

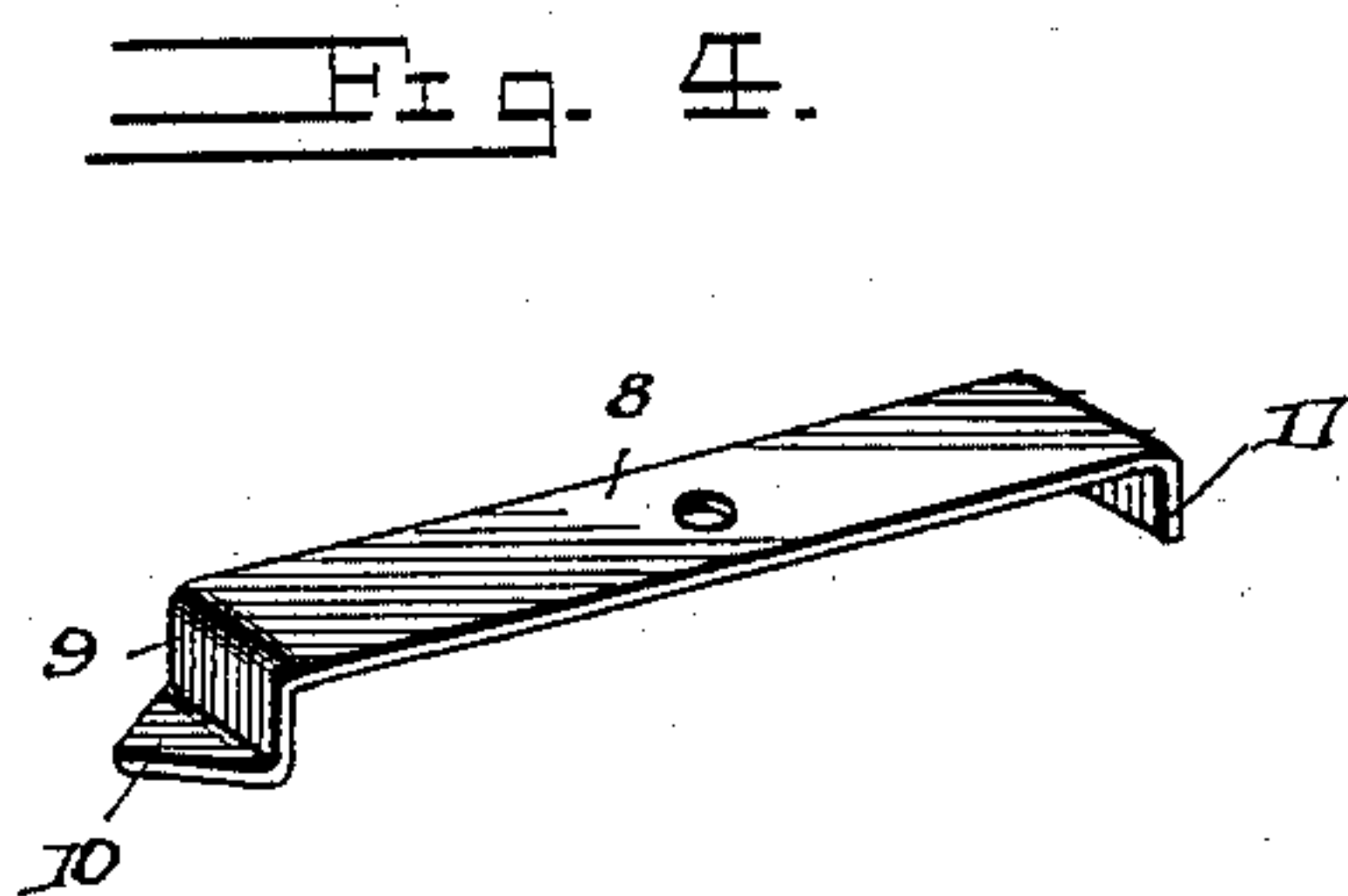
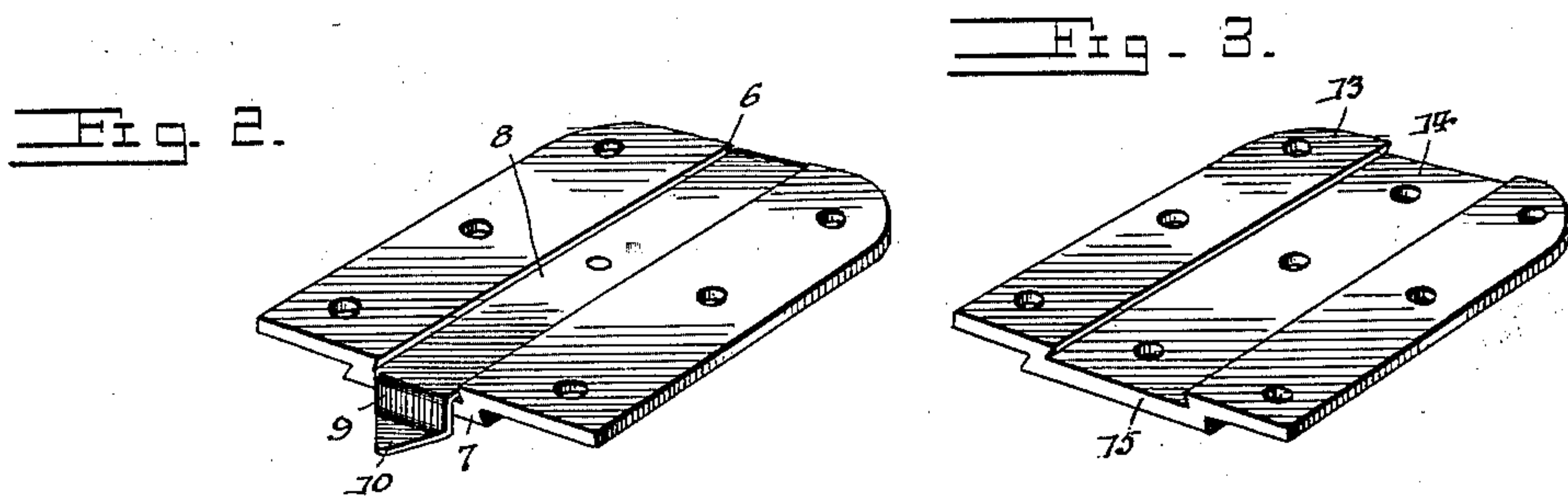
