

J. N. Arrin,

Wrench.

N^o 63,356.

Patented Apr. 2, 1867

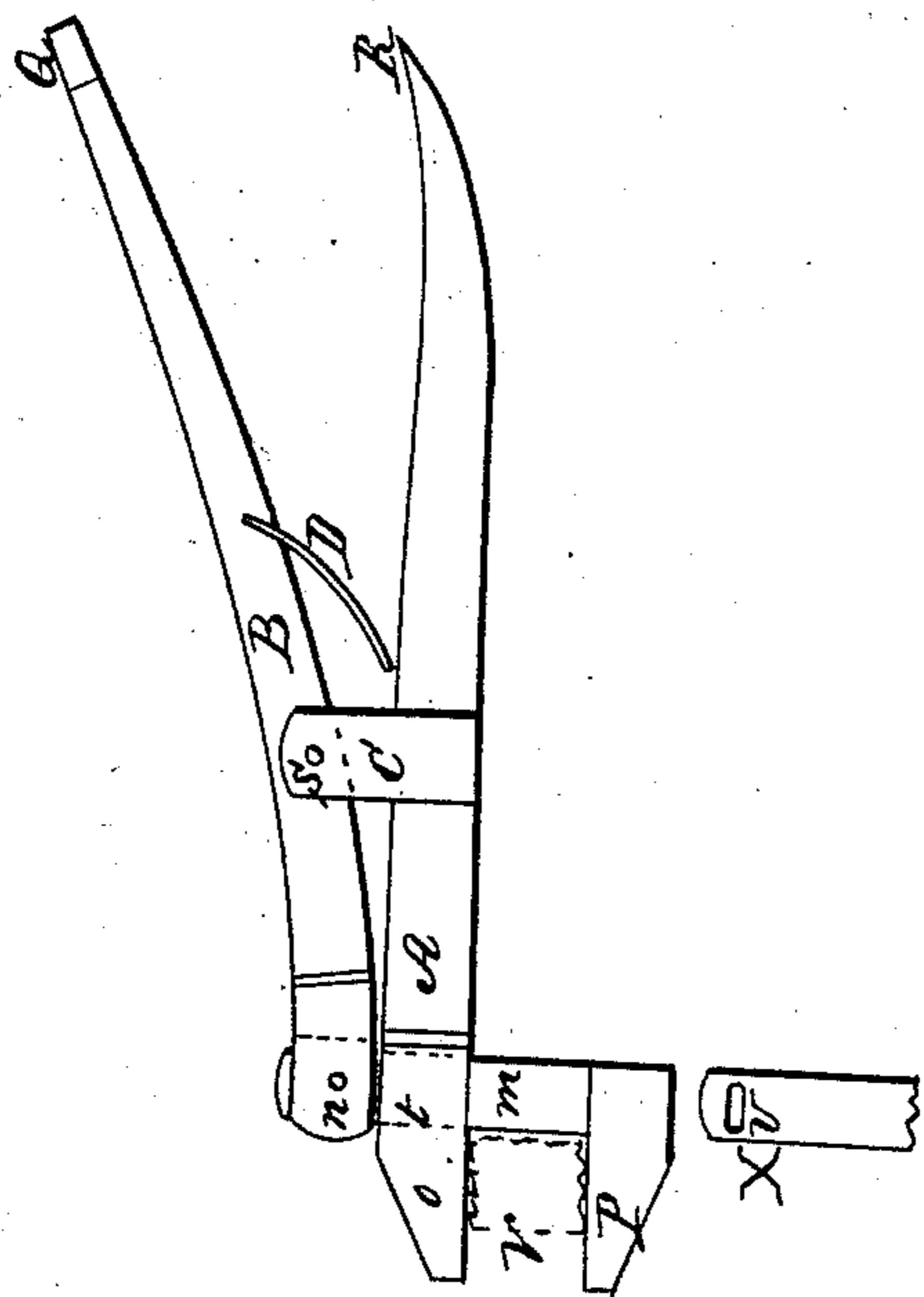


Fig. 1

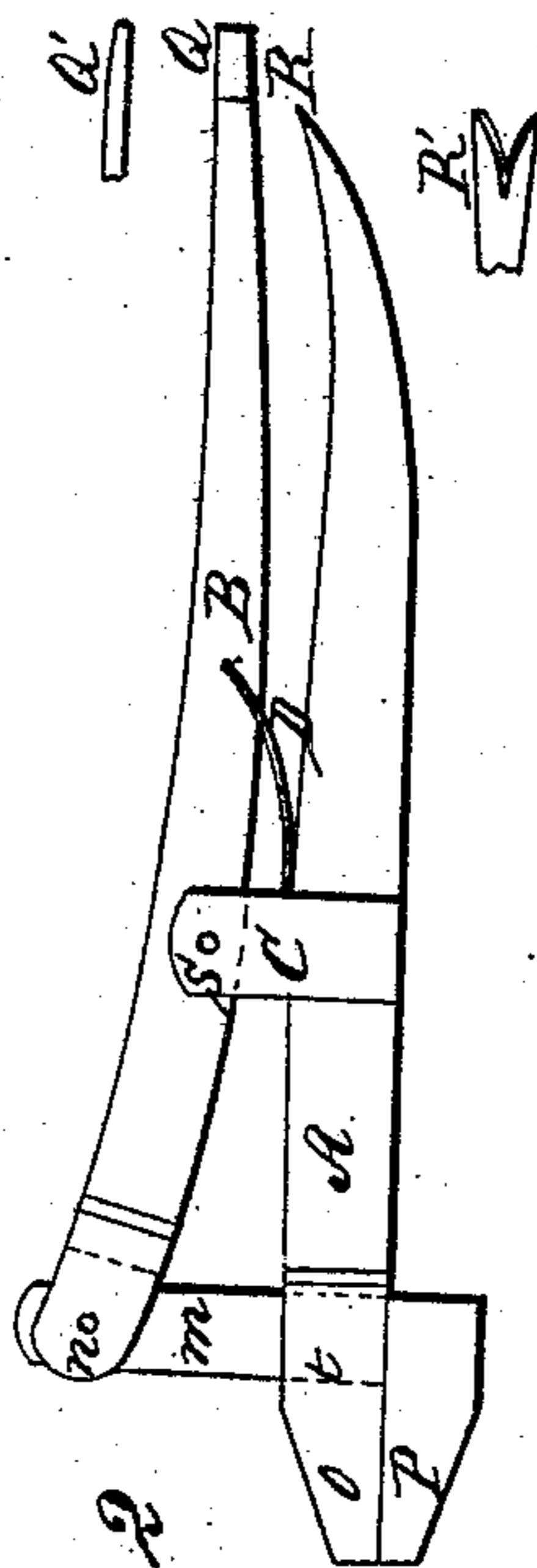


Fig. 2

Witnesses;
R. Bell Jr
S. S. Rimmer

Inventor;
John N. Arrin
By his attorney
Geo. L. Chapin

United States Patent Office.

JOHN N. ARVIN, OF VALPARAISO, INDIANA.

Letters Patent No. 63,356, dated April 2, 1867.

IMPROVED WRENCH AND TONGS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN N. ARVIN, of Valparaiso, in the county of Porter, and State of Indiana, have invented a new and useful Wrench and Tongs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, and letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is an elevation of my wrench and tongs with the jaws open.

Figure 2 is a longitudinal elevation of the wrench and tongs with the jaws closed.

The nature of my invention consists in the use of a lever attached to the bar of the adjustable jaw by means of a pin passing through the end of the lever and a slot made through the upper end of the bar, by which means the bar passing through the stationary lever will not be cramped or bound when the jaws are closed; and in providing two straps attached to the stationary lever, and projecting upward far enough to support the movable lever, which is adjusted between said straps, and held in position by means of a pin, upon which the adjustable lever operates; and further, in the use of a spring made fast to the movable lever, and operating against the stationary lever for the purpose of keeping the jaws of the wrench open when not in use. By this arrangement the jaws of the wrench are held in such a position that they can be conveniently used as tongs or pincers, and all kinds of work where the several devices named have necessarily been employed heretofore.