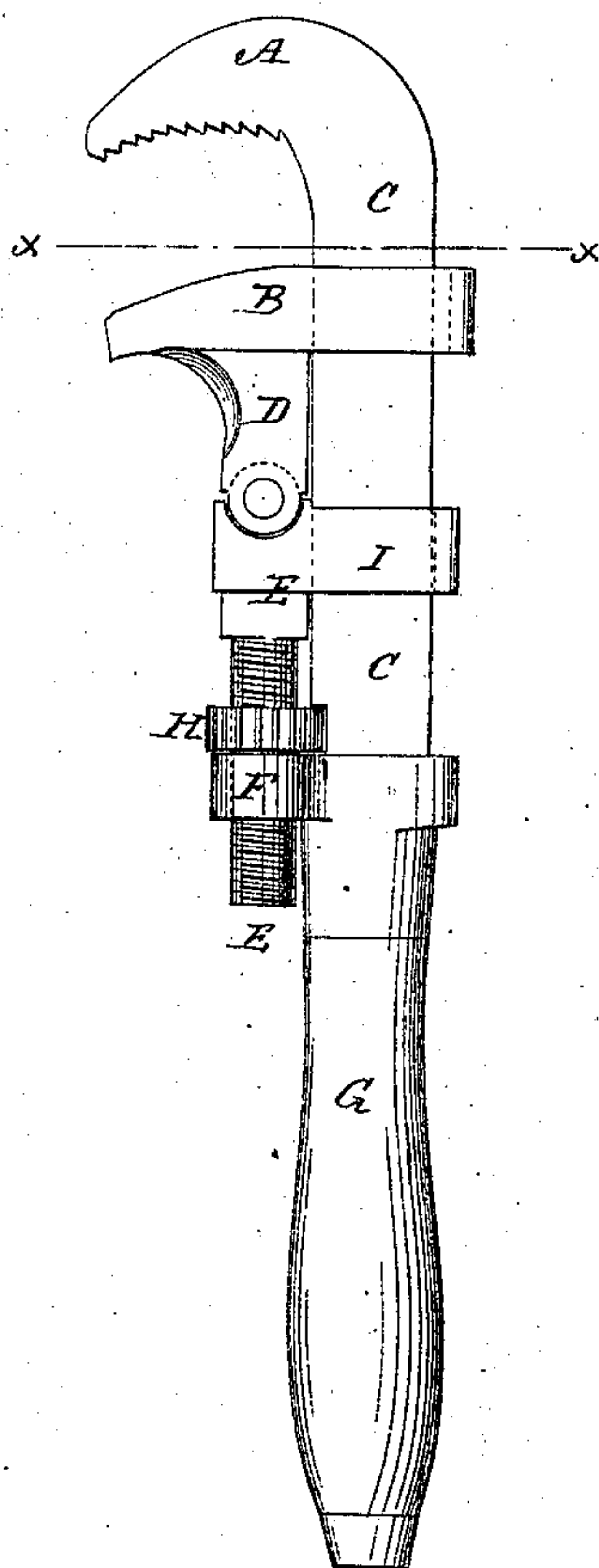


**T. STONE.**  
**Pipe Wrench.**

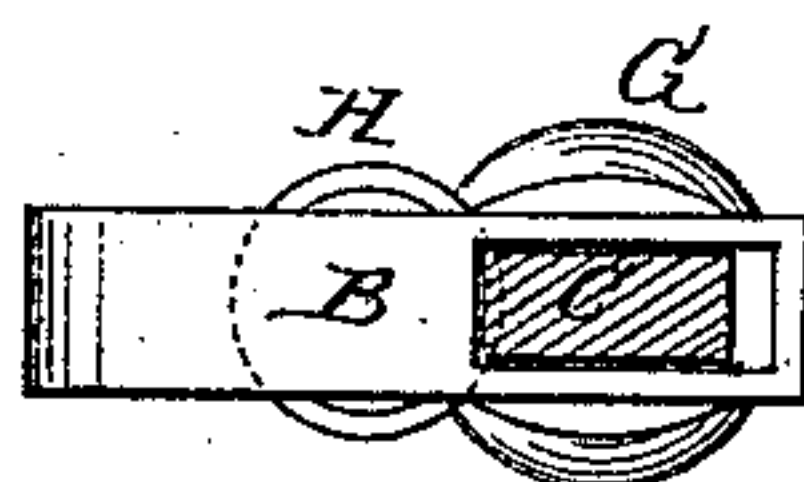
No. 133,902.

Patented Dec. 10, 1872.

*Fig. 1.*



*Fig. 2.*



**Witnesses:**

*Chas. Nida.*  
*Geo. W. Mabey*

**Inventor:**

*Thomas Stone*

**PER**

*Munnell*  
**Attorneys.**

# UNITED STATES PATENT OFFICE.

THOMAS STONE, OF CARBONDALE, ILLINOIS, ASSIGNOR TO HIMSELF, WILLIAM SCURLOCK, AND NELSON W. GRAHAM, OF SAME PLACE.

## IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. 133,902, dated December 10, 1872.

*To all whom it may concern:*

Be it known that I, THOMAS STONE, of Carbondale, in the county of Jackson and State of Illinois, have invented a new and Improved Pipe-Wrench, of which the following is a specification:

Figure 1 is a side view of my improved pipe-wrench. Fig. 2 is a detail cross-section of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved pipe-wrench, simple in construction, convenient in use, and effective in operation, being readily adjusted to various-sized pipes, and holding the pipe firmly; and it consists in the construction and combination of the various parts of the wrench, as hereinafter more fully described.

A is the stationary jaw, which is made slightly concave or curved upon its face, and has teeth formed upon its face, as shown in Fig. 1. B is the movable jaw, the face of which is curved outward or made slightly convex, as shown in Fig. 1, to cause it to clamp the pipe more firmly when in use as power is applied to it. The base of the movable jaw B is slotted, as shown in Figs. 1 and 2, to receive and slide upon the shank C of the stationary jaw A when adjusting the wrench for different-sized pipes. The slot in the movable jaw B, through which the shank or stem C passes, is made longer than the breadth of the

shank C, as shown in Fig. 2, and in dotted lines in Fig. 1, to allow the said jaw to play upon the said shank to tighten or loosen the grasp of the wrench upon the pipe when using the wrench. Upon the outer side of the movable jaw B is formed a short arm, D, the end of which is pivoted or hinged to the end of the screw E, which passes through a guide or keeper, F, formed upon or attached to the hand-piece G of the wrench. Upon the screw E is placed a milled nut, H, which enters a notch in the edge of the stem or shank C, so that when the said nut is turned the screw E, and with it the movable jaw B, may be moved back and forth to adjust it to different-sized pipes. To the hinged end of the screw E is attached or upon it is formed a collar or keeper, I, through which the stem or shank C passes, to hold the end of the said screw E close up to and cause it to move back and forth parallel with the stem C.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The within-described pipe-wrench, consisting of the handle G, keeper F, stem C, curved jaw A, slotted and curved jaw-piece B, hinged arm D, keeper I, screw E, and nut H, all as shown and set forth.

THOMAS STONE.

Witnesses:

JAS. H. CAMPBELL,  
P. A. PRICKITT.