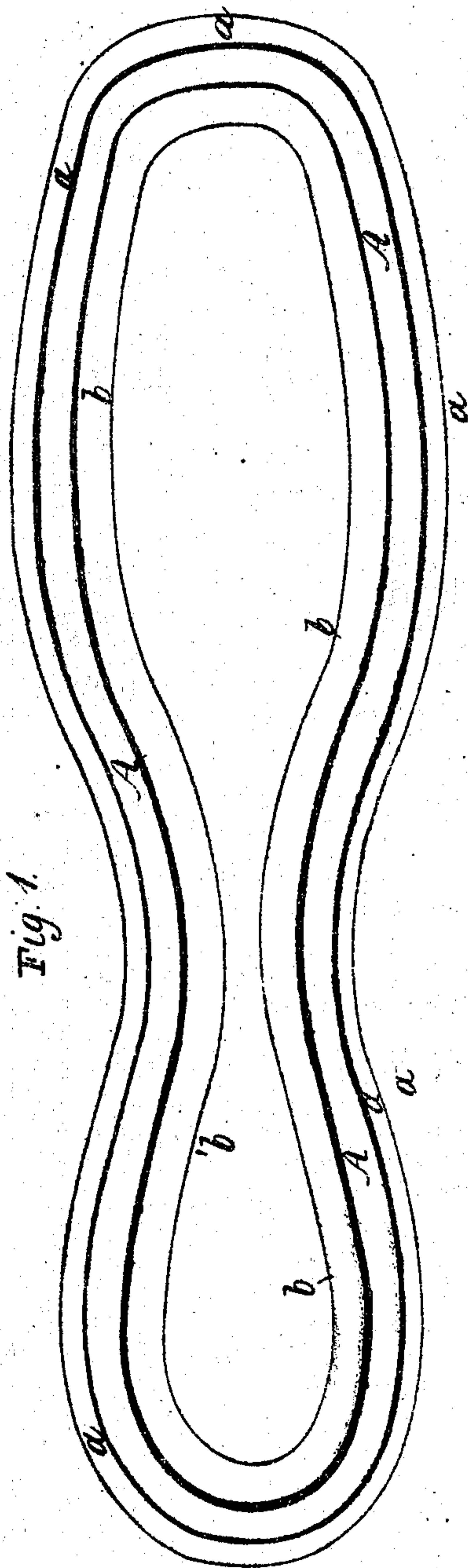
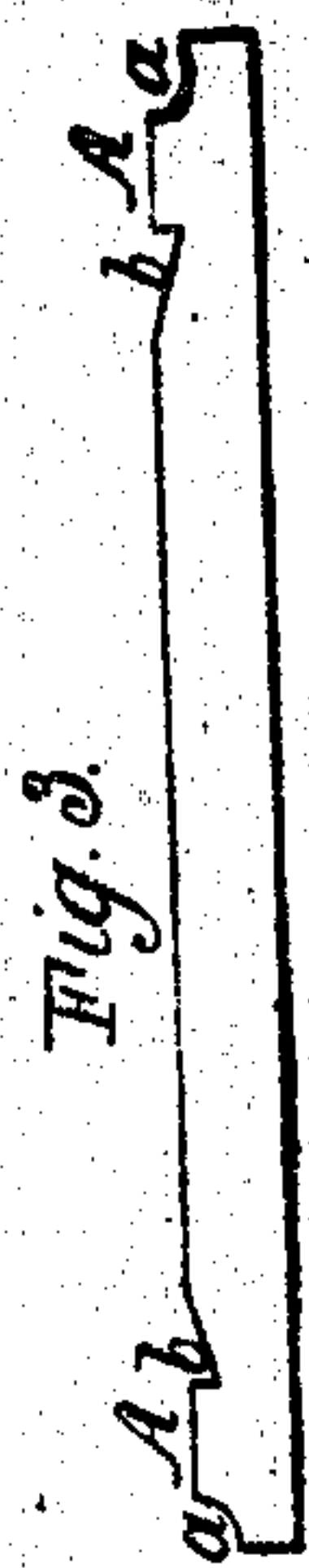
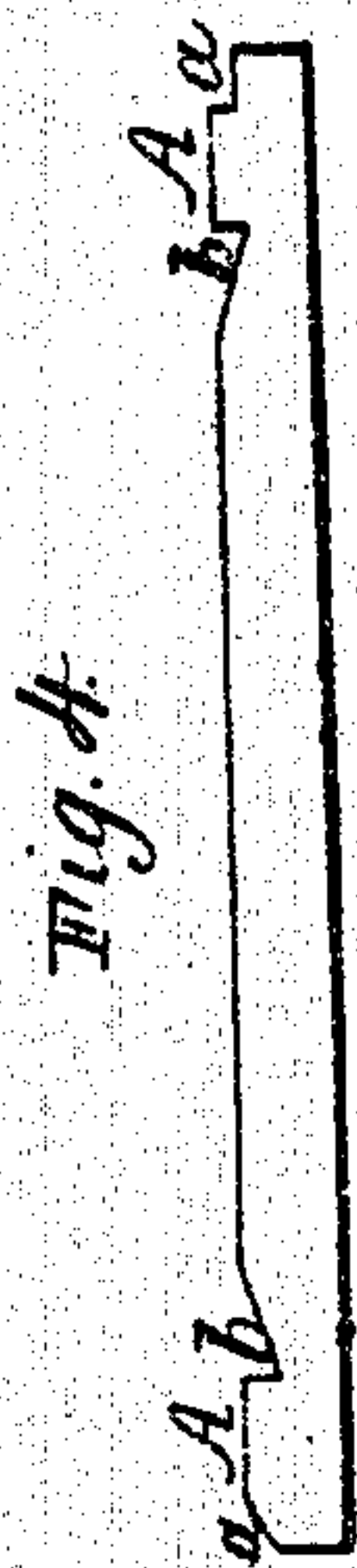
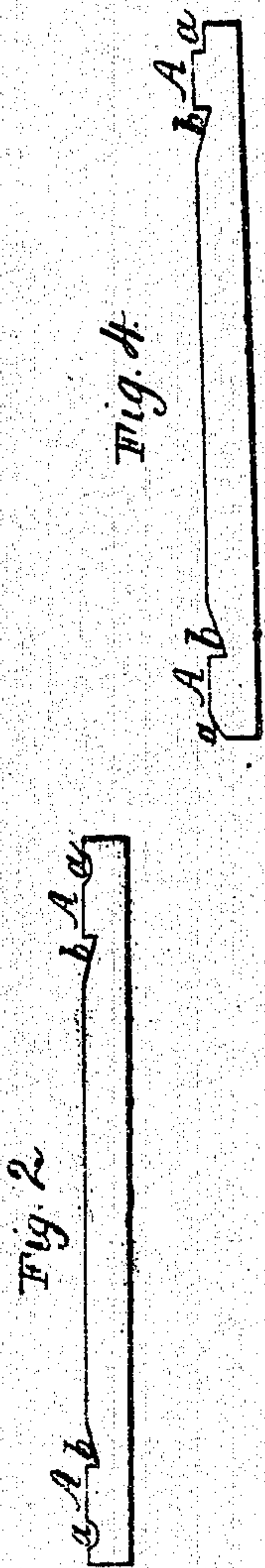


