

No. 740,507.

PATENTED OCT. 6, 1903.

C. T. WOOD.
WELT FOR BOOTS OR SHOES.
APPLICATION FILED OCT. 10, 1902.

NO MODEL.

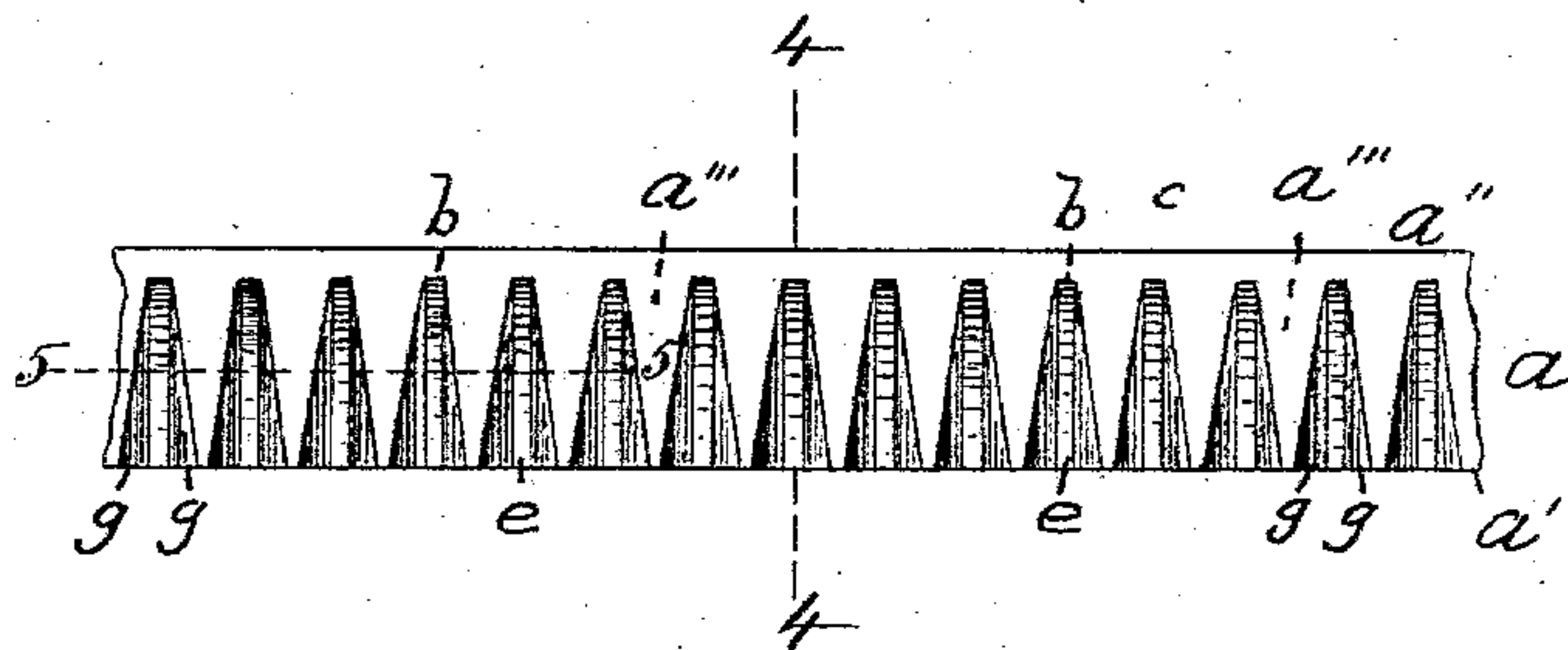


Fig. 1.

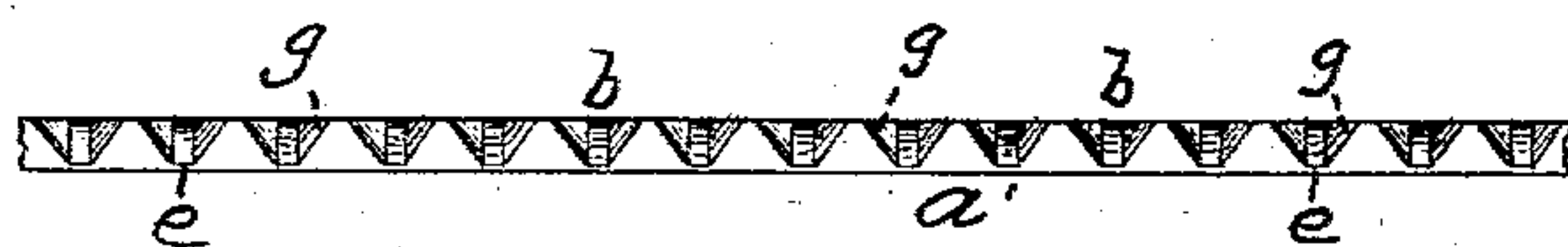


Fig. 2.

