

J. P. Molliere.

Dressing Shoe Soles.

N^o 13,854.

Patented Nov. 27, 1855.

Fig. 1.

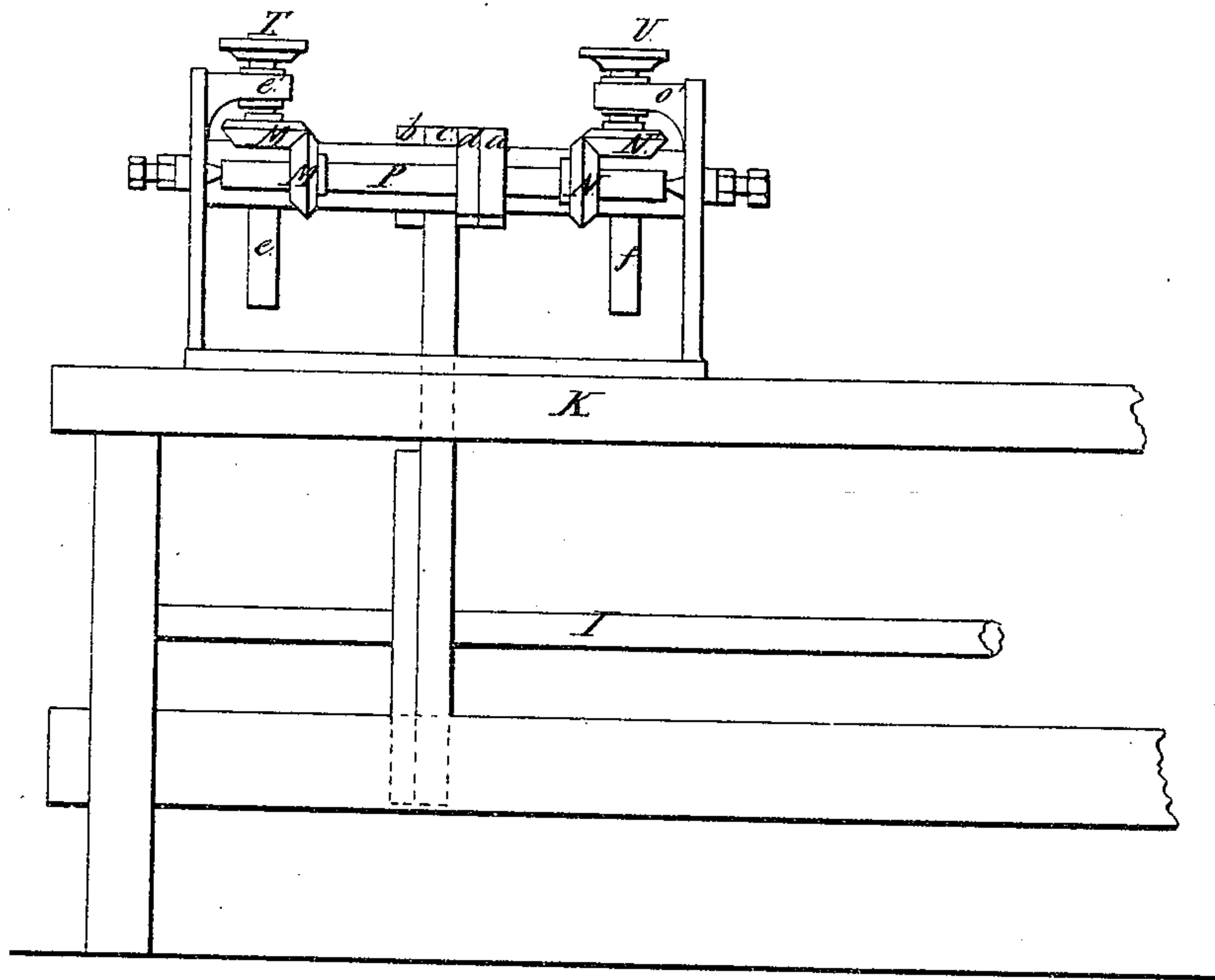
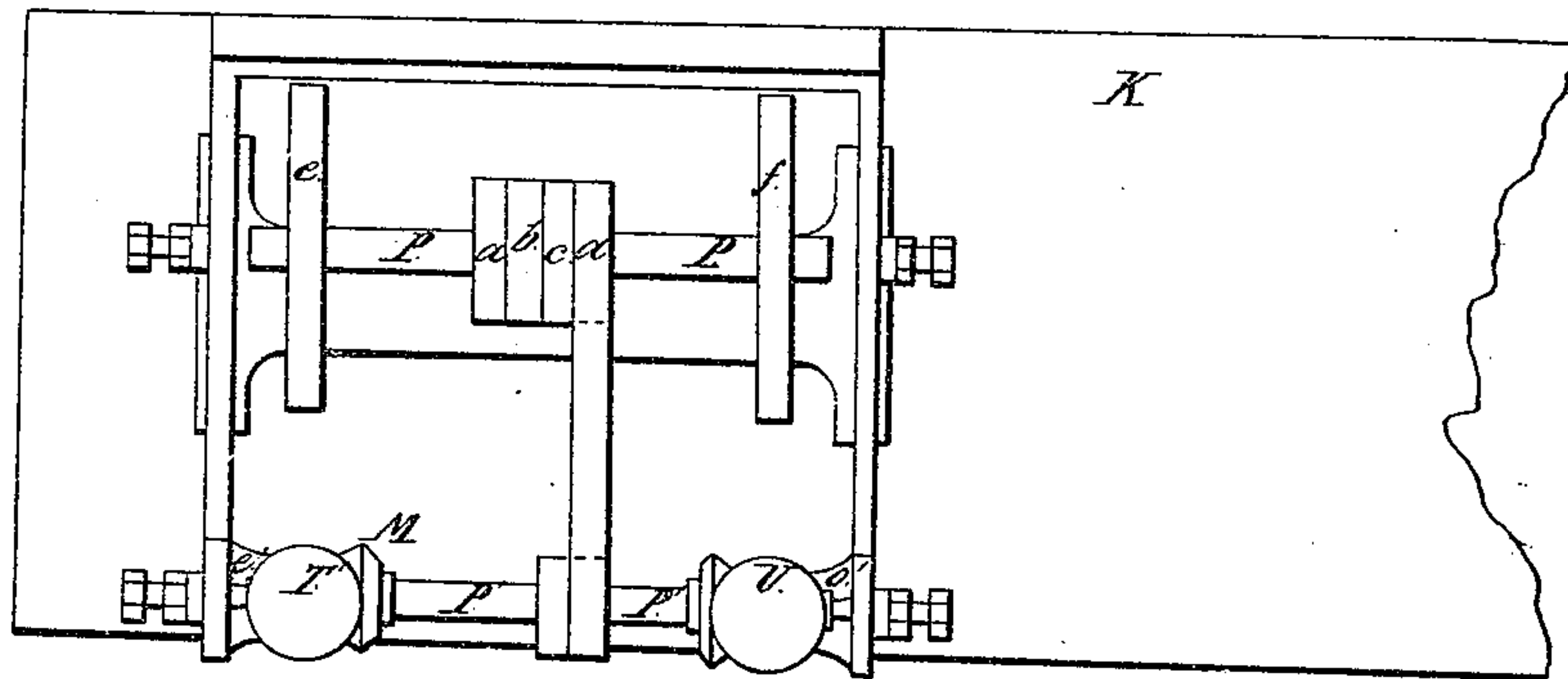


