

F. GUSCETTI.

Channel Openers for Boots, &c.

No. 138,883.

Patented May 13, 1873.

Fig. I.

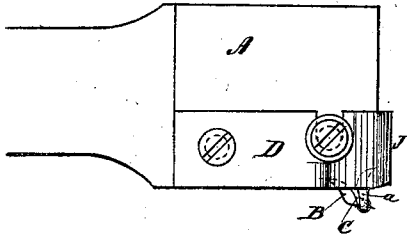


Fig. II.

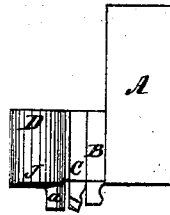


Fig. III.

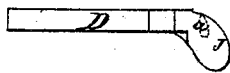


Fig. IV.

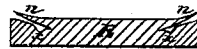


Fig. V.



Witnesses.

C. Gundry Bennett
James C. Harkness

Inventor.

Frederic Guscetti
per C. W. Bennett
his Attorney,

UNITED STATES PATENT OFFICE.

FREDERIC GUSCETTI, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS
RIGHT TO CALVIN W. SMITH, OF SAME PLACE.

IMPROVEMENT IN CHANNEL-OPENERS FOR BOOTS, &c.

Specification forming part of Letters Patent No. **138,883**, dated May 13, 1873; application filed
February 3, 1873.

To all whom it may concern:

Be it known that I, FREDERIC GUSCETTI, of the city of New York, in the county and State of New York, have made a new and useful machine, viz., a Channel-Opener for Boots and Shoes; and I hereby declare the following to be a full and exact description of the same, reference being had to the accompanying sheet of drawing which forms a part of this specification, and in which—

Figure I represents a side view of my improved channel-opener embodying my invention. Fig. II is a front or end view of the same. Fig. III is a top view of the same. Fig. IV shows a section of a sole as the same appears after leaving the channeling-machines as constructed and now in use. Fig. V represents a section of a sole as the same leaves the machine having my channel-opener attached.

The following description will enable any one skilled in the art to make and use my machine.

In the drawing, A represents the end of the arm of a channeling-machine to which the channeling-tools B and C are attached, and to which, likewise, my channel-opener D is fastened close behind the channel-tool C. The tool or knife B makes the inclined cut into the sole E, whereby the lip *n* is fastened around the sole, while the tool *c* cuts out the channel *x* for the threads when the upper leather is sewn on the sole.

In all machines, as at present constructed, the sole comes from this channeling-machine in a state as represented in section in Fig. IV, where E represents the sole for a boot or shoe; *n n*, the lip cut around the bottom of the sole; and *x x*, the channel.

This lip *n* has to be turned over in the manner represented in Fig. V to allow the threads of the sewing-machine to come into the channel *x*, and this operation of turning over this lip *n* is at present performed by hand, and hammered down flat upon the central part of the body of the sole by means of a hammer, so as to leave the channel *x* free. This oper-

ation of turning over the lip *n* and opening the channel *x* is performed by means of my channel-opener D directly after the lip *n* and channel *x* have been cut by means of the tools B and C, and the sole will leave the machine as represented in section in Fig. V, without requiring any further hand labor, and quite ready for the sewing-machine. On the lower part of the tool D a projection, *a*, is made flat on the under side, and pointed on its forward end, or that side which comes next to the tool C, and increases gradually in thickness, as shown in Fig. III. This projection *a* enters the channel *x* directly after the tool C, and presses this channel, on account of its shape, flat, as represented in Fig. V. The outwardly-projecting part J of the tool D gradually turns over the lip *n*, and then presses hard upon the same, forcing it in a position as shown in Fig. V, and which, on account of the moisture of the leather, is easily done.

A sole, having its channel opened or the lip turned back by means of a tool, as above described, will, when the lip is turned again over the channel, and after the sole has been finished and sand-papered, present a much finer and smoother appearance than a sole having its lip hammered over, and is much less liable to be damaged or spoiled, besides all labor and expense at present incurred is saved by the use of my channel-opener.

When the leather of the sole is very hard a small friction-wheel may be arranged following the tool D and pressing upon the turned-down lip *n*.

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

The above-described channel-opener D, when applied to a channeling-machine, and constructed and arranged to operate substantially in the manner and for the purpose set forth.

FREDERIC GUSCETTI.

Witnesses:

G. BEYERLE,
G. W. DITCHELL.