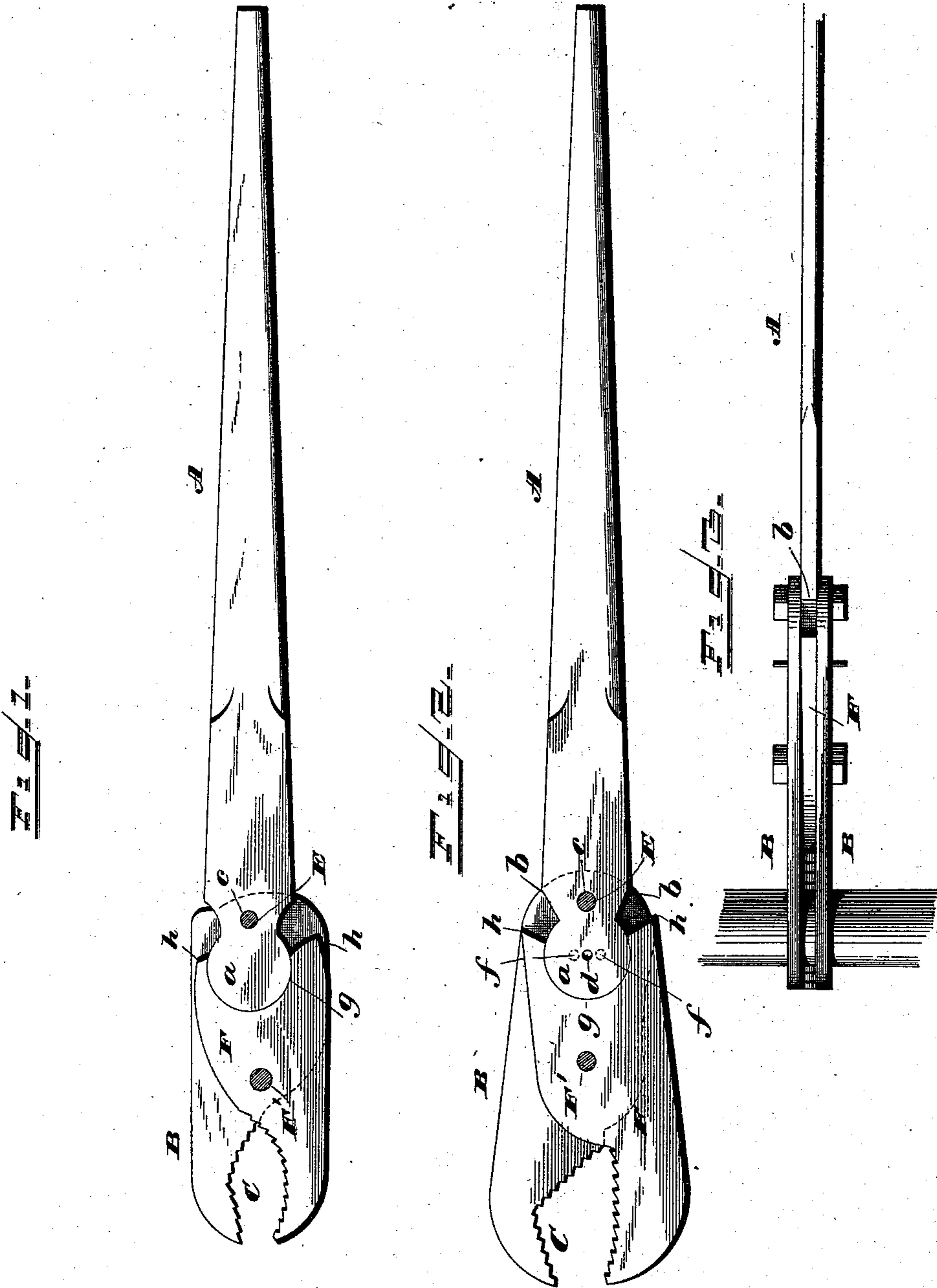


(No Model.)

A. R. WYGLE.  
PIPE WRENCH.

No. 380,072.

Patented Mar. 27, 1888.



WITNESSES,  
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# UNITED STATES PATENT OFFICE.

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## PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 380,072, dated March 27, 1888.

