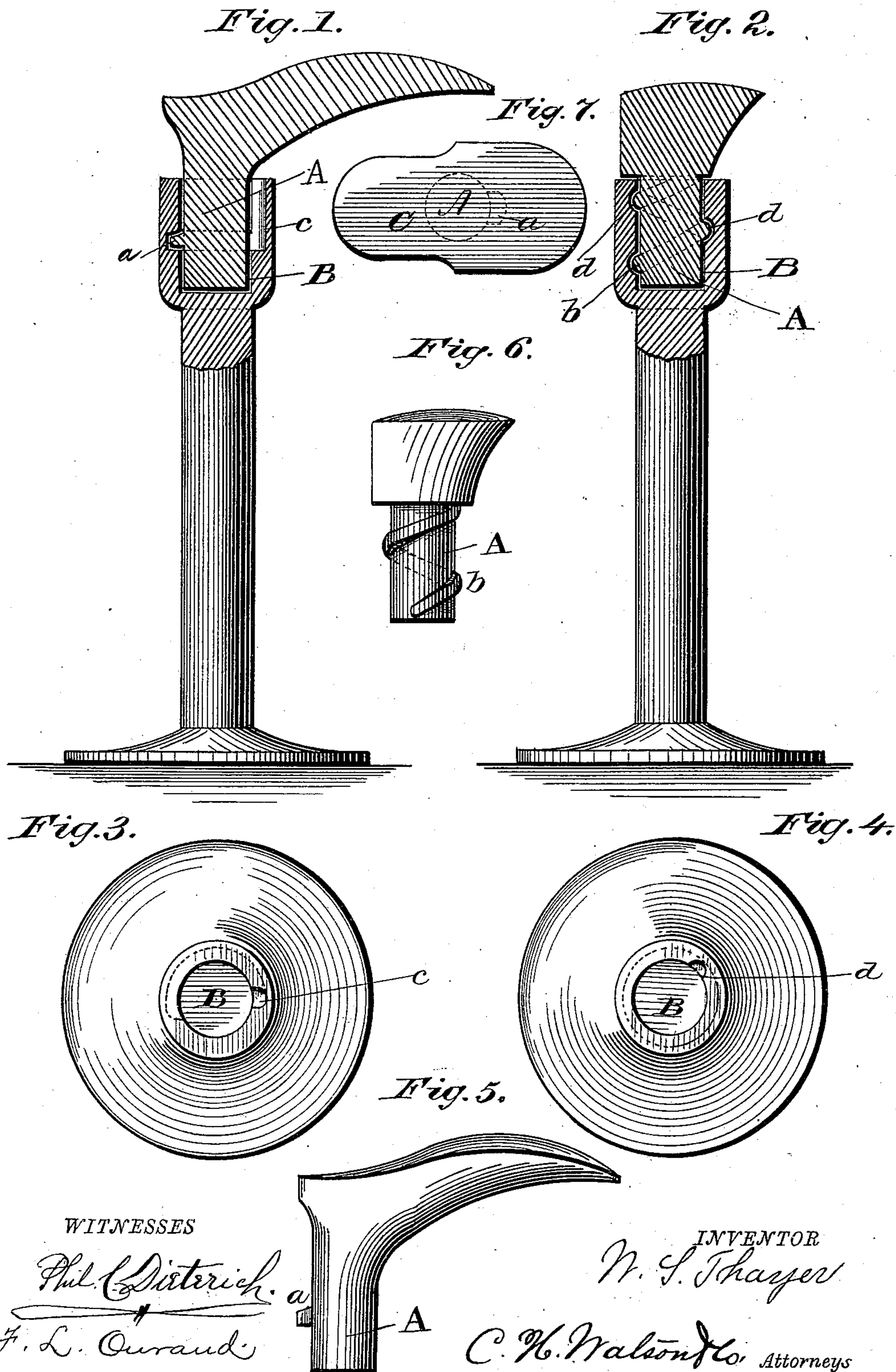


(No Model.)

W. S. THAYER.
LAST AND LAST STANDARD.

No. 374,564.

Patented Dec. 6, 1887.



