

(No Model.)

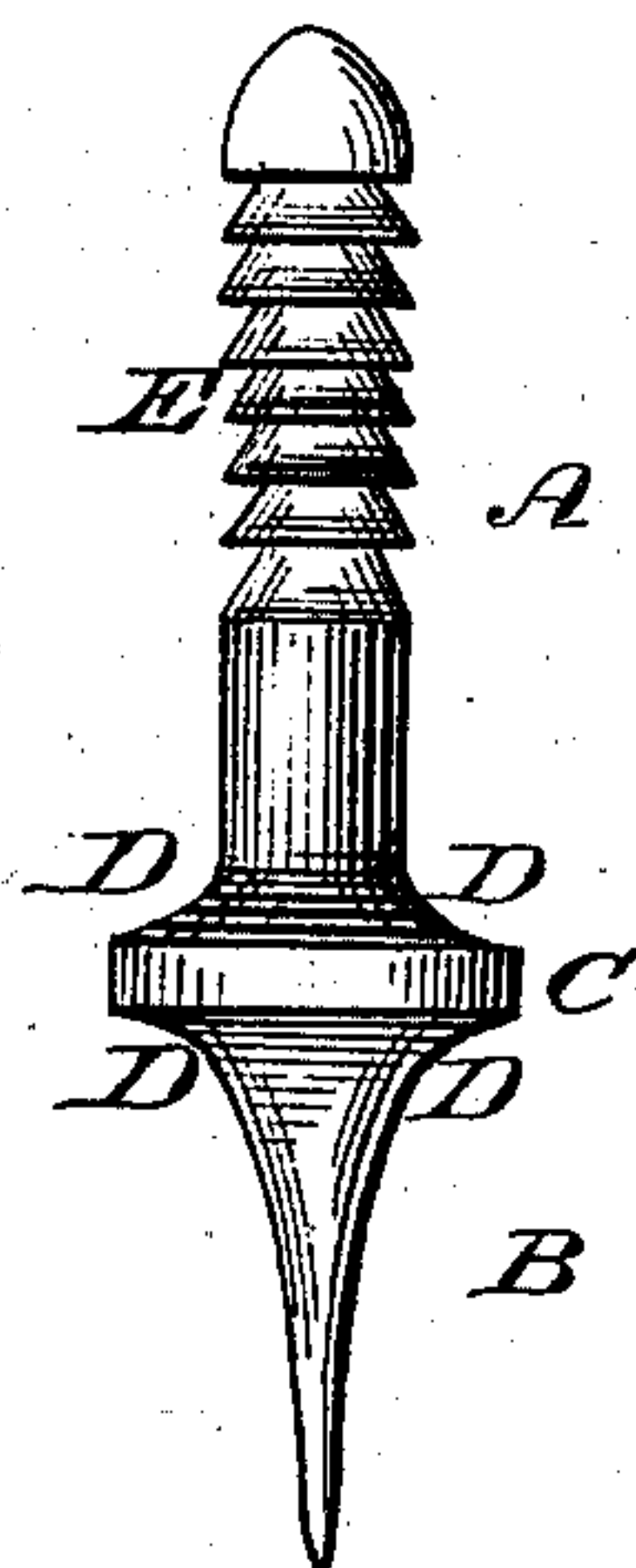
E. WITHAM.

CALK.

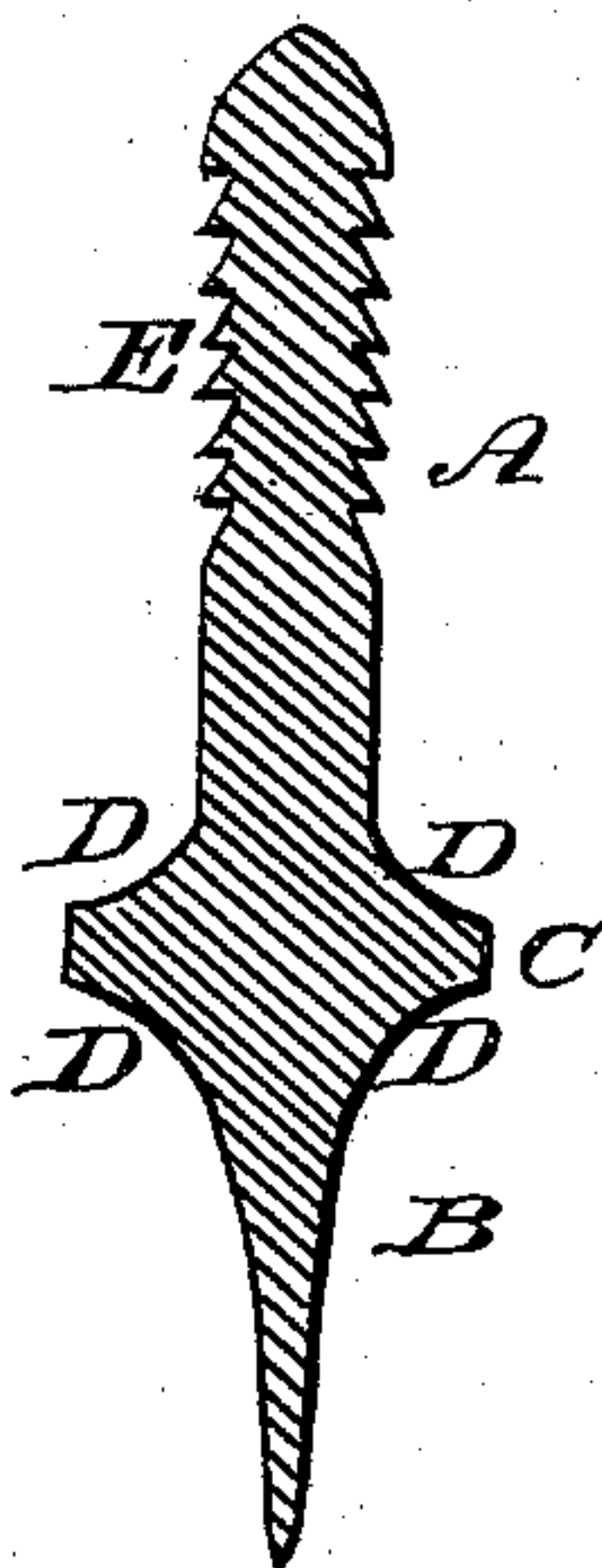
No. 255,556.

