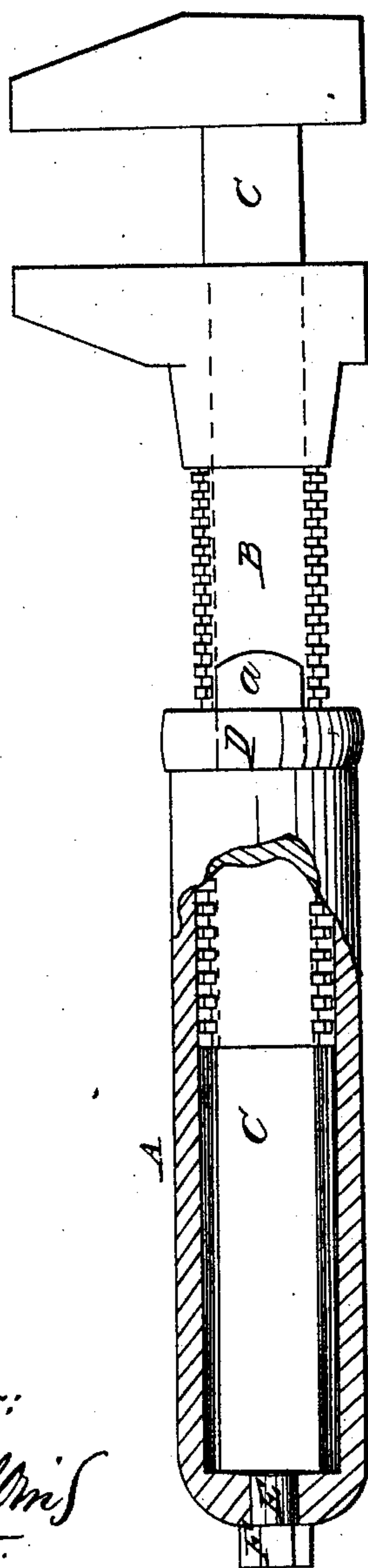


S. B. Hill,
Nut Wrench.

N^o 62,630.

Patented Mar. 5, 1867.



Witnesses:
Charles E. Morris
John Jones

Inventor:
Sylvester B. Hill
by his attys.
Gardner & Hyde

United States Patent Office.

SYLVESTER B. HILL, OF CHICOPEE, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND F. E. DRAKE, OF SAME PLACE.

Letters Patent No. 62,630, dated March 5, 1867.

IMPROVED WRENCH.

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, SYLVESTER B. HILL, of Chicopee, Hampden county, Commonwealth of Massachusetts, have invented a new and useful Improved "Wrench;" and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

In the drawings, the figure represents a side view and partial section of my invention.

My invention consists of a new arrangement and construction of parts of a wrench, whereby it is rendered more effective.

To accomplish this purpose I form the handle A of a hollow cylinder having sufficient room inside to allow the jaw B to be worked back into it as the grip of wrench is loosened or the jaws opened wider. This jaw B is made with a long shank, which has threads cut on the top and bottom sides, which are operated upon by corresponding threads inside of a nut, D, on the front end of handle A, which is kept in place by the gibs *a*, attached to the handle and forming a groove for the nut D to work in. Through the entire length of the shank jaw B and its shank is made a square hole, through which the shank of the other jaw C passes, the end of which is made with a shoulder and bolt, E, which projects through a hole in the rear end of the handle and is fastened by a nut, F, on the outside of the latter. The circumference of the nut D is gnarled, so as to allow a firmer hold to be taken by the hand, and by turning this nut either way the jaw B is worked out or in, in the one case the shank of the same working back into the handle A.

By this means I obtain a very compact and strong tool, and one not liable to get out of order, and consisting of but few parts, and those simple in construction. It is easily manufactured and kept in repair.

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

A wrench, having the jaws B and C, handle A, and nut D, constructed and arranged substantially as herein described

Witnesses:

EDWARD H. HYDE,
EDWARD KING.

SYLVESTER B. HILL.