

R. M. Thompson,

Wrench.

No. 96,287.

Patented Oct. 26, 1869.

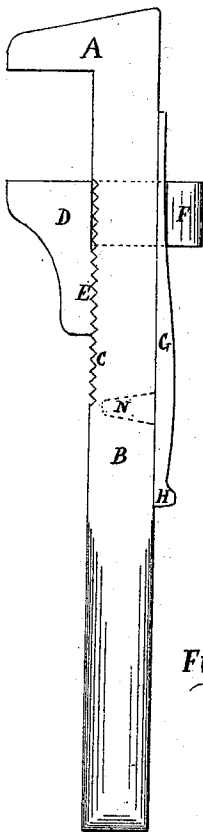


Fig 1.



Fig 2.

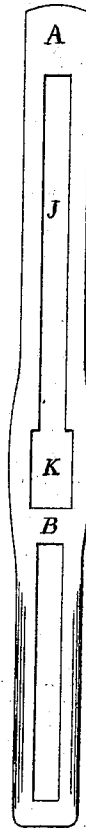
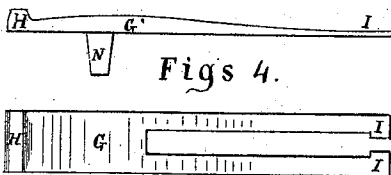
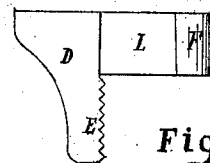


Fig 3.



Figs 4.



Figs 5.



J. H. Hammond
A. O. McKinley } WITNESSES.

R. M. Thompson, INVENTOR.
By J. A. Abbott, ATTORNEY.

United States Patent Office.

R. M. THOMPSON, OF COSHOCTON, OHIO.

Letters Patent No. 96,287, dated October 26, 1869.

IMPROVEMENT IN WRENCH.

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, R. M. THOMPSON, of Coshocton, in the county of Coshocton, and State of Ohio, have invented new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of my invention, reference being had to the accompanying drawings, forming a part of this specification, and to the letters of reference marked thereon, of which drawings—

Figure 1 is a front view of my improved wrench.

Figure 2 is a side view of the same.

Figure 3 is a side view of the wrench-standard.

Figures 4 are side view and plan of the grooved retaining-wedge.

Figures 5 are side view and plan of movable jaw.

The nature of my invention consists in certain improvements in the mechanical construction of a wrench with sliding jaw, as is hereinafter described, whereby I obtain a very simple and efficient wrench, which may be put together by simply uniting the three castings composing the wrench, without the necessity of any finishing on said castings, and hence may be produced at a very moderate cost, which makes it very useful for all purposes requiring an adjustable and cheap wrench, such as in agricultural machinery, harvesters, and other implements, in which a wrench is usually supplied to each machine.

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

The standard B has the head or jaw A secured at its top, and has the grooves J and K formed in it, which grooves unite with each other, and are made through the standard B, in the direction of the head A, as shown.

The corrugated face C is formed on the face of the standard B, under the head A, as shown, and the lower end of the standard B, which may be cast with a slot, as shown, or in a hollow cylindrical form, if preferred, forms the handle of the wrench, or it may be cast as a shank, and a wooden handle affixed, if preferred.

The movable jaw D is made with the corrugated face E, and has a neck, L, of the same thickness as the width of the slot J, and a head, F, of the same dimensions, vertically and horizontally, as the slot K in the standard B, from which it is evident that the jaw D is placed in position on the standard B, by passing the head F through the slot K, when the neck L can move up and down in the slot J, as is readily seen.

The wedge G is made with a groove in the centre, of the same width as the groove J, and has its arms I I headed on the inside, as shown.

The thumb-rest H is secured at its rear end, by means of which it is readily slid up or down by the thumb of the hand which grasps the wrench-handle, and a guide-lug, N, is fixed on its lower side, which moves in the slot J, and thus secures the correct linear movement of the wedge.

The wedge is secured in position, and the uniting of the several parts of the wrench is effected by bending the arms I I apart at their ends until they can pass the neck L of the jaw D, which projects through the standard B, when the wedge is secured, and the several parts united by bending together the arms I I, the heads on the inner faces of which will prevent the wedge from being slid out from under the head F, although a limited movement of the wedge under said head may be effected.

The jaw D is secured in any desired position by pushing the wedge G forward, which causes it to act as a wedge between the head F and the standard B, and thus binds the corrugated faces, C and E, of the standard B and jaw D firmly together, which fixes the jaw on the standard.

The operation of loosening the jaw D, and varying the distance between it and the jaw A, is too evident, from the foregoing description, to require further explanation.

The standard B and jaw D may be made of any suitable material of sufficient strength, whether malleable or not; but the wedge G, or at least the arms I I of said wedge, should be of some malleable metal, so as to allow of their being bent, as before shown.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The improved wrench herein described, consisting of the standard B, with jaw A, corrugated face C, and slots J and K, movable jaw D, with corrugated face E, neck L, and head F, and the retaining-wedge G, with headed malleable arms I I and thumb-piece H, the several parts being constructed and combined substantially as and for the purpose specified.

As evidence that I claim the foregoing, I have hereunto set my hand, in the presence of two witnesses, this 6th day of August, 1869.

R. M. THOMPSON.

Witnesses:

J. S. ELLIOTT,
JOSEPH ELLIOTT.