

(No Model.)

H. W. DE COURTENAY.

SHOE CALK.

No. 285,582.

Patented Sept. 25, 1883.

Fig. 1.

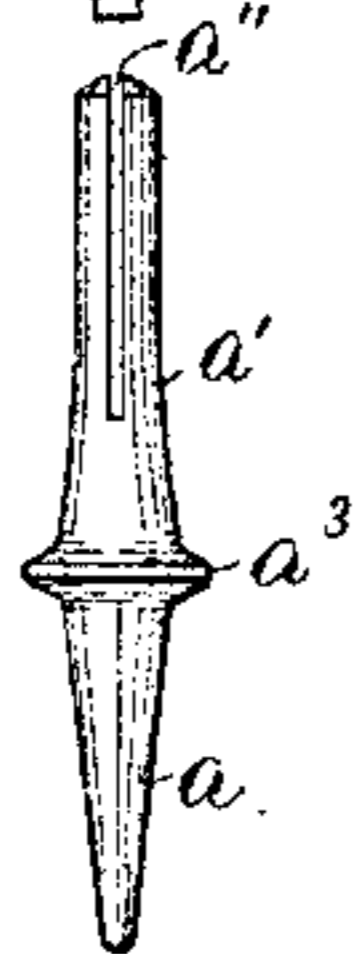


Fig. 2.

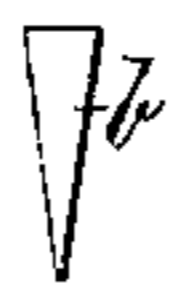


Fig. 3.

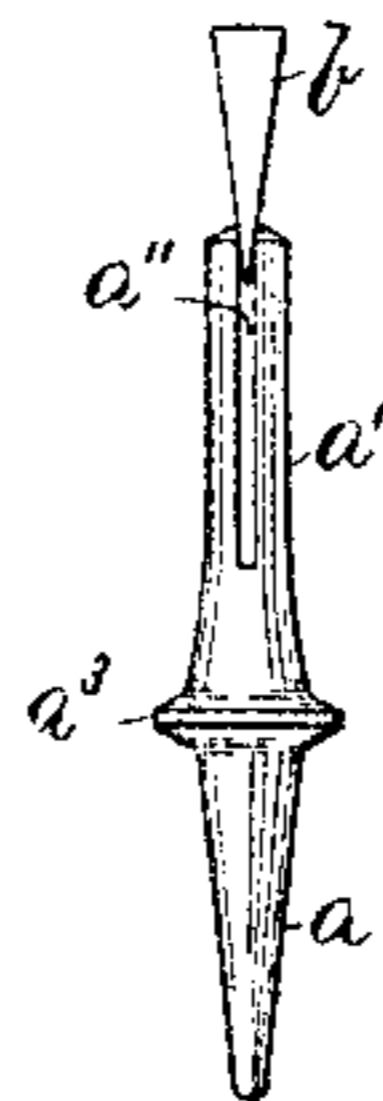


Fig. 4.

