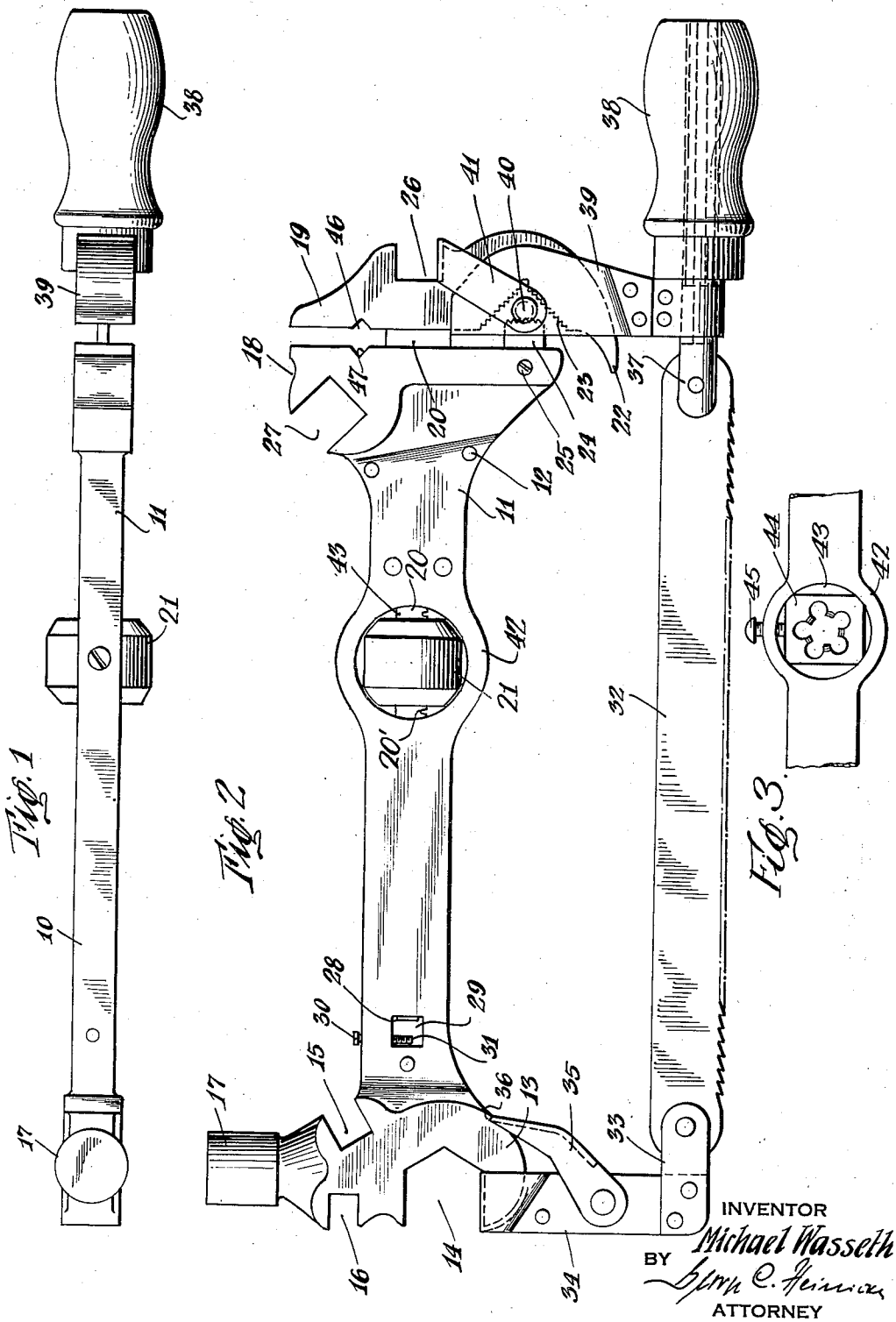
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TOOL

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TOOL

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1 Claim. (Cl. 145—33)

This invention relates to improvements in tools, particularly to a tool as it has been described in my Patent No. 1,465,009 issued August 14, 1923, and it is the principal object of this invention to improve the combination tool according to the above named patent by the addition of a hand saw and a cutting die.

