(No Model.) 2 Sheets—Sheet 1.

H. F. ROONEY.

MACHINE FOR FILING SHOE HEELS.

No. 292,363. Patented Jan. 22, 1884.

Fig. 1.

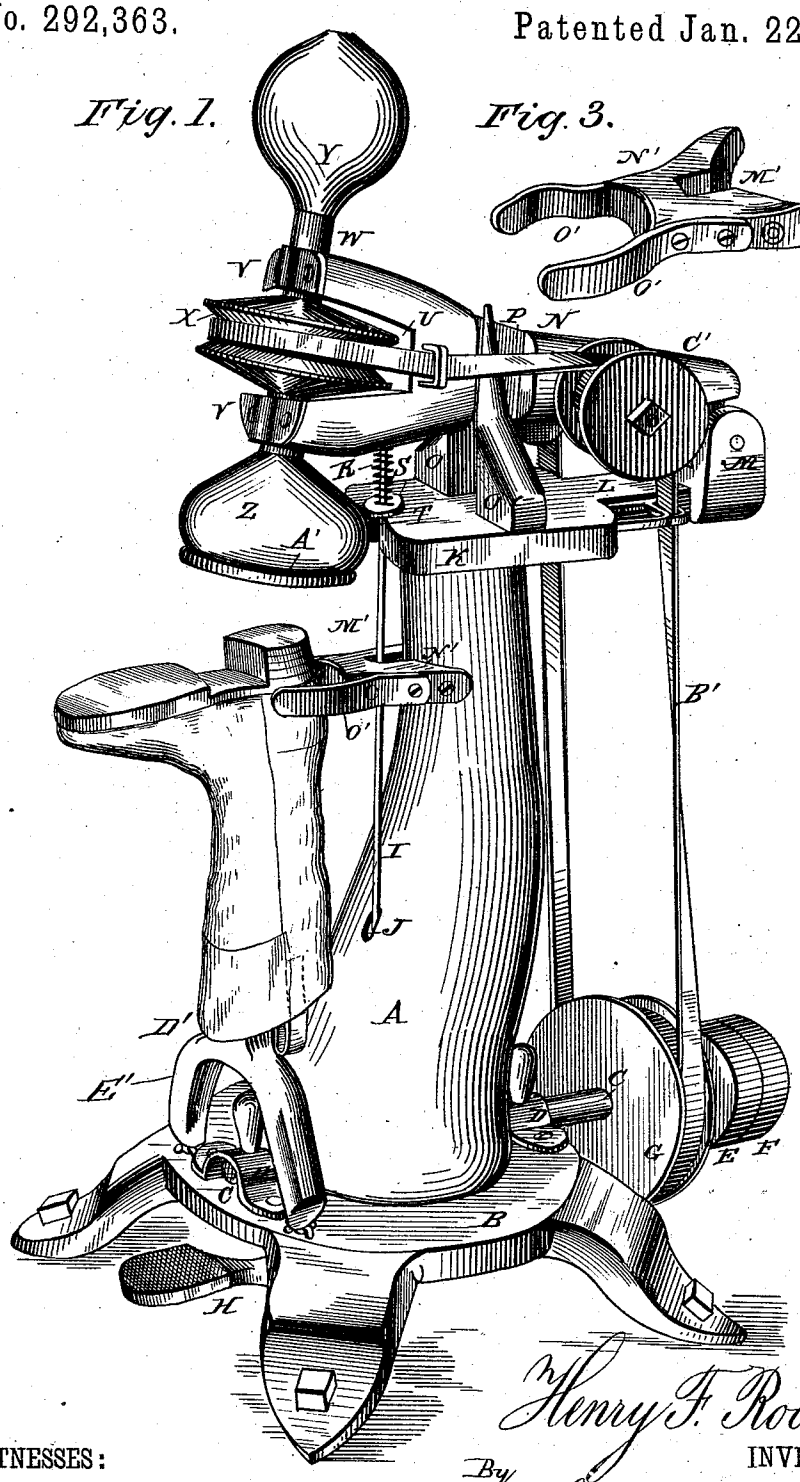


Fig. 3.

