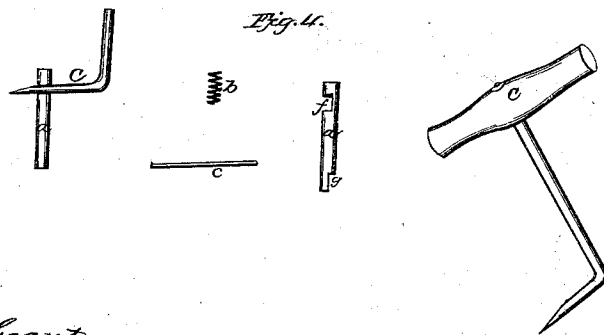
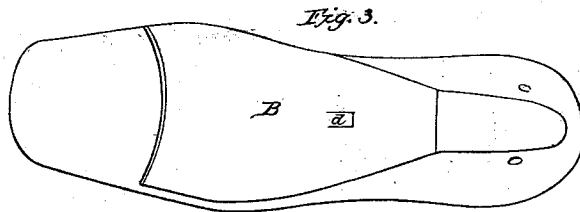
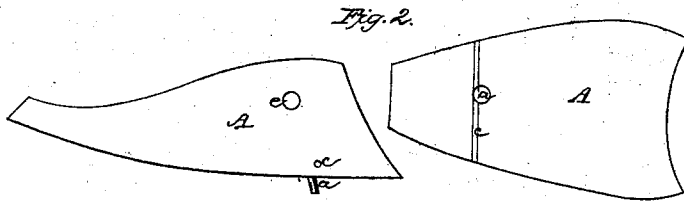
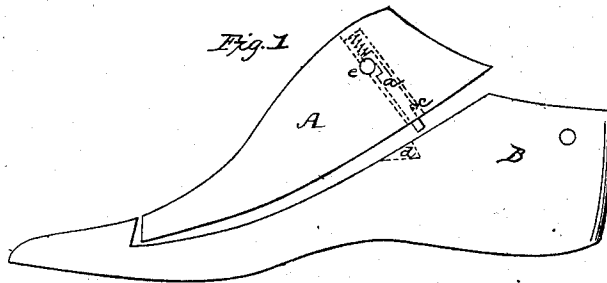


D. M. TRUE.
LAST.

No. 22,904.

Patented Feb. 8, 1859.



Witnesses
Abner E. Grant
A. R. Bill

Inventor
D. M. True

UNITED STATES PATENT OFFICE.

D. M. TRUE, OF ROCKLAND, MAINE.

LAST.

Specification of Letters Patent No. 22,904, dated February 8, 1859.

To all whom it may concern:

Be it known that I, D. M. TRUE, of Rockland, county of Lincoln, State of Maine, have invented a new and Improved Mode of Fastening Last-Blocks onto Lasts; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in arranging within the last-block a bolt which passes into the last diagonally with the face of the block, thereby preventing the block from rising or slipping from its place; which I denominate a last-block fastener.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation, reference being had to the annexed drawings, making a part of this specification; in which—

Figure 1 is a side view of the last with the block raised; Fig. 2 is a side and bottom view of the block; Fig. 3 is a top view of the last without the block; Fig. 4 is a view of the detached parts of the fastening and last hook.

In constructing the fastening I make and use the parts *a*, *b*, and *c*, as shown, Fig. 4; the bolt *a*, consists of iron, or other suitable material, with a notch *f*, near the upper end, and a shoulder *g*, on the lower end.

b, represents a spiral spring, and *c*, a wire pin.

I bore a hole in the block as in A, Fig. 1, commencing in the lower face of the block passing up by the lasthook-hole *e*, and cutting about $\frac{1}{4}$ of its diameter through it, and coming to an end before it passes out through the top of the block. I then place in the end of this hole the spiral spring *b*, Fig. 1. I then place in the same hole the bolt *a*, as in Fig. 1, with the end that contains the notch *f*, against the spring *b*, the notch *f*, facing the lasthook-hole *e*. I then

pass the wire pin *c* through the block A, Figs. 1 and 2, passing through one side of the hole made to receive the bolt *a* and spring *b*, in such a manner as to rest against the shoulder *g* in the bolt *a*, thereby preventing the bolt *a*, from coming out or turning around. I also cut a notch mortised, in the last B, Figs. 1 and 3, to receive the bolt *a*, which prevents the block from rising or slipping from its place.

To operate this fastening, I make a lasthook in the common form, and scarp the end of the hook, which gives it a wedge shape, as shown by C, Fig. 4. To fasten the block A, Fig. 2, to the last B Figs. 1 and 3, I place the block on the last with the end of the bolt *a*, a little back of the notch mortise *d*. I then press them together and slip the block to its place; when the spring *b*, shoves the bolt *a*, to its place in the mortise *d*, at the same bringing the notch *f* in the bolt *a*, near the bottom of the lasthook-hole *e*, when by the action of the bolt *a* and the mortise *d* the last and block become firmly fastened together. To remove the block from the last, I pass the point of the lasthook C, Fig. 4, into the lasthook-hole *e* Fig. 1, when the end of the lasthook slides against the top of the notch *f*, in the bolt *a*, as shown in Fig. 4, and raises the bolt *a* from the mortise *d* Figs. 1 and 3; I then draw the block from the last in the usual manner.

I do not claim the use of the bolt and spring to be used for a fastening as new but

I claim—

As a fastening for last blocks, the bolt *a* when formed with the notches *f* and *g*, combined and arranged with the spring *b*, the pin *c*, and lasthook hole *e*.

D. M. TRUE.

Witnesses:

PHILO THURSTON,
Z. POPE VOSE.