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the stationary lever, terminating at one end in the jaw *o*, through which is made a mortise for the shank, *m*, attached to the jaw *P* to pass through, as seen by the dotted lines *z*. C shows straps rigidly attached to the lever A for the purpose of supporting the movable lever B held between the straps C by means of the pin S, which is used as a fulcrum. B is the movable lever, having an open mortise through which the upper end of the shank *m* passes, and is held in position by means of the pin *n*. D is the spring secured to the lever B, and extending down to lever A, and keeps the jaws O P open, as seen at fig. 1, when the wrench is not in use. Drawing X represents the top of the shank *m*, in which is made the slot U, through which the pin *n* is put. This slot is important in allowing the shank *m* to pass through the jaw *o* at right angles, notwithstanding the circular motion given to the pin *n* by the motion of the lever B. *a* shows a common screw-driver made on the end of the lever B, and *a'* shows a top view of the same. R represents the common claw for drawing tacks and other purposes. R' shows a top view of the same.

Operation.

Fig. 1 represents the invention with the jaws O P open for grasping a nut or other article, as seen by the lines V. The levers A B must be grasped with the hand, which will shut the jaws sufficiently close to either turn a nut, or for other purposes.

Having thus fully described my device, what I claim, and desire to secure by Letters Patent of the United States, is—

The arrangement and combination of the levers A B, straps C, spring D, jaws O P, and shank *m*, when constructed substantially as and for the purposes specified.

Witnesses:

S. S. SKINNER,

R. BELL, Jr.

JOHN N. ARVIN.