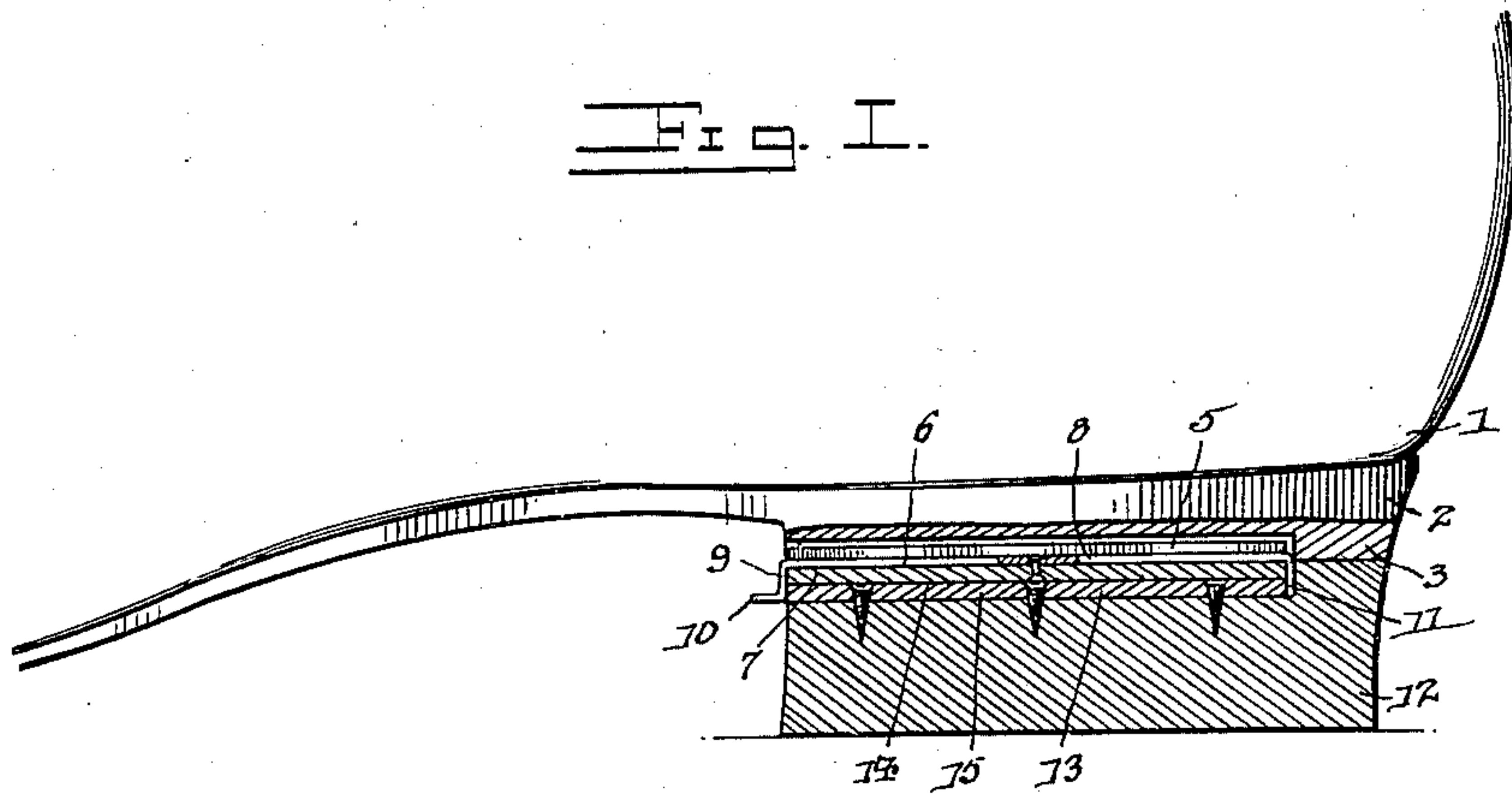
No. 671,408.

