

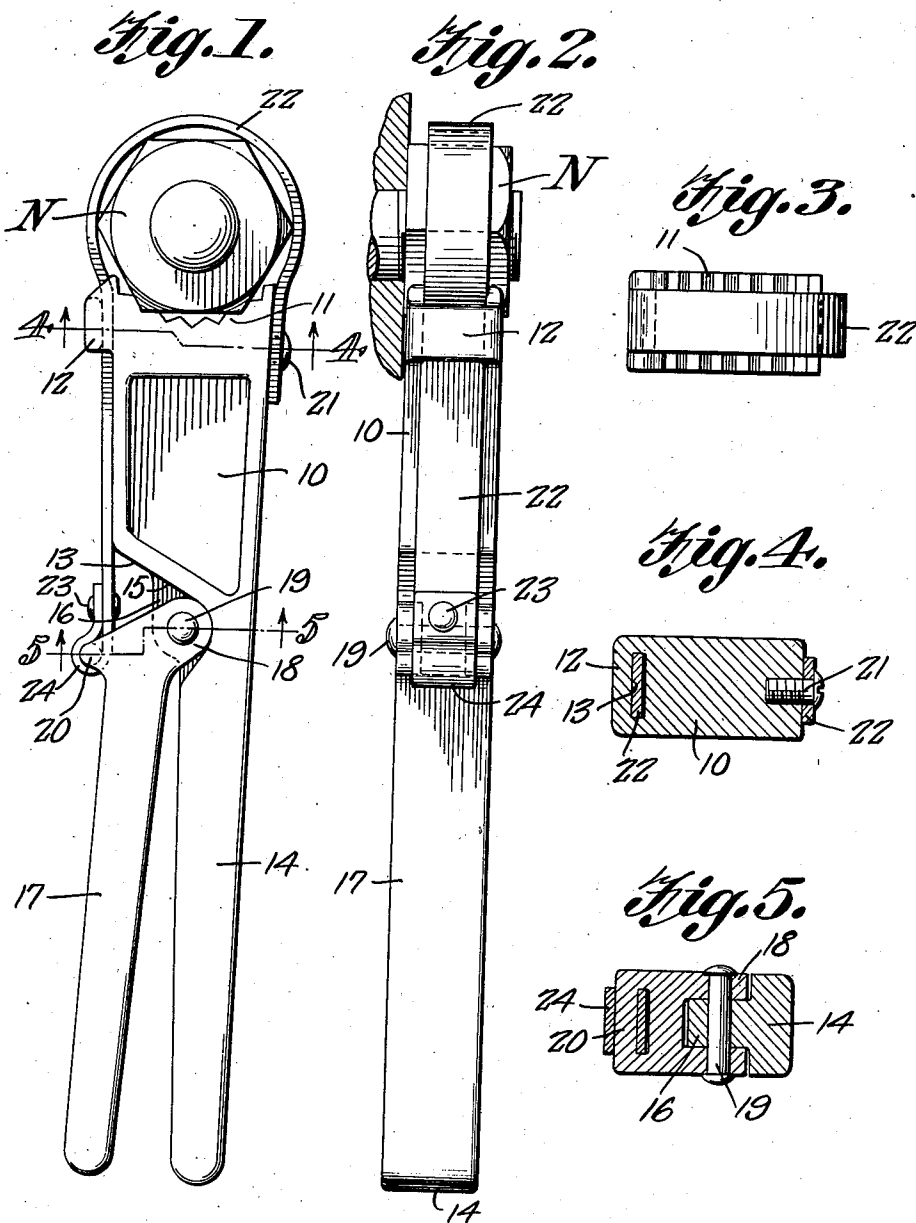
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WRENCH

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WITNESS

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## UNITED STATES PATENT OFFICE

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WRENCH

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1 Claim. (Cl. 81-64)

The present invention relates to improvements in wrench construction.

An object of the invention is to provide a wrench designed for gripping and turning objects of varying contour.

Another object of the invention is the provision of a wrench constructed so as to effect a tight, non-slipping grip upon an object.

A further object of the invention is to provide a wrench of the aforesaid character which can be quickly fitted in the gripping position on or released from an object.

Still another object of the invention is the provision of a wrench having a flexible binding element and means for tensioning the said element.

