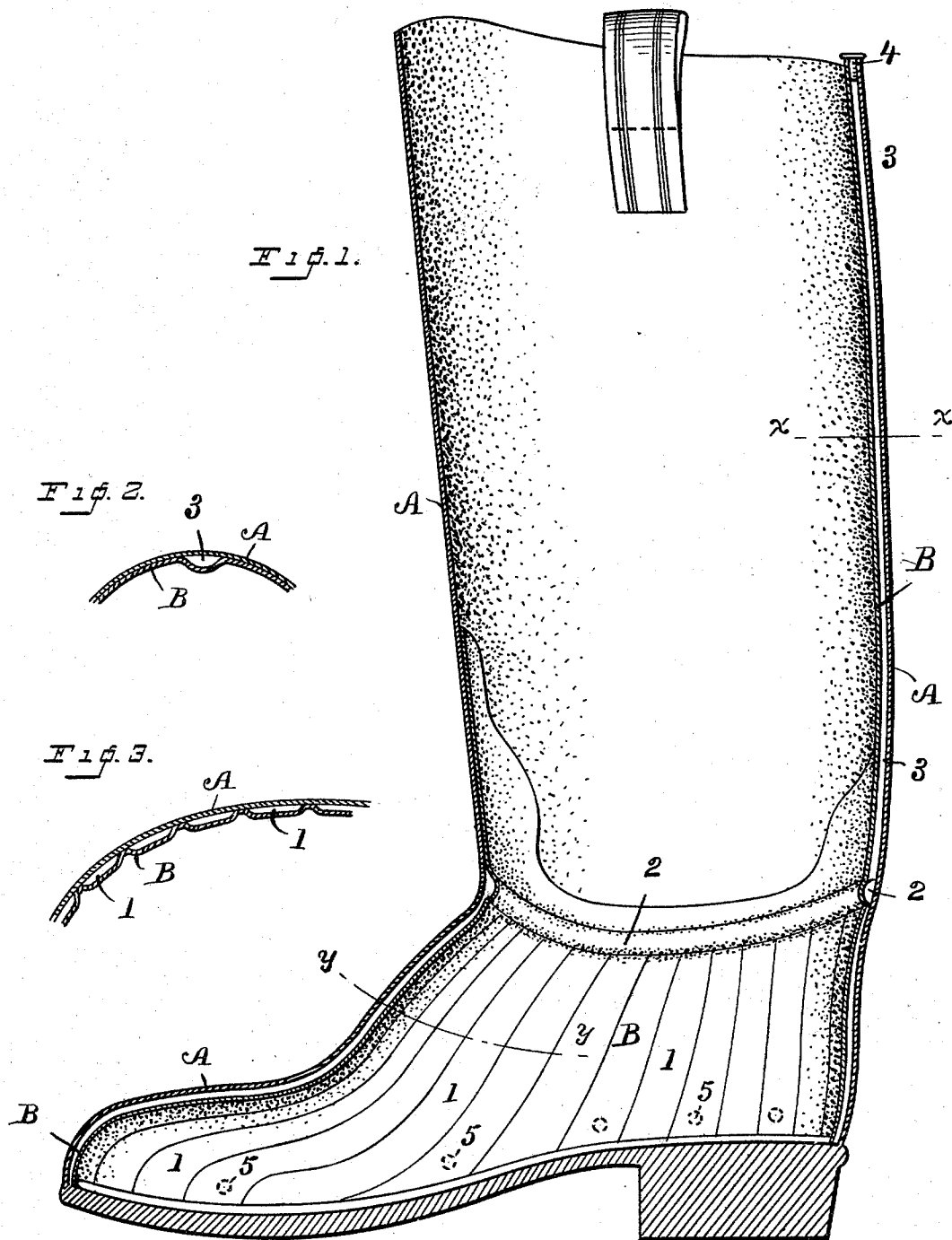


(No Model.)

S. ANNENBERG & E. STAHL.
BOOT OR SHOE.

No. 518,579.

Patented Apr. 24, 1894.



