

N. S. THOMPSON.

SOLE-EDGE TRIMMING CUTTER-HEAD.

No. 173,830.

Patented Feb. 22, 1876.

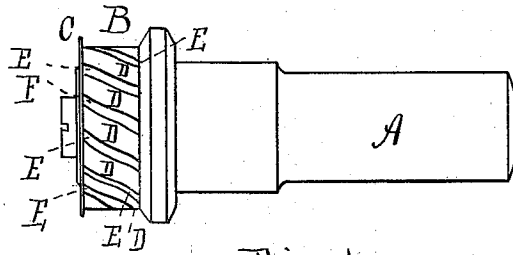


Fig. 1

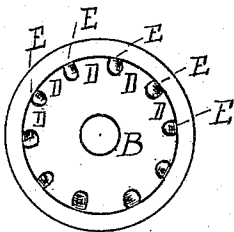


Fig. 2

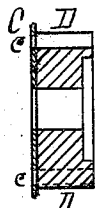


Fig. 3

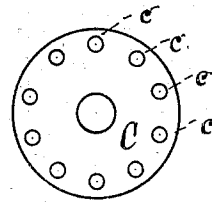


Fig. 4

Witnesses

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UNITED STATES PATENT OFFICE.

NATHANIEL S. THOMPSON, OF HUDSON, MASSACHUSETTS

IMPROVEMENT IN SOLE-EDGE-TRIMMING CUTTER-HEADS.

Specification forming part of Letters Patent No. **173,830**, dated February 22, 1876; application filed November 18, 1875.

To all whom it may concern:

Be it known that I, NATHANIEL S. THOMPSON, of Hudson, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Cutters for Edge-Trimming Machines for Boots and Shoes, of which the following is a specification:

The nature of my invention consists in forming on the cutter-head a series of spiral cutters of peculiar construction, and in combining with them a perforated rand guard or guide.

Figure 1 is an elevation of my cutter as applied to a mandrel. Fig. 2 is a plan of the cutter-wheel. Fig. 3 is a section through the cutter-wheel. Fig. 4 is a plan of the rand guard or guide.

Let A represent the mandrel, made in any suitable style and size. B is a steel wheel, made in the form shown in Figs. 1, 2, and 3. The periphery of this wheel is divided, by a series of spiral grooves, E E E, into diagonal sections, the edges of these lands being ground so that each forms a cutter. As the grooves E E run on spiral lines, they form a good clearance for the chips.

The periphery of the disk C forms a guide to run in the rand, and also a guard to prevent the cutters from injuring the upper of the boot or shoe. The disk C is perforated, as shown in Figs. 3 and 4, at c c c c. The perforations c c c c coincide with the grooves E E E, so that the chips may freely pass out. This cutter is intended to be used as a substitute for the one I have been using on the machine described in Letters Patent granted to me November 7, 1865, and numbered 50,856.

I claim as my invention—

1. The cutter-head B, constructed with spiral grooves E and diagonal sections D, the edges of which are adapted to cut or trim the sole or heel edges of a boot or shoe, all substantially as shown, for the purpose described.
2. The combination of the perforated rand-guard C with the cutter-head B, both operating together, substantially as described and for the purpose set forth.

NATHANIEL S. THOMPSON.

Witnesses:

WILLIAM EDSON,
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