

No. 670,043.

Patented Mar. 19, 1901.

J. P. WALSH.
LAST BLOCK FASTENER.
(Application filed June 21, 1900.)

(No Model.)

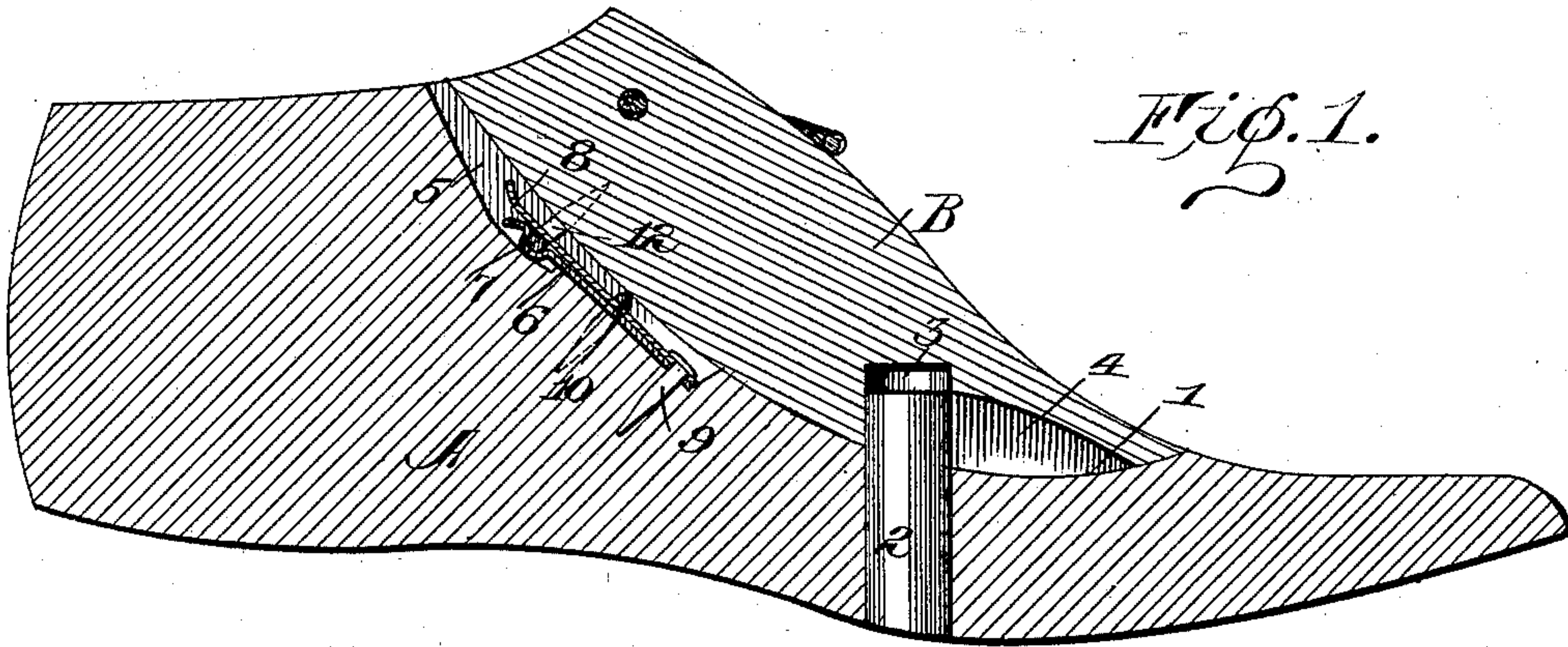


Fig. 1.

