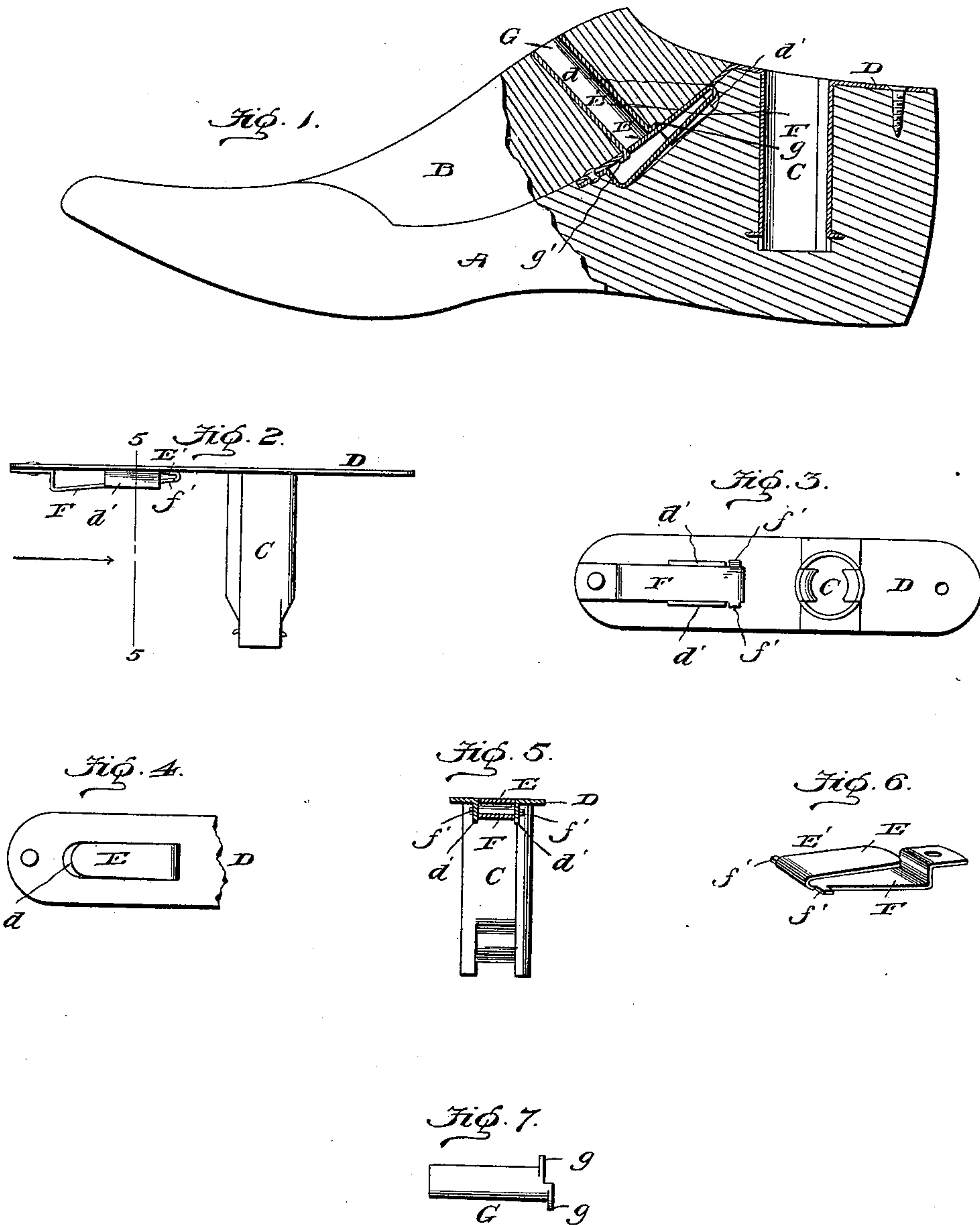


No. 637,292.

Patented Nov. 21, 1899.

J. E. SCOTT.  
LAST BLOCK FASTENER.  
(Application filed Mar. 23, 1899.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN E. SCOTT, OF PHILADELPHIA, PENNSYLVANIA.

## LAST-BLOCK FASTENER.

SPECIFICATION forming part of Letters Patent No. 637,292, dated November 21, 1899.

Application filed March 23, 1899. Serial No. 710,226. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN E. SCOTT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Last-Block Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention relates to improvements in devices or means for connecting a last-block to a last, and particularly to that style of fastening means forming the subject of an application, Serial No. 705,325, heretofore filed by me.

In the accompanying drawings, Figure 1 is a longitudinal vertical sectional view through a last and last-block having my improvements applied thereto. Fig. 2 is a side elevation of the member of my improved fastening which is intended to be applied to the last, said member being in the form it has before being attached to the last. Fig. 3 is a plan view of the same. Fig. 4 is a top plan view of a portion of the plate, showing the tongue in position. Fig. 5 is a transverse sectional view on the line 5 5 of Fig. 2 looking toward the thimble or lining for the spindle-socket of the last. Fig. 6 is a detail view of the spring forming a part of my improved fastener. Fig. 7 is a detail view of the member of the fastener that is applied to the last-block.

