

M. Spenlé,
Machine for Finishing Lasts,
No. 60, 047, Patented Dec. 18, 1866.

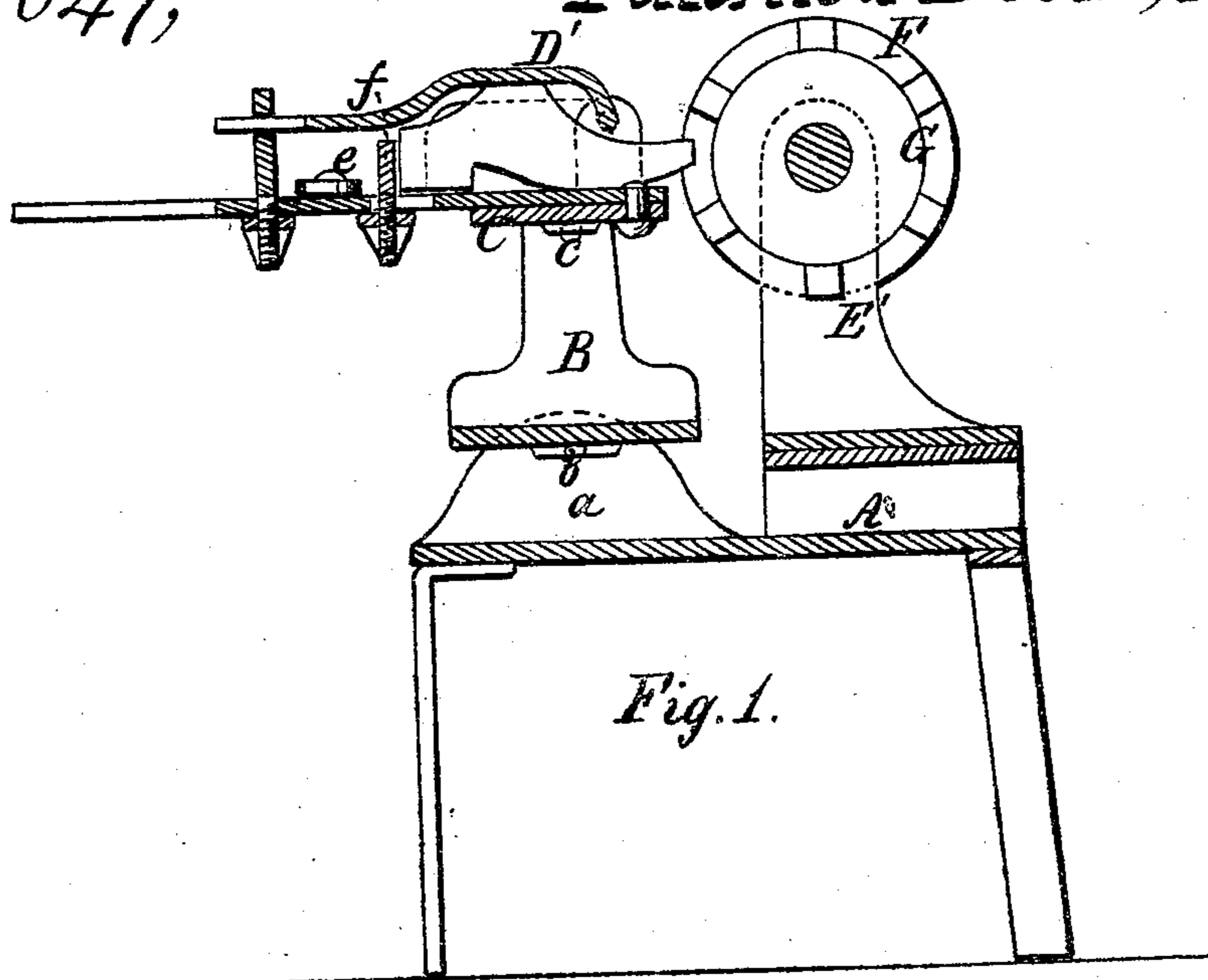
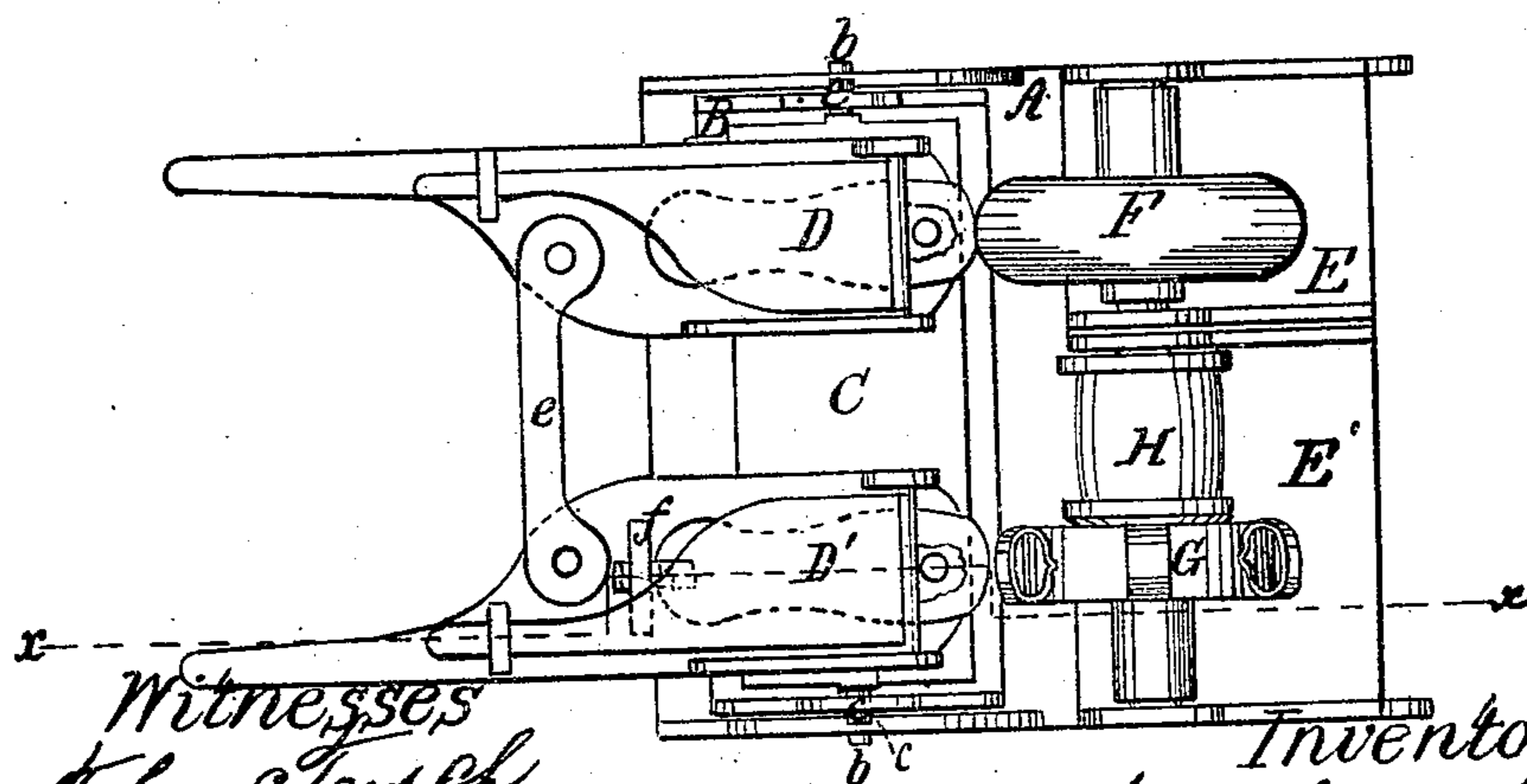


