

R. A. Copeland.

Pipe Wrench & Cutter.

N^o 86,138.

Patented Jan. 26, 1869.

Fig. 1.

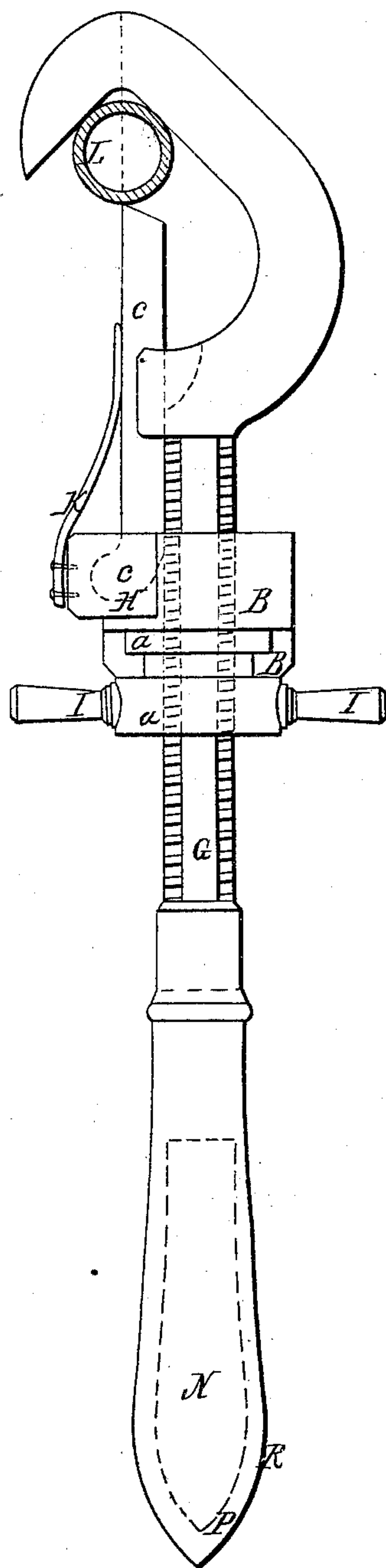


Fig. 2.

