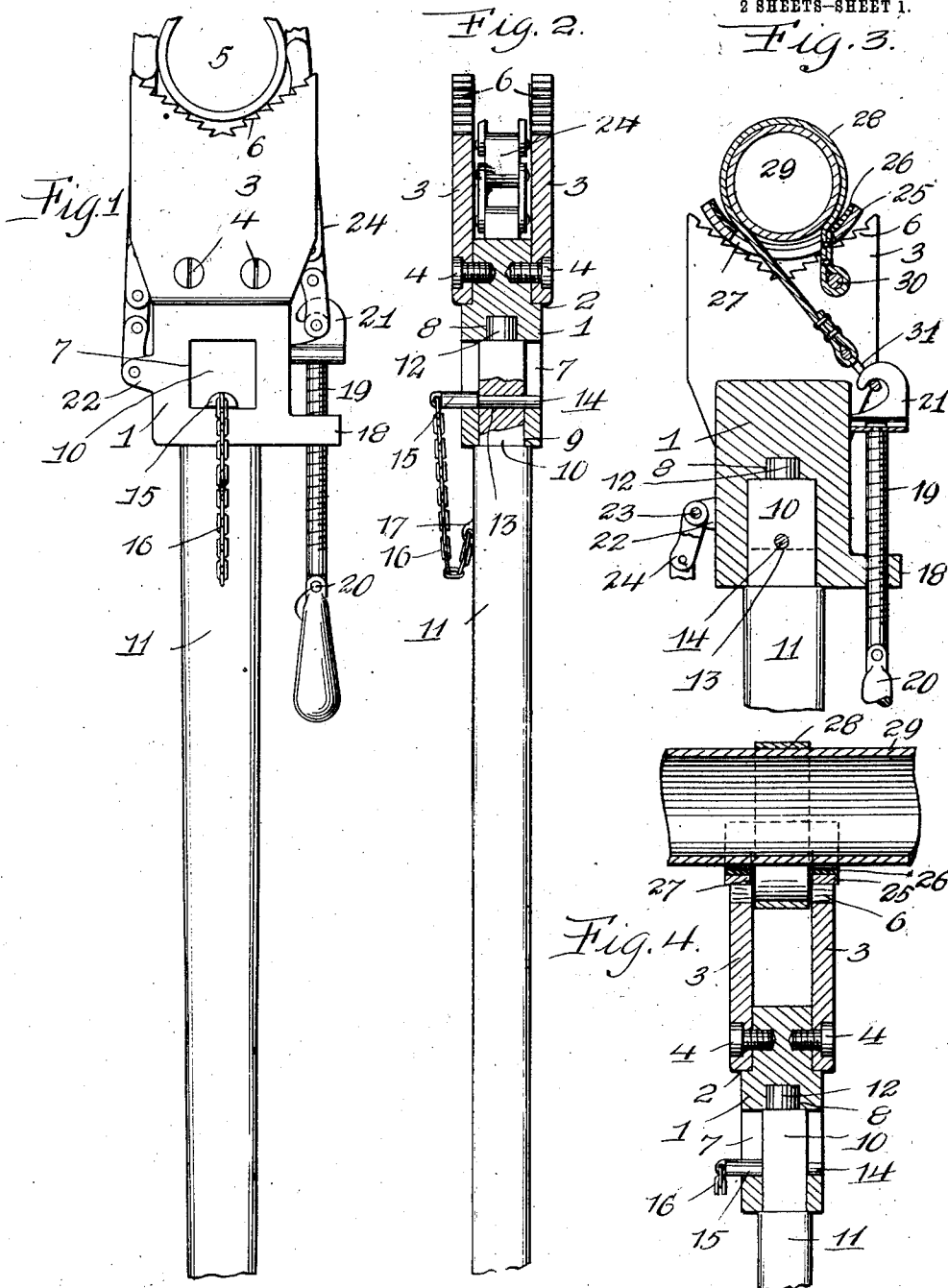


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COMBINATION VISE AND PIPE WRENCH.
APPLICATION FILED JULY 15, 1911.

1,026,036.

Patented May 14, 1912.

