

F. W. KITTLINGER.
LATCH FOR HINGED LASTS.
APPLICATION FILED OCT. 14, 1909.

971,200.

Patented Sept. 27, 1910.

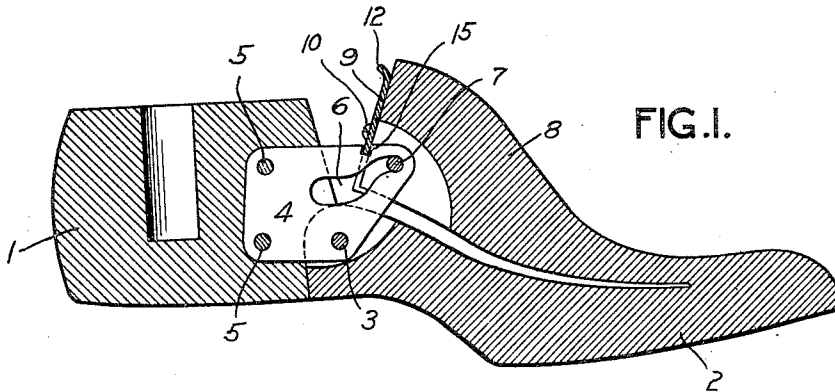


FIG. 1.

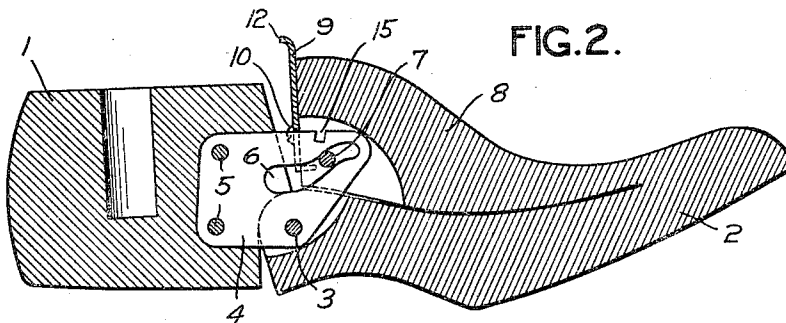


FIG. 2.

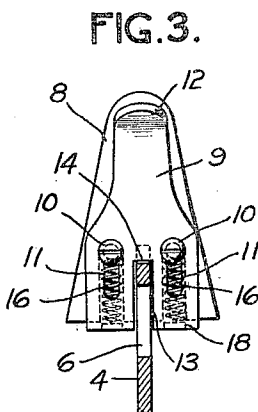


FIG. 3.

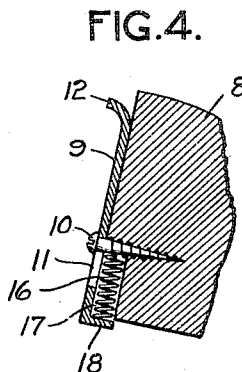


FIG. 4.

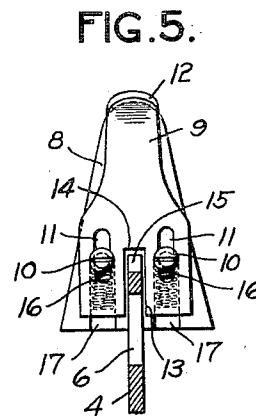


FIG. 5.

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UNITED STATES PATENT OFFICE.

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LATCH FOR HINGED LASTS.

971,200.

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To all whom it may concern:

Be it known that I, FREDERICK W. KITTLINGER, a citizen of the United States, and resident of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Latches for Hinged Lasts, of which the following is a specification.

This invention relates to latches for hinged lasts, the object being to produce a simple and cheap construction, with particular regard for efficient operation. Efficiency is obtained in the device herein set forth by so placing the actuating spring that its pressure is exerted in a direction parallel with the path in which the latch must move to lock the last, and directly upon said latch.

In the drawings:—Figure 1 is a central, vertical section through a last embodying this invention, in the locked position; Fig. 2 is a similar view, the parts being unlocked; Fig. 3 is an enlarged rear view of the latch, in the locked position; Fig. 4 is a section on the line 4—4 of Fig. 3; and Fig. 5 is a view similar to Fig. 3, but showing the parts unlocked.

The last shown herewith comprises a heel-part 1 and a toe-part 2 that is hinged to it upon a pin 3. Said pin extends through a plate 4 that is fastened within the heel-part by pins 5, 5. The plate 4 has a curved slot 6 in its forward portion, and a pin 7 in the instep block 8 projects through said slot, so that when the toe-part is tilted upward as in Fig. 2, the pin 7 is forced downward and the instep block is drawn close to the toe-part 2.

The latch which coöperates with the plate 4 to hold the last extended is a flat plate 9, slidably mounted on the rear face of the instep block 8. A pair of screws 10, 10 extend through slots 11, 11 in the latch 9, and serve to guide it in a vertical path, as well as to hold it up against the instep block. The latch has at its upper end a lip 12 bent over to form a convenient part to grasp.

Midway between the slots 11, 11 is a recess 13, within which lies the plate 4. The upper end 14 of this recess engages a notch 15 in the top of said plate to lock the last, and is held in said notch by spring-pressure. The springs 16, 16 that depress the latch lie directly behind the slots 11, 11 in recesses 17, 17, and rest upon lugs 18, 18 that are turned forward from the lower edge of the latch (Fig. 4). The upper ends of said springs bear against the under sides of the screws 10, 10. As the springs 16, 16 are close to and parallel with the latch 9, it is apparent that their pressure is exerted upon said latch most efficiently to press it into the notch 15. Furthermore, the latch is positively guided by the two screws 10, 10, so that it cannot bind or be forced out of alinement with said springs.

What I claim is:—

1. In a last, a heel-part and a toe-part hinged together, the toe-part being provided with a vertical groove; a vertical plate attached to the heel-part; and a spring-controlled, sliding latch, movable on the toe-part in a direction parallel with the vertical plate to engage and lock it and having two downwardly-extending portions embracing the plate; substantially as shown and described.

2. In a last, a heel-part and a toe-part hinged together, the toe-part being provided with a vertical groove; a vertical plate attached to the heel-part; a sliding latch, movable on the toe-part in a direction parallel with the vertical plate to engage and lock it, and having a spring-supporting lug on each side of said vertical plate; and compressible springs located, respectively, between said lugs and shoulders on said toe-part; substantially as shown and described.

FREDERICK W. KITTLINGER.

Witnesses:

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