R. Ashe

Boots & Shoes

N^o 104534.

Patented Jun. 21. 1870



Witnesses

Rufus Lapham
Robert F. Naylor

Inventor

Robert Ashe

UNITED STATES PATENT OFFICE.

ROBERT ASHE, OF BOSTON, MASSACHUSETTS.

IMPROVED CHANNEL FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 104,534, dated June 21, 1870.

To all whom it may concern:

Be it known that I, ROBERT ASHE, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Channels for Boots and Shoes, of which the following is a specification:

The nature of my invention consists in making two grooves upon the surface of the sole, for the purpose of sewing on the upper leather or fabric of the shoe, the central part of the outer groove being cut lower than the edge of the sole, thereby affording sufficient channels for sewing, and leaving the edge of the sole in various thicknesses of leather at any desirable thickness.

In order to enable others skilled in the art to make and use my invention, I will proceed to give a full description thereof, reference being had to the accompanying drawings and letters of reference marked thereon.

Figure 1 in the accompanying drawing represents a sole, upon the surface of which are grooves *a a a* and *b b b*, forming a lift or rise, *A A A*, against the shoulders of which the stitch is closed. The center of the groove *a a a* is deeper than the edge of the sole, as is better seen in sectional Fig. 2, in which the edge

of the sole is left of the same thickness as the leather before the grooves were made.

Fig. 3 represents the same kind of grooves as Fig. 2, except that the edge of the sole is thinned to a desirable thickness where and when the sole is too thick.

Fig. 4 is a sectional view of the common channel where the edge of the sole, in order to obtain a sufficient channel, is shaved down thin, giving the appearance of a sole of but little durability, especially when it is made of thin leather.

The utility of my said invention consists in making better shoulders on thin leather, against which the stitch is closed, than the common channel affords, and rendering it easy to make the soles of boots and shoes appear of the same thickness and durability from varying thicknesses of leather.

What I claim, and desire to secure by Letters Patent, is—

The groove *a a a*, when constructed and arranged as herein described and for the purposes set forth.

Witnesses:

ROBERT ASHE.

R. LAPHAM,

ROBERT F. NAYLOR.