2 SHEETS-SHEET 1.



WITNESSES

Samuel Payne
R. R. Butler

INVENTOR

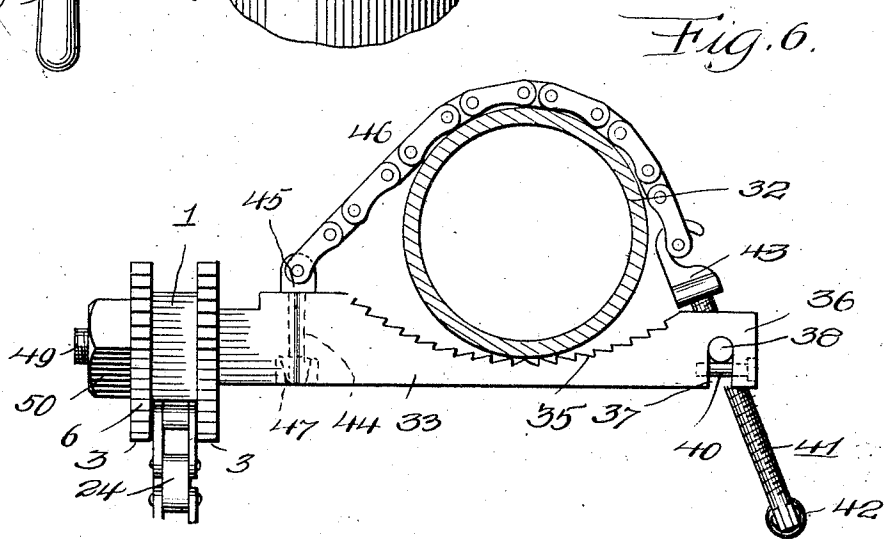
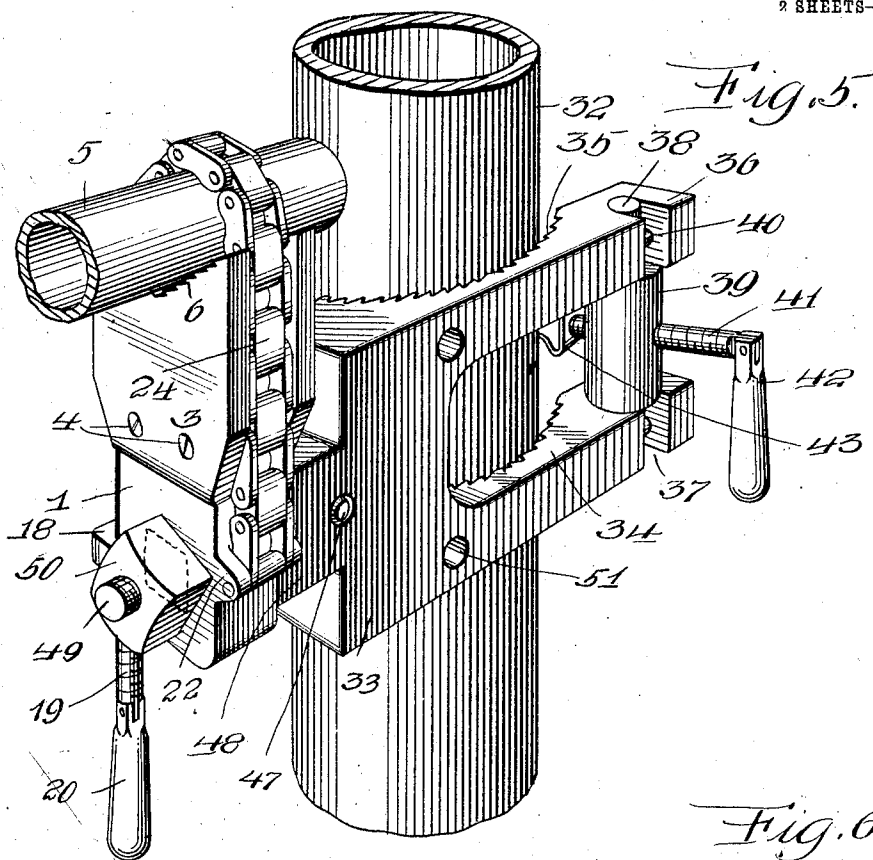
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by

UNITED STATES PATENT OFFICE.

DARRELL G. HEWITT, OF PITTSBURGH, PENNSYLVANIA.

COMBINATION VISE AND PIPE-WRENCH.

1,026,036.

Specification of Letters Patent.

Patented May 14, 1912.

Application filed July 15, 1911. Serial No. 638,639.

To all whom it may concern:

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

This invention relates to a combination vise and pipe wrench, and the primary object of the invention is to combine a wrench and vise in such a manner that they can be separately used.

Another object of the invention is to provide a vise that can be easily secured to a vertical support or a horizontal support for holding various kinds of pipes without injuring the same.

A further object of the invention is to provide a tool of the above type that is simple in construction, durable and highly efficient for the purposes for which it is intended.

With the above and other objects in view, the invention resides in the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein there are illustrated the preferred embodiments of the invention, but it is to be understood that the structural elements thereof are susceptible to such changes as fall within the scope of the appended claim.

In the drawings:—Figure 1 is a side elevation of the wrench, Fig. 2 is a vertical sectional view of the same, Fig. 3 is a transverse sectional view of the wrench body showing a modified form of pipe grip, Fig. 4 is a vertical sectional view of the same, Fig. 5 is a perspective view of the wrench body and vise as mounted upon a vertical support, and Fig. 6 is a plan of the same.

Like numerals of reference designate corresponding parts throughout the several views.

