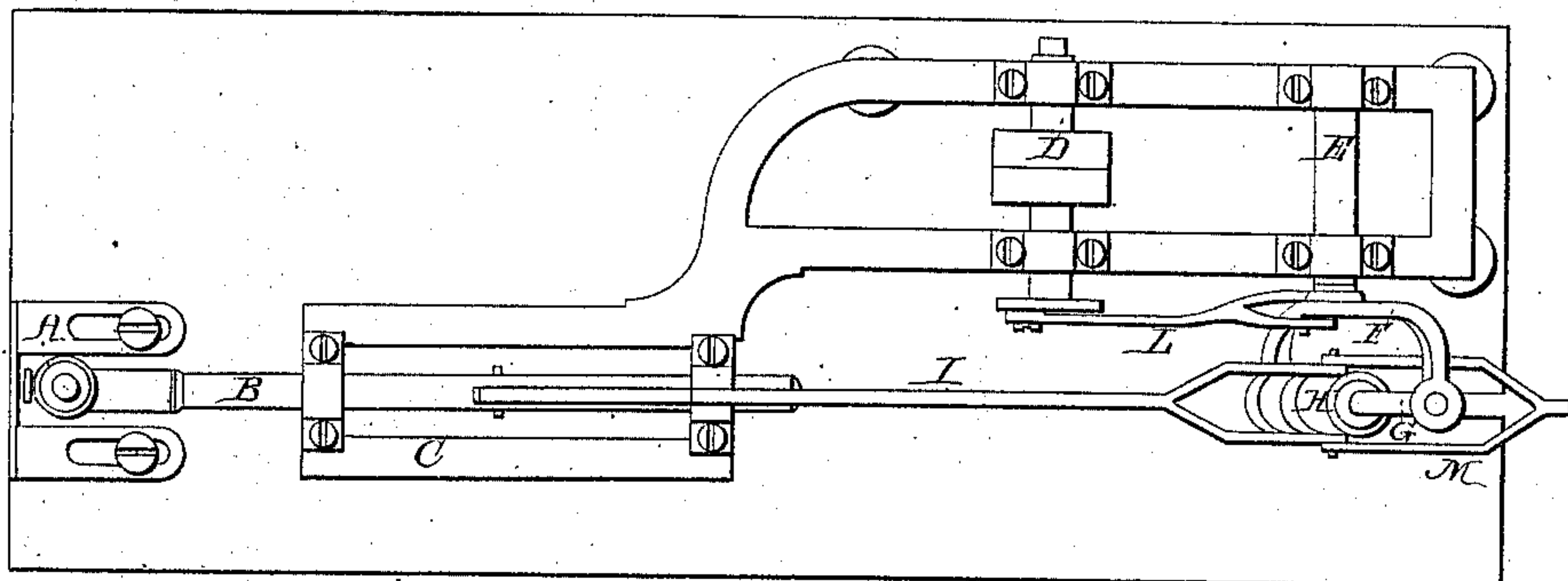


*J. Stever,*  
*Burnishing Metals.*

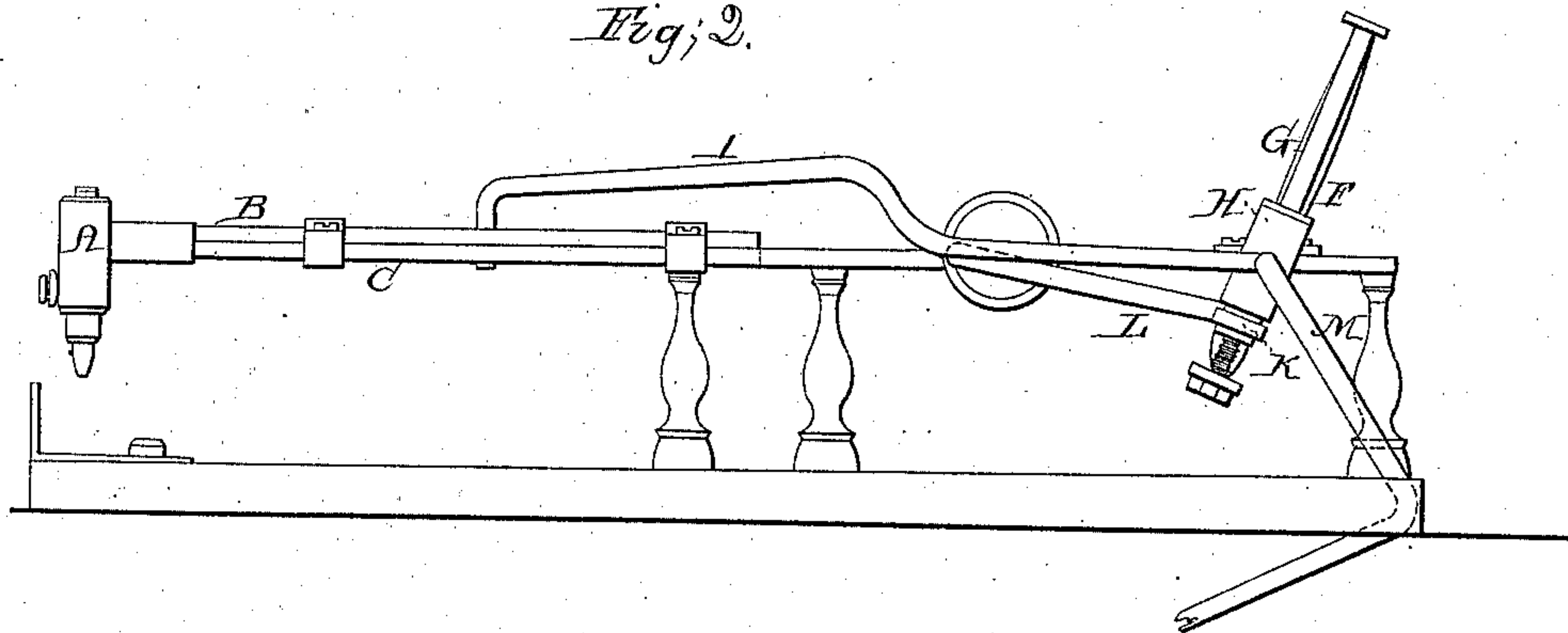
*N<sup>o</sup> 12,799.*

*Patented May 1, 1855.*

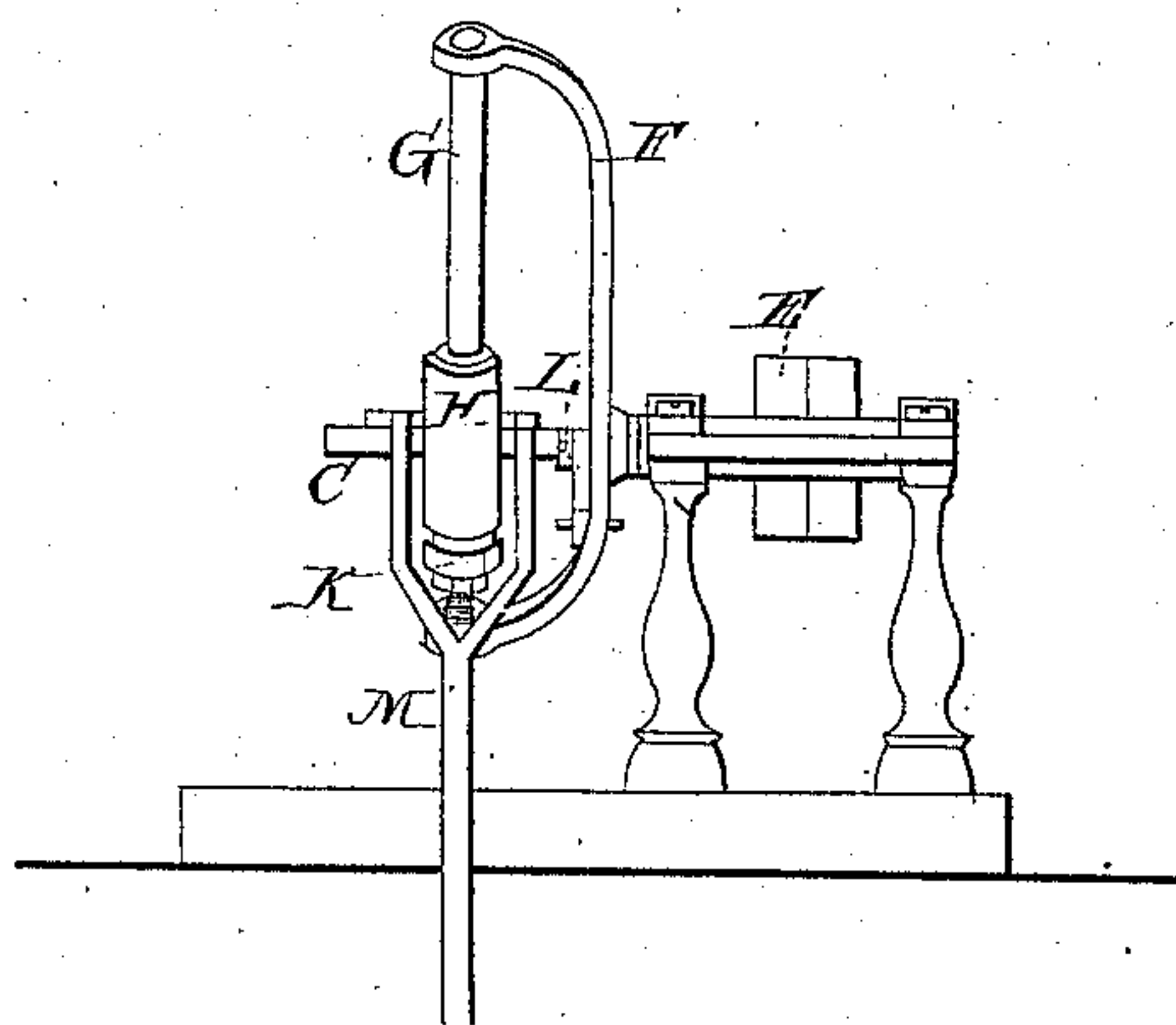
*Fig; 1.*



*Fig; 2.*



*Fig; 3.*



# UNITED STATES PATENT OFFICE.

JEREMIAH STEVER, OF BRISTOL, CONNECTICUT.

## IMPROVEMENT IN MACHINES FOR BURNISHING METALS.

Specification forming part of Letters Patent No. 12,799, dated May 1, 1855.

*To all whom it may concern:*

Be it known that I, JEREMIAH STEVER, of Bristol, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement or Machine for Burnishing Metals or Articles Composed of Metal or other Material; and I do hereby declare that the same is fully described and represented in the following specification and the accompanying drawings, letters, figures, and references thereof.

In the said drawings, Figure 1 is a top view, and Fig. 2 a side elevation, and Fig. 3 an end elevation, of my said machine.

In the said drawings, A denotes a burnishing-tool fixed to a horizontal slide-bar, B, supported by a frame, C. Such frame carries two horizontal shafts, D E, the latter of which is a rocker-shaft, while the former is the driving-shaft of the machine. The said