

(No Model.)

E. P. SEWARD.
KNIFE FOR CHANNELING SOLES.

No. 364,139.

Patented May 31, 1887.

FIG: 1.

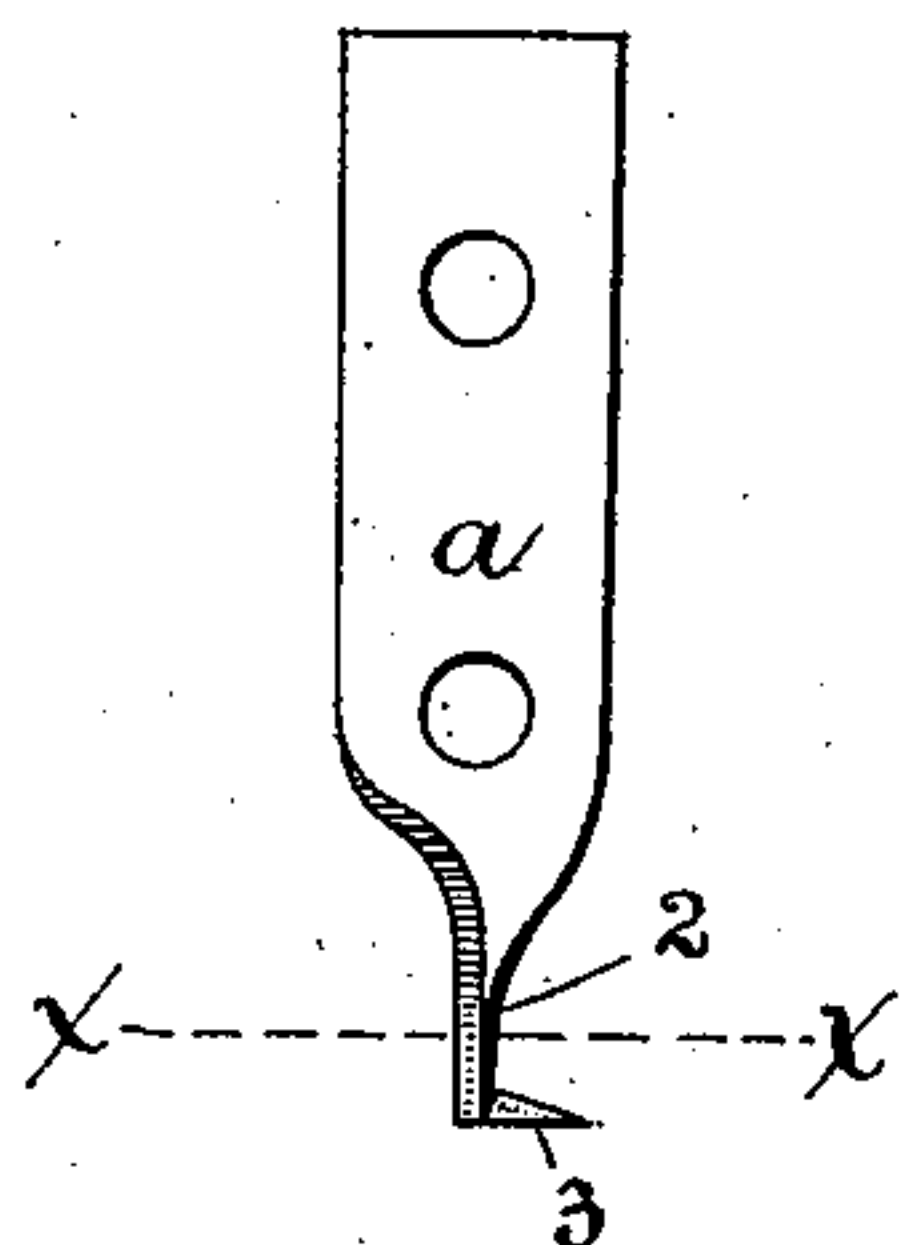


FIG: 2.



FIG: 3.

