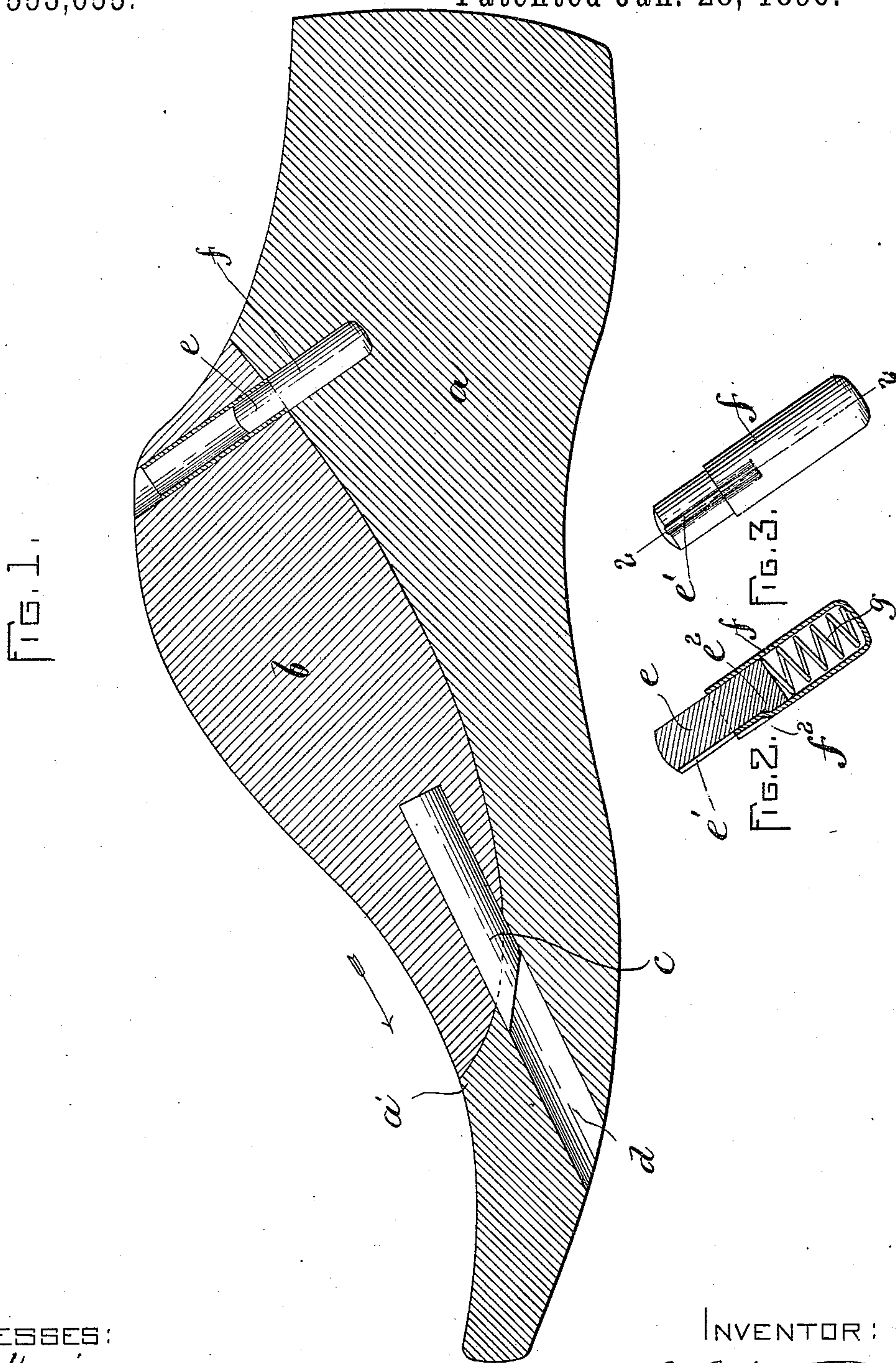


(No Model.)

E. S. MORTON.  
LAST BLOCK FASTENER.

No. 553,655.

Patented Jan. 28, 1896.



WITNESSES:

*A. D. Harrison*  
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*Atty*



# UNITED STATES PATENT OFFICE.

EPHRAIM S. MORTON, OF BROCKTON, MASSACHUSETTS.

## LAST-BLOCK FASTENER.

SPECIFICATION forming part of Letters Patent No. 553,655, dated January 28, 1896.

Application filed August 11, 1894. Serial No. 520,037. (No model.)

*To all whom it may concern:*

Be it known that I, EPHRAIM S. MORTON, of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Lasts and Last-Block Fasteners, of which the following is a specification.

This invention relates to lasts having movable blocks which are locked by a spring-pressed bolt at the upper end of the block and by a co-operating projection and recess at the lower end of the block.

The invention has for its object, first, to improve the form and arrangement of the co-operating projection and recess at the lower end of the block, whereby certain objections hereinafter mentioned to the prevailing construction are obviated; secondly, to provide a locking-bolt of inexpensive, simple, and durable construction and adapted to be readily applied to the last.

To these ends the invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a longitudinal section of a last provided with my improvements. Fig. 2 represents a longitudinal section of the block-fastening device, taken on the line 2 2 of Fig. 3. Fig. 3 represents a side view of the block-fastening device.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents the last and *b* the block, said parts being of the usual or any suitable form, the last preferably having a seat *a'* for the lower end of the block and a socket *d* receiving a pin *c* on the block.

The upper portion of the block is locked to the last by means of a spring-pressed bolt *e*, which forms a part of my improved locking device or block-fastener. Said locking device comprises the bolt *e*, a tubular sheet-metal socket *f*, and a spring *g*. The lower end of the socket is closed to form a seat for the

spring, as shown in Fig. 2, and a portion of the metal at the outer end of the socket is pressed inwardly to form a rib *f*<sup>2</sup>, which is integral with the body of the socket. The bolt *e* has a longitudinal groove *e'*, which receives the rib *f*<sup>2</sup>, is open at the outer end of the bolt, and terminates in a shoulder *e*<sup>2</sup> near the inner end of the bolt, said shoulder co-operating with the end of the rib *f*<sup>2</sup> in limiting the outward movement of the bolt. The spring *g* is interposed between the bottom of the socket and the inner end of the bolt, as shown in Fig. 2.

It will be seen that this form of fastening device can be very simply and inexpensively made, and is strong and durable in construction, the parts being secured together, so that they cannot be separated, simply by forcing a part of the body of the socket into the slot in the bolt.

To attach the fastening device to the last, it is necessary only to drive the socket *f* into a hole prepared for it in the last.

I claim—

A last-block fastening comprising a bolt *e* having a slot *e'* in one side extending from one end of the bolt partly to the other end, said slot being open at the outer end of the bolt and having a closed inner end or shoulder *e*<sup>2</sup>; a tubular sheet-metal socket *f* formed to receive said bolt and having a portion of its body pressed inwardly to form an integral rib *f*<sup>2</sup> extending into the slot *e'*, the inner end of said rib and the shoulder *e*<sup>2</sup> at the inner end of the slot *e'* constituting stop-members which prevent the withdrawal of the bolt from the socket; and a bolt-projecting spring contained in the inner portion of the socket.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 7th day of August, A. D. 1894.

EPHRAIM S. MORTON.

Witnesses:

C. F. BROWN,  
A. D. HARRISON.