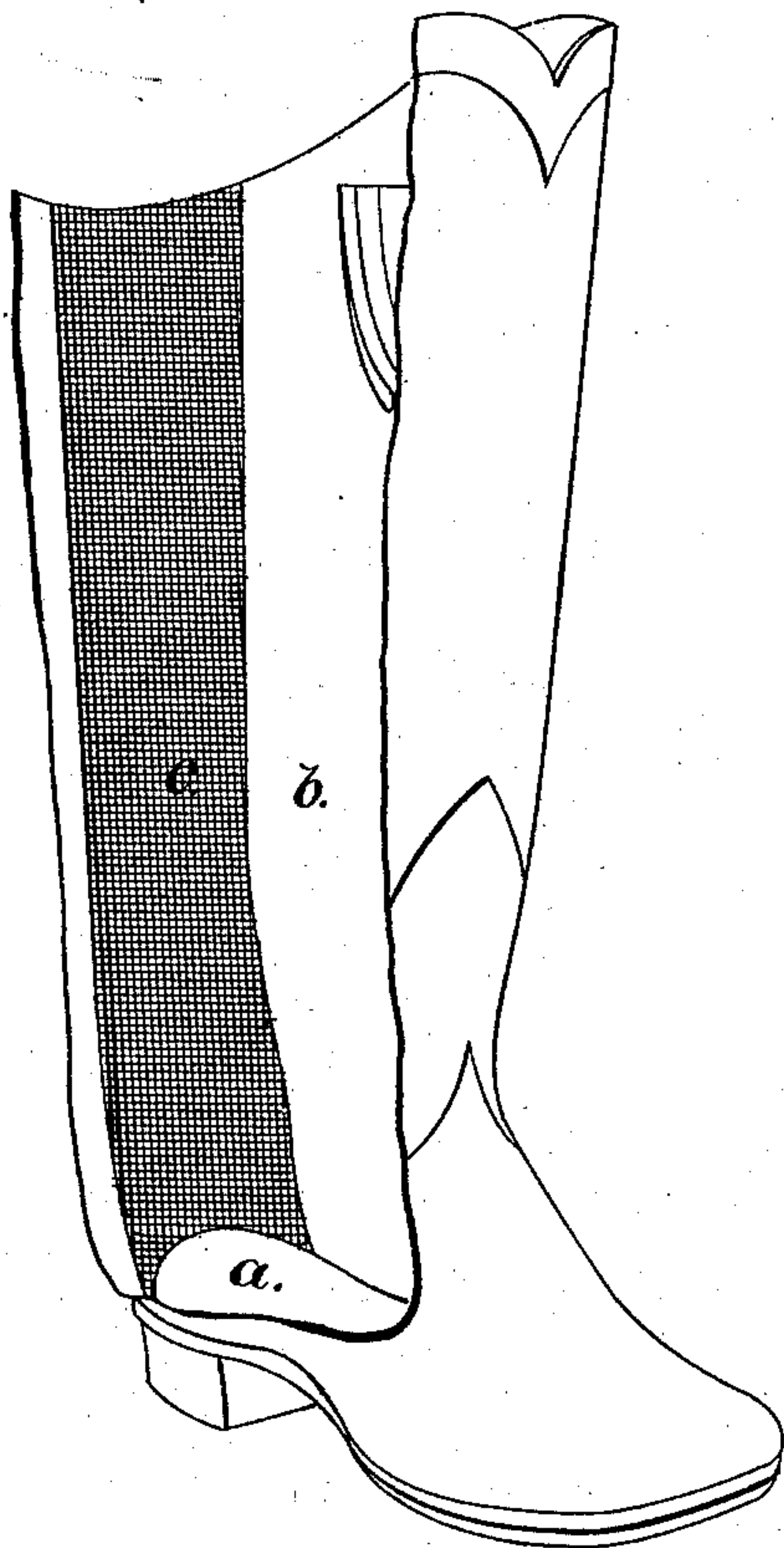


(No Model.)

C. H. STRAIGHT.  
Rubber Boot.

No. 242,802.

Patented June 14, 1881.



WITNESSES:

*Joseph A. Miller Jr.*  
*Wm. L. Coyle*

INVENTOR:

*Clark H. Straight*  
*by Joseph A. Miller*  
*att'y*

# UNITED STATES PATENT OFFICE.

CLARK H. STRAIGHT, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR OF  
ONE-HALF TO SAMUEL LINDSEY, JR., OF SAME PLACE.

## RUBBER BOOT.

SPECIFICATION forming part of Letters Patent No. 242,802, dated June 14, 1881.

Application filed April 20, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, CLARK H. STRAIGHT, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Rubber Boots; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification.

In the manufacture of rubber boots the interior of the boot is made of a felted fabric, which is placed upon the boot-tree, and to this the various sheets and strips of rubber are secured by rubbing them, so as to expel all air and make a firm contact. The edges of the felt forming the upper and leg meet at the center of the heel.

In wearing rubber boots the heel portion of the felt is soon worn through, and also by its friction soon wears the stocking. To avoid this, and also to secure greater strength to the leg of the boot, I place a strip of canvas on the back of the heel and the leg, as will be more fully set forth hereinafter.

The drawing represents a rubber boot, one side being shown as cut away so as to show the canvas lining more clearly.

In the drawing, *a* represents the sole of the boot, *b* the leg of the same, and *c* a strip of canvas secured either over the joint of the felt lining, or, preferably, inserted between the felt lining, so that the canvas (a stronger and cheaper material than the felt) will take the place of the felt. The canvas strip *c*, to produce the best effect, should extend from the sole to the upper edge of the boot-leg; but it may extend only part of this length, as the wearing out of the felt lining is greatest at the heel. The canvas strip *c* is in the manufacture of the boot placed first on the boot-tree, the felt lining next, and the sheets of rubber are

secured to them. The soft rubber will penetrate the canvas, and when the boot is exposed to heat the canvas becomes filled with the then nearly flint rubber, and as soon as the sulphur melts and vulcanization commences the inner surface of the canvas becomes smooth, and when the boot is completed a stronger and superior boot is secured than can be made without the strip *c*.

The advantages secured are, first, saving of cost by substituting in part a cheaper material; second, greater durability; third, the canvas prevents the stocking from wearing out on the heel; fourth, the lining keeps the back of the boot straight and prevents it from cracking or breaking; fifth, the lining allows the boot to go on or off with more ease than an all-felt-lined boot; and, sixth, it is more durable, as the common felt lining soon wears away at the back of the heel, and the substance collects in the bottom of the heel and becomes very troublesome.

In this invention the canvas may be used at the rear portion of the boot to take the place of the felt lining on the boot-tree, so that the edges of the felt will lap over the edges of the canvas strip; but it may also be used as a strengthening-strip only by placing the felt lining so as to meet behind the canvas strip.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A rubber boot provided with a strip of canvas at the rear of the boot, substantially as shown, and for the purpose set forth.

In witness whereof I have hereunto affixed my name.

CLARK H. STRAIGHT.

Witnesses:

SAMUEL LINDSEY, Jr.,  
JOSEPH A. MILLER, Jr.