

No. 615,926.

Patented Dec. 13, 1898.

W. TYACK.
PIPE WRENCH.

(Application filed Aug. 15, 1898.)

(No Model.)

Fig. 4.

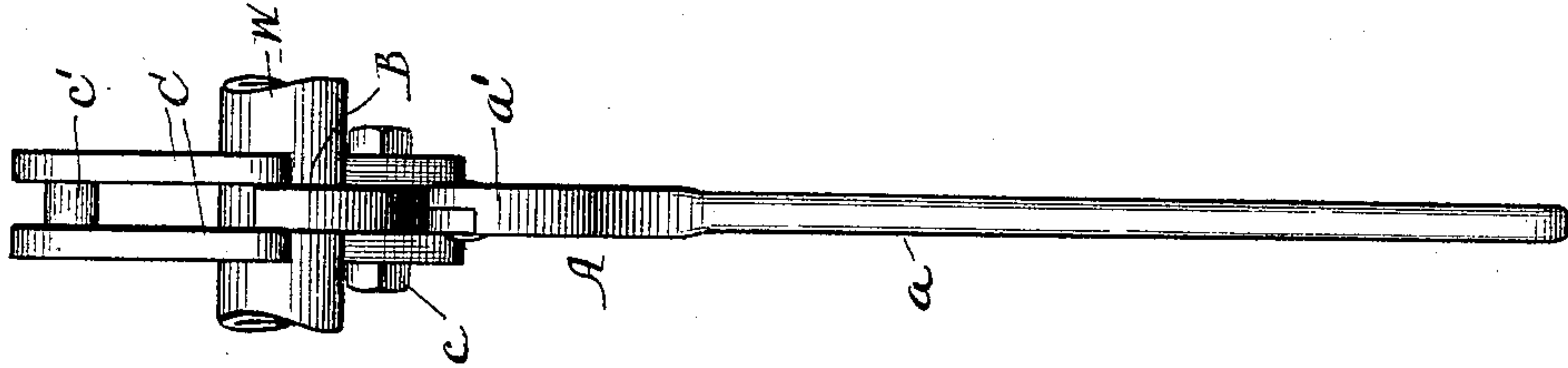


Fig. 3.

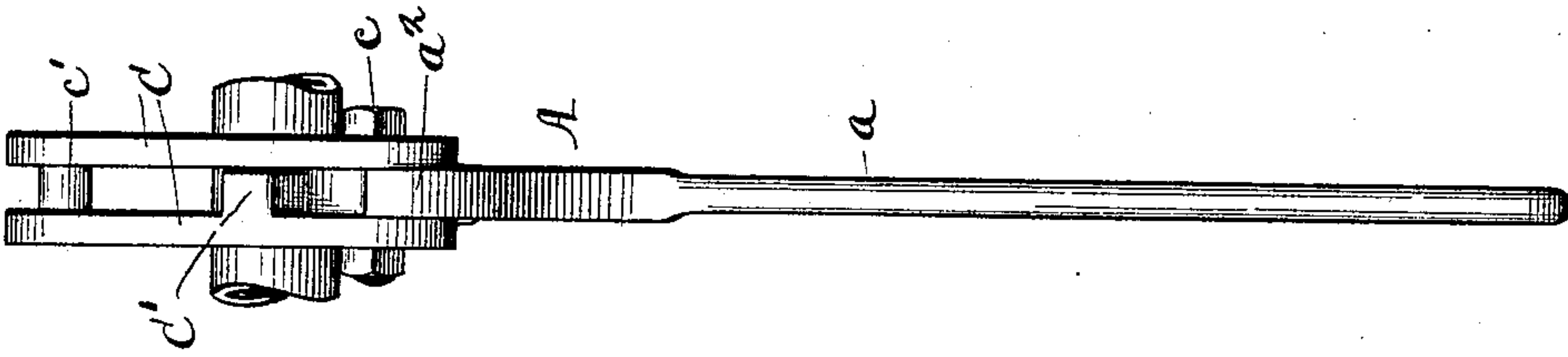


Fig. 2.

