

B. F. HINIKER.
 MEANS FOR HOLDING PIPE.
 APPLICATION FILED JAN. 23, 1912.

1,051,585.

Patented Jan. 28, 1913.

Fig. 1

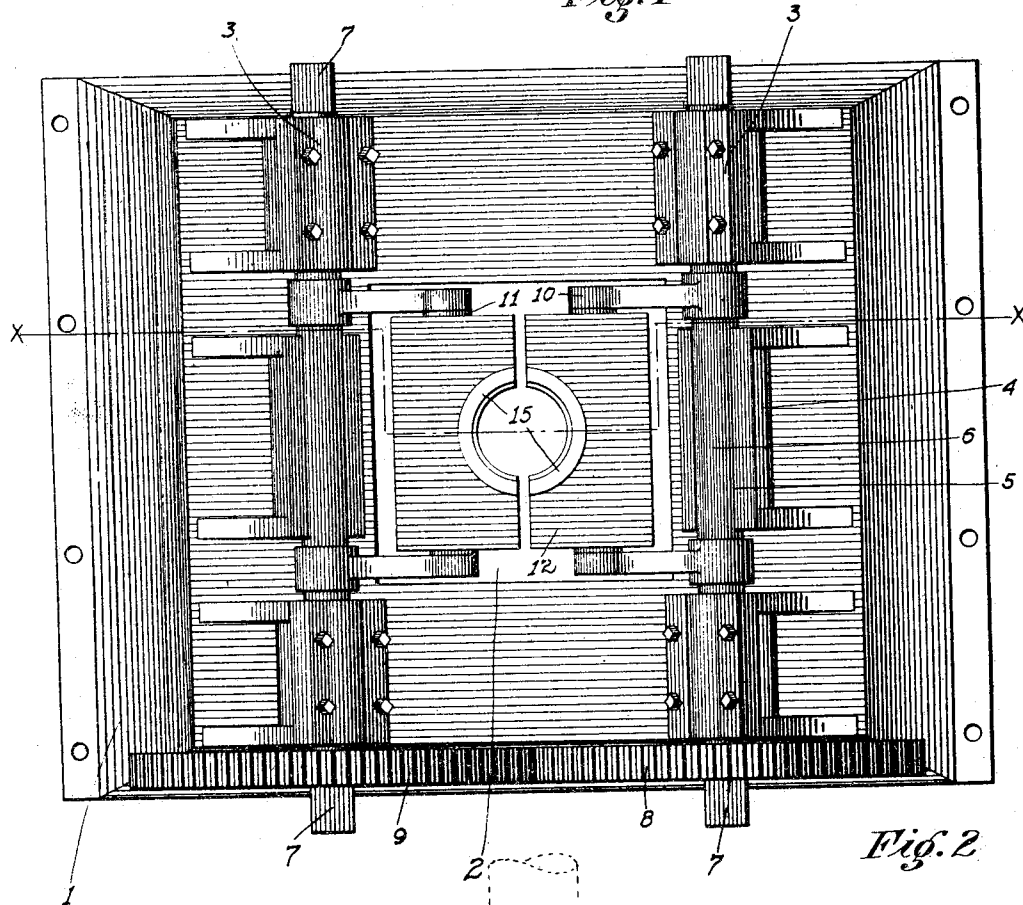
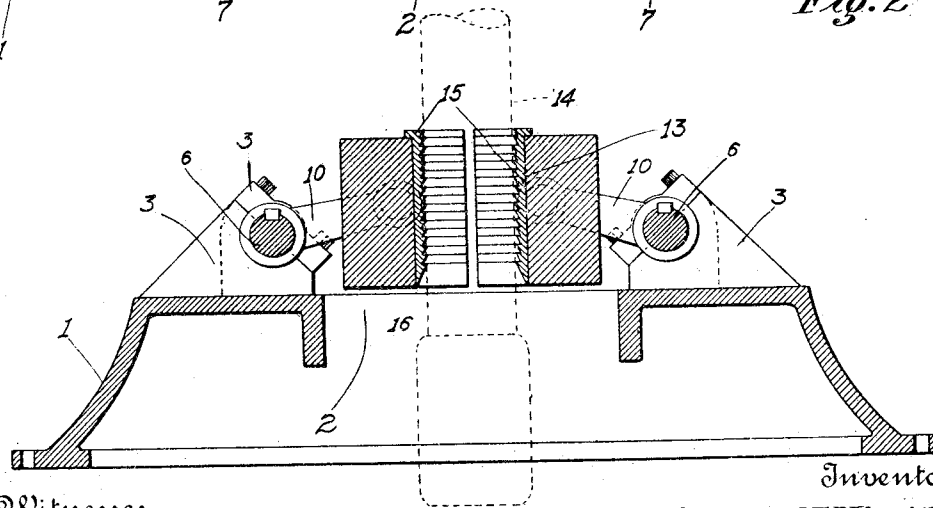