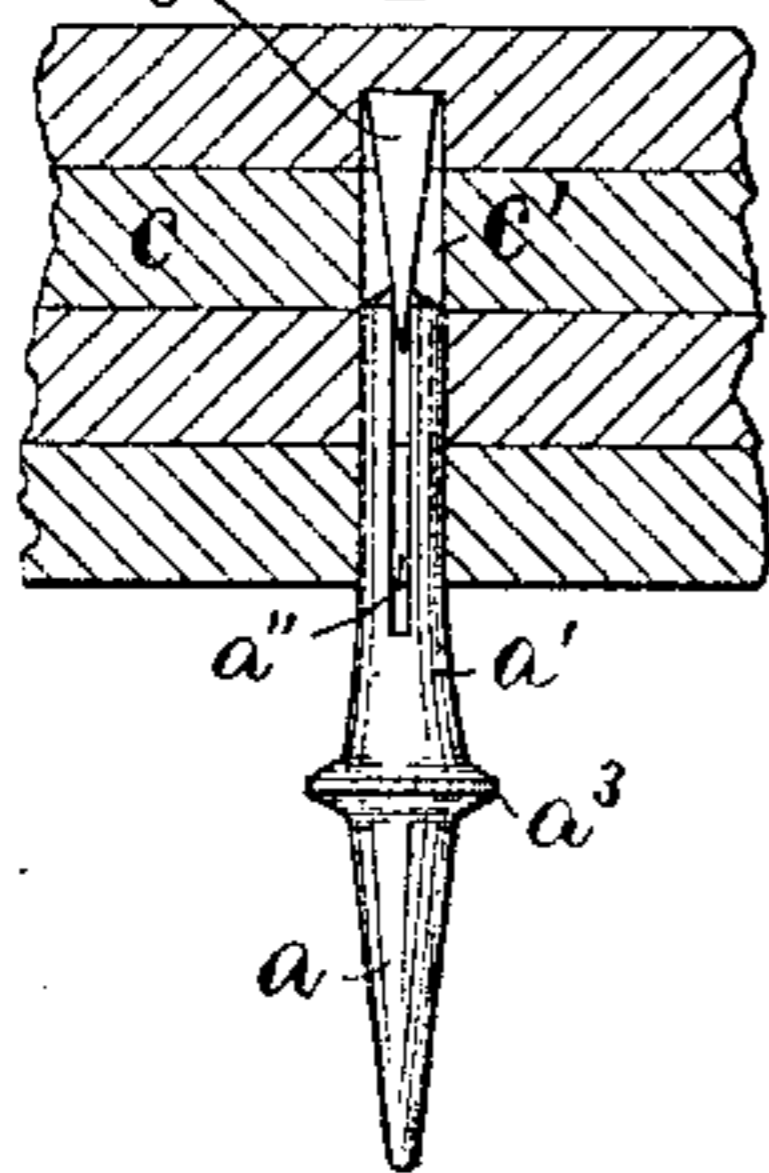
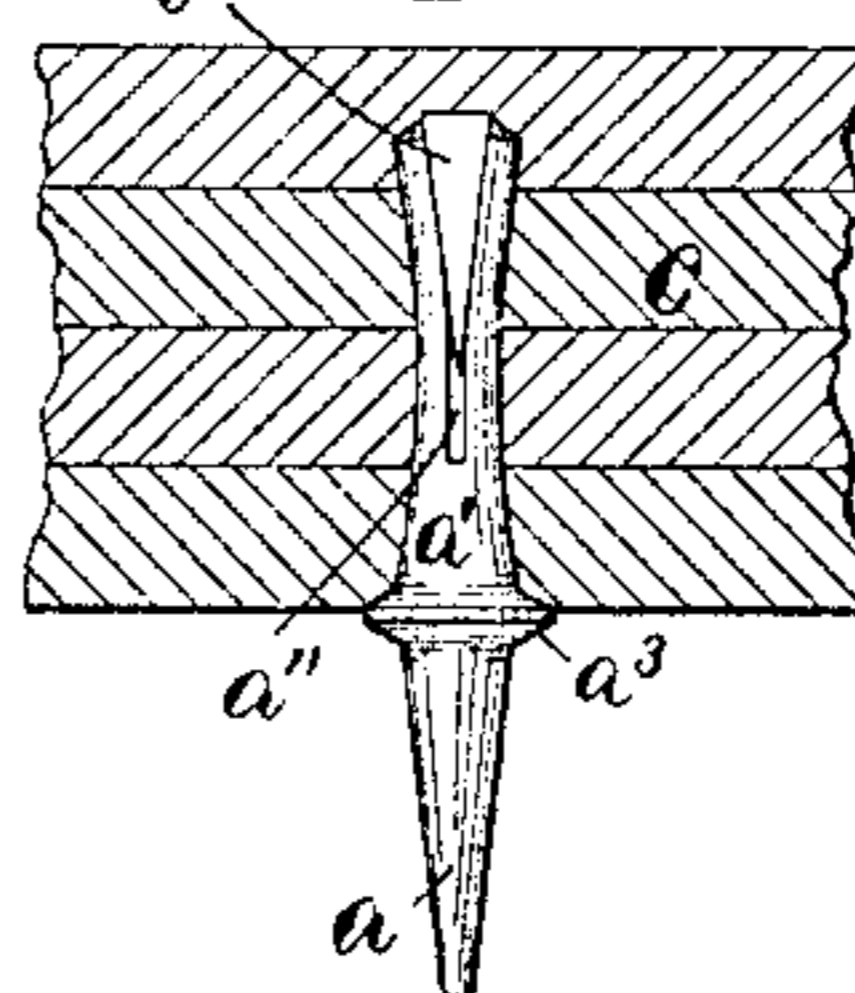


