H. O. CHENEY.

Machinery for Cutting Pegs from Boots and Shoes.

No. 199,790. Patented Jan. 29, 1878.

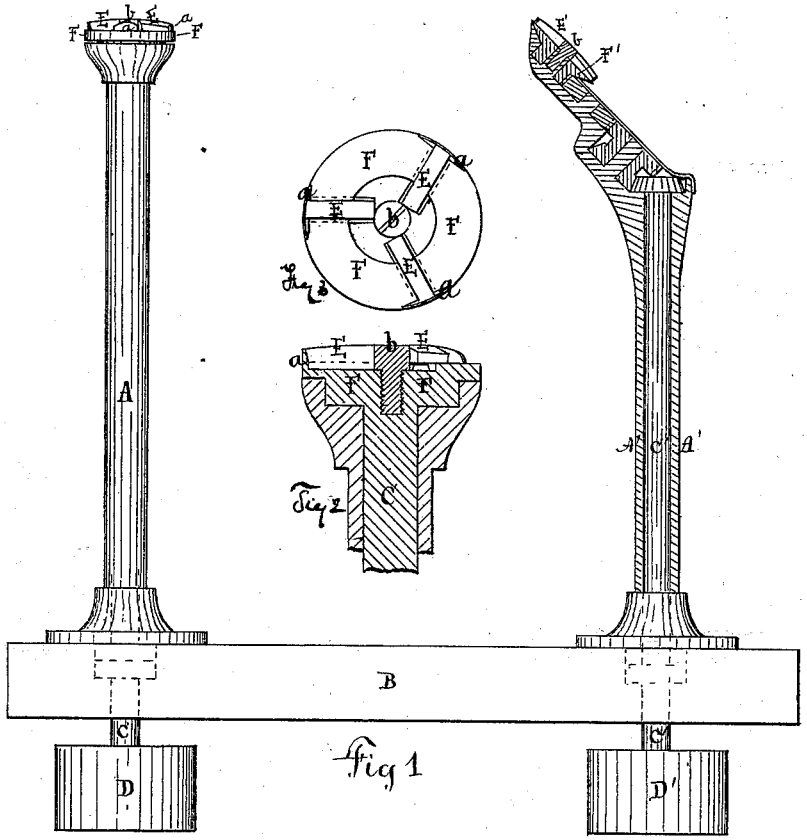

Fig 1

Fig 2

Witnesses

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UNITED STATES PATENT OFFICE.

HENRY O. CHENEY, OF HOPKINTON, MASSACHUSETTS, ASSIGNOR TO LOUIE K. HUTCHINSON, OF SAME PLACE.

IMPROVEMENT IN MACHINERY FOR CUTTING PEGS FROM BOOTS AND SHOES.

Specification forming part of Letters Patent No. **199,790**, dated January 29, 1878; application filed May 7, 1875.

To all whom it may concern:

Be it known that I, HENRY O. CHENEY, of Hopkinton, in the county of Middlesex and State of Massachusetts, have invented an Improved Machine for Cutting Pegs out of Boots and Shoes, of which the following is a specification:

My invention relates mainly to the construction of the cutters and their guards; and consists principally in the combination, with the cutters, of certain guards, more fully described below.

A minor feature of my invention consists in the manner of securing the knives in the cutter-head.

In the drawings, Figure 1 is an elevation, partly in section, of two of my machines, one adapted to the fore part and the other to the heel part of the shoe. The other figures show details of construction.

A or A′ is an upright, firmly secured to the bench B. In this upright there is a shaft, C or C′, which is revolved rapidly by the pulley D or D′. The shaft A is secured to the cutter-head F, so that the latter will revolve with the shaft. The shaft A′ is connected to its cutter-head F′ by means of the gearing shown in the drawings. At the outer extremity of the cutters are arranged guards *a a*, whose upper edges are on a level with the edges of the cutters, and which thus serve to prevent the cutters from injuring the leather. These guards extend only a short distance along the periphery of the cutter-head, and thus offer no hinderance to the proper working of the machine; for, when the guard extends entirely around the periphery of the cutter-head, the projecting pegs strike against the guard and make it very difficult to move the shoe properly over the cutters, while if the guards extend only for a short distance along this periphery the projecting pegs pass between the guards, thus wholly obviating this difficulty.

This is the main feature of my invention, and is of such importance as to make my machine the only one which, to my knowledge, is better than the old stationary rasp now in general use; for, although several attempts have been made to introduce machines to do this work, none of them have ever been used to any extent.

Another feature of importance in my machine is that the guards are mounted upon the cutter-head, and thus are constantly changing their position. This greatly facilitates the moving of the shoe over the cutters, and is much the best way of arranging the guards known to me.

The central guard *b* is also new with me, and works well. It would answer alone if made a little wider than is shown in the drawings, and if care were taken to hold the shoe properly; but I much prefer to use it in connection with the outer guards *a a*.

Another feature of my invention is the mode of connecting the cutters with the cutter-head by means of a slot with inclined walls, as shown in the drawings. When thus made either of the cutters can be readily taken out and a new one put in its place. The spindle of the central guard *b* keeps the cutter in place endwise.

What I claim as my invention is—

1. The combination of the series of short outer guards *a a* with the cutter-head F and its cutters, substantially as described.

2. The cutter-head F, having a central opening for its spindle, and slotted, as shown, in combination with the cutters and the spindle, the slots being adapted to receive the cutters endwise, the cutters being adapted to enter the slots endwise, and the spindle acting to keep the cutters in place endwise, the whole combination being as set forth.

HENRY O. CHENEY.

Witnesses:

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