W. J. CLOONEY.

TOOL HOLDING ATTACHMENT FOR WRENCHES.

APPLICATION FILED FEB. 25, 1916.

1,281,294. Patented Oct. 15, 1918.

Fig. 1.

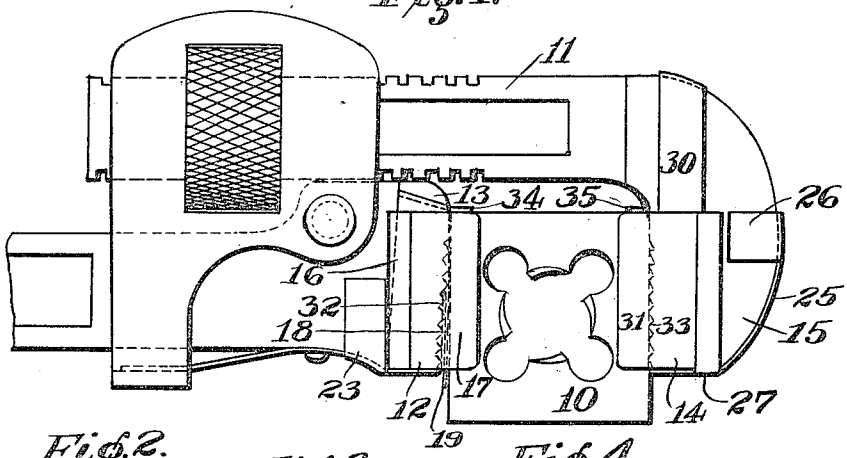


Fig. 2.

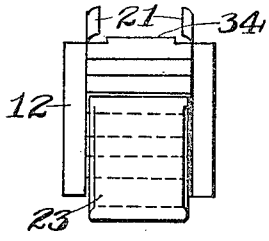


Fig. 3.

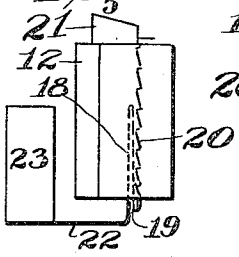


Fig. 4.

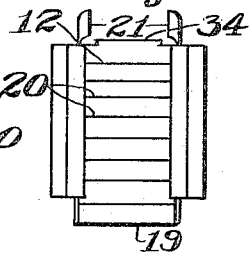


Fig. 5.

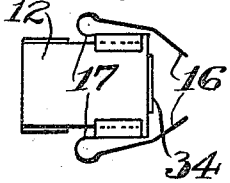


Fig. 6.

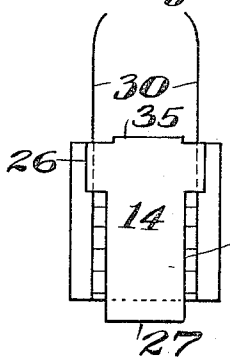


Fig. 7.

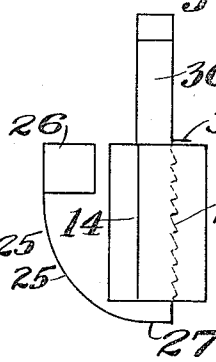


Fig. 8.

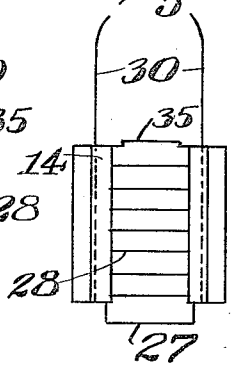
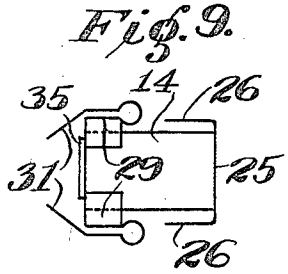


Fig. 9.



Inventor

William J. Clooney.

By James L. Hopkins,

Atty.

UNITED STATES PATENT OFFICE.

WILLIAM J. CLOONEY, OF ST. LOUIS, MISSOURI.

TOOL-HOLDING ATTACHMENT FOR WRENCHES.

1,281,294. Specification of Letters Patent. Patented Oct. 15, 1918.

Application filed February 25, 1916. Serial No. 80,333.

To all whom it may concern:

Be it known that I, WILLIAM J. CLOONEY, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Tool-Holding Attachments for Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in tool holding attachments for wrenches, and has for its object to provide a pair of spring clamps for the jaws of a wrench of standard construction, adapted to hold a die or tool.

To the end of holding such die or tool rigidly, means are provided for maintaining the working faces of said clamps in parallel planes.

In the drawings—

Figure 1 is a plan fragmental view of a wrench with the devices of my invention in place.

Fig. 2 is a bottom plan view of the lower attachment.

Fig. 3 is a side view of the same.

Fig. 4 is a top plan view of the same.

Fig. 5 is a rear elevation of the same.

Fig. 6 is a top plan view of the upper attachment.

Fig. 7 is a side view of the same.

Fig. 8 is a bottom plan view of the same.

Fig. 9 is a rear elevation of the same.

As shown in the drawings, the device of my invention is adapted to hold a tool or die 10 between the jaws of the wrench 11, the lower movable attachment 12 being seated on the lower wrench jaw 13, and the upper attachment 14 being mounted on the upper fixed wrench jaw 15.

The lower attachment or clamp 12 comprises the spring jaws 16, side walls 17, base 18, spring 19, serrated face 20, inturned rear flanges 21, down-turned front flange 22, and side-flanges 23; said clamp 12 being preferably stamped from a single resilient sheet of metal to which a suitable temper is imparted.

The top clamp or attachment 14 has an upper brace 25 with down-turned flanges 26—26, adapted to fit upon the upper surface of the movable wrench jaw 15. The brace 25 is flattened at its front end to form the face 27 which contacts with the front edge of the wrench jaw 15, and integral with said face 27 is the serrated face 28, whose up-turned sides 29 are provided rearwardly with spring clamps 30—30. From each of the sides 29—29 the side-clamps 31 depend.

When the said attachments 12 and 14 are in place, the faces 20 and 28 are substantially parallel, and the clamps 16—16 and 31—31 serve to hold such tool or die as may be desired to be manipulated by the wrench 11.

The lower and fixed jaw 13 usually is provided with a serrated face 32 which is not parallel with the serrated face 33 of the upper and movable wrench jaw 15. It is the purpose of the spring 19 to compensate for this departure from parallelism, and to make the face 20 assume a position parallel with the opposing face 28.

The said clamps 12 and 14, by reason of their structure above described are securely held in place upon the wrench 11 when in use, and are readily removable when their use in conjunction with the wrench 11 is to be discontinued.

The lower clamp 12 is provided with a rear stop 34, and the upper clamp 14 is similarly provided with a rear stop 35, to hold the tool or die when in place against accidental rearward displacement.

Having thus described my invention, what I claim as new and desire to have secured to me by the grant of Letters Patent, is—

The tool-holding attachment for wrenches comprising an upper clamp formed of a single resilient sheet of material formed to embrace the movable jaw of a wrench, and having a serrated face; and a similarly formed lower clamp adapted to embrace the fixed jaw of said wrench and having a serrated face; and a spring arranged beneath the face of said lower clamp to cause it to assume and maintain parallelism with the opposing face of the upper clamp.

In testimony whereof I hereunto affix my signature.

WILLIAM J. CLOONEY.