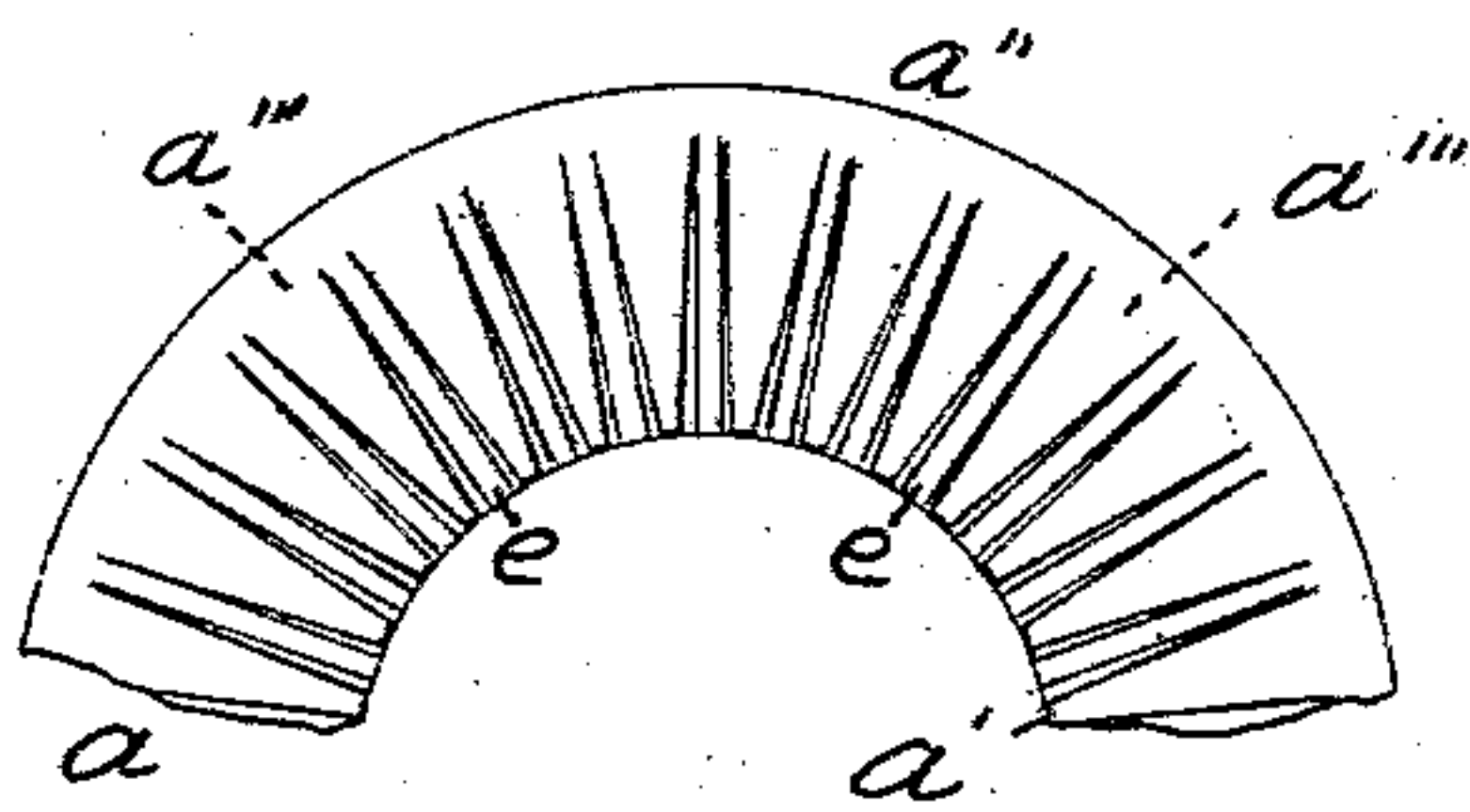


Fig. 3.

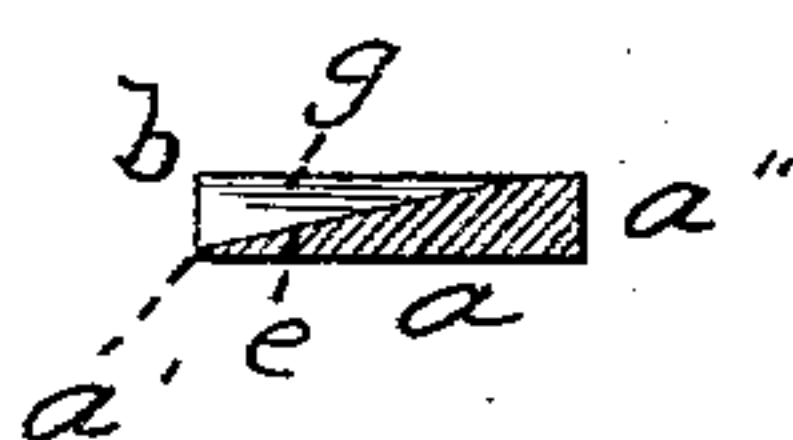


Fig. 4.

