

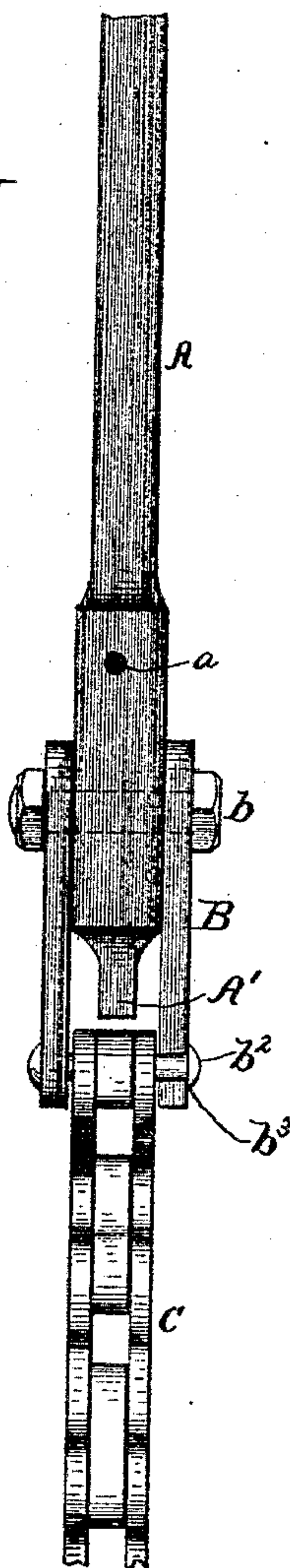
(No Model.)

P. H. KANE.  
PIPE WRENCH.

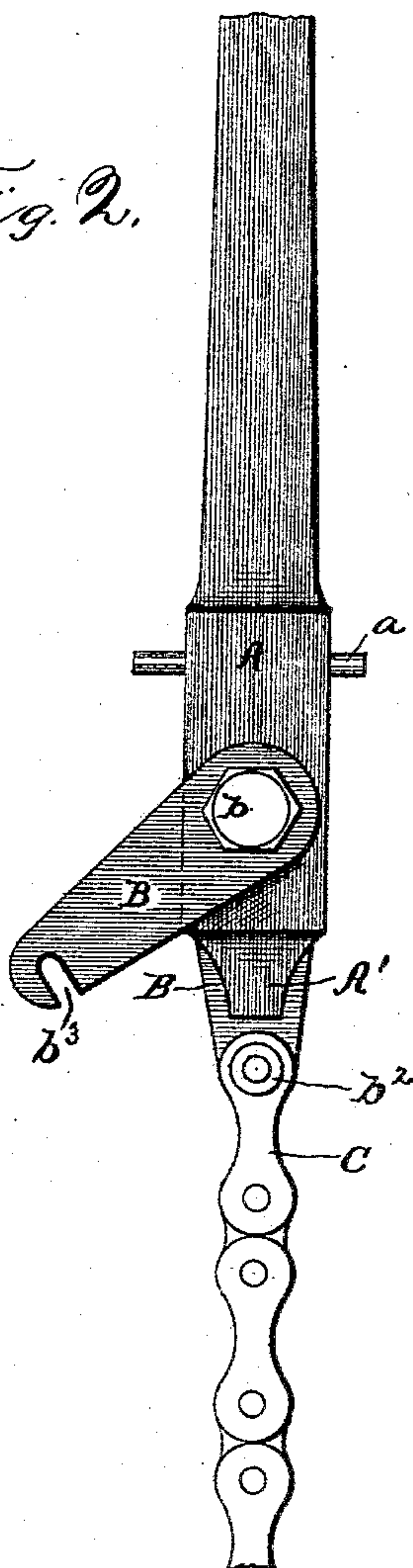
No. 412,096.

Patented Oct. 1, 1889.

*Fig. 1*



*Fig. 2.*



WITNESSES  
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# UNITED STATES PATENT OFFICE.

PATRICK H. KANE, OF OIL CITY, PENNSYLVANIA.

## PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 412,096, dated October 1, 1889.

Application filed April 11, 1888. Serial No. 270,311. (No model.)

*To all whom it may concern:*

Be it known that I, PATRICK H. KANE, a citizen of the United States, residing at Oil City, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Pipe-Tongs; 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 make and use the same.

My invention relates to that class of tongs that use a chain for gripping the pipe.

The object of my invention is to improve upon this form of tongs; and the invention consists of constructions and combinations, all as will hereinafter be set forth in the specification and pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 represents a front elevation of the tongs when not in use, and Fig. 2 a side view of the same.

A represents the operating-lever; A', the toe of the lever; B, a link pivoted to the lever A at b; C, the chain connected with the link B, and D a catch on the lever A for engaging with the chain. The chain passes around the pipe in position to engage with the toe of the le-

ver A, and through or past the link B, and is secured to the lever A on the same side that the link B is on. One side of this link is made to swing away from the bolt  $b^2$  and is provided with a hook  $b^3$ , which engages with the bolt  $b^2$ . By this means the chain can be inserted in the link sidewise instead of threading it through the link.

What I claim as new is—

1. In a chain pipe-tongs, the combination of a lever A, having a toe A', a link B, pivotally connected with said lever and having one side made movable, as and for the purposes set forth, and a chain C, connected with said link.

2. In a chain pipe-tongs, the combination of a chain for gripping the pipe, an operating-lever having a toe A', and a link connecting said chain to said lever near said toe, which has one of its sides made movable, as shown, so as to adapt it to receive the chain sidewise.

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

PATRICK H. KANE.

Witnesses:

J. L. DORWORTH,  
MARTIN CAREY.