Fig. 5.



Witnesses

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by Alban Audréin, his atty.

# UNITED STATES PATENT OFFICE.

HENRY W. DE COURTENAY, OF BOSTON, MASSACHUSETTS.

## SHOE-CALK.

SPECIFICATION forming part of Letters Patent No. 285,582, dated September 25, 1883.

Application filed February 14, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY W. DE COURTENAY, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Shoe-Calks; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawings.

This invention relates to improvements in shoe-calks for the use of lumbermen, miners, sportsmen, or others requiring the need of calks secured to the under side of boots and shoes.

The invention is carried out as follows, reference being had to the accompanying drawings, where—

Figure 1 represents a side elevation of my improved shoe-calk. Fig. 2 represents a side view of the wedge or spreader used in connection with the calk. Fig. 3 represents a view of the wedge and calk as put together previous to driving the shank into the boot or shoe sole. Fig. 4 represents a sectional view of a portion of a boot or shoe sole with the calk and wedge shown in the act of being driven; and Fig. 5 represents a sectional view of a portion of a boot or shoe sole, showing the calk as driven "home" in the perforation in the sole and the split shank as expanded by the wedge.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

$a$  is the conical or tapering and pointed downwardly-projecting head of the shoe-calk.  $a'$  is the shank, adapted to be driven into the shoe-sole, which shank is provided with a central slit,  $a''$ , extending from the upper end of the shank more or less toward the annular collar  $a^3$  of the conical or tapering head  $a$ , as may be desired.  $b$  is a tapering wedge or expander, which is inserted into the upper end of the split shank, as shown in Fig. 3, previous to

driving it into the perforation in the under side of the boot or shoe sole.

In Fig. 4,  $c$  represents a portion of a boot or shoe sole, and  $c'$  is a perforation into which the calk is to be secured.

The manner of driving and securing this my improved calk into the boot or shoe sole is as follows: The wedge or expander  $b$  is first inserted into the upper end of the slit  $a''$  in the upper end of the shank  $a'$ , as shown in Fig. 3. The shank and wedge are then inserted into the desired perforation in the sole, and driven into it by means of any of the usual tools for driving calks, during which operation the base of the wedge  $b$  is caused to stop against the bottom of the perforation  $c'$  in the shoe-sole, as shown in Fig. 4; and as the calk is further driven into the sole the wedge  $b$  is caused to enter the slit  $a''$  of the split shank  $a'$  still farther, and thus to cause the upper ends of the split shank to be expanded into the leather surrounding the perforation in the shoe-sole, as shown in Fig. 5, by which the calk is secured very firmly in place in the sole without any liability of being accidentally detached therefrom when the shoe is in use, or in case the leather gets dry, which is a common source of annoyance with the ordinary shoe-calks.

Having thus fully described the nature and construction of my invention, I wish to secure by Letters Patent and claim—

The herein-described boot or shoe calk, having conical or tapering and pointed head  $a$ , with the split shank  $a'$ , having slit  $a''$ , combined with the tapering wedge or expander  $b$ , as and for the purpose set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

HENRY W. DE COURTENAY.

Witnesses:

ALBAN ANDRÉN,

HENRY CHADBURN.