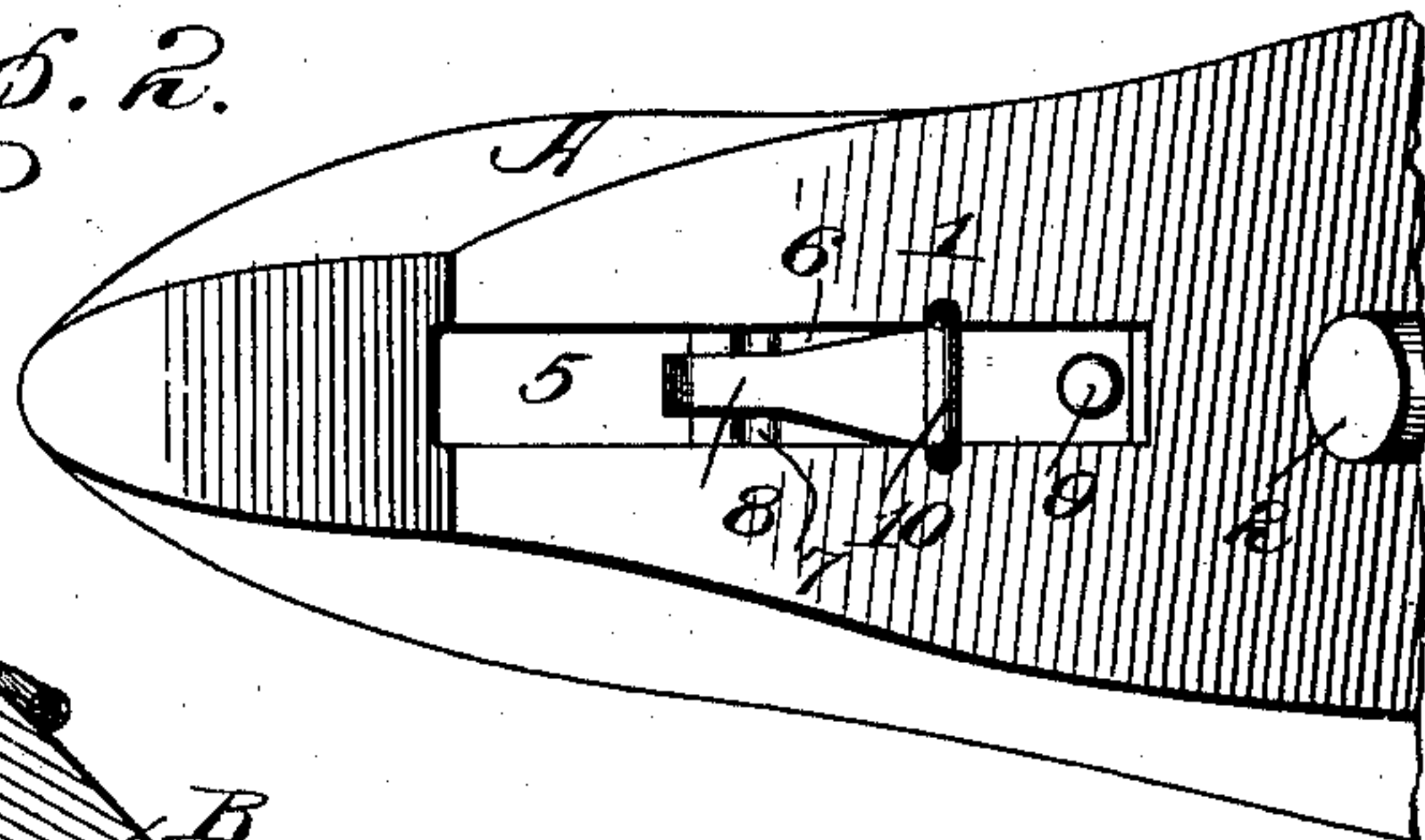


Fig. 2.

