I. M. EDMUNDSON.

PIPE WRENCH.

APPLICATION FILED OCT. 27, 1911.

1,021,584. Patented Mar. 26, 1912.

FIG. 1

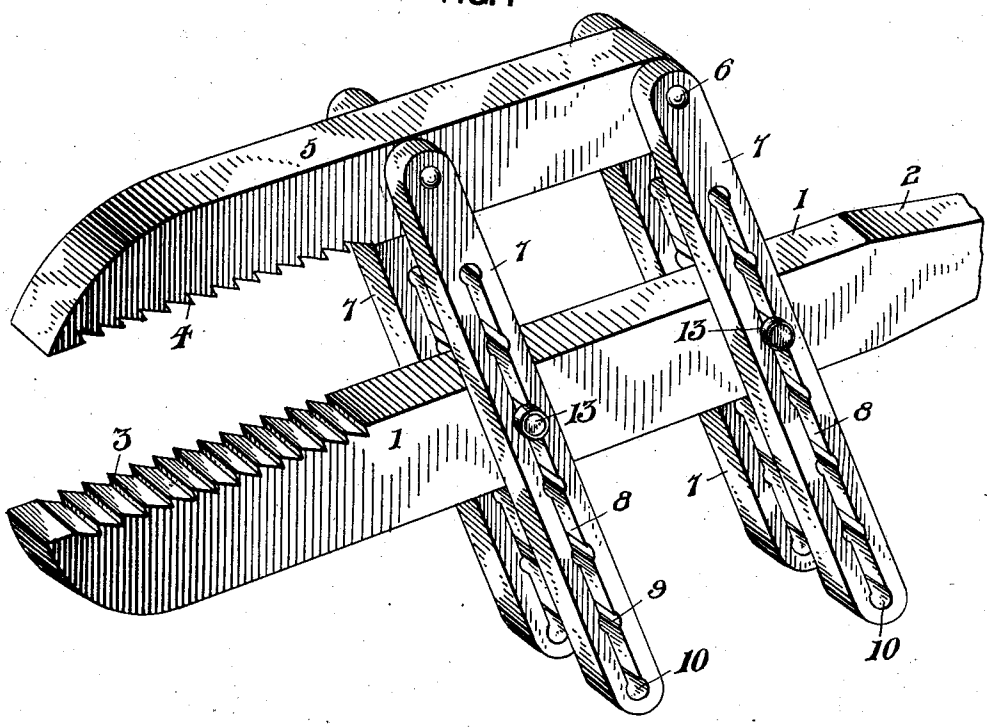


FIG. 2

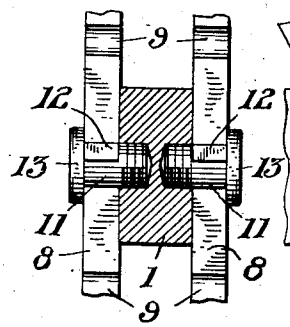


FIG. 3

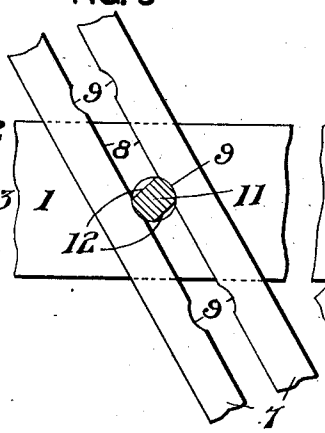
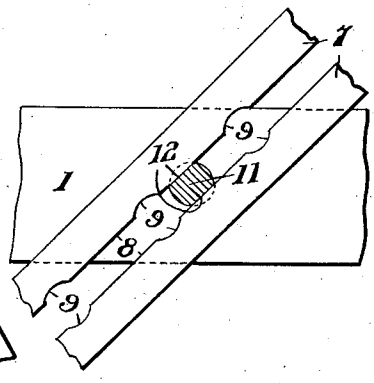


FIG. 4



WITNESSES

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PIPE-WRENCH.

1,021,584. Specification of Letters Patent. Patented Mar. 26, 1912.

Application filed October 27, 1911. Serial No. 657,079.

To all whom it may concern:

Be it known that I, ISAAC M. EDMUNDSON, citizen of the United States of America, residing at McKeesport, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to pipe wrenches, and the primary object of my invention is to provide a wrench with an adjustable jaw that can be easily and quickly adjusted relatively to a fixed jaw for clamping pipes of cylindrical surfaces, without danger of the wrench slipping while a pipe or structure having a cylindrical surface is being rotated by the wrench.

A further object of this invention is to provide a pipe wrench consisting of comparatively few parts that are easily and quickly assembled to provide a strong and durable structure.

I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein:

Figure 1 is a perspective view of a portion of a wrench in accordance with this invention, Fig. 2 is an enlarged cross sectional view of a portion of the same, and Figs. 3 and 4 are elevations of portions of the wrench showing the manner of adjusting the movable jaw of the wrench.

The reference numeral 1 denotes a bar rectangular in cross section and having the inner end thereof reduced to provide a handle 2. The outer end of the bar has a face thereof provided with transverse gripping teeth 3 and coöperating with these teeth in gripping a pipe or curved surface are the transverse teeth 4 of an adjustable jaw 5. Pivotally connected to the sides of the jaw 5 by pins 6 are sets of arms 7 that are adjustably connected to the bar 1. The arms 7 are provided with longitudinal slots 8 and said slots, at equally spaced points, have the confronting walls thereof provided with diametrically opposed recesses 9. These recesses represent oppositely disposed walls of openings, and the slots 8 terminate in openings 10 corresponding in diameter to openings having walls formed by the recesses 9.

Detachably mounted in the sides of the bar 1 are screws 11 having diametrically opposed flat faces 12 adapted to engage the walls of the slots 8. The outer ends of the screws 11 have heads 13 retaining the arms 7 in engagement with the bar 1. The screws 11 are fixed relatively to the bar 1 and by shifting the arms 7, said arms can be adjusted upon the screws 11. For instance, with the arms 7 in the position shown in Fig. 4 of the drawing, the flat faces 12 of the screws 11 confront the walls of the slots 8, permitting of said arms being shifted upon the screws, but when the arms are swung to the position shown in Fig. 3 of the drawing, the screws engage in the oppositely disposed recesses 9 and lock the arms relatively to the bar 1.

From the foregoing it will be observed that it is only necessary to shift the jaw 5 and the sets of arms thereof in order to adjust said arms relatively to the bar 1. After the jaw 5 has been set or adjusted relatively to the bar 1, said bar can be used for obtaining sufficient leverage to clamp the toothed end of the bar and the toothed end of the jaw 5 upon a pipe for rotating the same.

The wrench in its entirety is made of strong and durable metal and of various sizes.

What I claim is:—

A wrench comprising a bar having a handle at the inner end thereof, and the outer end thereof toothed, a jaw having the outer end thereof toothed and confronting the toothed end of said bar, sets of arms pivotally connected to the sides of said jaw, said arms having longitudinal slots formed therein with the ends of said slots terminating in openings and the walls of said slots provided with oppositely disposed recesses, and pins mounted in the sides of said bar and extending through the slots of said

arms, said pins corresponding in diameter to the diameter of the recesses and openings of said arms and having flat faces adapted to confront the walls of the slots of said arms whereby said arms can be shifted upon said pins and moved to lock said arms relatively to said pins.

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

ISAAC M. EDMUNDSON.

Witnesses:
ANNIE M. EDMUNDSON,
MAX H. SROLOVITZ.