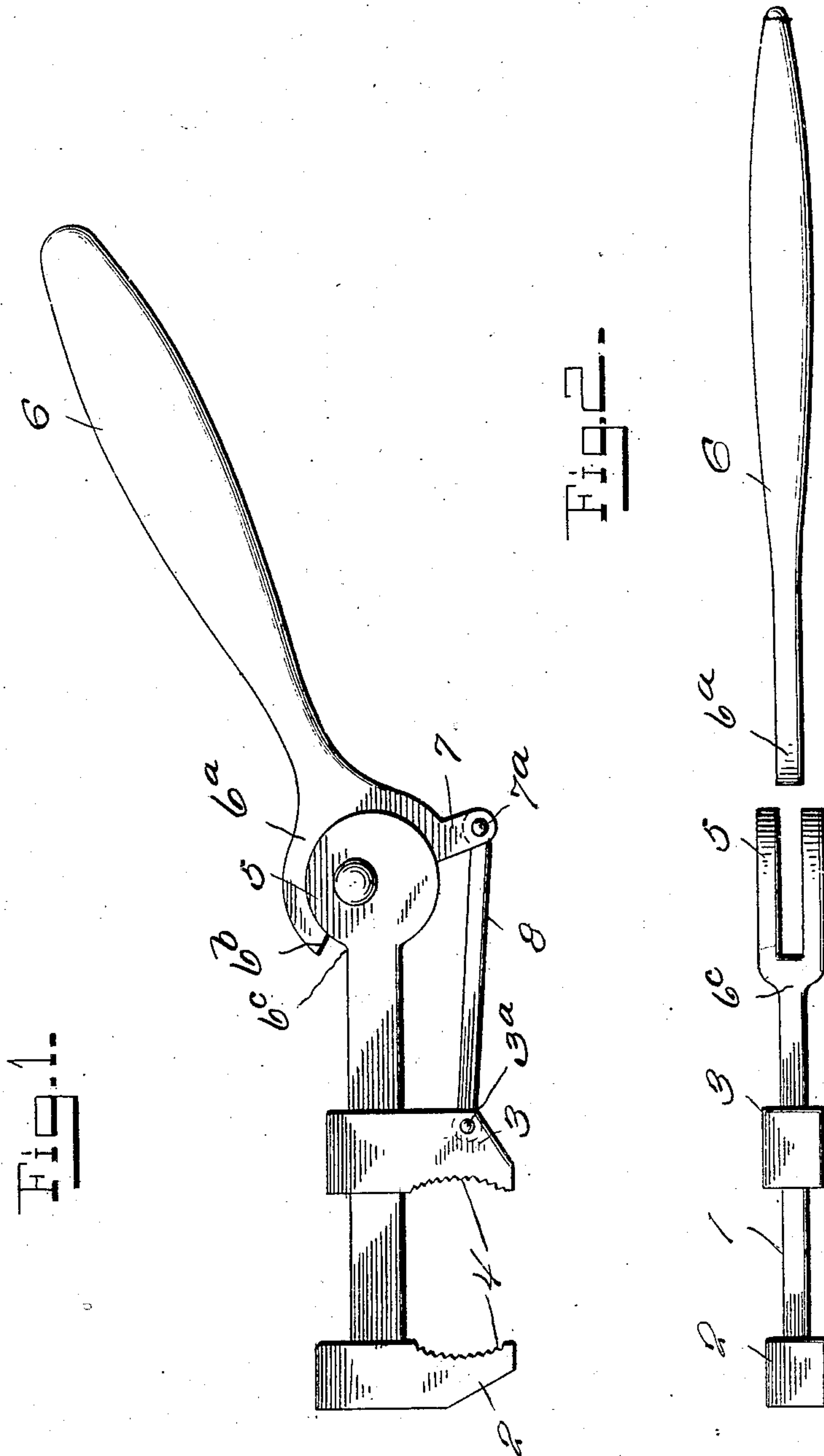


No. 879,383.

PATENTED FEB. 18, 1908.

P. HAWKINS.  
WRENCH.

APPLICATION FILED SEPT. 29, 1906.



Witnesses  
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# UNITED STATES PATENT OFFICE.

PETER HAWKINS, OF KOKOMO, INDIANA.

## WRENCH.

No. 879,383.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed September 29, 1906. Serial No. 336,722.

*To all whom it may concern:*

Be it known that I, PETER HAWKINS, a citizen of the United States, residing at Kokomo, in the county of Howard and State of Indiana, have invented a new and useful Wrench; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to wrenches, and has for its object to provide a simple, inexpensive and durable device of this class, which can be readily adjusted in an instant, according to the size of the nut or pipe to be engaged.

With these and other objects in view, the invention consists in the novel combination, and arrangement of parts, hereinafter described and shown and particularly pointed out in the appended claims.

In the drawing forming part of this specification, and in which like numerals of reference indicates similar parts throughout the several views, Figure 1, is a side elevation of the wrench constructed in accordance with this invention. Fig. 2, is a plan view, showing the handle disengaged from the shank.

Referring to the drawings, 1 designates a shank, having a rigid jaw 2, and an adjustable jaw 3 coöperating therewith. It is obvious that this wrench may be employed in operating on pipes, rods and the like, or nuts. The jaws have teeth 4, or they may be made smooth on their inner faces as desired. The shank 1, terminates in an enlargement or head 5, to which is pivotally connected a handle 6. The pivotal end of the handle 6, is provided with an enlargement 6<sup>a</sup>, which is provided with an abutment 6<sup>b</sup>; which contacts with the shank of the rigid jaw, as at 6<sup>c</sup>, so as to limit the throw of said handle. The head 5 is bifurcated as shown in Fig. 2, in which bifurcation the handle 6 is received.

Projecting from the enlargement 6<sup>a</sup> is an arm 7 to which, a link 8 is pivoted as at 7<sup>a</sup>, which link in turn is pivoted to jaw 3 as at 3<sup>a</sup>, as clearly shown in the drawings. The pivot of the enlargement 6<sup>a</sup> is eccentrically dis-

posed, to the center of the bifurcated circular head 5; this is for the purpose of allowing the pivot 7<sup>a</sup> to travel in a greater arc so as to operate the jaw 3 closer to the said head 5, without causing the jaw 3 to bind upon the shank of the rigid jaw, which binding action would be caused if the arm 7 were made longer, so as to throw the pivot 7<sup>a</sup> further from the said head. The head 5 is made circular and of the size shown so as to have a greater area in which to dispose the pivot of the said handle, as will be clearly manifest.

In operation, the movable jaw 3 is adjusted by the oscillation of the handle 6, as will be readily understood. When it is desired to engage a small pipe or nut, the handle being moved inward, and when it is desired to engage a larger subject, the handle is moved in the opposite direction.

The head 5 which is bifurcated is eccentrically pivoted to the handle 6 which increases the leverage power of the handle 6 for moving the adjustable jaw.

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

A wrench comprising a shank having at one end, a fixed jaw-member and at its opposite end a circular bifurcated enlargement, a movable jaw-member, slidably mounted upon said shank, a handle or lever having an inner-end enlargement formed between cheek pieces formed by said bifurcated shank enlargement, and a link connection between said movable jaw and an outstanding extension of said inner-end enlargement of said lever, said lever having pivotal connection with said circular enlargement of said shank member, said pivotal connection being eccentrically effected with said circular end enlargement.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER HAWKINS.

Witnesses:

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LORA SMITH.