# J. C. Jackson,

## Nut Wrench.

No. 61,340. Patented Jan, 22, 1867.

Witnesses

Chas. H. Smith

Geo. D. Walker

Fig. 2

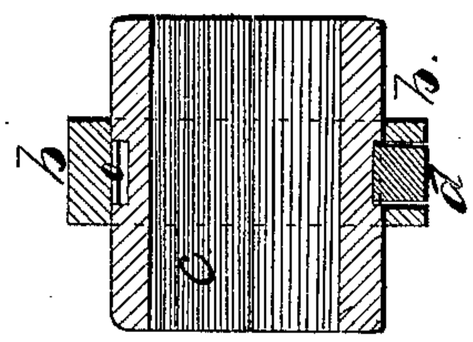
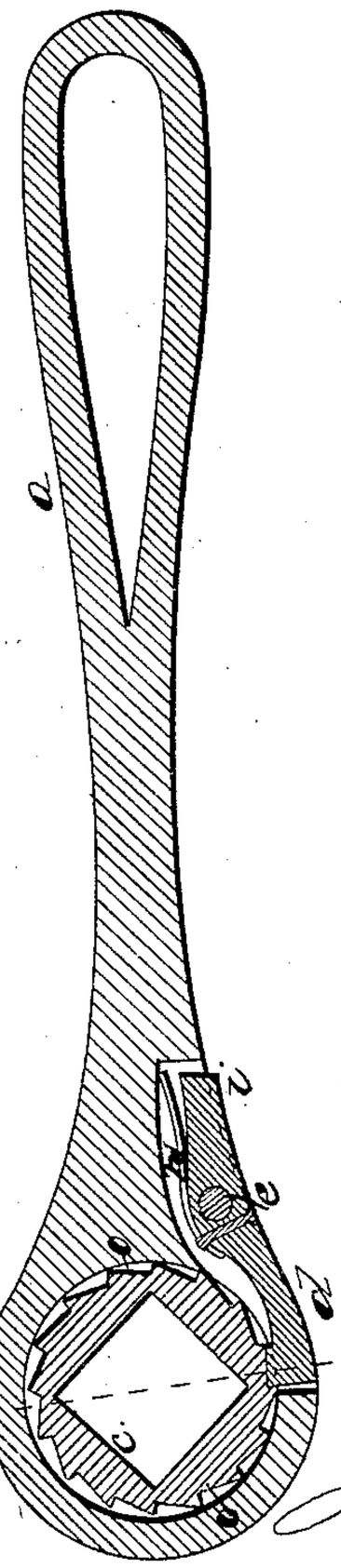



Fig. 1.




Inventor:

Joel C. Jackson

per L. M. Seiell

Atty.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

# United States Patent Office.

JOEL C. JACKSON, OF ROCHESTER, NEW YORK.

*Letters Patent No.* 61,340, *dated January* 22, 1867; *antedated January* 17, 1867.

## IMPROVEMENT IN WRENCHES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOEL C. JACKSON, of Rochester, in the county of Monroe, and State of New York, have invented and made a certain new and useful Improvement in Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a longitudinal section of the improved wrench; and

Figure 2 is a cross-section at the line *x x*, of fig. 1.

Similar letters indicate the same parts.

A ratchet wrench has heretofore been made with a barrel introduced within a ring at the end of a handle, and kept in place by the end of a stop lever entering a groove around the wrench barrel, and said barrel has had ratchet teeth taking a separate pawl within the stock or handle. This construction is complicated and costly.

The nature of my said invention consists in a stop lever and pawl formed by one piece of metal, in combination with a wrench barrel having ratchet teeth cut in the bottom of a peripheral recess. By this construction the end of the pawl always remaining in the peripheral recess prevents the wrench barrel getting out of its place within the stock while in use, but when the lever end of the pawl is depressed, so as to raise the said pawl out of the peripheral recess, the wrench barrel may be slid out and a different one introduced.

In the drawing, *a* is the handle, at the end of which is the eye or ring forming the stock *b* for the wrench barrel *c*, through which is a polygonal opening of the size and shape required. Around the barrel, near the middle thereof, is the peripheral groove *o*, formed with ratchet teeth in its bottom surface. *d* is a lever pawl on a centre pin, *e*, and acted upon by a spring, *n*, to keep the end of said pawl within the peripheral groove *o*, so that said pawl may always prevent end motion to the wrench barrel *c*, except when the end *i* of the pawl *d* is pressed upon sufficiently to raise the pawl out of said groove, and allow the barrel *c* to be slid endwise out from the stock *b*, for the introduction of another barrel. This ratchet wrench is cheaply constructed, strong, and durable, and may be employed to give a rotary movement to a screw, a nut, or a boring tool; and the lower lever pawl *d*, being in a recess in the stock, is not liable to injury.

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

The peripheral recess or groove *o*, in the wrench barrel *c*, formed with ratchet teeth in its bottom surface in combination with the stop lever pawl *d* within the stock *b*, as and for the purposes set forth.

In witness whereof I have hereunto set my signature this twenty-ninth day of May, A. D. 1866.

J. C. JACKSON.

Witnesses:

GEO. B. SMITH,

CARLOS SMITH.