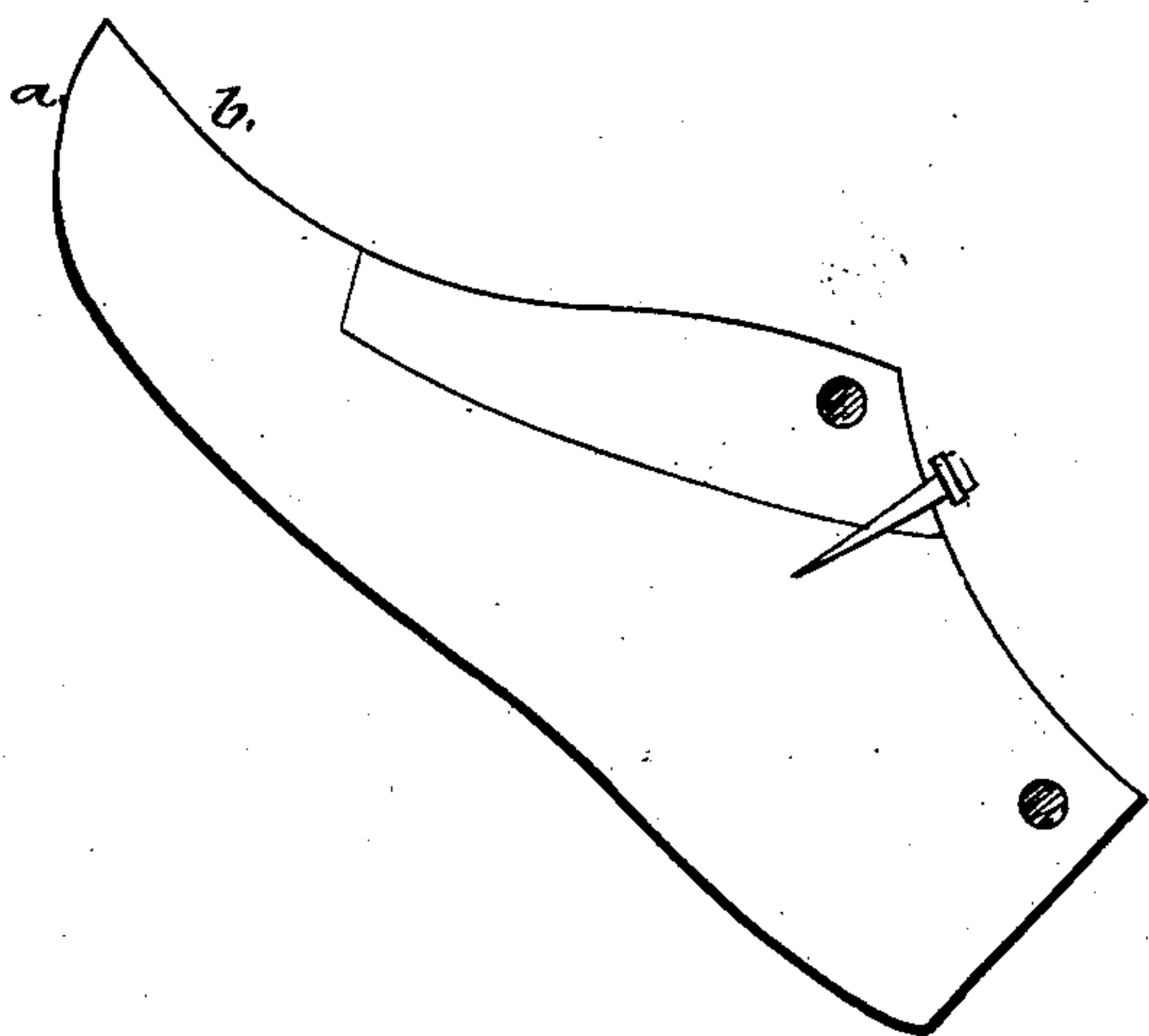


T. BULLIVANT.
LAST.

No. 88,269.

Patented Mar. 30, 1869.



WITNESSES:

Forney Harris
L. E. Marsh,

INVENTOR:

Thomas Bullivant



THOMAS BULLIVANT, OF NEWARK, NEW JERSEY.

Letters Patent No. 88,269, dated March 30, 1869.

IMPROVEMENT IN LASTS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS BULLIVANT, of Newark, in the county of Essex, and State of New Jersey, have invented a new and improved Last for Boots and Shoes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

It is well known that the upper leather of boots and shoes, particularly those of children, wear out usually at the junction of the upper leather with the toe-portion of the sole, which arises from the more exposed position of the upper leather to wear at the toe, together with the pressure of the foot upon the upper leather, at the toe of the shoe, caused by the heel of the shoe, which throws the weight of the body toward the toe, thereby causing greater pressure upon the upper leather at that point.

To obviate the wear of the shoe at the toe, tips, made of metal and other materials, have been attached to the shoe or boot at the toe. These tips are expensive and unsightly; and to remedy these defects is the object of my invention, which consists in constructing the last upon which the shoe is formed, in such a manner that the bottom, or sole of the last shall be made to curve upward at the toe, the upper end of the bottom of the last, at that point, being made to project above the top part of the last. The top part of the last, at the toe, may also be somewhat scooped out, in order that the sole of the boot or shoe formed upon the last,

may project above the upper leather, thereby protecting the upper leather at the toe, and counteracting the thrust at the toe of the shoe, arising from the employment of heels on the shoes, as above set forth.

In the accompanying drawing—

a is the sole, or bottom of the last, which is curved at the toe, as seen in the drawing, so that the upper portion of the curve, at the toe, shall be above the upper part, *b*, of the last, at its junction with the curved part *a*.

By this construction of last, the sole of a boot or shoe, made upon it, will project above the upper leather at its junction with the sole, thus protecting the upper leather at that point.

I am aware that boots and shoes have been made with the toe turned up, but I am not aware that they have been made on a last of the shape herein described, and for the purpose set forth.

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

As a new article of manufacture, a last, having its sole, or bottom curved upwardly at the toe, so that the bottom, or sole of said last, at the toe, shall project above the upper leather, in the manner and for the purpose set forth.

THOMAS BULLIVANT.

Witnesses:

HORACE HARRIS,
L. E. MARSH.