has for its primary object a durable and efficient construction of pipe holding device designed for use in holding a pipe at one end in line for the other end to be screwed into a flange or coupling or whatever connection may be required, and the invention also aims to generally improve devices of this class so as to render them more useful and commercially desirable.

With these and other objects in view, as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter more fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawing, in which—

Figure 1 is a face view of a pipe holding device embodying the improvements of my invention, and Fig. 2 is a transverse sectional view thereof, parts being shown in elevation.

Corresponding and like parts are referred to in the following description and designated in all of the views of the accompanying drawing by like reference characters.

Referring to the drawing, the numeral 1 designates a disk which, together with the other parts hereinafter to be described, may be of any desired size, and which is formed in one face with a recess 2 and in its periphery or edge with an annular groove 3 defined by outstanding parallel flanges 4. A strap 5 encircles the disk 1 and is revolubly mounted within the groove 3 and retained therein by the flanges 4, said strap, being preferably composed of two sections secured together by fastening devices of any desired kind, the sections being provided with outstanding handles 6 which are preferably disposed in diametrical relation to each other.

An adjusting screw 7 is mounted in and passes through the disk 1 at the center thereof, as clearly illustrated in the drawing, said screw being provided at one end with a finger piece or handle 8 and being mounted at its other end in a star-nut 9 which, in the present instance, is formed with four radiating arms 10, although it is to be understood that the invention is not limited to this or any number of arms.

11 designates the jaws of the device. Each of these jaws is composed of articulated members or sections 12 and 13, the section 12 being forked at one end as at 14, to receive and be pivotally connected to one of the arms 10 of the nut 9, the other end of the section 12 beng serrated, as indicated at 15, and pivotally mounted in the forked end of the other section 13. The sections 13 are pivotally mounted in bifurcated lugs 17 that project from the recessed face of the disk 1.

From the foregoing description in connection with the accompanying drawing, the operation of my improved pipe connecter or holder will be apparent. In the actual use of the device, the jaws are inserted in the end of the pipe until the disk abuts firmly against the end of the latter, and the screw 7 is then turned in a direction to expand the jaws 11 whereby their serrated portions will cut into the pipe and hold the tool rigid. As is manifest, the disk and the jaws carried thereby turn inside of the disk strap 5 and by grasping the handles 6, the operator may hold the pipes firmly in line for the other end to be screwed into flange or coupling or whatever connection is required. It will be readily seen that pipes can be connected perpendicularly or at angles very handily, as the tool affords a steady rest for one end of the pipe and will enable the operation to be very rapidly performed, and with a minimum of labor.

Preferably the screw 7 is formed with left and right hand threads, as clearly illustrated in Fig. 2, whereby the adjustment of the parts may be facilitated and expedited.

While the accompanying drawing illustrates what I believe to be the preferred embodiment of my invention, it is to be understood that the invention is not limited thereto, but that various changes may be made in the construction, arrangements and proportions of the parts without departing from the scope of the invention as defined in the appended claims.

What is claimed is:

1. A device of the character described, comprising a disk, a strap rotatably con-

nected thereto, and provided with means whereby it may be easily grasped and held, an actuating screw working through said disk, a nut working in said screw, and articulated jaw members connected respectively to the disk and to the nut, as and for the purpose set forth.

2. A tool of the character described, comprising a disk formed in one face with a recess and with lugs projecting from said recessed face, a strap rotatably connected to the disk and encircling the same and provided with handles, a screw working through said disk, a nut mounted on said screw and formed with radiating arms, and articulated jaws connected at one end to the lugs and at their other ends to the arms of the nut, as and for the purpose set forth.

3. A tool of the character described comprising a disk formed in one face with a recess and in its edge with a peripheral groove and flanges defining said groove, a sectional strap encircling said disk in the groove, and rotatably mounted on the disk, the strap being provided with outstanding handles, a screw working through said disk and provided at one end with a handle, a nut mounted on the other end of said disk and provided with radiating arms, the disk being formed in its recessed face with outstanding lugs, and jaws consisting of sections pivotally connected together at their adjoining ends and one section of each jaw being formed with serrations at its pivoted end, the other end of said section being forked to receive one of the arms of the nut and being pivotally connected thereto, and the other sections being pivotally connected to said lugs.

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

FRANCIS B. BURNS.

Witnesses:
W. H. DIROLF,
J. A. MILLER.

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