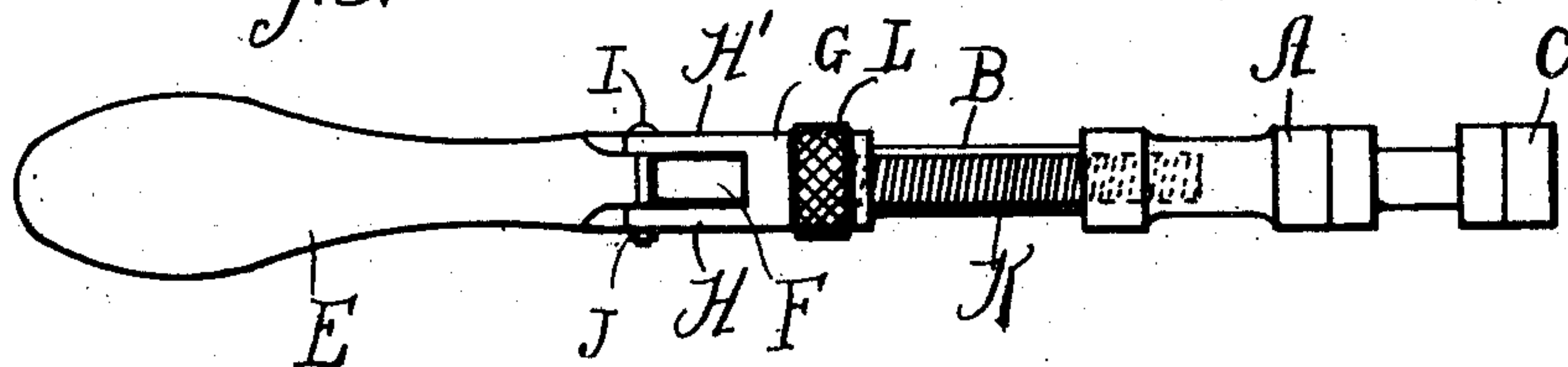
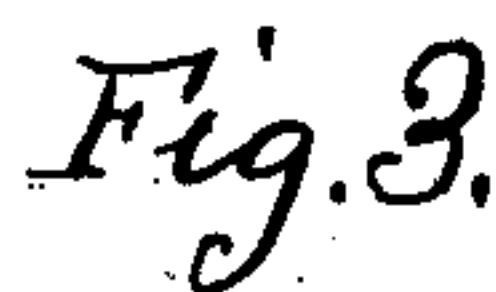
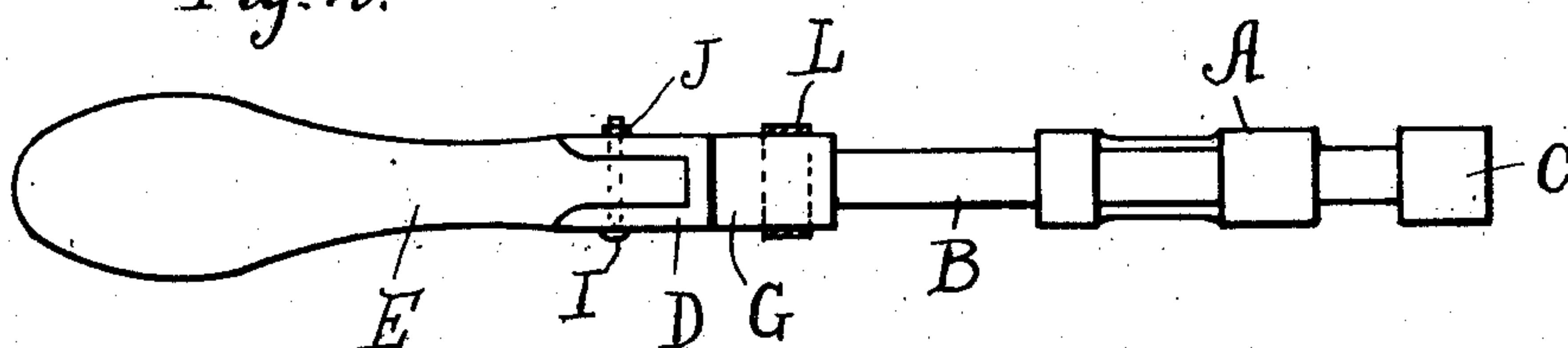
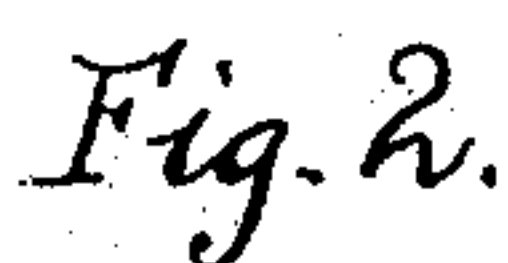


WRENCH.

