

G. M. WELLS.  
Lasts.

No. 216,491.

Patented June 10, 1879.

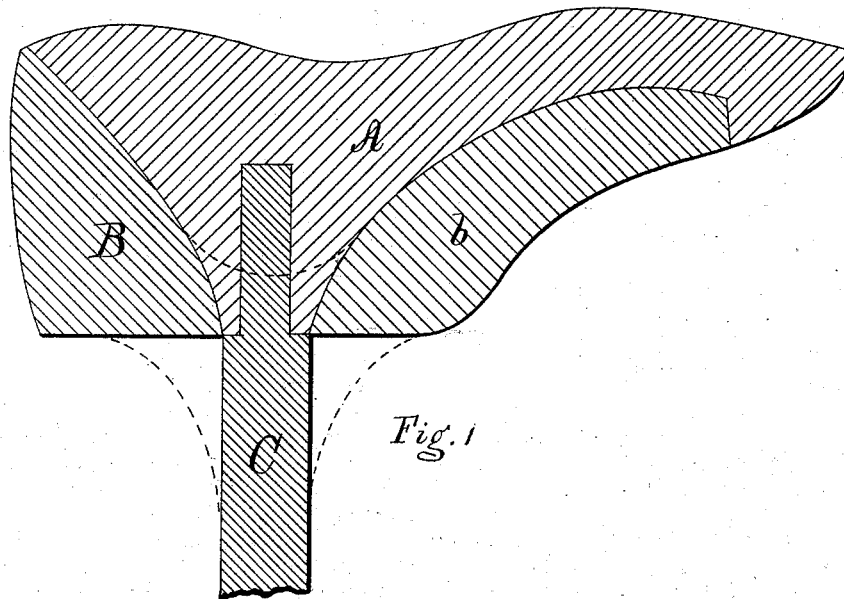


Fig. 1

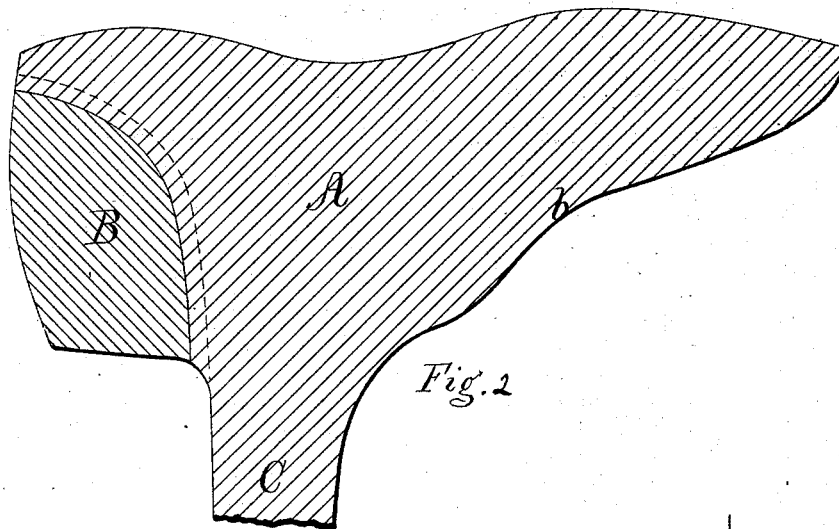


Fig. 2

Witnesses.

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# UNITED STATES PATENT OFFICE.

GEORGE M. WELLS, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN LASTS.

Specification forming part of Letters Patent No. **216,491**, dated June 10, 1879; application filed November 13, 1876.

*To all whom it may concern:*

Be it known that I, GEORGE M. WELLS, of Chicago, Cook county, State of Illinois, have invented an Improved Last, of which the following is a specification.

In the drawings, Figure 1 is a longitudinal vertical section of one form of last embodying my invention, and Fig. 2 of a last of a different form, but also embodying my invention.

My invention relates to a new construction of lasts; and consists in the heel-block, more fully described hereinafter.

In Fig. 1, A represents the main portion of a last of the usual construction—*b* being the ordinary block, and B my heel-block. C represents the usual jack or other support for the last.

In Fig. 2 the last is of a different construction from that usually used, the main part A, block *b*, and standard C being all in one piece of cast metal. Here my heel-block B must be so connected to the last that it may be separated from the other part of the last in order to free the last from the shoe, and the means of connection which I prefer is a rib on one member and a corresponding groove on the other, as shown in Fig. 2, and this rib and groove may be dovetailed, if desired.

The shape and size of my heel-block are largely determined (as will be clear to all

skilled in the art) by the class of work to be done, and I do not, of course, intend to confine myself to the curves shown in the drawings.

When these lasts are made of metal, (and my invention is more particularly designed for metal lasts,) the standard C may be cast in one piece with the part A; or (for some classes of work) the parts B, C, and *b* may be cast in one piece, as is indicated by dotted lines in Fig. 1; but the standard C constitutes no part of my present invention.

When the parts B, C, and *b* are cast in one piece, that part of the standard C which extends beyond the dotted line crossing the standard is omitted.

I am aware that in boot and shoe trees the foot is commonly in two parts, and I do not, of course, claim a last in two parts; but a last with a heel-block, by which I mean a block no part of which forms part of the sole of the last, is new with me.

What I claim is—

The improved last consisting of the heel-block B and main part A, the bottom of A forming the entire sole of the last, substantially as described.

GEO. M. WELLS.

Witnesses:

J. E. MAYNADIER,  
GEO. O. G. COALE.