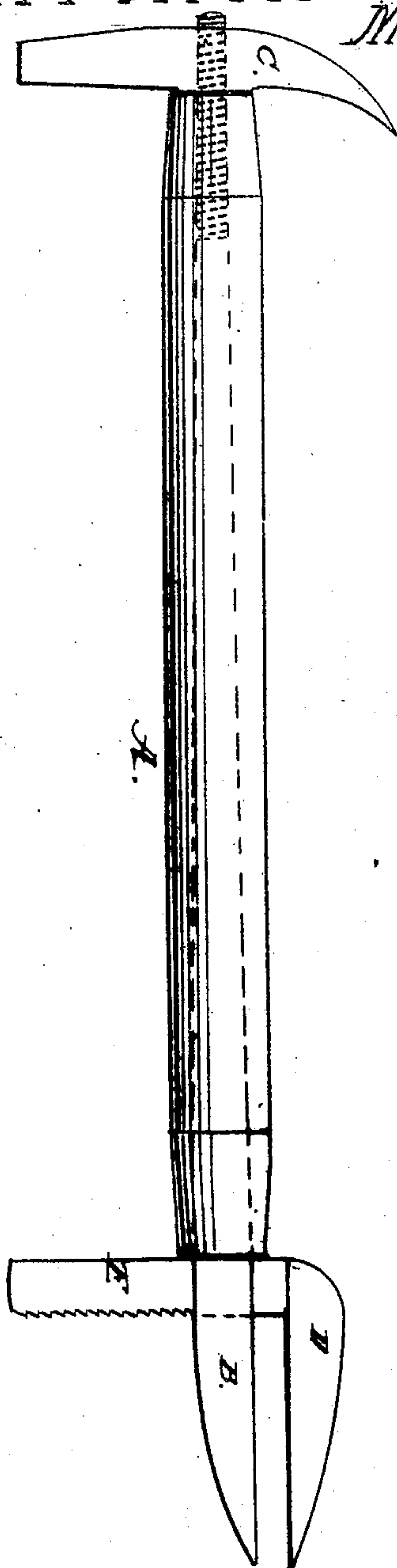


J. J. Ellis

Wrench Patented
Mar. 10 1868

N^o 75399



attest:

J. A. Ellis
J. White.

Inventor:

Jno J Ellis
H. Alexander & Co
Attys

United States Patent Office.

JOHN J. ELLIS, OF AUBURN, NEW YORK.

Letters Patent No. 75,399, dated March 10, 1868.

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, JOHN J. ELLIS, of Auburn, in the county of Cayuga, and State of New York, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 represents a plan view of my wrench.

The nature of my invention consists in the combination of a hammer and wrench, in the manner hereinafter described.

A represents the handle, which is made hollow, as shown in red lines, for the purpose of receiving the shank of the jaw B. The said shank is made to project beyond the rear end of the handle A. On this projecting end a screw is cut, which works in a female screw, cut through the centre of hammer C. D designates a second jaw of the wrench, and is formed with a slide, E, which is serrated on its outer edge. The slide E passes through a mortise in jaw B, and thus brings the two jaws, D and B, parallel with each other.

It will be observed that the jaw B is constructed with a shoulder, which can be made to press against the end of handle A, by screwing the hammer C tightly against the opposite end of said handle. It will also be seen that the mortise, through B, extends a little further inwards than the shoulder on B, so that when the hammer C is screwed up against the end of handle A, and the jaw B drawn inward, the slide E will be pressed outwards, and the serrated edge of said slide forced against the outer end of the mortise in B, and the jaw D, to which the slide E is attached, will be held firmly in position.

In order to prepare my wrench for use, all that is required is, first, to unscrew the hammer C, so as to relieve the slide E from the end of the handle, move the slide so as to adapt the jaw D to the size of the nut which is to be operated on, then screw up the hammer C so as to bring the slide E against the end of the handle. This being done, the wrench is ready for use.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The shank B, extending through the handle A, and furnished at one end with a screw-thread, upon which is screwed hammer C, the opposite end of shank B being formed with a jaw, all arranged in combination with jaw D and slide E, substantially for the purpose set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JOHN J. ELLIS.

Witnesses:

HORACE T. COOK,
SAMUEL SITTSE.