L. EGGLESTON.

Machine for Polishing the Inner Surface of Tubes.

No. 71,471. Patented Nov. 26, 1867.

Fig: 1.

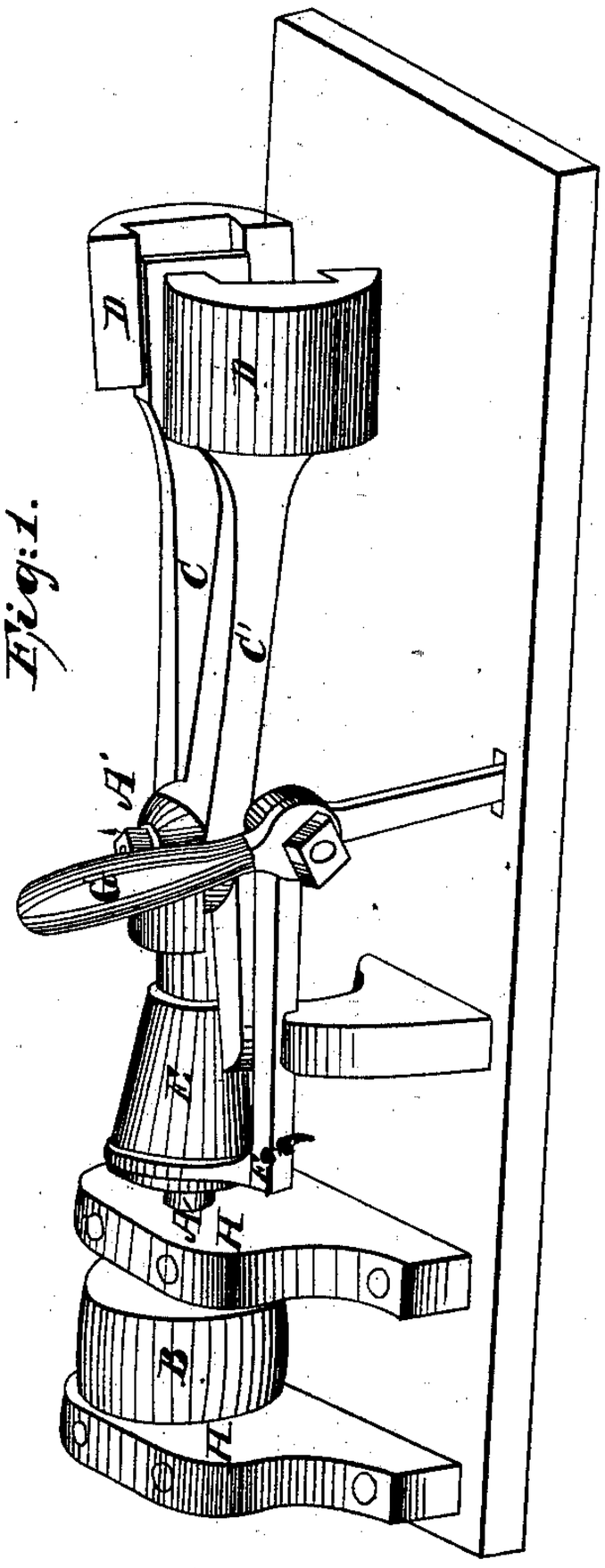
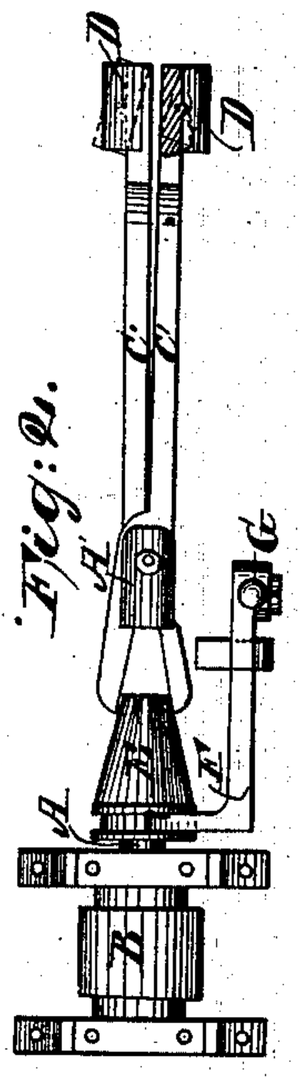


Fig: 2.



Witnesses:

Chas. H. Clausen

Lawrence Murphy.

Inventor:

Leonard Eggleston

by

D. C. Hollinayoke

his attys.

United States Patent Office.

LEONARD EGLESTON, OF SENECA FALLS, NEW YORK, ASSIGNOR TO RUMSEY & CO., OF THE SAME PLACE.

Letters Patent No. 71,471, *dated November* 26, 1867.

IMPROVEMENT IN MACHINE FOR POLISHING INNER SURFACE OF TUBES.

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, LEONARD EGLESTON, of Seneca Falls, in the county of Seneca, and State of New York, have invented a new and useful Improvement in Machines for Polishing the Inner Surfaces of Metallic Tubes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, in which—

Figure 1 is a perspective view, and

Figure 2 a top view.

The same letters are employed in both the figures in the indication of identical parts.

A is the shaft, supported upon pillow-blocks H H. This shaft may be driven at any required speed by the pulley B, or by gearing. One end of the shaft projects beyond the pillow-block, and terminates with a head, A′, fitted to receive the crossed levers C C′, which are attached by a pivot to the head A′ in such manner as to open like a pair of blacksmith's tongs. On the end of the long arm of these levers semi-cylindrical polishing-stones or emery-blocks are fastened by pivots, so as to allow them a slight longitudinal oscillation, sufficient to permit them to conform their polishing-surfaces to the taper of conical tubes, and to bring the whole surface in contact with the face of the tube. E is a cone sliding upon the shaft A, between the short arms of the crossed levers C C′. This cone may be moved along the shaft by means of the yoke F, operated by the lever G. By the action of the hand upon this lever the cone may be pressed between the levers, forcing them apart, and pressing the polishing-stones or emery-blocks against the inside of the tubes.

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

1. The combination of the shaft A, sliding cone E, crossed levers C C′, and polishers D, substantially as described.

2. The combination of the lever G, yoke F, shaft A, cone E, and crossed levers C C′, substantially as and for the purpose set forth.

3. The combination of the crossed levers C C′ and polishers D, when the latter are attached by a pivot, so as to permit their longitudinal oscillation, substantially in the manner and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LEONARD EGLESTON.

Witnesses:

JOSEPH H. KNIGHT,

HORACE N. RUMSEY.