Patented Mar. 28, 1882.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*James Little*  
*J. B. Myers*

By *his* Attorneys

INVENTOR

*Ephraim Witham*  
*C. A. Snow & Co.*

# UNITED STATES PATENT OFFICE.

EPHRAIM WITHAM, OF CARRITUNK, MAINE.

## CALK.

SPECIFICATION forming part of Letters Patent No. 255,556, dated March 28, 1882.

Application filed December 28, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, EPHRAIM WITHAM, of Carritunk, in the county of Somerset and State of Maine, have invented certain new and useful Improvements in Calks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side view, and Fig. 2 is vertical sectional view.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to calks for lumbermen's boots; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A represents the stem or shank, and B the point, of my improved calk. Said stem and shank are separated by an enlarged portion or disk, C, the upper and lower sides of which are beveled, as shown, so as to form concave shoulders D. From the beveled shoulder D, on the under side of the enlargement A and to its extremity, the point B is beveled or gradually tapering, as clearly shown in the figures of the drawings. The stem or shank A, from the upper concave or beveled shoulder D to its upper end, is substantially cylindrical in shape, except the upper extremity, which is slightly pointed, so as to conveniently enter the hole provided for its reception in the sole of the shoe. The upper end of the shank is provided (for about two-thirds of its length) with annular grooves E, the lower sides of which are horizontal, while the upper sides are beveled upwardly and inwardly, as shown, this construction being designed with a view to cause the calk to bind firmly and securely when driven in the sole of the boot.

In operation the sole of the boot is provided with openings to receive the calks, which are driven in said openings by means of a suitable tool constructed for the purpose, with an opening to receive and protect the point. The grooves E cause the calk to bind firmly, so as to remain in place, even if the latter should shrink around it. The enlarged portion C, with its beveled shoulders D, serves to

give strength to the calk and prevent it from breaking, bending, or becoming loose, as well as to prevent it from entering too far into the sole. The point B being beveled or gradually tapering instead of true conical, as is usual in this class of devices, is not liable to stick or become fastened in the logs. This is of considerable importance, as it is essential to the safety of the wearer that he should be able to move freely and rapidly. It will also be seen that owing to this peculiar construction the point is not liable to become blunt by wear, but will remain sufficiently sharp for the purpose for which it is intended.

I would have it understood that I do not limit myself to the exact construction of the calk, as a whole, herein shown and specified. Thus the hastate or concave-sided point may be applied with advantage to a shank or stem constructed differently from the one herein shown, or the shank or stem may be constructed with a point which is not concave-sided, or the disk or enlarged portion C, with the beveled shoulders D, may be omitted or its construction modified, when it shall be desired for any reason to do so.

I am aware of the patent to Baker, No. 230,688, dated August 3, 1880, and I claim nothing therein shown.

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

1. A lumberman's calk having a cylindrical stem provided at its upper end, for about two-thirds of its length, with annular grooves, the lower sides of which are horizontal, while the upper sides are beveled upwardly and inwardly, as herein described, for the purpose set forth.

2. A lumberman's calk having a cylindrical shank or stem provided at its upper end, for a portion of its length, with annular grooves, a beveled or gradually-tapering point, and an intermediate disk or enlargement having beveled or concave shoulders on its upper and undersides, substantially as described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

EPHRAIM WITHAM.

Witnesses:

LYMAN L. WALTON,

WILLIAM W. JOHNSON.