

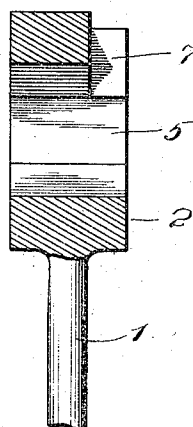
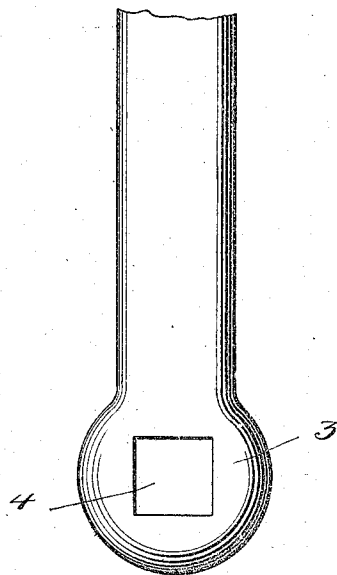
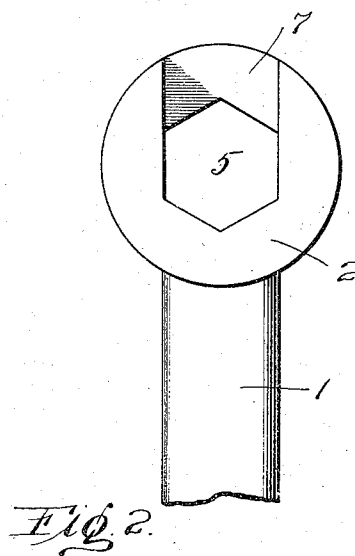
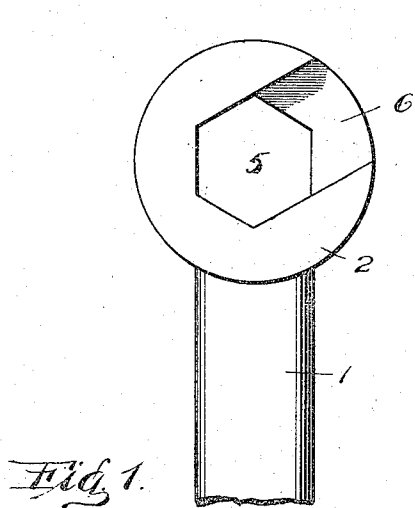
No. 873,437.

PATENTED DEC. 10, 1907.

H. JEFFREY.

WRENCH.

APPLICATION FILED FEB. 15, 1907.



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WRENCH.

No. 873,437.

Specification of Letters Patent.

Patented Dec. 10, 1907.

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To all whom it may concern:

Be it known that I, HARRY JEFFREY, a citizen of the United States of America, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to wrenches of that type commonly styled spanner wrenches, and the invention has for its object to provide a wrench that can be easily and quickly placed upon a nut for obtaining a positive and firm
15 grip upon said nut, in order that the same can be rotated, either to loosen or tighten the same upon a bolt, tie rod or similar element.

Another object of this invention is to provide a spanner wrench that can be either
20 used in connection with a square nut, hexagon nut or other nut having two parallel surfaces, the wrench being constructed to dispense with the plurality of spanner wrenches heretofore employed for various sizes of nuts.

25 A further object of this invention is to provide a simple and inexpensive spanner wrench that can be easily and quickly placed upon a nut to rotate the same, the wrench being constructed of a single piece of material formed to grip nuts of various configurations, and sizes.

With the above and other objects in view, which will more readily appear as the invention is better understood, the same consists
35 in the novel construction, combination and arrangement of parts to be hereinafter more fully described and then specifically pointed out in the appended claims, and referring to the drawing forming part of this specification, like numerals of reference designate
40 corresponding parts throughout the several views, in which:—

Figure 1 is a fragmentary front elevation of the wrench illustrating an entrance groove thereof disposed at an angle with relation to the handle of the wrench, Fig. 2 is a rear elevation of a portion of the wrench illustrating another entrance groove thereof
45 alining with the handle of the wrench, Fig. 3 is a vertical sectional view of the same.

50 To put my invention into practice, I construct my improved wrench of a shank or

handle 1 having enlarged heads 2 and 3, the head 2 constituting the upper end of the wrench. The head 3 is provided with a 55 rectangular opening 4 to receive a nut similar in contour, while the head 2 is provided with a hexagon shaped opening 5 to receive a similar shaped nut.

My invention resides in providing the front 60 and rear sides of the head 2 with entrance grooves, the groove 6 upon the front side of the head 2 being disposed at an angle with relation to the handle 3, the groove being approximately one-third the depth of the 65 head 2 and having sides lying in a plane with two of the diametrically opposed angular sides of the opening 5. The groove 7 upon the opposite side of the head 2 is approximately one-third the depth of the head and 70 has its sides alining with the vertically disposed sides of the opening 5.

From the novel arrangement of the entrance grooves 6 and 7 for a nut, it will be observed that the sides of said grooves form 75 gripping surfaces for engaging a nut, and the wrench can take a more positive grip upon a nut by sliding the wrench over the nut and then moving the wrench inwardly until the nut engages in the opening 5 of the wrench. 80

What I claim and desire to secure by Letters Patent, is:—

A wrench of the type set forth comprising a handle having formed integral therewith at one end thereof an enlarged head provided 85 with a hexagonal-shaped opening, said head further having one face thereof formed with an angularly-disposed groove having two of the sides thereof alining in a plane with two oppositely-disposed walls of the said opening, 90 said groove disposed permanently at an angle with respect to the handle and said head further having on the opposite face thereof a groove, the side walls of which aline with two opposite side walls of the 95 opening, said last mentioned groove permanently extending in the direction in which the handle extends.

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

HARRY JEFFREY.

Witnesses:

F. F. HAEFFLE,
HARRY B. FITCH.