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

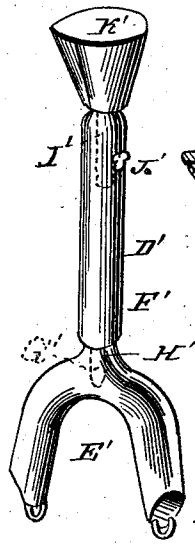
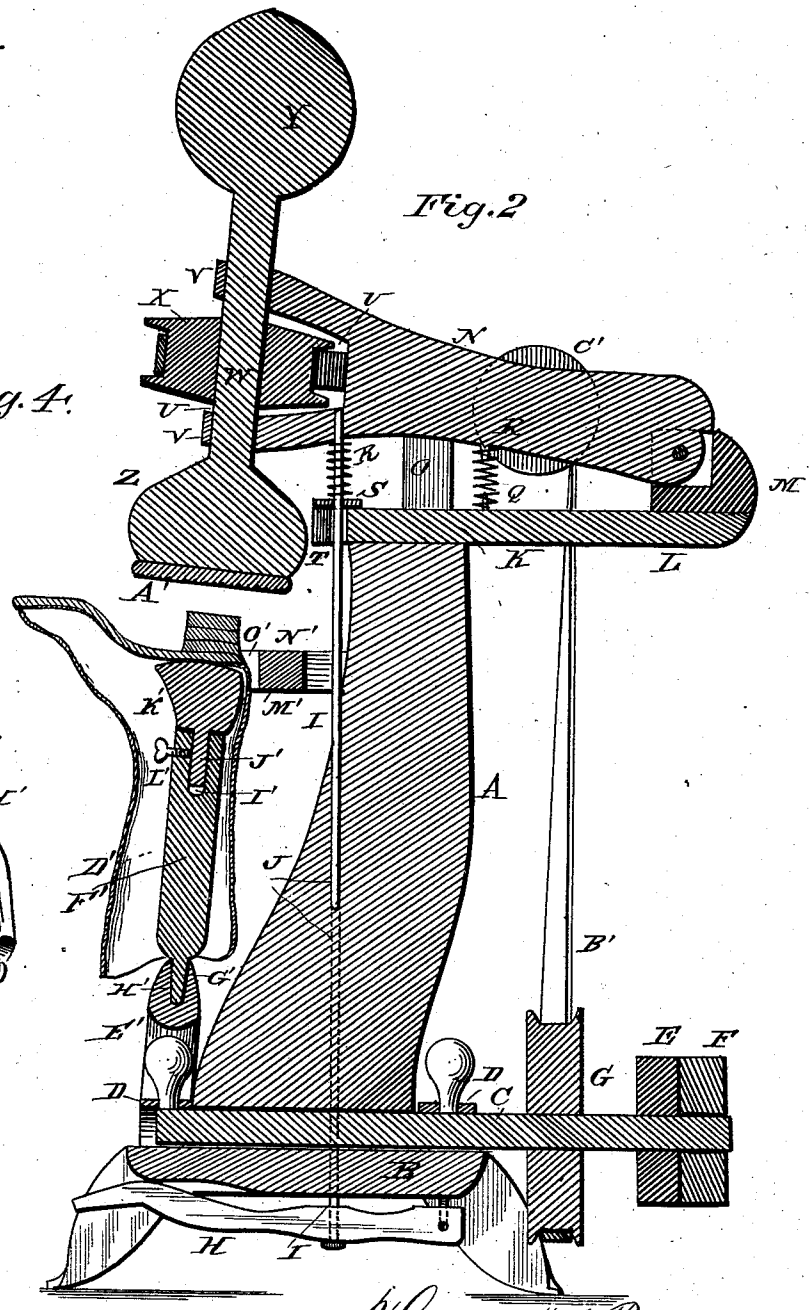


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY F. ROONEY, OF RANDOLPH, MASSACHUSETTS.

MACHINE FOR FILING SHOE-HEELS.

SPECIFICATION forming part of Letters Patent No. 292,363, dated January 22, 1884.

