

(No Model.)

J. GEISENDORFER.
PIPE WRENCH.

No. 519,254.

Patented May 1, 1894.

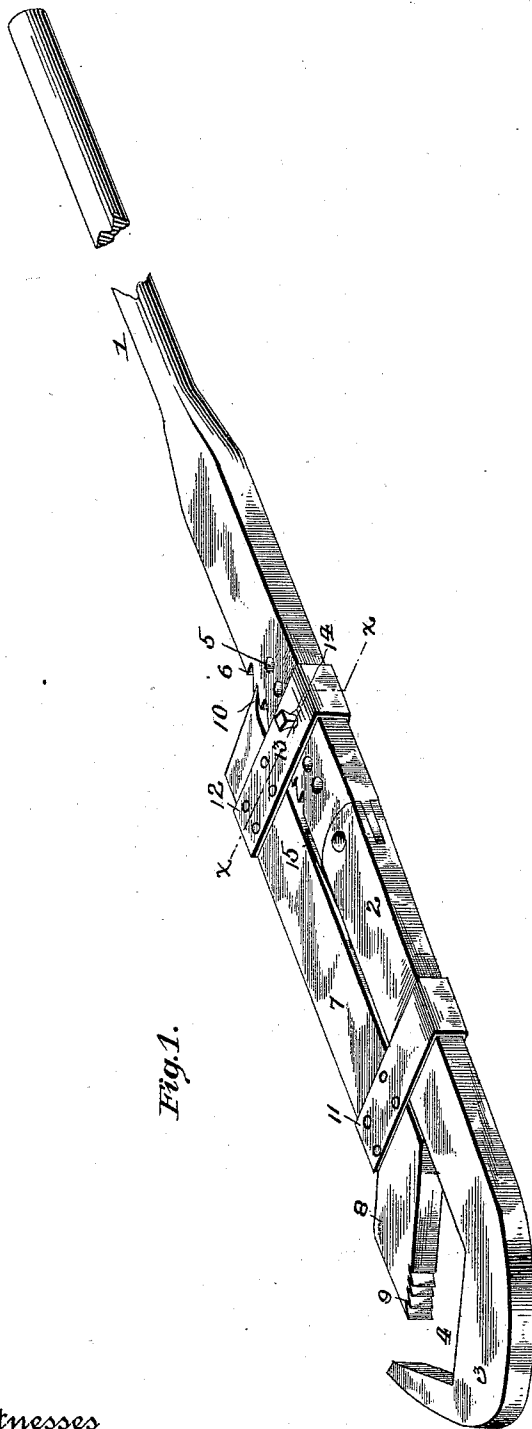


Fig. 1.

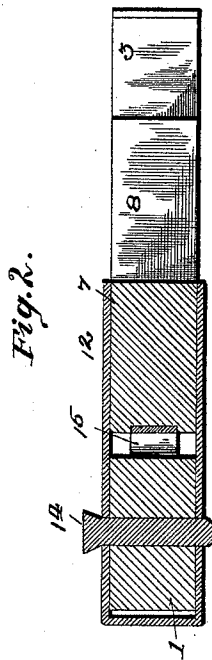


Fig. 2.

Witnesses
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PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 519,254, dated May 1, 1894.

Application filed September 25, 1893. Serial No. 436,435. (No model.)

To all whom it may concern:

Be it known that I, JOHN GEISENDORFER, a citizen of the United States, residing at Weimar, in the county of Placer and State of California, have invented certain new and useful Improvements in Pipe-Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to pipe wrenches, and has for its object to facilitate the operation of grasping a pipe with such devices, and accommodate the angular position thereof as well as to compensate for the strain brought to bear on the wrench.

With these and other objects in view the invention consists of the construction and arrangement of the several parts, as will be more fully hereinafter described and claimed.

In the drawings:—Figure 1 is a perspective view of a wrench embodying the invention. Fig. 2 is a section on the line $x-x$, Fig. 1.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

Referring to the drawings, the numeral 1 designates a shank which is considerably elongated, and at one end thereof is a jaw 2 pivotally connected thereto. The said jaw is formed with a hooked head 3, with an inner angular engaging edge 4. Adjacent to the point at which the jaw 2 is connected to the shank 1, the latter is formed with a series of openings 5, and adjacent to the openings on the inner edge is a series of serrations or teeth 6. Operating in conjunction with the parts heretofore set forth, is a sliding jaw 7, having an upper obliquely arranged head 8, whose upper surface is formed with a series of gripping serrations 9, while the lower end of said sliding jaw is formed with an inner projecting nose 10 adapted to engage the serrations or teeth 6, to hold the said sliding jaw in its adjusted position, and to form a reinforced resistance against the movement against the said sliding jaw when

a pipe is gripped by the wrench. Secured to the upper and lower parts of the sliding jaw 7, are clips 11 and 12, the clip 11, being adjustably mounted on the jaw 2, and the clip 12, engaging the shank 1, and having openings 13 therethrough which are adapted to align with the openings 5 and receive a pin 14, to also hold the said sliding jaw 7, in its adjusted position. Secured to the sliding jaw on its inner side is a flat spring 15, which bears against the adjacent portions of the jaw 2, and the shank 1, in accordance with the adjustment of the said sliding jaw and the tendency of the said spring is to force the lower end of the sliding jaw inwardly toward the said shank in order to cause an engagement of the nose at the lower end of the edge with the serrations 6, and in making the adjustment desired, the said sliding jaw is pulled outwardly away from the shank 1, at its lower end against the action of the said spring. The said spring also tends to draw the jaw 2 over toward the jaw 7, by exerting its resiliency to cause the lower end of said sliding jaw to engage the serrations of the shank and thereby pull on the upper end of the sliding jaw and through the clip 11, draw the jaw 2, over as stated.

In operation the sliding jaw is adjustable to suit the diameter of the pipe to be engaged and held by the engagement of the nose thereof with the serrations of the shank alone, or if desired, to retain the adjustment for some time, the pin is inserted through the openings in the slip 12 and the openings 5, of the shank.

The construction of the device entire is simple and effective and can be readily handled and applied as found desired.

Having thus described the invention, what is claimed as new is—

In a pipe wrench, the combination of a shank having a series of serrations or teeth thereon and a series of openings adjacent thereto, a jaw pivotally connected to the upper end of said shank and having an angular head, a sliding jaw having a spring attached thereto bearing against the aforesaid part and also supplied with an upper angu-

lar head with serrations and a lower nose adapted to engage the serrations of the shank and clips secured to said sliding jaw and engaging the shank and aforesaid jaw, one of
5 said clips having an opening therethrough to align with the openings of the shank and receive a pin, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN GEISENDORFER.

Witnesses:

JOHN CHAPPELL,
JOHN BUTLER.