Fig. 2



Witnesses
J. H. Truick
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Mathias Spenlé
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IMPROVEMENT IN WOOD-TURNING LATHES.

MATHIAS SPENLE, OF DETROIT, MICHIGAN.

Letters Patent No. 60,647, dated December 18, 1866.

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, MATHIAS SPENLE, of Detroit, in the county of Wayne, and State of Michigan, have invented a new and improved Machine for Finishing Lasts; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same; reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a longitudinal vertical section of this invention, the line *xx*, fig. 2, indicating the plane of section.

Figure 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a machine which is intended to finish the toes and heels of lasts, as the same are received from the last-turning machine. It consists of a vibrating head containing two adjustable clamps, which are connected together and one of which is intended to receive the pattern last, while the other receives the last to be finished. This head stands opposite to a double spindle-stock, one part of which carries the guide-wheel and the other the cutter-wheel. As the pattern last is pressed up against the guide-wheel, the cutters act on the last to be finished and the toe and heel of this last are worked down in exact conformity with the pattern last.

A represents a frame, made of iron or any other suitable material. From this frame rise two lugs, *a*, which form the bearings for the gudgeons, *b*, on which the head, B, swings and this head forms the bearings for the gudgeons, *c*, of a platform, C. To this platform are attached, by pivots *d*, two clamps, D D', which are connected by a link *e*, so that if one of the clamps is made to turn or swing on its pivot the other is compelled to follow. The clamp, D', which is to contain the last to be finished, is provided with an adjustable stop or abutment *f*, whereby said last can be readily adjusted in the required position. The pattern last, as well as the last to be finished, is retained in the desired position by suitable clamping-levers and screws or any other convenient means. Opposite the swinging head, B, are two spindle-stocks, E E', firmly attached to the frame A, and placed side by side, as shown in fig. 2 of the drawing. One of these spindle-stocks contains the guide-wheel F, and the other the cutter-wheel G, to which a quick revolving motion is imparted by a belt running over a pulley H or in any other suitable manner. After the pattern last has been properly adjusted in the clamp D, the last to be finished is secured in the clamp D', and by keeping the toe part of the pattern last in contact with the guide-wheel, the toe part of the last in the clamp, D'; is finished, and, in the same manner, the heel is brought down to the desired shape. By this arrangement the toes and heels of all lasts of the same size become uniform, and the operation of finishing said lasts can be performed with great ease and without requiring particular skill or attention.

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

1. The arrangement of two clamps which are coupled together, one to contain the pattern last, and the other the last to be finished, in combination with the guide-wheel F, and cutter-wheel G, constructed and operating substantially as and for the purpose described.

2. The swinging head B, and adjustable platform C, carrying the clamps D D', in combination with the guide-wheel and the cutter-wheel, substantially as and for the purpose set forth.

The above specification of my invention signed by me this 1st day of October, 1866.

MATHIAS SPENLE.

Witnesses:

WM. F. McNAMARA,
W. HAUFF.