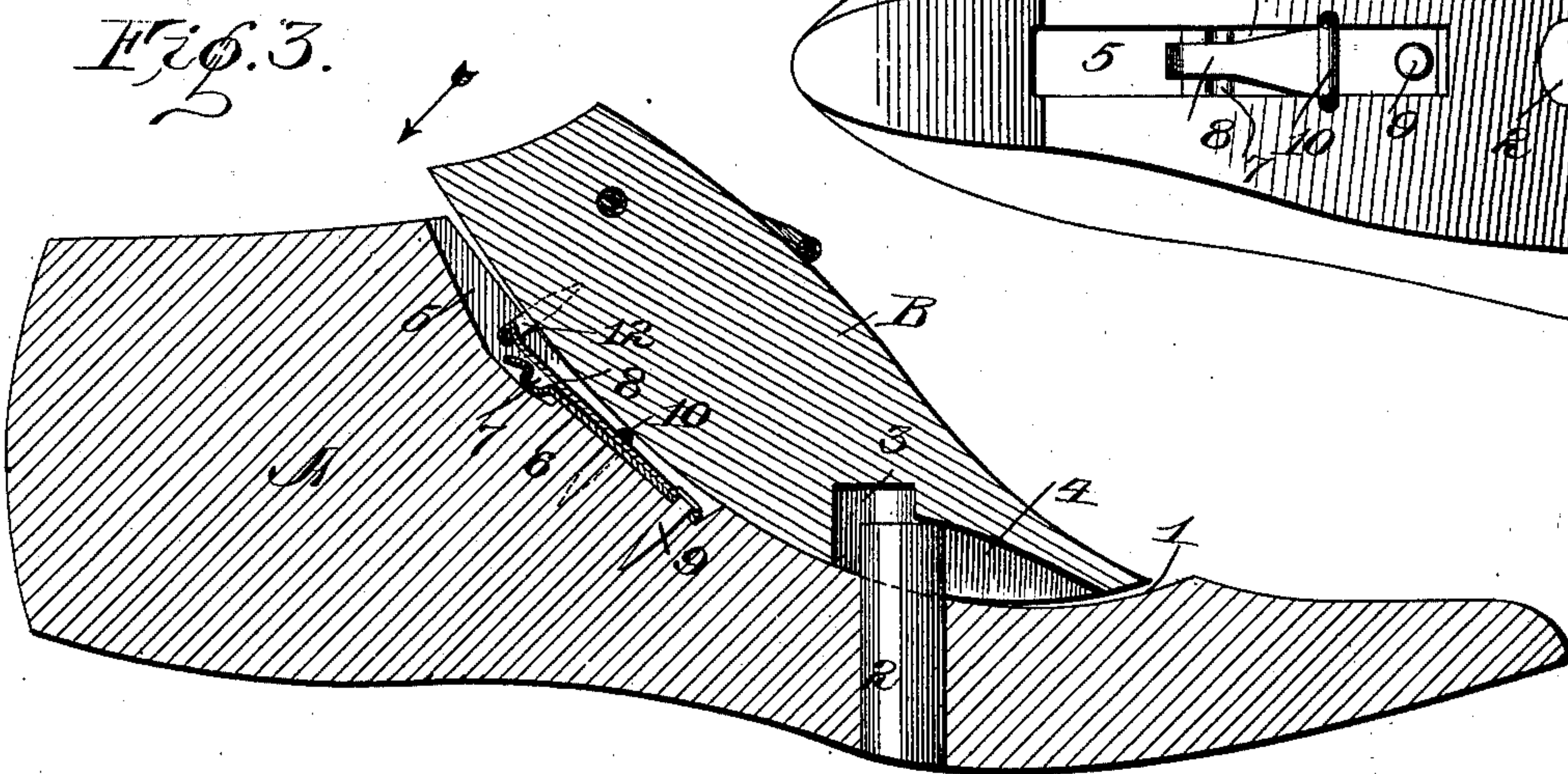


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN P. WALSH, OF ROCHESTER, NEW YORK, ASSIGNOR OF ONE-HALF TO
JOHN A. ROBERTSON, OF SAME PLACE.

LAST-BLOCK FASTENER.

SPECIFICATION forming part of Letters Patent No. 670,043, dated March 19, 1901.

Application filed June 21, 1900. Serial No. 21,098. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. WALSH, of Rochester, in the county of Monroe and State of New York, 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 same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference characters marked thereon.

My present invention has for its object to provide an improved form of fastening device to be employed in securing the removable blocks to shoe-lasts, and embodies such an arrangement of parts that the block can be easily and quickly removed from or secured to the last without the use of tools and when in position to be securely locked against accidental displacement by use or by rough handling.

To these and other ends the invention consists in improvements in construction, all as will be hereinafter fully described, the novel features being pointed out in the claims at the end of this specification.

In the drawings, Figure 1 is a longitudinal sectional view of a shoe-last, illustrating a fastener constructed in accordance with my invention; Fig. 2, a top plan view of the last with the block removed; Fig. 3, a sectional view similar to Fig. 1, showing the method of applying the block.

Similar reference characters indicate similar parts.

My fastener is adapted to be applied to the usual style of last embodying the last-body A, having upon its upper side the ordinary recess or depression, forming the curved face 1, against which the block B is fitted and secured when in operation.