906,982.

Patented Dec. 15, 1908.



WITNESSES

WITNESSES
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UNITED STATES PATENT OFFICE.

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WRENCH.

No. 906,982.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed May 11, 1908. Serial No. 432,065.

To all whom it may concern:

Be it known that I, PETER WOODHEAD, a citizen of the United States, residing at Cheltenham, county of Montgomery, and State of Pennsylvania, have invented a certain new and useful Improvement in Wrenches, of which the following is a specification.

My invention relates to a new and useful improvement in wrenches and has for its object to provide an exceedingly simple and effective device of this character by means of which the lower jaw of the wrench will be caused to close on a nut or head of a screw, when the power is brought to bear upon the handle of the wrench in the act of tightening or loosening a nut or screw.

A further object of my invention is to provide a wrench that will not slide when being used.

A still further object of my invention is to provide a wrench which will not mar the corners of a nut or the head of a screw as is caused by wrenches that cannot be adjusted accurately on a nut.

Another object of my invention is to provide a wrench which will close its jaws on the nut or head of a screw in proportion to the amount of force brought to bear upon the handle of said wrench.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side view of my improved wrench. Fig. 2, a rear view thereof, and Fig. 3 a front view thereof.

In carrying out my invention as here embodied, A represents the inner jaw or block of a wrench adapted to slide on the shaft B, on the upper end of which is formed the upper jaw C. The lower end of the shaft B is slightly enlarged, circular in shape as indicated at D, in which is formed an opening for the reception of a stud or pin.

E indicates a handle having a lateral projection F formed at the upper end thereof,

said handle being secured to the shaft B by means of a stud, pin or rivet E' which passes through the opening formed in the circular portion D of the shaft B, and through said handle E.

G represents a block which is movably secured to the lower end of the shaft B, said block having the extensions H and H' formed therewith, between which the lateral projection F is adapted to work. Through the lower ends of these extensions passes the bolt I on which is threaded the nut J. This bolt will prevent the lateral projection F from swinging out from between the extensions H and H'.

K represents a screw, one end of which threads into the lower jaw A, and on the opposite end of the screw K is fastened the knurled head L which rests in the opening M formed in the movable block G, so that when the knurled head L is turned the screw K will be threaded in or out of the lower jaw A, as the case may be thus opening or closing the said jaw.

In practice my wrench is placed upon a nut, and the inner jaw adjusted until it is brought to bear against said nut, when the handle E is taken hold of and forced in the direction of the arrow, when the lateral projection F will press against the block G, thus forcing the knurled head L, and the screw K upward, in this manner tightening the jaw against the nut and largely preventing the wrench from slipping.

Of course I do not wish to be limited to the exact details here shown as these may be varied within certain limits without departing from the spirit of my invention.

Having thus fully described my invention what I claim as new and useful is—

In combination a shaft having a jaw formed therewith, the opposite end of said shaft being enlarged, having an opening formed therein, a movable block having an opening formed therein, extensions formed therewith, a sliding jaw secured to the shaft, a screw threaded into said sliding jaw, a knurled head secured to the lower end of said screw adapted to rest in the opening formed in the movable block, a handle having a lateral projection formed thereon, pivoted to the lower end of the shaft, the lateral projection being adapted to press against the

movable block when force is brought to bear
upon the handle, a bolt passing through the
extensions formed on the movable block, and
a nut threaded on said bolt for holding it in
5 place, said bolt preventing the lateral pro-
jection from becoming disengaged from be-
tween the extensions as shown and described.

In testimony whereof, I have hereunto af-
fixed my signature in the presence of two
subscribing witnesses.

PETER WOODHEAD.

Witnesses:

EDWARD DYSON,
JOSEPH CHADWICK.