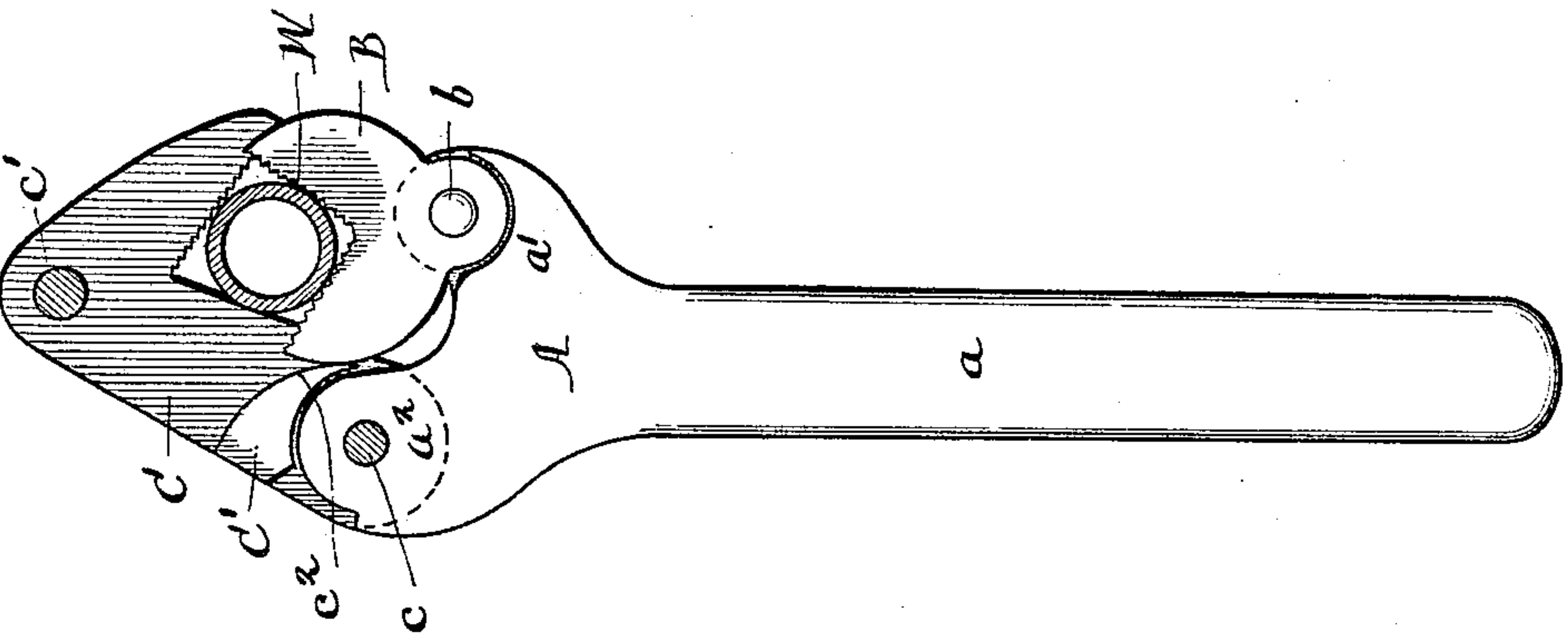
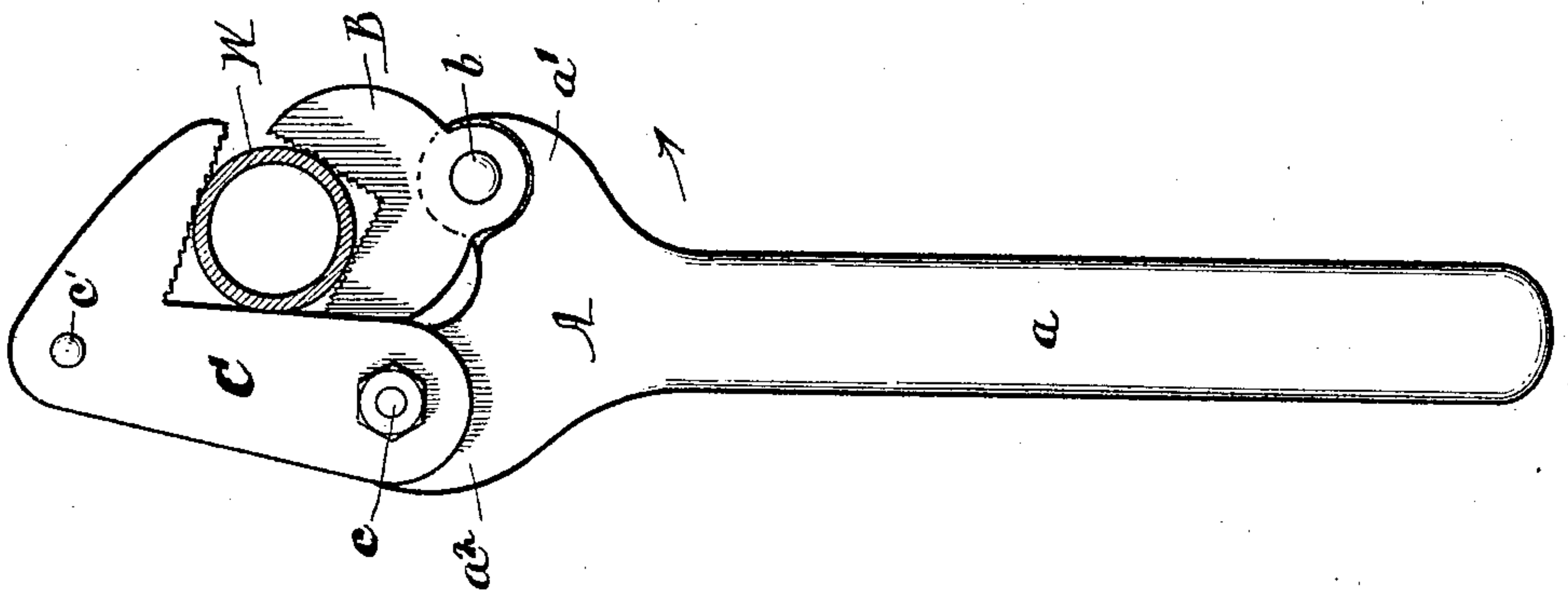


