G. McKay.

Boot & Shoe Sole.

No. 48238 Patented Jun. 13. 1865

Fig. 2.

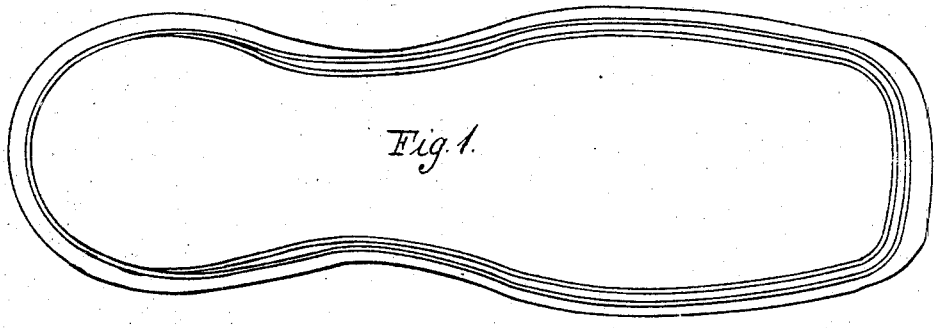

Fig. 1.

Fig. 3.

Witnesses
W. B. Gleason
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UNITED STATES PATENT OFFICE.

GORDON McKAY, OF BOSTON, ASSIGNOR TO JAMES PURINTON, JR., OF LYNN, MASSACHUSETTS.

IMPROVED CHANNELED SOLES.

Specification forming part of Letters Patent No. **48,238**, dated June 13, 1865.

To all whom it may concern:

Be it known that I, GORDON McKAY, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Channeled Sole; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention, sufficient to enable those skilled in the art to practice it.

In channeling soles for the reception or embedment of the stitches by which the soles and vamps of shoes are united upon sewing-machines the practice is generally to make an angular incision in the surface of the sole, near the edge, and groove or plow out an enlargement or channel at the bottom of this incision, the lip turned up from the surface of the sole serving as a flap to cover the channel and stitches embedded therein, giving the sole a finished and uniform surface; and whether the channel be formed in this manner or not an incision is made with a knife or cutter in the surface of the sole in channeled work. In such work, however, as does not require the concealment of the stitches it is sometimes desirable to form a groove or grooves or channels for reception of the stitches by means of pressure-dies, a channel thus made being formed by displacement of the material by pressure, and not by cutting or by removal of such material; and in this manner it will be obvious that the channeling can be effected by a press which cuts out and presses the sole into form and simultaneously presses the channel into the surface of the sole.

As soles cut into form for application to shoes are made and sold as articles of manufacture, my invention may be said to consist in a new article of manufacture—that is to say, a channeled sole having a channel formed by displacement of material by pressure in contradistinction to a channeled sole having an incision or a channel cut into its surface by a channeling-knife.

Figures 1 and 2 of the drawings represent a sole embodying my invention, Fig. 1 showing a view of the channeled surface of the sole, and Fig. 2 a cross-section of the same; Fig. 3, a cross-section of a sole with the common form of channel.

Two channels are shown in Fig. 1 for reception of two rows of stitches, and they are impressed into the surface, as shown in Fig. 2, no cutting-instrument being used, and no rupture of the fibers of the leather necessarily taking place by the action of the dies which form these channels by pressure. In Fig. 3 the channel is formed by a straight knife cutting the angular incision, and a groove knife or plow cutting out the enlargement seen at the bottom of the channel.

What I claim is—

A channeled sole in which the channel is formed by displacement of the material by pressure, substantially as set forth.

In witness whereof I have hereunto set my hand this 10th day of April, A. D. 1865.

GORDON McKAY.

Witnesses:

FRANCIS GOULD,

W. B. GLEASON.