Another object of my invention is the provision of a combination tool in which by the removal of the corrugated projection or anvil triangular articles may be handled.

A further object of my invention is the provision of a combination tool including a monkey wrench, the jaws of which are provided at their oppositely arranged faces with substantially V-shaped recesses to clamp substantially square-shaped articles.

A still further object of my invention is the provision of a combination tool of simple construction, yet durable and highly efficient in operation, the handle of which is so shaped as to hold a cutting die.

These and other objects and advantages of my invention will become more fully apparent as the description thereof proceeds, and will then be specifically defined in the appended claim.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is an edge view of the combination tool constructed according to my invention.

Fig. 2 is a side view thereof.

Fig. 3 shows the cutting die held in position in the opening of the frame of the tool.

As illustrated, the tool comprises a hollow frame 10 constituting a shank or handle provided with lateral plates 11 held in place by rivets 12 or the like.

At one end the tool is shaped to form a wrench 13 to accommodate nuts of various sizes, as indicated at 14, 15, and 16, the extreme lower end being formed into a hammer head 17.

The opposite end is shaped to form the jaws 18 and 19 of a monkey wrench, the movable jaw 19 of which has the customary shank 20 extending into the opening 43 of frame 10 and provided with suitable rack teeth 20' adapted to be engaged by a milled collar 21 to cause the longitudinal adjustment of the shank in both directions.

The movable jaw 19 is shaped at its extreme outer end to form a claw-hammer 22, while its inner face near said extreme outer end is corrugated, as indicated at 23, to form with a corrugated projection or anvil 24 removably held by means of the screw 25 to the stationary jaw, a pipe wrench, while upon removal of the anvil the handling of substantially triangular shaped articles will be possible.

The outer edge of the movable jaw 19 is indented, as at 26, and the outer edge of the stationary jaw 18 is indented, as at 27, to form wrench sockets.

The inner end of the shank 20 is formed into a screw driver, the end of which, as shown at 28, or bit, projects into a transverse, work-receiving aperture 29 in the side plates for engagement with a tap adapted to be introduced through said aperture 29. If taps of smaller dimensions are to be engaged, a screw 30 is provided for this purpose as shown at 31 in Figure 2.

With the exception of the exchangeable anvil 24, the parts so far described are the same as in my above named patent and the novelty of this invention is to be seen in the addition of a saw blade 32 having one of its ends attached to a link 33 attached to the outer end of a hanger 34 on wrench 13 and braced against the same by means of a pawl 35, the outer end of which engages a shoulder 36 of the wrench 13. The other end of the saw is attached to the inner end of a pin 37 of a handle 38 suspended in a hanger 39 turning about a pivot pin 40 of a link 41.

In the enlarged portion 42 of the side plates 11, having an opening 43 formed therein in which normally a milled collar for the displacement of the movable jaw is located, after the removal of this jaw and milled collar, a cutting die 44 is inserted and held in place within the opening 43 by means of a screw 45.

The stationary jaw 18 and the movable jaw 19 have their inner faces at opposite points provided with the substantially V-shaped recesses 46, 47 for the holding of substantially square-edged or shaped work-pieces.

The operation of my combination tool is substantially the same as described in my above named patent with the exception that the saw may be used by the usual reciprocatory movements in its hangers, and that the die may be used for cutting threads, etc., while upon the removal of the anvil 24, substantially triangularly shaped work-pieces may be handled, and finally, the recesses 46, 47 in the movable jaw and the stationary jaw may hold substantially square-shaped or edged work-pieces.

It will be understood that I have disclosed the preferred form of my invention only as one example of the many possible ways to practically construct the same, and that I may make such

changes in its general arrangement and in the construction of its minor details as come within the scope of the appended claims without departure from the spirit of my invention.

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

In a device of the kind described, a handle, a hanger removably attached to one end of the handle, a pawl attached to the hanger and engaging said end of the handle to brace said hanger, a link angularly attached to said hanger, a second link attached to the other end of the handle, another hanger turning about a pivot pin on said second mentioned link, a second handle suspended in said second mentioned hanger, and a saw blade attached at one of its ends to a pin on said second mentioned handle and attached at its other end to the first mentioned link.

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