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

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MEANS FOR HOLDING PIPE.

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Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed January 23, 1912. Serial No. 672,855.

To all whom it may concern:

Be it known that I, BENJAMIN F. HINIKER, a citizen of the United States, residing at Maricopa, in the county of Kern, State of California, have invented certain new and useful Improvements in Means for Holding Pipe for the Purpose of Threading or Jointing the Same or for any other Purpose; and I do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in means for holding pipe for the purpose of threading or jointing the same, or for any other purpose, the object of the invention being to produce a friction gripping means which can be readily used to engage or disengage the pipe in a rapid and effective manner.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects, I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specifications and claim.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a top plan view of the complete device. Fig. 2 is a sectional view taken on a line $x-x$ of Fig. 1.

Referring now more particularly to the characters of reference on the drawings, I first provide a base supporting member 1 provided with a central orifice 2. Mounted on said base member 1 on each side of said orifice 2 are pairs of spaced journal boxes 3 and between each pair of journal boxes is a bearing 4 having curved grooves 5 for the purpose hereinafter specified.

Journalled in the journal boxes 3 and resting in the grooves 5 are shafts 6 having

square ends 7. Mounted on each of said shafts at one end are gear wheels 8 and 9 intermeshing with each other, as shown in Fig. 1.

Mounted on shafts 6 are arms 10 disposed between the bearings 4 and the journal boxes 3 and projecting out over the orifice 2 and provided with pins 11 in their outer ends. On each pin are pivotally mounted jaw members having central recesses 13. These jaw members 12 are so mounted on pins 11 as to at all times keep balanced in a vertical position.

When it is desired to grip the pipe 14 for any purpose, a wrench or other tool is applied to one of the square shoulders 7 and the corresponding shaft is then turned, which through the gears 8 and 9 turns the other shaft and causes the arms 10 to move upward, thus lifting the jaws 12 apart. The pipe is then inserted into the recess 13 and the shafts 6 turned in a reverse direction, which action brings the jaws 12 together against the pipe 14, thus holding it in a tight frictional contact.

If desired independent sleeve sections 15 may be inserted in the recess 13 and provided with inner serrated edges 16 to form a better grip for the pipe. Also if desired these sections 15 may be made larger or smaller or a plurality may be inserted, one within the other, according to whether or not a larger or smaller pipe is to be gripped.

If it is desired to operate the shafts 6 through a floor or other place, suitable gear connections could be made with either one of the gears 8 or 9.

The bearings 4 hold the shafts 6 steady and prevent them from bending or breaking with the strain.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfils the object of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

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Having thus described my invention what I claim as new and useful and desire to secure by Letters Patent is:—

A device of the character described comprising a base member, two shafts journaled on said base member at a distance apart, gears on each of said shafts, such gears intermeshing with each other, the opposite ends of said shafts being squared to receive a tool, a pair of arms on each shaft, a pin

carried by each pair of arms, and a jaw member balanced vertically on each pin, as described.

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

BENJAMIN F. HINIKER.

Witnesses:

J. F. PATTERSON,

G. A. KOLING.

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