Referring to the drawings, in which like letters of reference denote corresponding parts in the several figures, A designates the last, and B the detachable last-block. These parts may be of any of the well-known forms and shapes, my improvements being intended for use with any forms of such articles.

It is well known that it is necessary to employ some means by which the last-block can be securely fastened to or on the seat provided therefor on the last and held firmly in proper position for use. Such fastening means must, however, be such that the last-block can be readily disengaged and removed from the last when desired. To provide such a fastener which shall be simple in construction and occupy a relatively small space, one member being attached to the last and the other se-

cured to the last-block, is the purpose of my invention. It is customary also to provide a lining for the spindle-socket of the last, and therefore I have shown my improved fastening device, or rather that member of such device as is attached to the last, as connected with such a thimble C.

The last member of my improved fastening consists of a plate D, which in the embodiment of the invention herein illustrated is shown as connected to the upper end of the thimble C and as extending in diametrically opposite directions radially therefrom. One of these radially-extending portions is of relatively great length and is adapted to extend beyond the forward edge of the top surface of the last and be bent down over and lie close against the inclined surface of the seat formed on the last to receive the last-block B. A slot is cut in said section of the plate D and a spring-tongue E is arranged to fit within said slot. This tongue E is formed by bending a spring-metal arm upon itself to form two members E F, which diverge or separate one from the other from their connected end outward. The free end of the member F of this spring-arm is riveted or otherwise suitably fixed to the under side of the plate D, and said member extends longitudinally of said plate beneath the slot *d* therein, it passing between depending lugs *d'* on said plate. The said member F is provided at points on the opposite side of the lugs *d'* from the connection of said member to the plate D with two laterally-extending lugs *f'*, which by engagement with said lugs prevent movement of the spring toward the free end of the plate D. The lugs *d'* may be formed integral with the plate D by bending them downwardly at the time of forming the slot *d*, the metal in said lugs originally extending across that section of the plate in which the slot is cut.

As shown in Fig. 1, a groove or socket is formed in the face of the last over which the plate D extends, said socket or groove being of such size as to admit the lugs *d'* and spring member F, and the body of the plate D bears close against the surface of the last about said socket.

The member of the fastening device which is attached to the last-block is like that in my aforesaid earlier application—that is, a tubu-



lar stud G is secured within a passage in the last-block and is provided at its lower end with two oppositely-extending radial flanges  $g g'$ , that at  $g'$  being below that at  $g$ . The  
 5 free end of the spring-tongue E is of such form as to fit close against the inner wall of that portion of the tube G between the flanges  $g g'$ .

By reference to Fig. 3 it will be seen that  
 10 the tongue E does not extend the entire length of the slot  $d$  in the plate D, its free end being separated from the adjacent end of the slot by a space equal to the thickness of the walls of the stud G.

15 The lugs  $d'$  are of such length as to extend from the plate D to the bottom or back wall of the groove or socket formed in the last-block seat, and this insures a firm bearing between the plate D and the last on opposite  
 20 sides of the slot  $d$ .

The manner of using my improvements and the advantages thereof will be readily understood and appreciated from the drawings and the above description.

25 Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of a last, a plate attached to the last and having a slot therein,  
 30 a headed stud attached to the last-block and adapted to extend through the slot in said plate, and a retaining-spring arranged in a groove formed in the last below said plate and consisting of two diverging arms, one of  
 35 which is secured to the plate and the other of which extends into said slot in the plate

and into engagement with the stud of the last-block, substantially as set forth.

2. The combination with a last and a detachable last-block, a plate secured to the  
 40 last and having a slot formed therein and arranged above a groove formed in the last, a tubular stud secured to the last-block and having at its lower end a projecting head adapted to enter said slot and engage with  
 45 the plate on the last, and a spring-tongue arranged beneath the said plate and extending between lugs thereon into the slot therein and adapted to engage with the headed stud on the last-block, substantially as set forth. 50

3. The herein-described fastener for detachably connecting a last-block to a last consisting of a plate adapted to be attached to the last and having a slot formed therein,  
 55 two lugs arranged on the under side of the plate, a spring-arm having its body extending between said lugs and one end secured to the plate, the said arm being bent upon itself at a point beyond said lugs to provide a  
 60 spring-tongue that extends upwardly into said slot in the plate, and a tubular stud adapted to be attached to a last-block and having at one end a head adapted to extend through the said slot and be held in engagement with the plate on the last by said spring-tongue, 65 substantially as set forth.

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

JOHN E. SCOTT.

Witnesses:

C. P. TOMLINSON,  
 H. MURPHY.