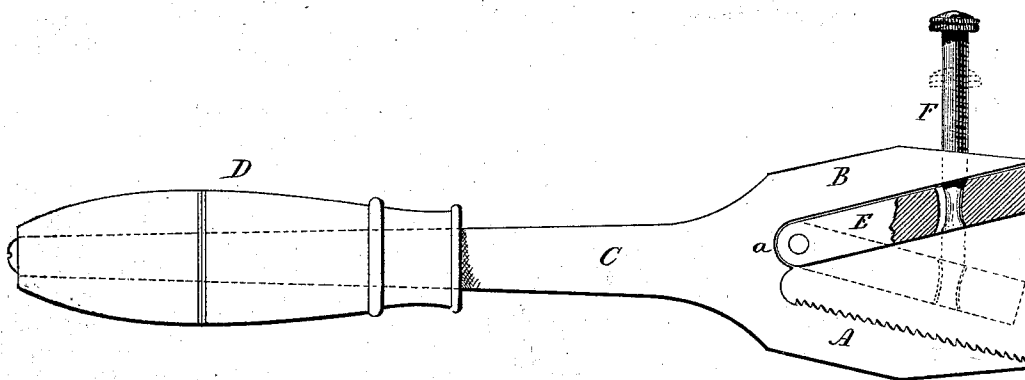


H. E. ACKER.
Adjustable Pipe-Wrenches.

No. 149,559.

Patented April 14, 1874.



Witnesses.

J. H. Shumway
A. J. Tibbitts

Henry E. Ackers
Inventor.

By Atty.

Wm. E. Earle.

UNITED STATES PATENT OFFICE.

HENRY E. ACKER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO HIMSELF
AND LESTER J. BRADLEY, OF SAME PLACE.

IMPROVEMENT IN ADJUSTABLE PIPE-WRENCHES.

Specification forming part of Letters Patent No. **149,559**, dated April 14, 1874; application filed
May 13, 1873.

To all whom it may concern:

Be it known that I, HENRY E. ACKER, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new Improvement in Pipe-Wrench; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents a side view, showing the adjustable jaw in partial section.

This invention relates to an improvement in that class of wrenches designed for the turning of cylindrical articles, as pipe, &c., and commonly termed pipe-wrenches; and the invention consists in combining with a pair of diverging jaws an adjustable jaw between the said two diverging jaws, whereby the inclination of one jaw to the other may be changed.

A B are the two jaws, diverging from and made a part of the shank C, the said shank fitted with a suitable handle, D. The jaw A is serrated upon its inner surface in the usual manner for this class of wrenches. Between these two jaws the adjustable jaw E is arranged, its end fitted into a seat, as at *a*, and so as to be moved in the said seat toward or

from the jaw A, and is substantially the same length as the two fixed jaws. Through the jaw B, near the end, an adjusting-screw, F, is arranged, and connected to the adjustable jaw, so that by turning the said screw in one direction the adjustable jaw will be forced over toward the other jaw, A, as denoted in broken lines, or returning the screw will return the jaw, adjusting the jaw E to any desired point between the two when such adjustment is required, or lying flat against the jaw B when such change or adjustment is not required.

I do not wish to be understood as broadly claiming an adjustable jaw for a pipe-wrench.

I claim as my invention—

In combination with the handle C D, the serrated jaw A, combined with the arm or jaw B, extending over the jaw A, and diverging therefrom, and the jaw E, hung at the junction of the arm B with the shank, and with the adjusting-screw F, near the outer end of the arm B, and substantially at right angles to the handle, all substantially as set forth.

HENRY E. ACKER.

Witnesses:

E. B. PECK,
F. P. NORMAN.