rocker-shaft has a bow or stirrup, F, affixed to one end of it, and formed of two curved arms extending in opposite directions from the axis of the shaft, and united together at their outer ends by a rod, G, on which is placed a slider, H. Jointed to this slider and the slide B is a connecting-rod, I, the joints of the same and the slider H being arranged so that when the slider is depressed far enough on the rod G they may be brought into line with the axis of the rocker-shaft E. When in such position, the slide is sustained upon a screw-nut, K, screwed upon the rod G. The stirrup is connected to the driving-shaft by means of a rod, L, which is so applied to the driving-shaft and the stirrup as to cause the shaft E to have a rocking or reciprocating rotary motion produced by a continuous rotary motion of the driving-shaft. The slider H is raised or lowered upon the rod G by means of a fork, M, which, if necessary, may be made to extend

upward from a treadle placed under the machine.

By means of the mechanism above described the burnisher may not only have a reciprocating movement imparted to it, but such movement may be either arrested or regulated, as occasion may require, while the rocker-shaft is in movement.

In burnishing metallic articles, and particularly those that are ornamented, it often becomes necessary to employ a very short movement of the burnishing-tool, and at the same time to impart to the tool a very rapid movement. With my machine all this can be effected, the extent of motion of the tool being regulated or entirely arrested, while the main part of the machinery which effects the movement of the tool still continues in action.

The immense importance of a burnishing-machine made to operate in the above-described manner can only be estimated by persons skilled in the art of burnishing metallic articles, and particularly those more or less covered with ornaments in relief or sunk below their surfaces.

What I claim as my invention is—

The arrangement of the connecting-rod I, of the burnishing-slider B, the rocker-shaft E, the slider H, the rod G, and the bow or stirrup F, whereby the movement of the burnisher may not only be entirely arrested while the rocker-shaft is in motion, but may have given to it such an extent of reciprocating movement as occasion may require.

In testimony whereof I have hereunto set my signature this 30th day of September, A. D. 1854.

JEREMIAH STEVER.

Witnesses:

ELIJAH DARROW,  
HENRY A. MITCHELL.