Fig. 1.



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WILLIAM TYACK, OF CHICAGO, ILLINOIS.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 615,926, dated December 13, 1898.

Application filed August 15, 1898. Serial No. 688,608. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TYACK, a resident of Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is hereby declared to be a full, clear, and exact description.

My present invention has for its object to provide a simple and effective construction of pipe-wrench, the invention being directed more particularly to the production of a wrench whereby pipes, rods, or the like of different sizes may be securely and firmly held while being turned.

The improvements consist in the features hereinafter described, illustrated in the accompanying drawings, and particularly defined in the claims at the end of this specification.

Figure 1 is a view in side elevation of a wrench embodying my invention. Fig. 2 is a view in vertical section at one side of the wrench-body. Fig. 3 is a rear edge view, and Fig. 4 is a front edge view.

The body A of the wrench is shaped at one end to form a handle *a*, and at its opposite end is formed with two oppositely-disposed arms or portions *a'* and *a''*. To the arm *a'* is pivotally connected, as at *b*, a V-shaped jaw B, the offset-arm *a'* being preferably formed with a curved recess to receive the circular portion *b'* of the jaw B. To the opposite offset arm or portion *a''* is pivotally connected, as by a bolt *c*, the angular jaw C. The jaw C is shown as formed of two sections united together at the top by a bolt or rivet *c'*, the sections of the jaw C being thus held apart to form a space into which the ends of the pivoted jaw B may enter when the wrench is used upon pipes or rods of small size, as illustrated in Fig. 2 of the drawings. One of the sections of the jaw C has upon its inner face and preferably cast integral therewith a cam-block *C'*. The lower end or lip extends downwardly, forming an inclined edge or surface *c''*, against which the edge of the pivoted jaw B will bear as the jaws engage the pipe. The function of the cam *C'* is to guide the pivoted

jaw B and direct this jaw into accurate bearing upon the pipe or like article whereon the wrench is used.

I have found that by locating the pivoted jaw B at the end of the wrench-body A and opposite the angular jaw C a most effective grasping of the pipe can be had, and by providing a cam-block between the sections of the jaw and rigid with one of said sections an accurate guiding of the pivoted jaw into engagement with the pipe is secured. The arm or offset portion *a''* is preferably formed with a shoulder or stop that will limit the backward swinging of the angular jaw C.

In using the wrench the jaws B and C will be opened to engage the pipe W, and then by turning the wrench in the direction of the arrow, Fig. 1, it will be found that the turning of the handle *a* will cause the jaws B and C to securely grasp the pipe W, and thus effectively enable it to be turned, the cam *C'* directing the pivoted jaw B into most effective position for holding the pipe.

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

1. A pipe-wrench comprising a body A having a handle *a* at one end and having at its opposite end a V-shaped pivoted jaw B and an angular jaw also pivoted to said body, said angular jaw being formed with an open space to admit the ends of the jaw B and with a cam rigidly held within said open space to direct said pivoted jaw.

2. A pipe-wrench comprising a body A having a handle at one end and having at its other end the oppositely-disposed offset portions *a'* and *a''*, a V-shaped jaw B pivoted to the offset-arm *a'* and a jaw C pivoted to the offset-arm *a''*, said jaw C being formed with an open space and having within said space a cam *C'* to direct said pivoted jaw.

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Witnesses:

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