A still further object of the invention is the provision of a wrench of the above character which is simple and inexpensive in construction and which is efficient in use.

Other objects and advantages of the invention will become apparent as the description progresses.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate corresponding parts throughout:

Figure 1 is a plan view of the improved wrench in gripping position on a nut,

Figure 2 is a side elevational view of the same,

Figure 3 is an end elevational view of the wrench,

Figure 4 is a transverse sectional view taken on line 4-4 of Figure 1, and

Figure 5 is a transverse section taken on line 5-5 of Figure 1.

Referring in detail to the drawing, wherein for the purpose of illustration is shown a preferred example of the invention, 10 generally designates the body of the wrench which is in the form of a flat elongated block having the inner end edge shaped to form a concaved serrated gripping jaw 11. At one side of the jaw 11 the body block is formed with a laterally protruding shoulder 12 shaped to form a longitudinally directed slot 13 therethrough. The opposite outer edge of the body has, at one side, a beveled edge portion 13 which merges into the inner end of a bar 14 formed integral with and extending longitudinally from one side of this edge of the body. As shown to advantage at Figure 1 the body 10 has a diminishing taper toward the rear end and the bar 14 thereon, constituting a handle, is likewise preferably tapered.

At one side the bar 14, at its juncture with

the body, is shaped to provide a pair of opposed recesses 15 providing, therebetween, a longitudinally disposed apertured web 16. To this web is connected a lever 17 in the form of a straight tapered bar formed at its inner end with an angularly projecting bifurcated portion 18 designed to form a pivot knuckle adapted to be fitted over the web 16 and pivotally connected therewith by a pivot element 19 extending through apertures in the knuckle and the web. At the outer side the lever 17 is formed with a transversely disposed ridge 20 nearly opposed to the knuckle 18 and shaped to form a tie rod having its major portion spaced from the lever body.

To one side of the body, adjacent the jaw 11, is fastened, by a screw 21, one end of an elongated gripping element 22 which may embody a strip of flexible metal disposed to extend, in looped formation, beyond the jaw forming edge and trained through the slot 13. One end portion of the strip extends along the side of the body 10 and secured, by a rivet 23, in looped arrangement 24 about the tie rod 20 formed on the lever 17.

The head forming looped gripping portion of the strip 22 is designed to embrace, in conjunction with the jaw 11, an object such as the nut N of predetermined size and variable circumferential contour. To initially fit the gripping end of the wrench upon the nut, as shown at Figures 1 and 2, the lever 17, which substantially corresponds to the size of the handle bar 14, is swung laterally from the handle so that the looped gripping portion of the strip assumes its largest diameter. This head loop is then slidably fitted over the nut and the lever 17 swung inward toward the complementary bar 14 so as to tightly draw the gripping strip about the nut. As this strip is pulled taut it tightly grips the nut in coacting relation with the serrated jaw so that the nut may be readily turned by swinging the wrench about its axis through the medium of the handle 14.

This construction provides a wrench which is simple and durable and which may be easily and conveniently disposed to engage a nut or other object for obtaining a tight grip thereon to turn the same.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:

In a wrench of the character described, an elongated flat body having the edge at the inner end shaped to form a concave serrated jaw, an elongated handle forming bar projecting longitudinally from the opposite end of the body at one side thereof, the opposite side of the said outer end portion of the body having an inclined shoulder and an apertured web at the inner portion of the said shoulder, an angular lever having a longitudinal portion complementary to the handle bar, the said lever having an angularly directed knuckle at its inner end pivotally connected with the web of the body, the inner end edge of the said lever being inclined with relation to the longitudinal portion thereof to coact with the inclined shoulder of the body for limiting the out-

ward movement of the lever, a projection formed on one side of the body adjacent the jaw shaped to provide a longitudinally directed guide slot thereat, and a strap having one end secured to one side of the jaw and the intermediate portion trained through the guide slot with the opposed end fastened to the inner end portion of the lever, the said strap being disposed to form a loop at the inner end of the wrench adapted for gripping objects in association with the jaw on the inner end of the body the said lever and inclined shoulder arrangement being disposed to maintain that portion of the strap adjacent the end secured to the lever in an approximately straight line position adjacent the side of the body.

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