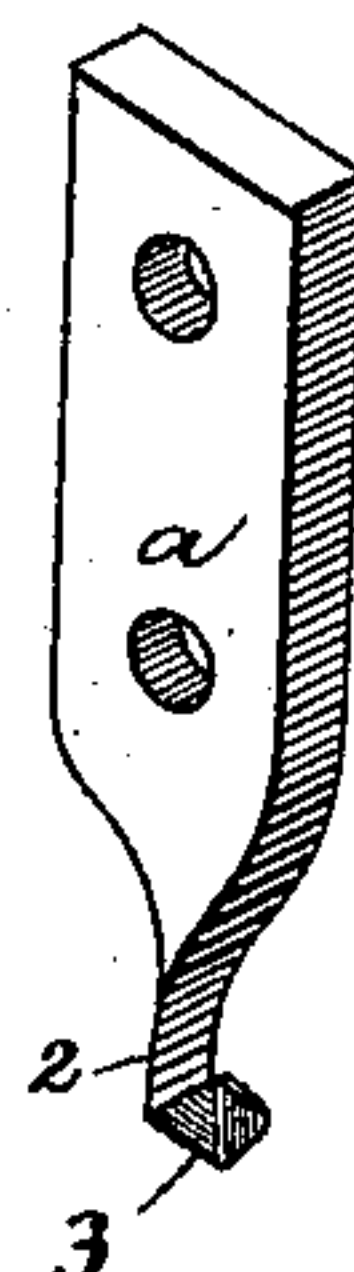


FIG: 4.