WITNESSES

Herbert Longstaff.
Richard Williams

INVENTORS

SAMUEL ANNENBERG
ERASMUS STAHL

By C. M. Newman Attorney

UNITED STATES PATENT OFFICE.

SAMUEL ANNENBERG AND ERASMUS STAHL, OF NAUGATUCK, CONNECTICUT.

BOOT OR SHOE.

SPECIFICATION forming part of Letters Patent No. 518,579, dated April 24, 1894.

Application filed October 31, 1893. Serial No. 489,628. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL ANNENBERG and ERASMUS STAHL, both citizens of the United States, residing at Naugatuck, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Boots or Shoes; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in boots, shoes, or the like and has for its object to produce a boot or shoe which may be inflated with air in any suitable manner, and by doing so produce a boot or shoe which shall be warmer than those now in use.

With these ends in view, our invention consists as above, and will be more fully described and then recited in the claim.

In order that those skilled in the art to which our invention appertains, may fully understand the same, we will proceed to describe the same in detail, reference being had to the accompanying drawings and to the letters and figures of reference marked thereon, which form a part of this specification.

In the accompanying drawings: Figure 1, represents a vertical central section of a boot showing one way in which our invention may be carried into effect. Fig. 2, is a section on the line $x-x$ of Fig. 1, and Fig. 3, is a cross section on the line $y-y$ of Fig. 1.

As stated this invention is equally applicable to boots, shoes, or the like. We have preferably shown it in connection with a boot only, yet it may be used in connection with boots, shoes, over-shoes or rubbers, &c., and we do not wish to bind ourselves to any particular one, nor do we wish to limit ourselves to the exact construction herein shown and described, since this may be altered without varying from the object of our invention.

Our invention is designed to produce a boot or shoe out of rubber, leather or any suitable material, which shall consist practically of an outer covering A, which may be of any ordinary design, and an inner lining B, which may or may not run to the top of the boot.

In the accompanying drawings we have

shown the two arranged in the following manner: The inner part or lining B is placed in the foot portion of the boot and is preferably arranged in a series of compartments 1, all of which are air tight, being separated from each other by sewing, cementing or both or in any desired manner, their compartments are connected and feed from a circular compartment 2 adapted to encircle the leg of the boot and feed all the series of compartments 1 which extend from the ankle to the sole of the boot. We suitably connect this circular compartment 2 by means of a tube 3 which extends from said compartment to the top or outer surface of the boot, the end of which may be closed in any suitable way as for instance, by a thumb screw 4.

It will be clearly seen from the above construction that by means of the tube 4 and its several connections, the compartments may very readily be inflated with air, or if desired, with any suitable heat retaining liquid, or if desired instead of using this means of inflating, we may provide any number of holes in the lining preferably near the sole of the boot (see dotted line) and depend upon the motion of the foot to force the desired amount of air through these holes into the space or spaces 1. It will of course be understood that with such an air space arranged between the coverings of a boot, the boot will be made much warmer, since a dead air space is a well known means of retaining warmth and such air space as in connection with a boot, is found to be particularly practicable and desirable for outdoor purposes where the wearer is required to stand around in the wet and snow.

If desired we may extend the air space into the sole of the boot and we may also simply form the boot with one general air space instead of arranging a series of them, as shown in the drawings. We do not wish to limit this our invention to either.

Having thus described our invention, we claim—

A boot or shoe formed of rubber or other suitable material and consisting of an upper and a lining, the two stitched or suitably united together, forming between said upper and lining a circular compartment around the ankle portion of said boot, a series of com-

partments connected with and extending from
said circular compartment to the sole of the
boot, a supply tube connected with and ex-
tending from the circular compartment to the
5 top of the boot and provided with a covering,
the whole arranged to permit of the boot be-
ing inflated with air or suitable heat-retaining
liquid.

In testimony whereof we affix our signatures
in presence of two witnesses.

SAMUEL ^{his} X ANNENBERG.

ERASMUS STAHL.
^{mark}

Witnesses:

WILSON H. PIERCE,
CHARLES J. GRIGGS.