

J. PIENOVİ.  
RUBBER BOOT.

No. 170,767.

Patented Dec. 7, 1875.

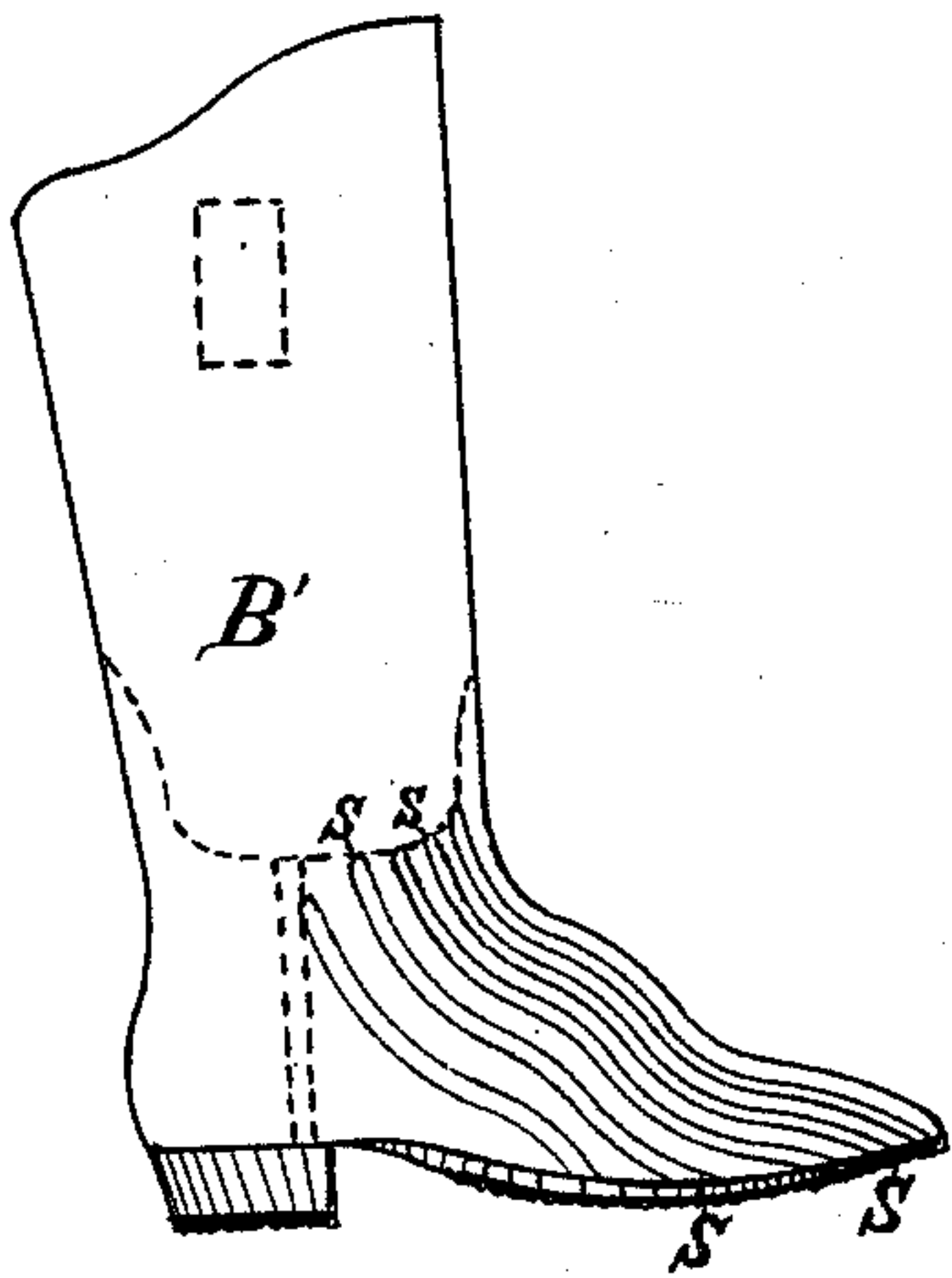


Fig. 2

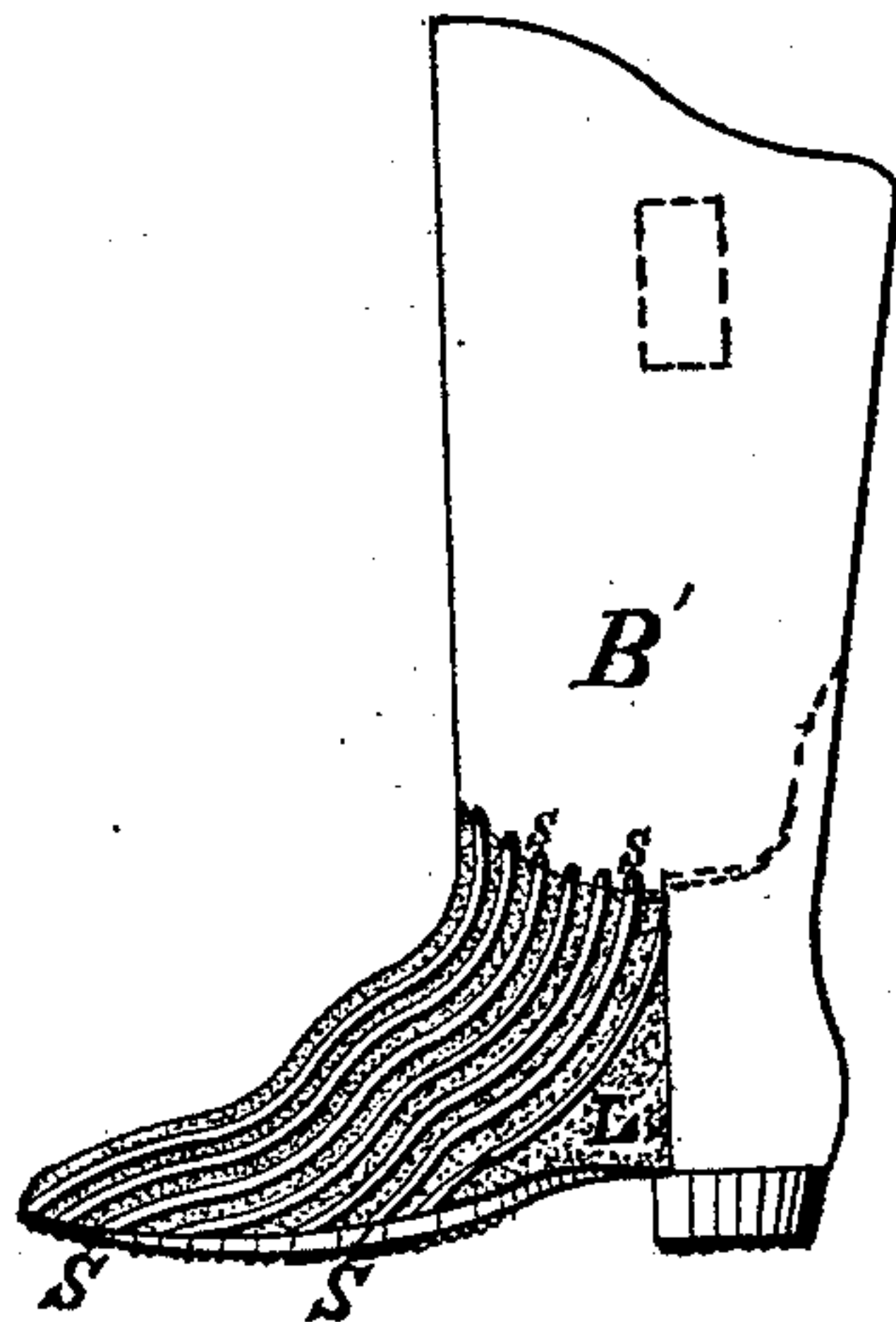


Fig. 1



Fig. 3

Witnesses

James H. Ackerman

Grant A. Wheeler

Inventor

Joseph Pienovi

# UNITED STATES PATENT OFFICE.

JOSEPH PIENOVI, OF NEWARK, NEW JERSEY.

## IMPROVEMENT IN RUBBER BOOTS.

Specification forming part of Letters Patent No. **170,767**, dated December 7, 1875; application filed November 24, 1875.

*To all whom it may concern:*

Be it known that I, JOSEPH PIENOVI, of Newark, New Jersey, have invented certain Improvements in India-Rubber or other Elastic Boots.

My invention consists in supporting an india-rubber boot, so as to prevent its breaking or cracking across the top or ball and instep; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1 is a left-side view of an india-rubber boot with the outside coating of rubber left off from instep to toe. Fig. 2 is a right-side view, showing the boot in a finished state; and Fig. 3 represents one of the supports before being applied to the lining.

To enable those skilled in the art to which my invention relates the better to understand and construct the same, I will describe it more fully.

In Fig. 1, B is a left-side view of an india-rubber boot with my invention applied thereto, and with the external coating of rubber left off from the portion extending from the heel and instep forward to the toe, and exposing the lining L between the supports, which lining is prepared, in all respects, like any other rubber-boot lining, with its coating of cement, and ready for the external coating of rubber before the supports are applied. The supports are represented by the letter s, and are to be made of any suitable material that is elastic, but more rigid than the external rubber coating of the boot, and are cemented to the lining of the boot before its external coating of rubber is applied. These supports

s are applied to the boot in a line or direction running from the toe backward to the instep, and they may, if desirable, fall short of, or reach beyond, the instep and ankle of the boot, but, in either case, so as to receive the strain occasioned by the bending of the boot in walking, while their number and location are such that the strain is equally distributed between them, thus effectually preventing the coating of the boot from breaking by use.

In Fig. 2, B' represents a finished boot, with the location of the supports s plainly visible, running from the toe backward underneath the external coating of rubber, thus giving to the boot a substantial, neat, and novel appearance, while a boot thus made really acquires a degree of firmness and durability without affecting its elasticity, which does not pertain to the ordinary boot.

In Fig. 3, s represents one of the supports or strips ready for application to the lining L of a rubber boot. The said supports may be made of any suitable material not absolutely rigid, and yet sufficiently so to receive the strain on the boot occasioned by ordinary use; and they may be of any convenient width, thickness, length, and number to secure the object in view.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The longitudinal supports s, applied to the upper of an elastic boot, substantially as and for the purpose shown and described.

JOSEPH PIENOVI.

Witnesses:

JAMES H. ACKERMAN,  
GRANT A. WHEELER.