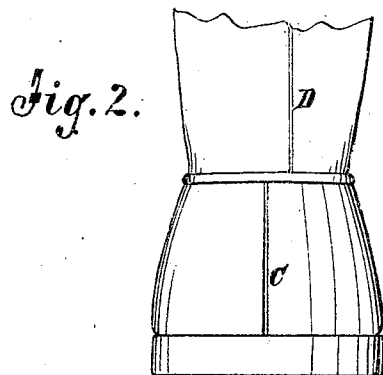
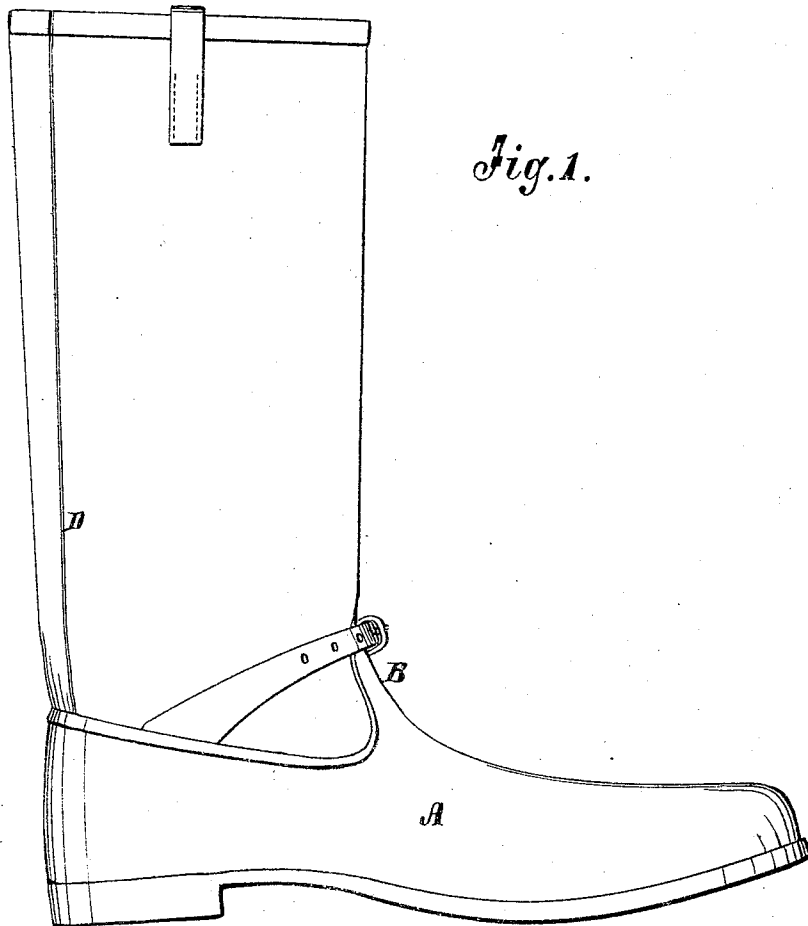


J. A. WEAVER & W. B. HAWKINS.

Boot-Pacs.

No. 147,083.

Patented Feb. 3, 1874.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES A. WEAVER AND WILLIAM B. HAWKINS, OF EAST SAGINAW, MICH.

IMPROVEMENT IN BOOT-PACS.

Specification forming part of Letters Patent No. **147,083**, dated February 3, 1874; application filed September 13, 1873.

To all whom it may concern:

Be it known that we, JAMES A. WEAVER and WILLIAM B. HAWKINS, of East Saginaw, in the county of Saginaw and State of Michigan, have invented a new and Improved Boot-Pac, of which the following is a specification:

The sole-leather boot-pacs worn by lumbermen and other woodmen, and known as "tongue-pacs," have heretofore been made with seams at the quarters; also with seams from the top of the upper, a little each side of the instep, along the sides of the top of the foot, to the top of the toe, thus making the upper of three pieces, which require several seams for sewing them together. These seams are very objectionable, both because they open when the leather is soaked and softened by the snow and water, and leak, and because they hurt the feet of the wearer; but it has been thought necessary to make the pacs in this way, owing to the great difficulty of lasting the thick sole-leather of which such articles are made.

Now, we propose to make the whole upper in one piece, which we join together at the heel by one short seam only, and thus not only economize considerably in the length of the seams, but we locate the seam where it is so re-enforced and stiffened by the counter that it is not so liable to open and leak when the leather is water-soaked as the seams at the counters and the fronts are. We also construct the leg and sew it onto the upper so that the seam of the leg does not join the upper at the seam of the heel of the latter, whereby we lessen the tendency to open at the junction that would arise by the uniting of the leg with its seam in the line with the other seam.

Figure 1 is a side elevation of a boot-pac constructed according to our invention, and Fig. 2 is a rear elevation.

Similar letters of reference indicate corresponding parts.

A is the upper of the foot, which we cut in one piece, including the tongue B, in such form that the single seam for sewing the upper together will come at the back C, and will answer for the two quarter seams and the seams in the front heretofore used. We overcome the difficulty of lasting an upper of thick leather in this form by more thoroughly soaking and softening it, so that we can stretch it as much as needful to produce the shape required for the foot, and at the same time fit the edges to the insole for fastening to it; and the seam D of the leg we arrange a little one side of the rear center, so as not to meet the seam C at the junction of the upper, by which we lessen the tendency to open and leak, because where two seams meet at a cross-seam it is more difficult to make a strong tight joint than where only one seam joins the cross-seam.

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

A boot having upper and leg of two pieces, each united at the back, with their seams C and D relatively arranged, with respect to each other, as shown, and for the purpose described.

JAMES A. WEAVER.
WILLIAM B. HAWKINS.

Witnesses:

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