

T. WILLIAMS.
Pipe-Wrenches.

No. 136,350.

Patented Feb. 25, 1873

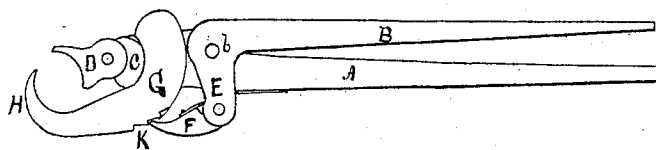


Fig. 1.

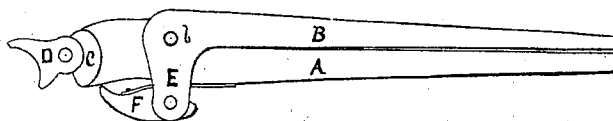


Fig. 2.

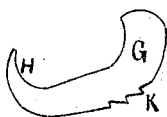


Fig. 3.

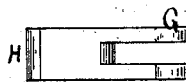


Fig. 4.

WITNESSES

Frank G. Parker
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INVENTOR

Turner Williams

Witnessed by William Eason City.

UNITED STATES PATENT OFFICE.

TURNER WILLIAMS, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. 136,350, dated February 25, 1873.

To all whom it may concern:

Be it known that I, TURNER WILLIAMS, of Providence, in the county of Providence and State of Rhode Island, have invented a certain new and useful Improvement in Pipe-Wrenches, of which the following is a specification:

The Nature of the Invention.

The nature of my invention consists in constructing the wrench with a peculiarly-formed detachable jaw, which is acted upon by a pawl attached to one of the levers, said jaw being detachable so that it may be taken off and its place supplied by one of a different capacity, so that the wrench may be adapted to different-sized pipes. The bearing-surfaces of both jaws are smooth. The object of the invention is to make a wrench that is easily adapted to different sized pipes, and one that will not injure the surface of the pipe.

Description of the Drawing.

Figure 1 is an elevation of my invention. Fig. 2 is an elevation of the same, the detachable jaw being removed. Figs. 3 and 4 represent the jaw in elevation and plan.

General Description.

Let A and B represent the two arms or levers of the wrench, being hinged together at b. F is a pawl attached to projections E from

the lever B. The arm A has at its end a boss, C, projecting from both sides. These bosses are so fitted that the detachable jaw G, Figs. 3 and 4, may be connected to them, it being forked for the purpose, as shown in Fig. 4, the bosses C acting as a pivot upon which the jaw swings. The jaw G has upon its back a series of notches, K, into which the pawl F fits, so that upon working the arm B the pawl will act upon the jaw, and thus close it upon the pipe to be acted upon. D is the inner or buttress-jaw, and is pivoted, as shown, to the arm A.

In practice, I make a number of jaws, G and D, of different sizes for each wrench, so that the wrench may be applied to all sized pipes. The jaw G is hung eccentrically with the jaw D, so that as it is swung around by the pawl F it closes in toward the jaw D, thus grasping the pipe.

The inner or bearing surface of each jaw being smooth and pressing directly upon a considerable surface of the pipe to be turned, the instrument will not injure the pipe in the least.

I claim as my invention—

The combination, in a pipe-wrench, of the jaw G and the pawl F, operating substantially as described, and for the purpose set forth.

TURNER WILLIAMS.

Witnesses:

WILLIAM EDSON,
FRANK G. PARKER.