Application filed November 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. ROONEY, of Randolph, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Machines for Filing Shoe Heels and Bottoms; 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 perspective view of my improved machine for filing the heels and bottoms of shoes. Fig. 2 is a vertical section of the same. Fig. 3 is a detail view of the shoe-holding clamp, and Fig. 4 is a view of the shoe-jack.

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

My invention has relation to machines for filing or grinding the heels and bottoms of shoes and boots; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates an upright post mounted upon a base, B, and forming a transverse perforation at the point where it is connected to the base for a shaft, C, turning in bearings D upon the upper surface of the base. This shaft is provided with a rigid and a loose pulley, E and F, upon its outer end, which pulleys may be rotated by the driving-power, and with a pulley, G, a short distance inside the fast and loose pulleys. A treadle, H, is pivoted at its inner end to the under side of the base-plate, projecting at the front of the same, and the lower end of a rod, I, is hinged to the said treadle, passing up through a vertical perforation, J, in the upright post or column, and sliding in the same. The upper end of the post or column forms a table, K, having a rearwardly-projecting arm, L, forming upwardly-projecting lips M upon its outer end, between which the end of an arm, N, is pivoted, which arm is guided to move in a vertical plane by means of two upright guides, O, fitting into two recesses, P P, one upon each side of the arm at about its middle. The upper end of the vertically-sliding rod is secured to the under side of this arm near its outer end, and the arm being raised by means of spiral springs Q, near its rear end, and R, around the upper end of the sliding rod, bearing with its lower end against a washer, S, resting upon the edges of a notch, T, in the front edge of the table, may be depressed by depressing the treadle. The outer end of the arm has a horizontal longitudinal slot or recess, U, and the outer edges of the lips V, formed by the said recess, are provided with two vertical bearings, in which turns a shaft, W, provided with a pulley, X, fitting between the lips into the recess, with a weight, Y, at its upper end, and with a bell or cone shaped block, Z, at its lower end, the under side of which block is plane, and provided with a circular file or grinding-disk, A′. A belt, B′, passes over the inner pulley upon the lower horizontal shaft, over two guide-pulleys, C′, one upon each side of the hinged arm near its fulcrum, and over the pulley upon the grinder-shaft, so that the grinder-disk may be revolved by the lower horizontal shaft. A shoe-jack, D′, is hinged upon the base near its front edge, consisting of a lower bifurcated end, E′, which is hinged to the base, and straddles the bearing of the lower shaft, a central portion, F′, turning with its lower reduced end, G′, in a bore, H′, in the top of the bifurcated end, and having an axial bore, I′, in its upper end, in which the lower reduced end, J′, of the foot K′, of the jack slides, and is secured by a set-screw, L′. The boot is placed upon this jack, and a clamp, M′, consisting of an inner block, N′, having its forward edge slightly concaved, and two slightly inwardly-curved springs, O′, serves to clamp the counter of the same and hold it in place when the grinder-disk is brought to bear against the heel or sole of the shoe by depressing the treadle.

It will be seen that the shoe-jack by its construction may be adjusted to hold the boot in any position and at any height, and that the belt driving the grinder-shaft will be tightened when the arm is depressed, overcoming the increased friction by the grinder-disk bearing against the bottom of the shoe, and that the heel of the shoe, being held perfectly true by the clamp holding the shoe, will be ground perfectly true by the disk.

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

1. The combination of an adjustable hinged shoe-jack, a clamp consisting of an inner block and two forwardly-projecting inwardly-curved springs, and a grinding-disk adapted to be brought down to turn in a horizontal plane, as and for the purpose shown and set forth.

2. The combination of an upright frame, a shoe-jack hinged at its lower end to the lower end of the frame, a clamp secured near the upper end of the frame, an arm hinged at one end upon the upper end of the frame, forming a bifurcated arbor at its outer end, swinging between vertical guides, and adapted to be depressed by a treadle, a shaft turning in vertical bearings in the arbor, having a bell-shaped grinding-block at its lower end, a weight at its upper end, and a pulley at its middle, and a belt passing over said pulley, over suitable guide-pulleys, and over a drive-pulley, as and for the purpose shown and set forth.

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

HENRY F. ROONEY.

Witnesses:

PETER B. HAND,

JOHN T. HAND.