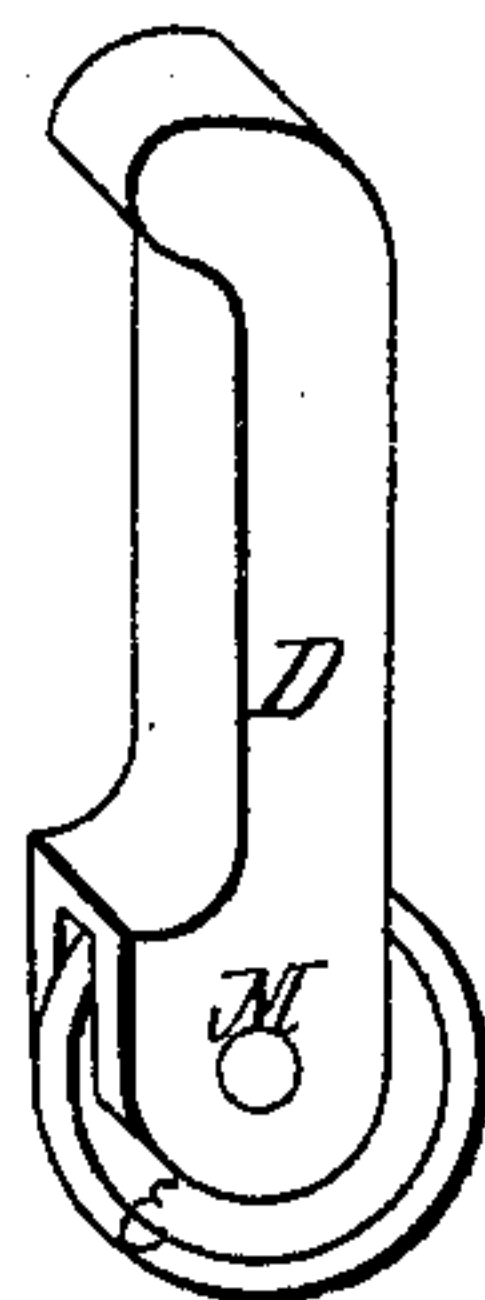
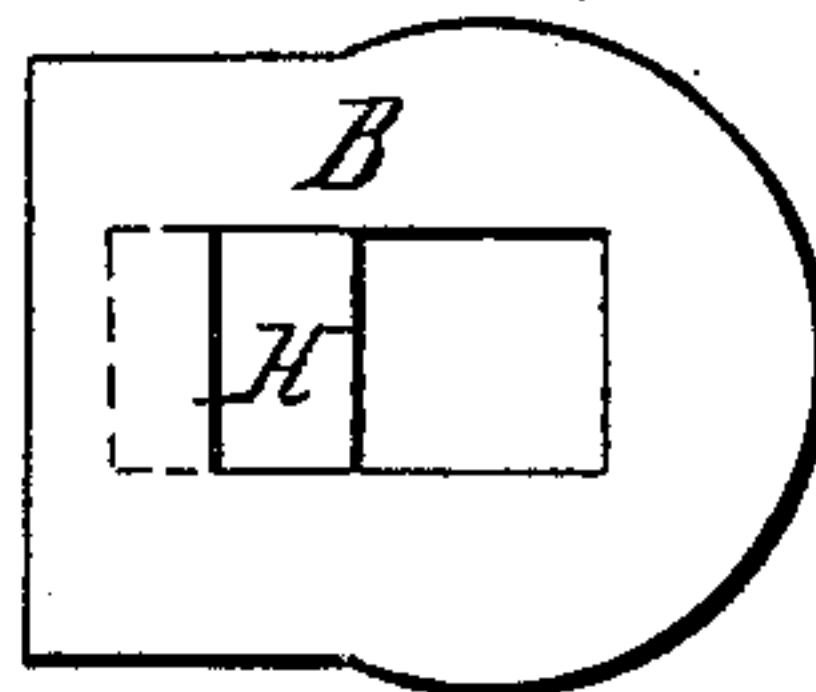


Fig. 3.



Witnesses;
Francis J. Oakes
R. B. Murray

Inventor;
R. A. Copeland

United States Patent Office.

ROBERT AVIS COPELAND, OF BALTIMORE, MARYLAND, ASSIGNOR TO JUSTUS SMITH
AND E. S. BENNETT, OF NEW YORK CITY.

Letters Patent No. 86,138, dated January 26, 1869; antedated January 9, 1869.

IMPROVEMENT IN PIPE-WRENCH AND CUTTER.

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, ROBERT AVIS COPELAND, of the city and county of Baltimore, in the State of Maryland, have invented a new and improved Combination Pipe-Wrench and Cutter; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in constructing an adjustable pipe-wrench, the inner or "biting" jaw of which may be removed and substituted by a cutter, at pleasure, and in so arranging and combining the various parts as to secure perfect action in the whole, whether used as wrench or cutter, at moderate cost of manufacture, without extra weight or liability to breakage.

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

Figure No. 1 represents the wrench, with the lower jaw or holding-bar C C in its place.

K, a spring which keeps the holding-bar C C in place, yielding to a slight outward motion of the bar C C while the wrench is being moved backward on the pipe to gain fresh purchase.

B B represent a sliding block, of which a top-end view is shown in Figure No. 3.

This is furnished with a socket, H, for the reception of the lower end of holding-bar C C or cutter-bearing D, (shown in Fig. No. 2.)

The block B B is moved up and down on the stock G by means of the clutch-nut *a a*, which is supplied with the arms I I.

Figure No. 2 represents a perspective view of the cutter E, which works on the pivot M in the bearing D.

N shows a hollow handle, into which the cutter-bearing D or holding-bar C C may be placed.

P, cap, fastened on by screw-thread R.

It will be observed that pipes of various sizes may be turned, or (with slight alteration in the tool, which alteration may be made instantly,) cut with the same instrument.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The movable holder C and cutter-bearing D, socket H, and hollow handle N, in a wrench and cutter, arranged as shown and described.

R. A. COPELAND.

Witnesses:

W. H. HAYWARD,
I. J. MCPHAIL.