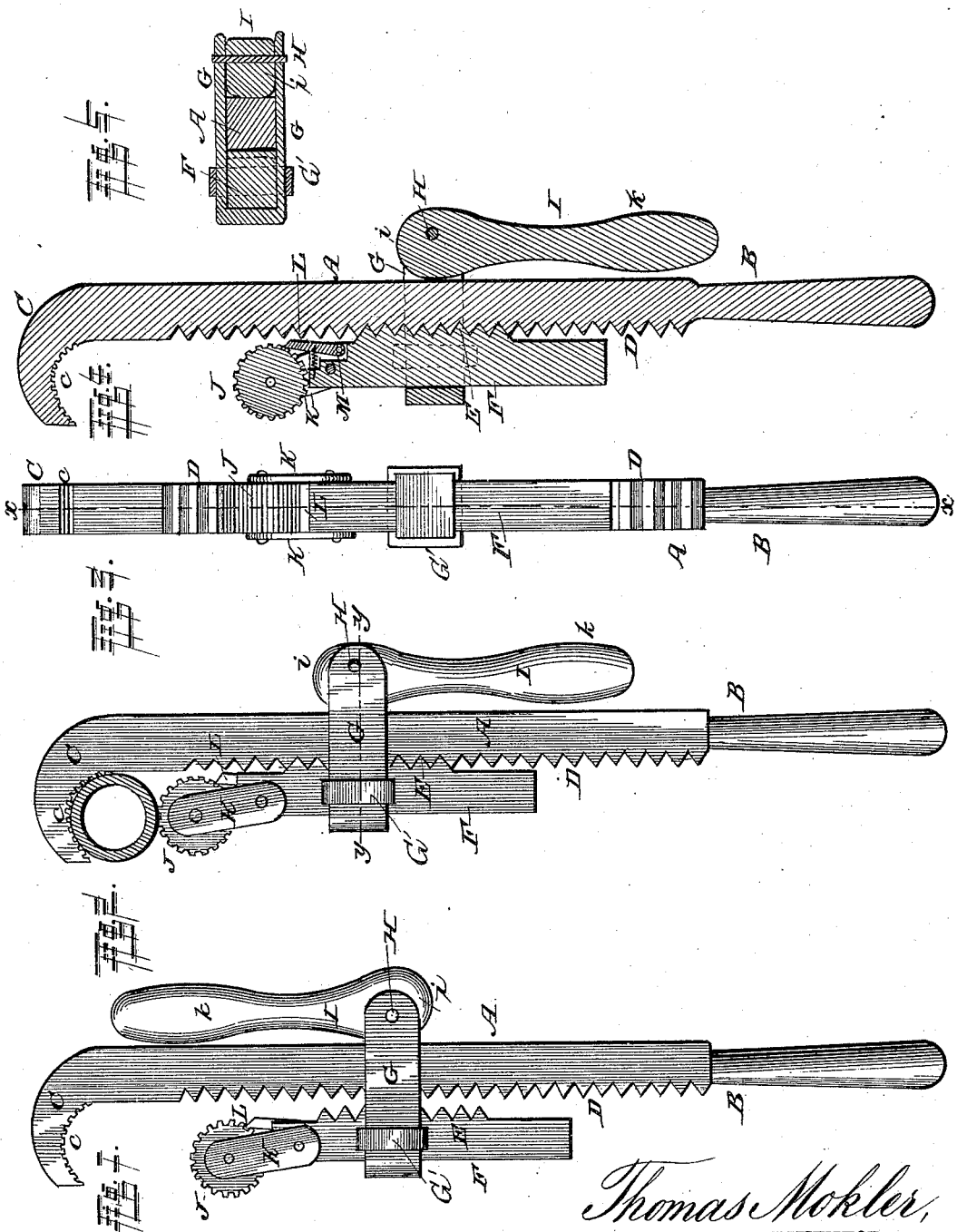
(No Model.)

T. MOKLER.

PIPE WRENCH.

No. 302,760. Patented July 29, 1884.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS MOKLER, OF LUDINGTON, MICHIGAN.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 302,760, dated July 29, 1884.

Application filed April 3, 1884. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MOKLER, a citizen of the United States, and a resident of Ludington, in the county of Mason and State of Michigan, have invented certain new and useful Improvements in Pipe-Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved pipe-wrench, showing it as adjusted ready to be placed upon the pipe. Fig. 2 is a similar view showing the wrench in position on the pipe. Fig. 3 is an edge or end view of the device. Fig. 4 is a longitudinal sectional view through line *x x* in Fig. 3, and Fig. 5 is a cross-section through line *y y* in Fig. 2.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to pipe-wrenches; and it consists in the improved construction and combination of parts of the same, which will be hereinafter more fully described and claimed.

In the accompanying drawings, A denotes the stock of my improved pipe-wrench, having a handle, B, at its lower end, while its upper end is bent to form the curved lip or jaw C, which is ribbed or serrated, as shown at *c*, on its under side, to adapt it to bite the pipe on which the wrench is used. The inner side of the stock has a row of notches forming projecting teeth D, which are adapted to engage the teeth E on a bar, F, adapted to slide up and down upon the stock A, to which it is attached by means of parallel arms G, the outer ends of which are united by a bolt, H, which forms a fulcrum for the cam-lever I, and which arms are rigidly secured to the movable bar by means of a band, G′, passing through the arms and bar, or by any other suitable means. The latter consists of the eccentric *i* and handle *k*, and when the handle is placed in the position shown in Fig. 1 it will be seen that bar F may be readily moved up or down upon the stock A, thus bringing its upper end or head up against the pipe. This being done, bar F is locked in its proper position by turning handle *k* down into the opposite position shown in Fig. 2, which causes the eccentric or cam *i*, by bearing against the back part of the stock, to draw the toothed bar F up against the teeth E on the stock, thus firmly interlocking the fixed stock A and sliding bar F in their proper position for engaging the pipe.

At the upper end of the sliding bar F is a ribbed or serrated roller, J, supported in bearings K on opposite sides of bar F. After the proper purchase has been obtained upon the pipe, this roller J is prevented from turning in the direction of the stock A by means of the spring-actuated pawl L, which is fixed in the upper part of the sliding bar F in a recess, M, provided therein for its reception.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, in a pipe-wrench, of the stock A, having bent lip or jaw C and teeth D, sliding bar or jaw F, having teeth E, and parallel projecting arms G G, cam-lever I, roller-bearings K K, serrated roller J, and spring-actuated pawl L, the whole constructed and combined to operate in the manner and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

THOMAS MOKLER.

Witnesses:

ENOCH W. MARSH,

HIRAM A. SUTHERLAND.