UNITED STATES PATENT OFFICE.

WILLIAM S. THAYER, OF OWEGO, NEW YORK, ASSIGNOR OF ONE HALF TO
WILLIAM H. LOUNSBURY, OF SAME PLACE.

LAST AND LAST-STANDARD.

SPECIFICATION forming part of Letters Patent No. 374,564, dated December 6, 1887.

Application filed July 19, 1887. Serial No. 244,741. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. THAYER, a citizen of the United States, residing at Owego, in the county of Tioga and State of New York, have invented certain new and useful Improvements in Lasts and Standards; 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, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in iron lasts and standards, whereby the repairing and manufacture of boots and shoes are greatly facilitated. Its objects are to provide a way to secure the different parts firmly in the standard while in use, and when removing the boot or shoe the heel, toe, or double-heel pieces will remain in the standard and not necessitate their removal from the boot or shoe, and it will prevent any looseness or play of pieces while in use, and also provides in the one last a double heel-piece of two sizes—a last that will answer for working two different sizes of heel-pieces as in use ordinarily, and without the trouble of removal from standard. I attain these ends by the means illustrated in the accompanying drawings, in which—

Figures 1 and 2 are side elevations, partly in section, showing, respectively, standards with right-angled groove and circular groove. Figs. 3 and 4 are top views of the standards. Figs. 5 and 6 are side elevations of shank of any piece, showing, respectively, circular thread and projection detached from grooved socket. Fig. 7 is a top view of double heel.

The round tenon or shank A is provided with projection *a* or thread *b*, as shown in Figs. 5 and 6, that enables it to be turned or screwed into socket B, thereby securing firmly all pieces applied to a standard and used in the manufacture or repairing of boots and shoes. Socket B of standard is to be grooved or burred in a corresponding manner to tenon or shank A, so as to receive thread *b* or projection *a* of same, so as to hold it firmly and solidly when in place. Groove *c* in socket B,

when projection *a* is used, consists of right-angled groove. When thread *b* is used, groove *d* will extend from one end of socket to the other. The thread *b* of tenon or shank A does not extend to the bottom of shank, for this would prevent it from being held solid on the bottom of socket and would fail to protect the thread of the shank from being broken while in use. For these same reasons the burr or groove *c* of socket must extend the entire length of socket, and must also be a trifle larger than the thread of shank. The projection *a* on tenon or shank A will be of such shape as to be readily adjusted to angled groove *d* in socket B.

The double heel-piece C consists of two sized heels, cast solidly, provided with shank A, projection *a*, or thread *b*, and is formed, as shown, to answer for two castings of heel-pieces when in use as now made, thereby greatly saving in number of heel-lasts necessary to the manufacture or repairing of boots or shoes, as well as saving of time required for adjustment in standard.

To adjust shank or tenon of heel, toe, or double heel-piece to standard, the projection of shank is placed directly over groove and pushed down until projection *a* comes in contact with bottom of groove *c*, which brings end of shank against bottom of socket. This portion, being adjusted, is turned to the right or left, the projection following angled groove to its full extent, when the pieces are firmly secured and ready for use.

The threaded shank is easily and readily adjusted by placing thread of shank over groove of socket and turning into place.

The double heel-piece is used as all other lasts, in connection with a standard, and is adjusted in the same manner.

I am aware that standards and lasts for the manufacture and repairing of boots and shoes, provided with socket, whereby shank of pieces can be set into upper end of socket and adapted to receive peg-float, and standards formed with recesses are not new. I therefore do not claim this broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. As an improvement on lasts and stand-

ards, the tenon or shank A, provided with
projection *a*, in combination with socket B,
having the groove *c*, or its equivalent, sub-
stantially as described, and for the purpose
5 set forth.

2. As an improvement on lasts and stand-
ards, the shank A, provided with projection
a or thread *b*, in combination with socket B,
with grooves *c* or *d*, and the double heel-piece

C, or solid or detachable heel and toe pieces, so
substantially as described.

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

WILLIAM S. THAYER.

Witnesses:

OTIS S. BEACH,

A. W. PARMELEE.