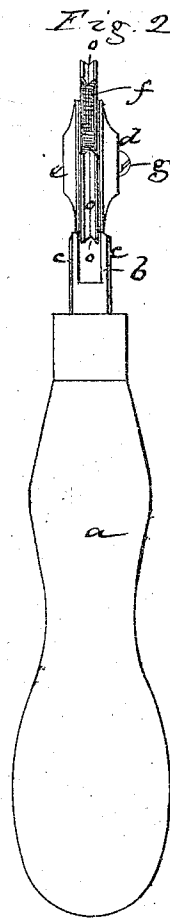
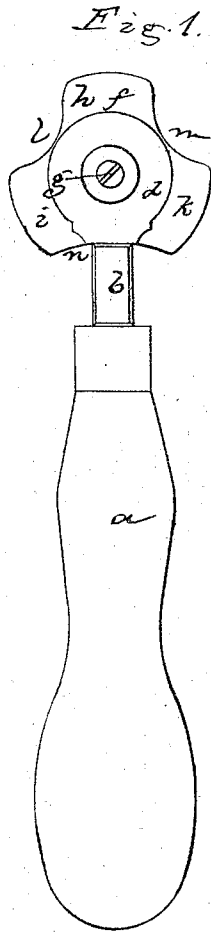


M. J. FERREN.

Welt Edge Burnishing-Tools.

No. 137,903.

Patented April 15, 1873.



Witnesses.
No. W. Frothingham.
L. H. Catimer.

Inventor.
Myron J. Ferren.
By his Atty.
Crosby & Gould

UNITED STATES PATENT OFFICE.

MYRON J. FERREN, OF STONEHAM, ASSIGNOR TO HENRY E. TOWNSEND, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN WELT-EDGE BURNISHING-TOOLS.

Specification forming part of Letters Patent No. **137,903**, dated April 15, 1873; application filed March 8, 1873.

To all whom it may concern:

Be it known that I, MYRON J. FERREN, of Stoneham, in the county of Middlesex and State of Massachusetts, have invented an Improved Welt-Edge Burnishing-Tool; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

The invention relates to the construction of a hand-tool for shaping and burnishing the edges of welts of boots and shoes, the tool being particularly designed for use upon the outer edges of boot-leg welts.

In my invention I use a wheel with a peripheral groove or grooves, having in cross-section the shape to be imparted to the welt-edge; and this wheel I preferably make with several arms having peripheral grooves of varied form or size; and I also prefer to make the wheel of vitreous or ceramic material, the surface of which will not oxidize or impair by oxidation. This wheel I pivot and clamp between two disks or plates at the end of a shank, which extends from the handle, a screw serving to tighten the plates and hold the wheel firmly in position, loosening the screw enabling the wheel to be turned to change the presented burnishing-edge. The invention consists in a tool having this construction.

The drawing represents such a tool. Figure 1 shows a side view of it. Fig. 2 is an edge view.

a denotes a handle, having extending from it a forked shank, *b*, at the end of the two prongs, *c*, of which are two disks or plates, *d* *e*, for receiving the burnisher-wheel *f*. This

wheel (preferably made of glass) has a center hole through which extends a screw, *g*, that passes loosely through the center of the disk *d* and into a nut-thread of the other disk *e*, so that by turning the screw up the disks clamp the wheel tightly between them, they being preferably formed with inner padded surfaces the better to fit against the surfaces of the wheel. In the edge of this wheel is the peripheral groove that straddles the edge of the welt, so that by reciprocating movement and pressure of the tool the welt-edge will be shaped, burnished, and finished. The wheel is shown as cut away or made with recesses *l m n* so as to form arms *h i k*, in the peripheral edge of each of which may be a special groove, *o*, each groove differing in size or shape from the others. By loosening the screw either screw may be brought into the position which the groove of the arm *h* occupies, to form the burnishing-groove.

With a tool thus made welt-edges can be very rapidly and perfectly shaped, hardened, burnished, and finished.

The wheel may be made of metal and coated with nickel or other suitable hard metal, but I prefer a vitreous wheel.

I claim—

1. A hand-tool, for shaping and burnishing welt-edges, having the peripheral groove or grooves, substantially as shown and described.

2. In a tool for burnishing welt-edges, the adjustable wheel *f*, having the arms *h i k* with the respective grooves *o*.

MYRON J. FERREN.

Witnesses:

FRANCIS GOULD,
M. W. FROTHINGHAM.