The reference numeral 1 denotes a rectangular wrench body having the sides thereof at the upper end cut away to provide seats 2 and mounted upon said seats are oppositely disposed jaws 3. The jaws 3 are secured to the body 1 by screws 4 or other fastening means. The upper edges of the jaws 3 are provided with V-shaped seats for

a pipe, rod or other structure 5 and the surface of the seats are toothed or serrated, as at 6 to bite into or frictionally engage the pipe 5.

The lower end of the body is provided with a transverse rectangular opening 7 having the upper wall thereof provided with a socket 8 and the lower wall thereof with a vertical rectangular opening 9 extending to the bottom of the body 1. Adapted to fit in the opening 9 is the reduced end 10 of a wrench handle or lever 11, said reduced end having the upper end thereof provided with a pin 12 fitting in the socket 8. The reduced end 10 has a transverse opening 13 for a pin 14 adapted to lock the reduced end 10 within the opening 9. The pin 14 has a flat head 15 to engage the bottom of the opening 7 and said head is connected by a chain or cable 16 to an apertured lug 17, carried by the handle or lever 11, whereby the pin 14 cannot become accidentally displaced relatively to the wrench.

The rear lower edge of the body 1 is provided with a bracket 18 and adjustably mounted in said bracket is a vertical screw 19. The lower end of the screw is provided with a pivoted handle 20 and loosely connected to the upper end of said screw is a hook-shaped member 21. The front side of the body 1 has central apertured lugs 22 and pivotally connected to said lugs by a pin 23 is a chain 24, constructed upon the principle of a sprocket chain. This chain is adapted to extend upwardly between the jaws 3 over the pipe 5 and have the opposite end thereof detachably connected to the member 21. By adjusting the screw 19, the chain 24 will positively hold the wrench in engagement with the pipe 5 whereby said pipe can be rotated.

When the wrench is to be used in connection with brass tubing or any structure having a polished or fine surface, the seats of the jaws 3 are provided with a curved plate 25 and secured to the top of this plate is a piece of rubber 26 or other yieldable material. The plate 25 and the piece of rubber 26 are provided with registering openings 27 and passing through these openings is a strap 28 made of belting or other material adapted to frictionally grip a polished tube 29. One end of the strap 28 is connected to a transverse pin 30 connecting the jaws 3 and the opposite end of the strap 28 is pro

vided with a link 31 detachably connected to the member 21. By adjusting the screw 19, the strap 28 can be drawn taut upon the tube 29 and the piece of rubber 26 prevents the tube from being injured.

Reference will now be had to Figs. 5 and 6 of the drawings, wherein 32 denotes a vertical support, as a pipe or post and clamped against said vertical support is a vise body 33 having one end thereof bifurcated, as at 34 and one side thereof provided with concave serrated or toothed seats 35 for the support 32. The arms 36 of the body 33 are provided with vertical slots 37 and extending into said slots are the pintles 38 of a block 39. The pintles 38 are movably retained within the slots 37 by longitudinally arranged screws 40. Adjustably mounted in the pivoted block 39 is a screw 41 having the outer end thereof provided with a pivoted handle 42 and the inner end loosely connected to a hook-shaped member 43 similar to the member 21.

The vise body is provided with a transverse bolt 44 having the head 45 thereof apertured whereby one end of a chain 46 can be attached to said head and the opposite end of said chain detachably connected to the member 43. The bolt 44 is retained within the body 33 by a nut 47 countersunk in the outer face of the body 33. The forward end of the body 33 is provided with an extension 48 and the end of this extension is reduced to fit in the rectangular opening 7 of the wrench body 1. To retain the wrench body upon the reduced end of the extension 48, the reduced end of said extension has a stud bolt 49 and secured upon this bolt is a nut 50. The vise body 33 is provided with openings 51 whereby it can be secured to a horizontal support by screws or other fastening means (not shown).

From the foregoing it will be observed that it is only necessary to remove the

wrench handle 11 in order to use the vise body 33, that said vise body can be easily and quickly clamped to a vertical support and that various kinds of pipes can be clamped to the wrench body.

The tool in its entirety can be made of strong and durable metal and of various sizes whereby it can be advantageously used by plumbers and other artisans.

What I claim is:—

A pipe wrench comprising a rectangular body portion having its inner end formed with an opening for removably receiving either a support for holding it in relatively fixed position or a handle, a pair of parallel jaws mounted against and secured to the front and rear faces of said body portion below the forward end thereof, said jaws projecting beyond the forward end of the body portion, said projecting portion of said jaws of greater width than the width of the body portion, an apertured lug projecting laterally from the inner end of said body portion at one side thereof, the wall of the aperture of said lug being threaded, a laterally extending pair of protuberances projecting from the other side of said body intermediate the ends thereof, a longitudinally extending adjustable screw engaging the threads of said aperture, a hook-shaped member fixed to said screw and bearing against said body, a flexible clamping element having one end pivoted to said pair of protuberances and its other end engaged by said member for drawing it taut to clamp a pipe when said screw is adjusted inwardly with respect to said body portion.

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

DARRELL G. HEWITT.

Witnesses:

MAX H. SROLOVITZ,

L. H. Haggard.