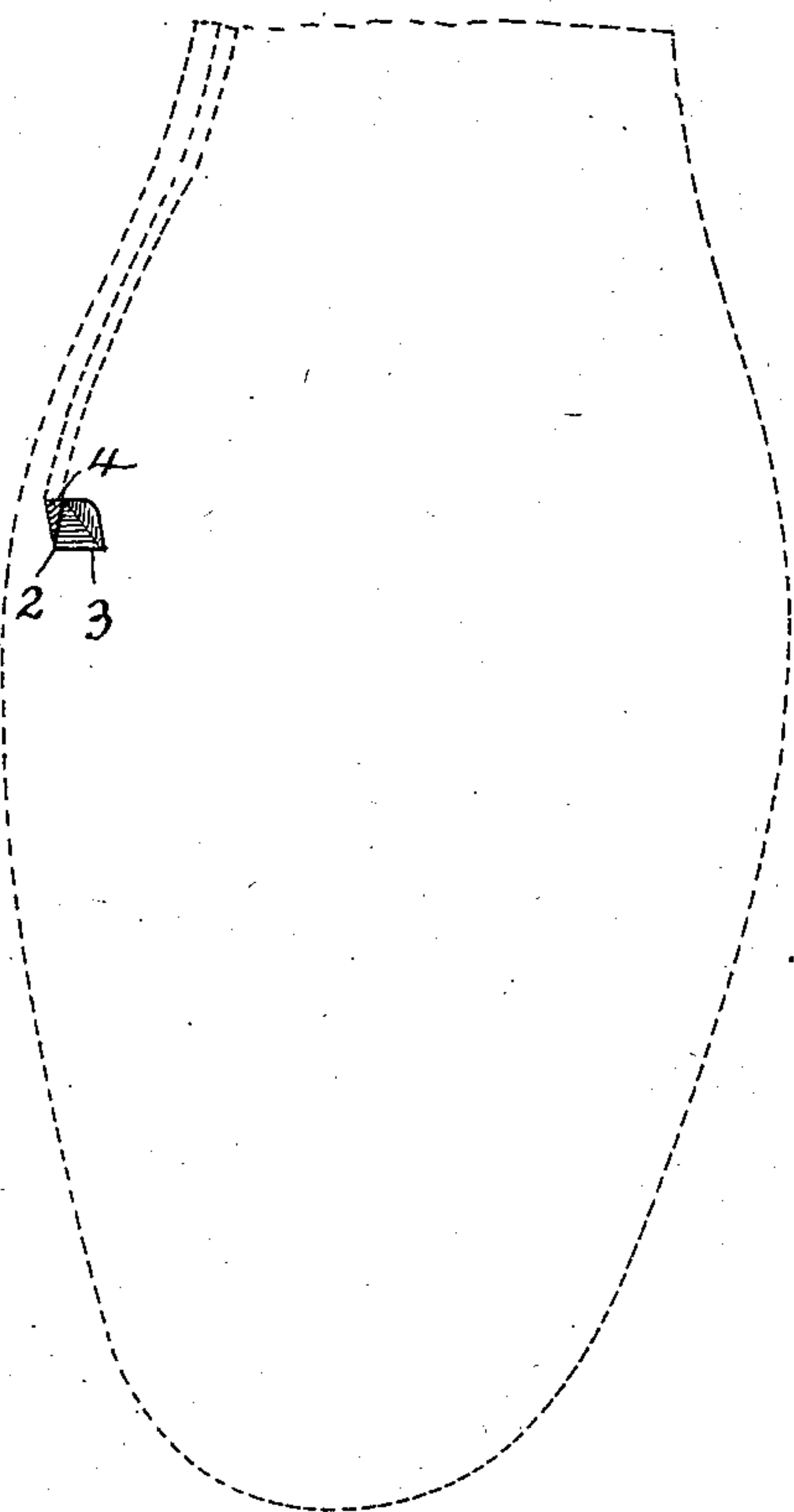


FIG: 5.



FIG: 6.



WITNESSES:

H. Brown.
Rich H Jones

INVENTOR:

E. P. Seward
by Wright, Brown & Corsey
Atty.

UNITED STATES PATENT OFFICE.

EDGAR P. SEWARD, OF HAVERHILL, MASSACHUSETTS, ASSIGNOR, BY
DIRECT AND MESNE ASSIGNMENTS, TO PERLEY A. STONE, TRUSTEE,
OF SAME PLACE.

KNIFE FOR CHANNELING SOLES.

SPECIFICATION forming part of Letters Patent No. 364,139, dated May 31, 1887.

Application filed February 8, 1887. Serial No. 226,920. (No model.)

To all whom it may concern:

Be it known that I, EDGAR P. SEWARD, of Haverhill, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Knives for Channeling Soles of Turned Shoes, of which the following is a specification.

This invention has for its object to provide an improved knife for channeling soles of turned shoes, adapted to cut a deep channel, which will form the edge and rand surface of the sole.

The invention consists in a knife having an angular cutting-edge formed to cut from the tread-surface or grain side of a sole into the same at right angles with the tread-surface, and then inwardly substantially parallel with said tread-surface, the part of the knife that cuts from the tread-surface inwardly being beveled on its outer side, as I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a front view of my improved knife. Fig. 2 represents an edge view of the same; Fig. 3, a perspective view; Fig. 4, a section on line *xx*, Fig. 1; and Fig. 5 a transverse section of a sole channeled by said knife. Fig. 6 represents a sectional view of the knife heretofore used.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents my improved knife, the same having a cutting-edge composed of two parts, 2 3, continuous with each other and formed to make a channel, *c*, of the form shown in Fig. 5 in the outer sole of a turned shoe, said channel extending from the grain side or tread-surface of the sole partly across the thickness of the sole at a little distance from the edge thereof, and then inwardly substantially parallel with the sides of the sole. The part 2 of the knife is beveled on the outer side—that is, the side adjacent to the margin of the sole when the knife is cutting the chan-

nel, the opposite side being substantially parallel with the edge of the sole—so that the tendency of the knife is to cut inwardly from the edge of the sole and not to cut outwardly toward said edge. The part 5 of the knife having the cutting-edge 3 is beveled on the side adjacent to the tread-surface, so that the tendency of this part of the knife is to cut toward the flesh side and away from the tread or grain surface. The knife is a part of a sole-rounding machine of the usual (or any suitable) construction, the sole being moved while the knife is cutting the channel.

By the described form of the part 2 of the knife, whereby said part is prevented from working toward the edge of the sole, I am enabled to cut a much deeper angular channel than heretofore, and thus form an edge on the sole of any desired thickness, the thickness being absolutely uniform, because both the rand surface and edge of the sole are formed by the knife at one operation.

I am aware that a knife formed to cut a shallow channel of the general form shown in Fig. 5 is not new; but such knife has heretofore had its part 2 beveled on the inner side, as shown in Fig. 6, so that the knife has a tendency to work toward the edge of the sole, and cannot cut a deep channel on account of this tendency.

I claim—

The improved channel-cutting knife having the portion 2 beveled on the side which is nearest the margin of the sole when the knife is in operation, and the portion 3, beveled on its upper side, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 1st day of February, 1887.

EDGAR P. SEWARD.

Witnesses:

GEORGE W. BARTLETT,
HATTIE J. ELLIS.