Application filed July 28, 1887. Serial No. 245,524. (No model.)

*To all whom it may concern:*

Be it known that I, ARCHIBALD R. WYGLE, a citizen of the United States of America, residing at Kingman, in the county of Kingman and State of Kansas, have invented certain new and useful Improvements in Pipe-Wrenches; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in pipe-wrenches, the object of my invention being to provide a simple, durable, and cheaply-constructed implement having but few parts, by means of which I am enabled to grasp pipes having considerable variation in size without adjusting the parts of the implement.

My invention consists in the construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a side view having one of the outer jaws removed. Fig. 2 is a similar view showing the wrench provided with a locking device, and Fig. 3 is an edge view.

A refers to the handle, which is of sufficient length and thickness for implements of this class, and the same is provided at the end opposite the hand grasping portion with a circular portion, *a*, which is formed integral therewith. Adjacent to this circular portion *a* the handle A has shoulders *b*, against which one of the pivoted jaws will abut. The handle A is made comparatively flat at the end which has the circular portion and shoulders, and it is provided with perforations *c d*, which are located as shown in the accompanying drawings.

B B refer to the outside jaws, which are identical in construction, and they are provided with perforations *e e*, through which passes a bolt or rivet, E, which is employed for connecting the same pivotally to the handle A, said bolt or rivet passing through the perfora-

tion *c* in the handle. The ends of the jaws B B are provided with inclined recesses C C, which are serrated or provided with teeth. The jaws B B may also be provided with a series of perforations, F F, which will register with the perforations in the handle, so that a pin can be passed through the same, so as to lock the jaws B B to the handle, so that the same will be on a line therewith or at an angle at either side of the center.

Between the jaws B B is provided a jaw, F, the bolt which secures the same thereto passing through a perforation therein, as shown, and also through the perforation F' F' in the jaws B B. The end of this jaw is provided with a circular recess, within which the projecting portion of the handle will lie, this recess *g* having at its side projecting portions *h h*, which will abut against the shoulders formed on the handle and limit the swinging movement of the handle upon the jaws. The jaw F is serrated at its grasping portion, which may be either curved or straight.

It will be observed that the parts of my improved pipe-wrench are held securely together by two ordinary bolts or pivots, and when the handle is moved in one direction the jaws will close upon the pipe or be brought together, and when moved in the opposite direction the jaws will be opened. The implement can readily be converted into either a stationary jaw pipe-wrench or a nut-wrench by simply passing a pin through the perforations *f* and *d*, the space between the jaws depending upon the position of the perforations through which the pin is passed. This lock is also useful when it is desired to hold a pipe after the jaws have been clamped thereon, as in coupling tubes, &c., in wells.

I am aware that prior to my invention it has been proposed to pivot the jaw of a pipe-wrench to the handle and provide said pivoted jaw with a sliding jaw, and I do not claim such construction as my invention; but

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

1. In a wrench, the combination of a handle, outer jaws pivoted thereto, and an inner jaw pivoted between the outer jaws and adapted to engage with the handle between the pivots, substantially as shown.

2. In a wrench for the purpose set forth, the combination of a handle provided with a circular end, outer jaws pivoted to said handle, and a jaw pivoted to the outer jaw and provided  
5 with a recess, with which the handle engages, substantially as shown.

3. In a pipe-wrench, a handle provided at one end with a circular projecting portion, jaws B B, pivoted to said handle above the circular  
10 end, a jaw, F, provided at one end with a recess, with which the handle engages, and a bolt for pivotally securing the inner jaw to the outer jaws, the parts being organized and combined substantially as shown.

15 4. In a pipe-wrench, the combination of the parallel outer jaws, B B, an inner jaw pivotally

secured to and between the outer jaws, said inner jaw having at its inner end a circular recess, a handle with a projecting portion, which engages with said recess, a bolt for securing the  
20 outer jaws to the handle, and perforations in the handle and outer jaws, which register with each other, and a pin for locking the parts together, substantially as shown, and for the purpose set forth.

25 In testimony whereof I affix my signature in presence of two witnesses.

ARCHIBALD R. WYGLE.

Witnesses:

E. W. JOHNSON,  
WILLIAM SELBY.