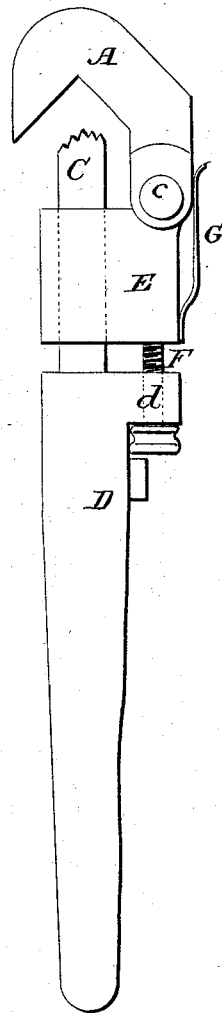


H. RHYN.  
Pipe-Wrench.

No. 217,407.

Patented July 8, 1879.



*Attest:-*

*William Paxton*  
*Courtney A. Cooper*

*Inventor:*

*Henry Rhyn*  
*By his attorney*  
*Charles E. Foster*

# UNITED STATES PATENT OFFICE.

HENRY RHYN, OF OMAHA, NEBRASKA.

## IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. **217,407**, dated July 8, 1879; application filed November 30, 1878.

*To all whom it may concern:*

Be it known that I, HENRY RHYN, of Omaha, in the county of Douglas and State of Nebraska, have invented a new and Improved Pipe Wrench and Cutter; and I do hereby declare that the following is a full, clear, and exact description of the same.

The invention is an improvement in the class of pipe-wrenches having a pivoted angular jaw and a fixed jaw, in respect to which the pivoted jaw is adjustable, which are so arranged as to bite together when they are closed upon a pipe or tube, the pipe or tube being revolved by reciprocating motions of the implement.

The improvement relates to the construction and arrangement of parts, as hereinafter described and claimed.

In the accompanying drawing, forming part of this specification, the figure is a side view of my improved pipe-wrench.

A indicates the angular jaw of the implement, the same having a slotted shank, pivoted to a block or sleeve, E.

C is the bit-jaw, having a lever-handle, D, and extending through the sleeve E.

A lug, *a*, is formed on the bit-lever D to receive the screw F, which enters the sleeve, and serves to adjust the jaw A relatively to the bit C, for the purpose of adapting the implement for gripping larger or smaller pipe.

In practical operation the angular jaw A,

against which bears a spring, G, constitutes one part of the implement, and the bit C, lever-handle D, sleeve E, and screw F constitute the other part, which said parts are connected by the pivot at the point *c*.

It will be seen that, although the parts C D E F are both adjustably and detachably connected, their local relation is such that the strength of the screw supplements that of the bit longitudinally, while the bit C prevents any lateral strain on the screw.

I claim—

In a pipe-wrench, the combination of the screw F with the sleeve E, having a tapped hole to receive the same, and the bit C and handle D, having a lug, *a*, in which the screw is fixed as to lengthwise movement, and the angular jaw A, hinged to the sleeve on the same side of the bit as the screw, all as shown and described, whereby the rotation of the screw imparts a positive lengthwise adjustment to the sleeve and jaw in either direction, and likewise supplements the bit in respect to the strength required for leverage, as specified.

The above specification of my invention signed by me this 25th day of November, 1878.

HENRY RHYN.

Witnesses:

HENRY LAUER,  
AUG. WEISS.