2 indicates the usual dowel-pin, secured in the body A and adapted to engage a recess 3, formed in the lower forward side of the block B and adapted to limit the downward movement of the latter and to position it and prevent lateral movement of the parts. A channel 4 is formed in the lower side of the block leading from the forward side of the recess 3 to allow the block to be slipped into position.

The fastener is arranged in a longitudinal

recess or channel 5, provided centrally in the face 1 of the last, and embodies a rigid member 6, having upon its upper end a curved or recessed portion, forming a catch or shoulder 7, and a flexible spring member 8, extending over the catch. These members are preferably constructed of sheet metal and may be easily stamped or otherwise formed, as shown. The device is secured in the recess by means of a screw or pin 9 passing through apertures formed in the lower extremities of the two members and into the last, and about midway between the pin and catch is driven a staple 10, which extends over both members, locking them securely together and holding them firmly in position. A single pin might be employed to secure the members or an additional pin similar to the pin 10 might be employed in lieu of the staple; but I prefer to employ the latter, as by so doing the elasticity of the spring 8 is not impaired nor is it weakened by an additional aperture, which might allow it to be bent or even broken when subjected to hard usage. Upon the lower side of the block B, I provide a locking member or bridge formed by a staple 12, adapted to be engaged by the catch 7, and the upper ends of the catch and spring are curved slightly in opposite directions, as shown, to facilitate the entering of the locking member into engagement with the catch.

It will be seen by the present construction and arrangements of the parts that the catch engages the rear side of the locking member or staple, holding the block against any outward pressure when the last is being used, and the sides of said member 12 lying snugly in the recess 5 and the narrowed end of the spring 8 also engaging between the inner sides of the locking member prevent any side movement of the upper end of the block, and the latter can only be removed by lifting the block sufficiently to overcome the pressure of the spring 8 and then drawing it rearwardly, an aperture 15 being provided in the block to allow the insertion of a hook or other suitable instrument to assist in its removal.

The rear side of the catch member preferably lies against the lower side of the recess in the last-body and is positioned and held

rigidly, thereby preventing accidental displacement.

Fastening devices such as I have described are simple and consisting of few parts may be easily applied to lasts already in use, and the block is firmly secured in position by sliding the parts into engagement:

I claim as my invention—

1. In a shoe-last, the combination with a last-body having the removable block sliding thereon, one of said pieces having a recess, of the fastening device arranged in the recess embodying the rigid catch, and the spring-finger extending over the latter, and the locking member secured on the cooperating portion of the last extending into the recess and adapted to engage the catch beneath the spring.

2. In a shoe-last, the combination with a last-body having the recess, the rigid catch arranged therein, and the spring-finger extending over the catch, of the last-block and the locking member thereon extending into the recess and held beneath the spring in engagement with the catch.

3. In a fastener for shoe-lasts, the combination with a last-body provided with a face upon its upper side having the recess and the removable block cooperating with said face, of a rigid catch member, a spring-finger extending over the catch, both of said parts lying in the recess, a single pin passing through both parts and securing them, and a locking member on the block engaged by the latch and held thereon and also prevented from lateral movement by the spring.

4. In a fastener for shoe-lasts, the combination with a last-body having the removable block and one of the parts provided with a recess, of a catch member having the catch

upon one end, a spring-finger extending above the latter, and a pin passing through both members and securing them in the recess, a staple extending over both members arranged between the catch and pin, locking the parts together, the locking member secured to the cooperating last member, the pin on the last-body, and the cooperating channel in the block, whereby the parts may be secured by a sliding movement, and the locking member engaged in the catch.

5. In a fastener for shoe-lasts, the combination with a last-body provided with the face upon its upper side having the recess, the removable block cooperating therewith, and the staple thereon forming a locking member, of the catch member having the shoulder at its upper end and provided with an aperture in its lower extremity, the spring extending over the catch adapted to enter the staple and having the aperture, a pin passing through the apertures and securing the parts to the last, and the staple extending over the spring and arranged between the pin and latch to lock the parts together.

6. The combination with the last-body having the recess, the catch devices located in the recess, embodying the rigid plate having the catch-shoulder and the beveled end, the spring lying upon the plate and having the end extended over the catch-shoulder, of the removable last-block having the staple adapted to enter the recess and engage the spring and catch, and guiding devices between the last and block.

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Witnesses:

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