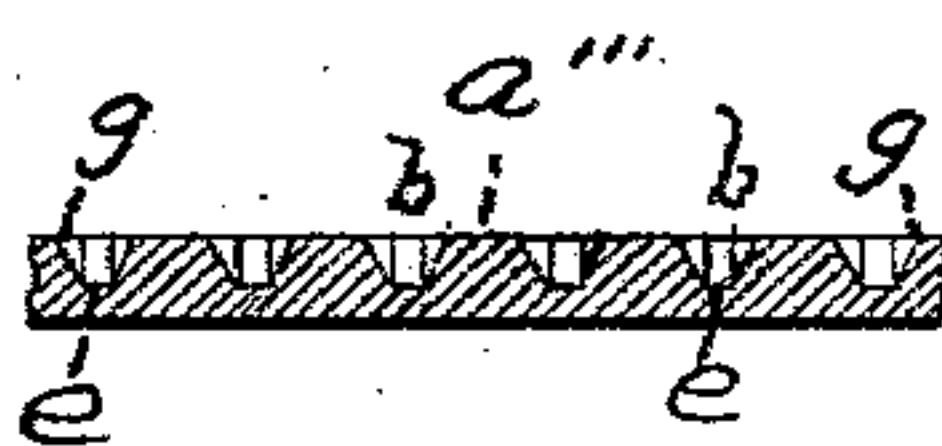


Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES T. WOOD, OF ABINGTON, MASSACHUSETTS, ASSIGNOR TO WOOD & SMALL WELTING COMPANY, OF WHITMAN, MASSACHUSETTS, A CORPORATION OF MAINE.

WELT FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 740,507, dated October 6, 1903.

Application filed October 10, 1902. Serial No. 126,730. (No model.)

To all whom it may concern:

Be it known that I, CHARLES T. WOOD, a citizen of the United States, residing in Abington, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in Welts for Boots or Shoes, of which the following is a specification.

This invention relates to an improvement in welts whereby the flexibility of the welt is greatly increased by means of cross or transverse grooves, such flexibility being especially useful in those portions of the welt in which when the welt is in position there are decided curves, as at the toe of the shoe.

The nature of the invention is fully described in detail below and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a piece of my improved welt. Fig. 2 is an elevation of the inner edge of the same. Fig. 3 is a plan view of a portion of the welt formed in the shape of a curve. Fig. 4 is a transverse section taken centrally and longitudinally through one of the grooves on line 4, Fig. 1. Fig. 5 is a longitudinal section taken transversely through the grooves on line 5, Fig. 1.

Similar letters of reference indicate corresponding parts.

a represents the strip of leather which constitutes the body of the welt, made substantially of even thickness, the thickness of the ungrooved portions of the opposite edges being the same. The welt is provided with numerous cross or transverse grooves in which, as illustrated in the drawings, each groove b has a straight bottom c , flat in cross-section and of substantially even width, said bottom inclining downward toward the inner edge a' of the welt and upward and coming to an end toward the outer edge a'' . The sides g of these grooves are beveled oppositely, as shown, and these beveled sides spread as the groove deepens, with the effect of making the top of

the groove V-shaped and the spaces a''' between the grooves substantially or nearly V-shaped.

The result of the above construction is to render the leather at the bottoms of the grooves at the inner or flaring ends thereof thin, the opposite beveled sides of the grooves at the inner ends broad, and the inner edge of the welt as a whole exceedingly flexible. When the welt is curved, as shown in Fig. 3, the thin portions produced by the deepening and broadening grooves at their inner ends—that is, the ends toward the inner edge a' of the welt—fold or contract and allow the inner edges of the portions a''' of the welt to converge as much as is required, the bottoms of the inner or broad ends of the grooves being so thin that they can fold and contract into a very small space. The grain side of the welt is left whole and uncut.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A welt provided with a series of transverse grooves the bottoms of which are of even width throughout their entire length, and the tops of which broaden toward the ends nearest the inner edge of the welt.

2. A welt provided with a series of transverse grooves the bottoms of which are of even width and incline downward toward the inner edge of the welt, and the tops of which broaden toward the inner edge of the welt.

3. A welt provided with a series of transverse grooves having straight bottoms and oppositely-beveled sides.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES T. WOOD.

Witnesses:

HENRY W. WILLIAMS,
A. N. BONNEY.