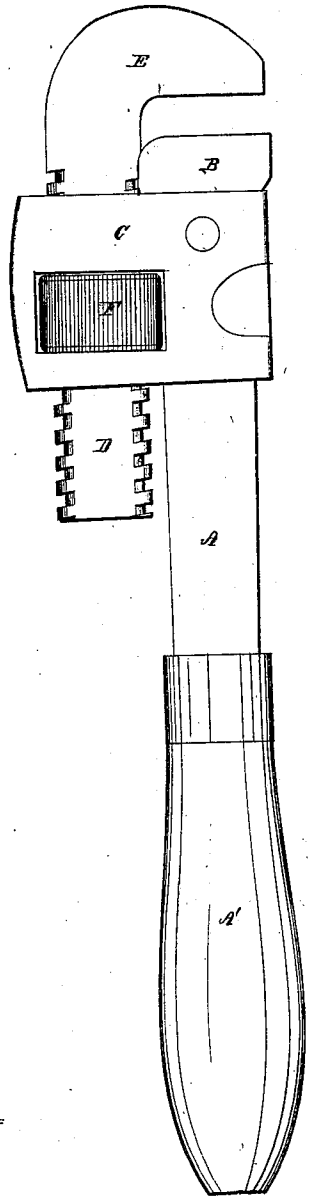
D. C. Stillson,

Wrench.

NO. 107,304. Patented Sept. 13. 1870.



Witnesses.

Moses Grant

Ch. Brown.

D. C. Stillson

by his attorney.

F. P. Hale

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

United States Patent Office.

DANIEL C. STILLSON, OF CHARLESTOWN, MASSACHUSETTS.

Letters Patent No. 107,304, *dated September* 13, 1870.

IMPROVEMENT IN WRENCHES.

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

To all persons to whom these presents may come:

Be it known that I, DANIEL C. STILLSON, of Charlestown, in the county of Middlesex and State of Massachusetts, have invented an Improved Screw-Wrench; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, which denotes a side elevation of my said invention.

My invention relates to that class of wrenches in which the leverage or power of the wrench is augmented in proportion as the width or diameter of the article to be grasped or to be operated on is increased. In ordinary wrenches the reverse of this is the case, that is, the greater the diameter of the object grasped, the less the leverage.

My invention is an improvement upon the "pipe-wrench," as patented by me on the 12th day of October, A. D. 1869, and consists in so simplifying and modifying the construction of the parts of the said pipe-wrench as to produce a strong, compact, and durable screw-wrench.

In the said drawing—

A denotes the shank of the wrench, to which a handle, A′, is applied in the usual manner.

B is the fixed or stationary jaw, which is formed on the outer end of the shank A, the same being of a rectangular shape, and having its inner or bearing-surface at a right angle to the shank.

C is a hollow rectangular frame, which abuts against the rear portion of the stationary jaw, and embraces the shank A, and is firmly fastened to the latter.

The said frame extends upward from the shank A, and infolds the shank D of the movable jaw B, whose inner face stands at a right angle to its shank, and parallel to the inner face of the jaw B.

The shank of the movable jaw B, having a male screw-thread cut upon it, extends through a corresponding nut, F, arranged within a slot or chamber made transversely through the frame, as shown in the drawing. By turning the said nut to the right or left, the adjustable jaw will be correspondingly moved toward or away from the fixed jaw, as circumstances may require.

From the above it will be seen that a wrench having its parts constructed in my improved manner has not only the greatest possible effective power or leverage, but is simple in construction, strong and durable, and little liable to get out of order.

Having described my invention,

What I claim is as follows:

My improved screw-wrench, consisting of the fixed and movable jaws B E, the shanks A D, the frame C, and the nut F, the said frame being rigidly affixed to the shank A, and all the parts arranged in manner as shown and described.

DANIEL C. STILLSON.

Witnesses:

F. P. HALE,

CHAS. GAY.