Fig. 2.



Witnesses.

L. Terquil.

J. Bonin.

Inventor.

Molliere

Sheet 2, 2 Sheets.

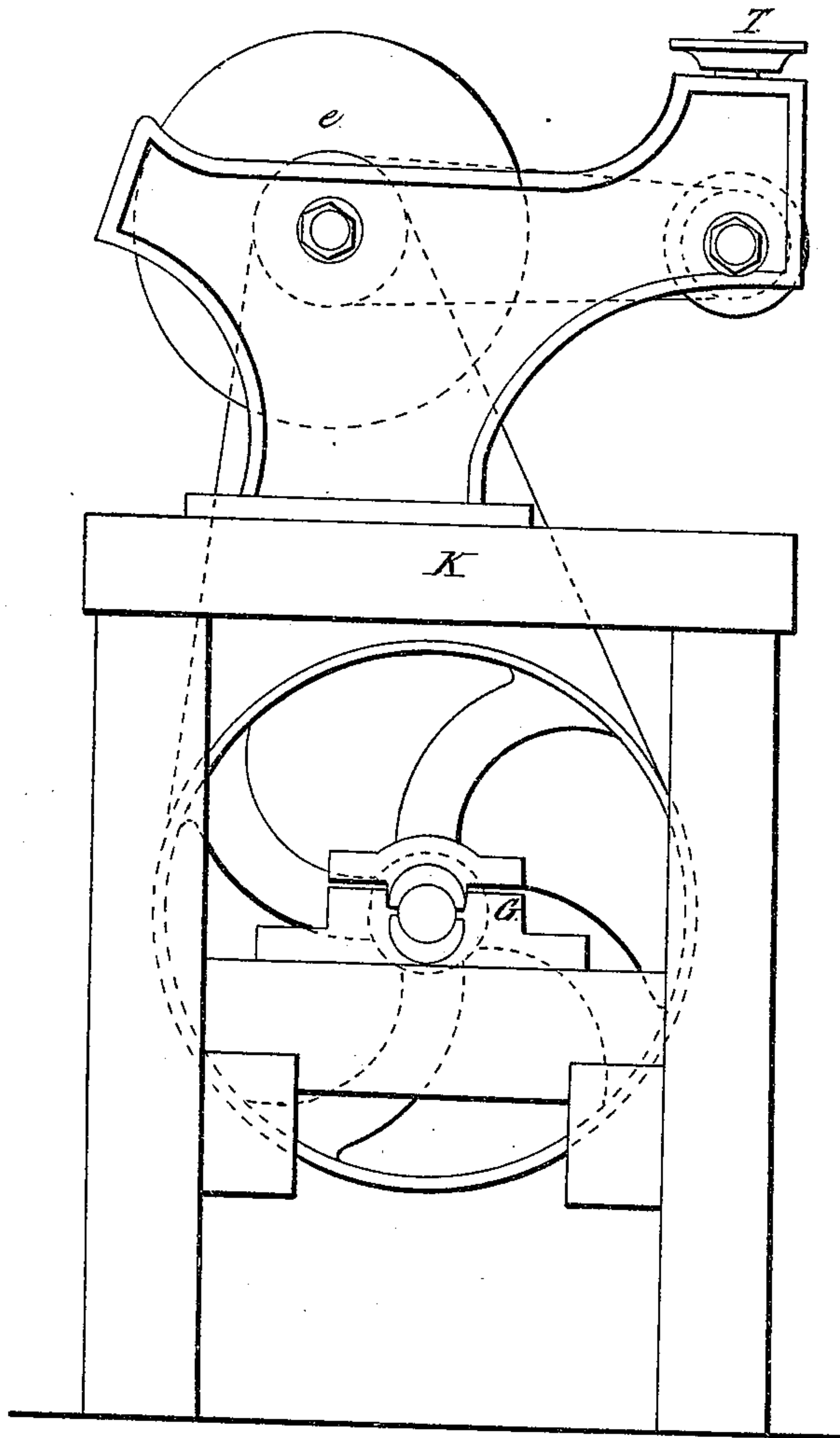
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Fig. 3.



