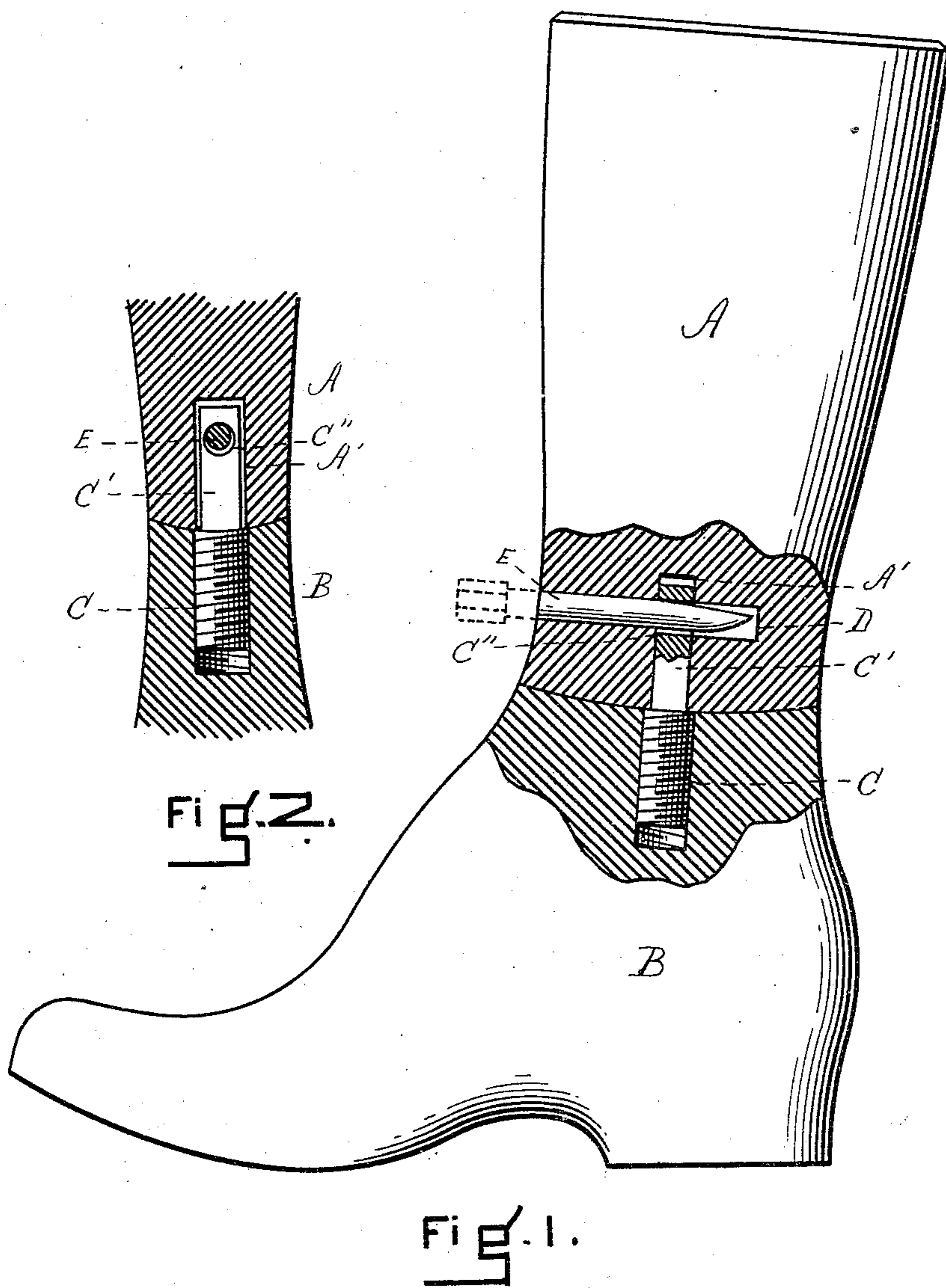


(No Model.)

J. D. SPILLER.
LAST.

No. 429,782.

Patented June 10, 1890.



WITNESSES.

B. M. Williams
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INVENTOR.

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UNITED STATES PATENT OFFICE.

JOSEPH D. SPILLER, OF MALDEN, MASSACHUSETTS.

LAST.

SPECIFICATION forming part of Letters Patent No. 429,782, dated June 10, 1890.

Application filed February 15, 1890. Serial No. 340,590. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH D. SPILLER, of Malden, in the county of Middlesex and State of Massachusetts, have invented a new and
5 useful Improvement in Lasts for Rubber Button-Gaiters, of which the following is a specification.

The last now in common use for rubber button-gaiters has the leg portion and foot portion held together by a vertical internal bolt extending the entire length of the leg portion. The principal objection to this contrivance is that the leg portion frequently splits at the sides which are nearest the bolt.
15 My invention has for its principal object to obviate this difficulty.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an elevation of a last embodying
20 my improvement, with the parts next the joint in central vertical section. Fig. 2 is a cross vertical section taken at the joint.

A represents the leg portion, and B the foot portion.

25 C is a screw screwed vertically into the foot and provided with a long head C', preferably square, which projects up into a hole A', made in the lower end of the leg A. This hole is usually produced by boring, and is
30 hence originally circular, its diameter being a little greater than the thickness of the head C', so that when the head is driven into the hole there will be a little allowance for shrinking and swelling of the wood. The
35 head C' is bored horizontally at C'', and a horizontal hole D is also bored in the leg.

The center of this hole in the leg is a trifle lower than the center of the hole in the head, so that when the spike E is driven in to lock the leg and foot together there will be a tendency to draw the foot and leg very tightly together. It will be noticed that the under side of the spike is beveled or graduated toward the point, so as to produce a tendency to draw the leg still closer upon the foot. After the spike has been driven home its outer end (shown in broken lines) is cut off flush with the outside of the leg, so as not to interfere with the lasting process.

In order to prevent the leg and foot from turning relatively with each other, their meeting ends are not made perfectly flat at the joint, but one is made convex and the other correspondingly concave. In the drawings the end of the leg is convex at the joint and that of the foot concave.

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

In combination, the foot B, provided with the vertical screw C, having a comparatively short head C', horizontally bored at C'', the leg A, provided with the short vertical hole A' in its lower end and the horizontal hole D, the center of the hole in the screw-head being higher than the center of the horizontal hole in the leg, and the spike E, substantially as described.

JOSEPH D. SPILLER.

Witnesses:

HENRY W. WILLIAMS,
J. M. HARTNETT.