

(No Model.)

W. H. ILLSLEY & J. COOK.
SOLE CHANNELING KNIFE.

No. 525,216.

Patented Aug. 28, 1894.

FIG. 1.

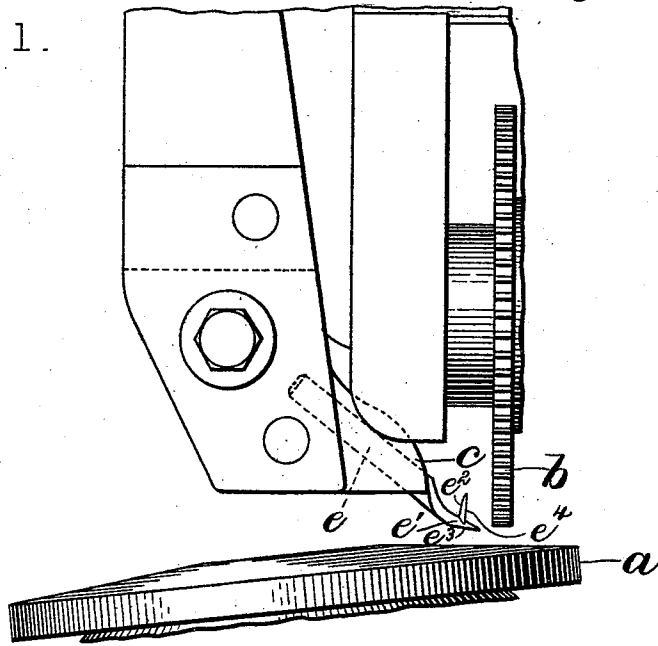


FIG. 2.

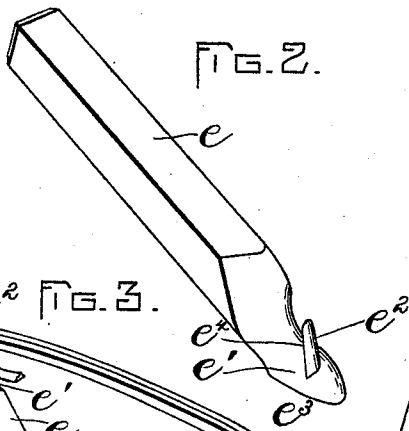


FIG. 3.

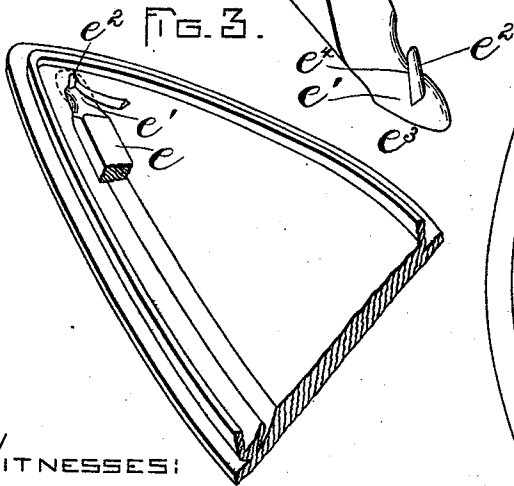
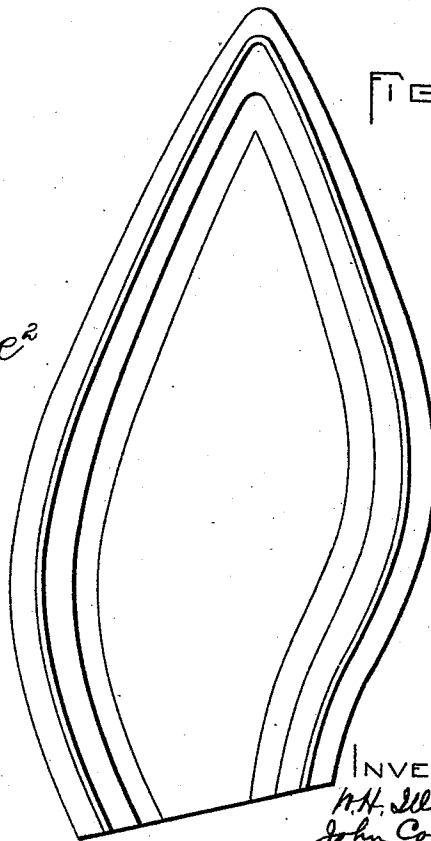


FIG. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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SOLE-CHANNELING KNIFE.