Witnesses.

L. Fergue.
J. Boning.

Inventor
Molliere

UNITED STATES PATENT OFFICE.

JEAN PIERRE MOLLIÈRE, OF LYON, FRANCE.

MACHINE FOR RASPING AND DRESSING THE HEELS AND SOLES OF BOOTS AND SHOES.

Specification of Letters Patent No. 13,854, dated November 27, 1855.

To all whom it may concern:

Be it known that I, JEAN PIERRE MOLLIÈRE, of Lyon, in France, have invented a new and useful Machine for Rasping and Dressing the Bottoms of Heels and Soles of Boots and Shoes, being the second one of a series of apparatus for cutting, paring, rasping, &c., the edges and bottoms of heels and soles, covered by a French patent of date 10 January 5, 1855, issued to me; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making 15 a part of the specification, in which—

Figure 1 is a longitudinal section; Fig. 2 a top view, and Fig. 3 a cross section, and in which the letters referring to the several parts, thereof, are explained below.

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

The apparatus or machine for rasping and dressing the bottoms of heels and soles of 25 boots and shoes, consists of a board K, mounted upon wooden feet. On the top of this board there is fastened by bolts a frame of cast iron, in a single piece, consisting of two uprights, connected by a ground sill 30 and by two cross ties. This frame carries, in addition, two bearers, with their pillows and their caps. On the inside of this frame are screwed four bolts, having hardened steel points, with counter nuts, for preventing 35 them from getting loose; upon these points turn the shafts P and P'. The shaft P carries near its ends two circular tools, *e*, *f*, cut like files or otherwise, and, in addition thereto, about the middle, four pulleys *a*, 40 *b*, *c*, *d*, two of which *a*, *c*, are fast, and two *b*, *d*, loose; two of these pulleys *a*, *b*, receive their movement from the driving shaft L, and the pulleys *c*, *d*, transmit it to the pulleys of the shaft P'. Upon the shaft P' 45 are fastened two bevel wheels M, N, gearing

with the pinions of the same form attached to the two other shafts, turning vertically in the bearers *e'*, *o*, of the frame. Each one of these shafts carries, on the top of it, a circular tool T', U, cut like files on their 50 face, or otherwise. Under the bench K, and in the direction of its length, are formed the bearers Q Q, in which turns the shaft L, which receives its movement from the action of the driving shaft, and transmits it to the 55 shafts of any number of the machines. The tools *e*, *f*, T', U are prepared in four different ways. The tool *e* is cut like a file. The tool *f*, which is of wood, is used, with emery upon its rim. The tool T' is cut like knife- 60 edges, or knife-edges are secured thereon. The tool U is used with pounded glass on its top, which is of wood.

To use these tools the workman holding the boot or shoe, in both hands, by the ends 65 thereof, applies the bottom of the sole first to the tool *e*, and the bottom of the heel first to the tool T'. These tools take off very rapidly (for all of them turn with great velocity) the rough parts of the leather and 70 the jags of the nails. You then apply the sole to the tool *f* and the heel to the tool U, and the dressing is effected. The tools may be geared, so as to run either horizontally, 75 vertically or angular.

What I claim as my invention, and desire to secure by Letters Patent of even date with the French patent for the same invention, is—

The circular tools *e*, *f*, T', and U, with 80 rasping and depressing faces, revolved on horizontal, vertical, or angular axes, for the purpose of rasping and dressing the bottoms of heels and soles of boots and shoes, the whole constructed and operated substan- 85 tially as herein described.

J. P. MOLLIÈRE.

Witnesses:

W. G. SNESHEA,
L. A. MOISELL.