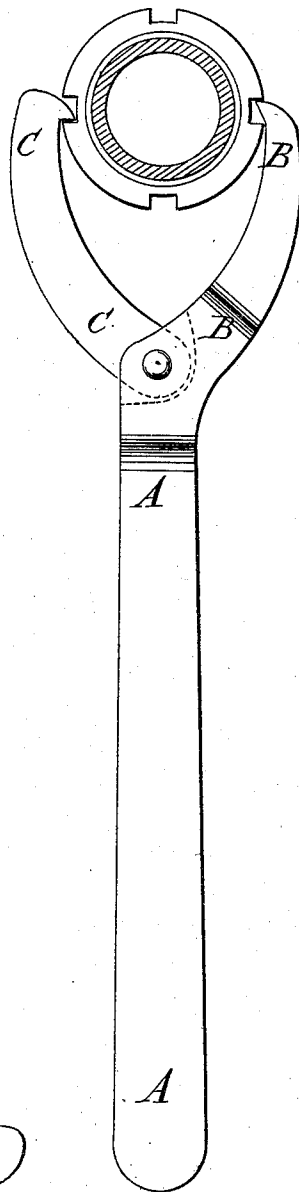


A. F. SKINNER.
SPANNER-WRENCH.

No. 178,084.

Patented May 30, 1876.



WITNESSES:

Chas. Nida
John Goethals

INVENTOR:

A. Frank Skinner

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

A. FRANK SKINNER, OF PLATTSMOUTH, NEBRASKA.

IMPROVEMENT IN SPANNER-WRENCHES.

Specification forming part of Letters Patent No. **178,081**, dated March 30, 1876; application filed January 15, 1876.

To all whom it may concern:

Be it known that I, A. FRANK SKINNER, of Plattsmouth, Cass county, Nebraska, have invented a new and Improved Nut-Wrench, of which the following is a specification:

The figure represents my improved wrench as applied to a nut.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved wrench that will fit any sized spanner-nut, and which shall be simple in construction, convenient in use, and at the same time of great power and strength.

The invention consists in providing a nut-wrench with two equal arms, of which the rigid one has a pushing-point slightly curved, while the pivoted arm has a drag-hook on its end.

A is the handle of the wrench, the forward part of which is curved outward and forward, and is pointed to form the rigid jaw B; the said jaw and handle being thus formed in one piece. C is the movable jaw, upon the outer end of which is formed a hook, and its inner end is inserted and pivoted in a socket or eye formed in the angle at the intersection of the

jaw B and handle A, as shown in the figure. In forming the wrench the handle A and jaw B are forged in one solid piece, and an eye or socket is punched in it to receive the loose jaw C, which is then formed and pivoted in the said eye or socket. In this way a very convenient and effective instrument is produced, and one having great strength and power.

I am aware that it is not new to make a wrench with a long curved pivoted jaw, having an inside seat for one side of nut, and with a short stud to bear against the nut's opposite side; but

What I claim is—

A single-handed nut-wrench, having two equal arms, one of which is rigidly attached to the handle and the other pivoted thereto, the rigid one provided with pushing-point, and the pivoted one with a drag-hook on its end, substantially as and for the purpose specified.

A. FRANK SKINNER.

Witnesses:

J. H. HEFFNER,
S. F. EATON.