SPECIFICATION forming part of Letters Patent No. 525,216, dated August 28, 1894.

Application filed May 1, 1894. Serial No. 509,674. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. ILLSLEY, of Whitman, and JOHN COOK, of North Abington, county of Plymouth, State of Massachusetts, have invented certain new and useful Improvements in Sole-Channeling Knives, of which the following is a specification.

The present invention relates to knives for cutting channels in the outer sides of boot and shoe soles and trimming the lip formed by the cutting of the channel. In soles having extremely pointed toe-portions such as employed in certain styles of shoes, great difficulty has been experienced in channeling at the toe by reason of its narrowness, and it has heretofore been found impossible to accomplish the channeling at this part so as to leave it in condition for sewing, but it has always been necessary to cut the lip at the toe after the channeling was done,—this having usually been performed by the sewer and requiring extra time and labor, and then not giving an entirely satisfactory result. No uniformity in this cutting of the lip to prepare the sole for sewing, is insured, and hence the toes of different shoes are not exactly alike. Furthermore, with the style of shoe now employed, when the toe is reached all other channeling knives have been (on account of their construction) forced up out of the channel while turning the toe leaving the channel broken and uneven.

It is the object of the present invention to provide an improved construction of knife which will give a cut of the same depth around the sharpest toe as along the sides of the sole, and which will prepare the sole for sewing so that no alteration, as by cutting up the lip or cutting out the channel as heretofore, is required. Moreover, the improved form of knife permits successful passing of the toe.

The accompanying drawings which form part of this specification illustrate an embodiment of the invention.

Figure 1 shows a portion of a channeling machine fitted with the improved knife. Fig. 2 shows a perspective view of the knife on an enlarged scale. Fig. 3 shows the knife in the act of cutting the channel. Fig. 4 illustrates

the appearance of a sole after having been 50
channeled by our improved knife.

In the drawings the letter, *a*, designates the work-supporting table, *b*, the feed-wheel, and, *c*, the knife-carrying lever. The knife comprises a shank, *e*, adapted to be fastened to 55
the lever, *c*, a channeling blade, *e'*, extending from the end of said shank and beveled on the under side, and, *e''*, a lip-trimming blade formed integral with the blade, *e'*, and projecting at an angle thereto, so that it stands 60
out as a spur. The cutting edges, *e''*, and, *e'''*, of the two blades extend substantially at right angles to each other. The blade, *e''*, is rounded at its outer edge and its side edge extends obliquely with respect to the longitudinal 65
plane of the shank, while the spur, *e'''*, as regards its lateral extent, stands oblique to the transverse plane of the shank. This construction of knife allows for easy passage around the sharpest toe and a uniform depth 70
of channel and trimming of the lip over the channel.

When the channeling has been completed by the use of our improved knife, no further cutting is necessary to prepare it for sewing, 75
the toe portion as well as the sides of the channel being left in perfect condition for sewing.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A sole-channeling knife comprising a channel-cutting blade having an oblique side cutting edge and a rounded end; and a lip-trimming blade formed as a spur integral with 85
said channel-cutting blade and standing out from its upper side with its cutting edge at right angles to that of the channeling blade.

In testimony whereof we have signed our names to this specification, in the presence of 90
two subscribing witnesses, this 27th day of April, A. D. 1894.

WILLIAM H. ILLSLEY.
JOHN COOK.

Witnesses:

GEORGE E. HERSEY,
O. H. BROWN.