

(No Model.)

W. C. BARR.
WRENCH.

No. 521,428.

Patented June 12, 1894.

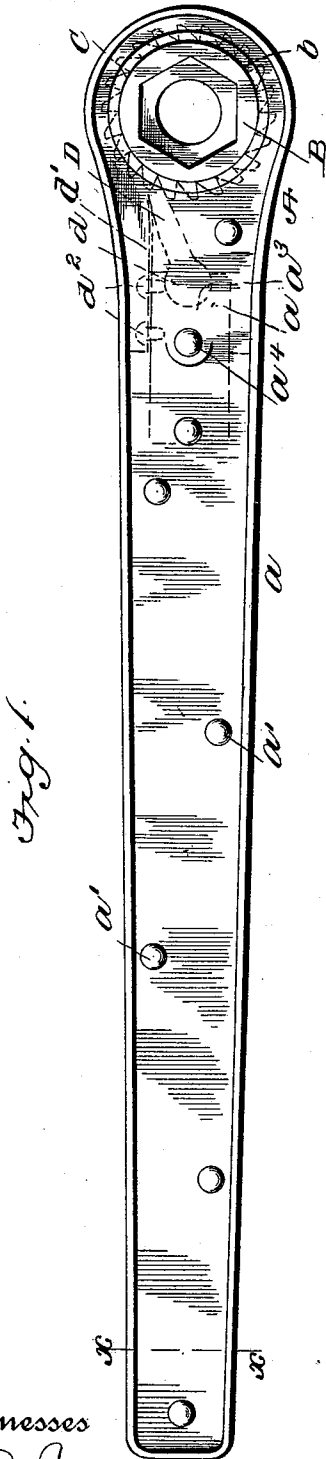


Fig. 1.

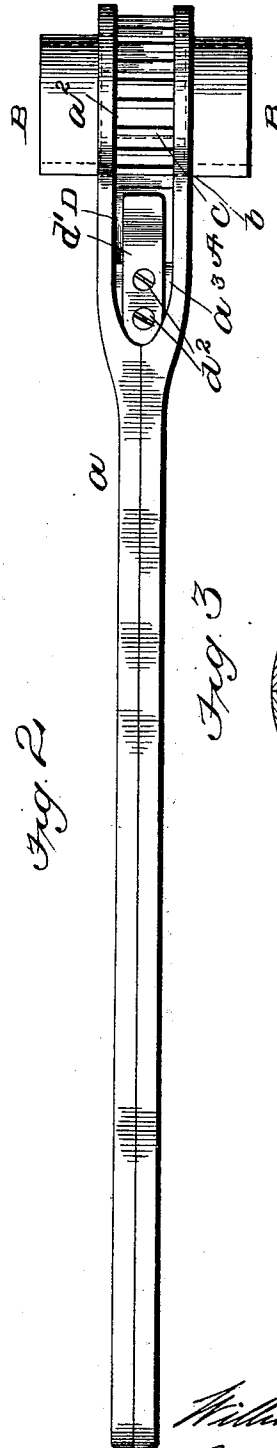
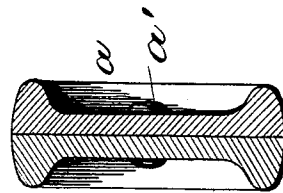


Fig. 2.

Fig. 3.



Witnesses

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SPECIFICATION forming part of Letters Patent No. 521,428, dated June 12, 1894.

Application filed February 27, 1894. Serial No. 501,660. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. BARR, of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and improved wrench and has for its object the production of a simple and durable and inexpensive wrench for readily and easily screwing and unscrewing nuts with the expenditure of but a minimum amount of time and labor.

The invention consists of a wrench having its handle forked or spaced-apart at one end and provided with two nut-receiving sockets and a ratchet-wheel, a spring-pressed pawl being constantly in engagement with said ratchet wheel.

The invention also comprises the peculiar construction, combination and arrangement of parts, substantially as hereinafter fully set forth and particularly pointed out in the claim.

In the accompanying drawings:—Figure 1 is a plan view. Fig. 2 is a view in side elevation. Fig. 3 is a transverse sectional view on line $x-x$, Fig. 1.

Referring to the drawings, A designates the wrench as an entirety, and a the handle thereof, which is composed of two corresponding parts or sections united together by rivets a^1 and having inner flat surfaces and flanges or ridges on their outer surfaces, said parts or sections in cross-section being conjointly of approximately I-shape. This handle tapers slightly or gradually from one end to the other, and from a point near its widened end said parts or sections are distended or bent apart to form a fork and an intermediate space or chamber a^2 wherein is located a block a^3 secured in place by headed rivets a^4 .

B, B, designate two nut-receiving sockets extending outwardly from either side of the

forked end of the handle and having a cylindrical connecting portion b passed through coincident openings in the handle-sections. To this cylindrical portion b is secured, or it may be formed integral therewith, a ratchet wheel C, which fits snug within the space or chamber a^2 . With this ratchet-wheel engages a pawl D having its rounded end d fitted in a corresponding socket in block a^3 . A flat spring-plate d' secured at one end to block a^3 by screws d^2 bears against this pawl and serves to hold the same constantly in engagement with the ratchet wheel.

The operation and advantages of my invention are apparent to those skilled in the art, and it will be specially observed that by means of my wrench a firm leverage is obtained, whereby a nut can be readily and easily operated upon and by reversing the wrench the nut can be moved in either direction.

A wrench constructed as herein-described is extremely simple and inexpensive. By forming the handle in two corresponding parts or sections the manufacture of the wrench is greatly simplified and the expense materially reduced.

I claim as my invention—

The herein-described improved wrench consisting of the handle formed in two corresponding parts or sections united together and distended at one end and having coincident holes or openings, a block held between said parts or sections having a socket, a pawl fitted in said socket, a spring secured to said block bearing against said pawl, nut-receiving sockets having a cylindrical connecting portion extended through said holes or openings, and the ratchet wheel on said cylindrical portion, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WM. C. BARR.

Witnesses:

JAMES SMELLIE,
WM. H. SEEBECK.