Patented Apr. 2, 1901.

M. H. SULLIVAN.
DETACHABLE HEEL.

(Application filed Dec. 3, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

MICHAEL HENERY SULLIVAN, OF CARBONDALE, PENNSYLVANIA.

DETACHABLE HEEL.

SPECIFICATION forming part of Letters Patent No. 671,408, dated April 2, 1901.

Application filed December 3, 1900. Serial No. 38,516. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL HENERY SULLIVAN, a citizen of the United States, residing at Carbondale, in the county of Lackawanna and State of Pennsylvania, have invented a new and useful Detachable Heel, of which the following is a specification.

This invention relates to detachable boot or shoe heels, and particularly to means for fastening the heel-section to the heel portion of a boot or shoe sole; and the object of the same is to provide simple and effective devices having a complementary and accurately-assembling position on the heel-section and sole and which serve to reliably connect the parts and prevent accidental disengagement, but easy of operation to detach the heel-section when desired, whereby one heel-section may be replaced by another in the event of wear or other injury to the primary one, and in some instances to permit different forms of heel-sections to be used on a single pair of boots or shoes.

The invention consists in the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a longitudinal vertical section of the rear portion of a shoe and heel-section, showing the improved fastening means for the latter. Figs. 2 and 3 are detail perspective views of the interlocking members for application to the sole and heel-section. Fig. 4 is a detail perspective view of the spring-plate.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a shoe of any preferred shape or style having the usual sole 2, and on the latter a lift 3 is secured to form a seat for the portion of the fastening carried thereby. In the said seat formed in the lift 3 a plate 5 is secured by suitable means and has an upper longitudinally-extending central groove 6 and a lower similarly extending broad rib 7 directly under the groove. In the said groove a spring-metal plate 8 is centrally or intermediately fastened, the opposite extremities of the same being free to move and the one extremity having a depending angular terminal 9 over the front edge of the plate

provided with an outturned lip 10 and the other extremity having a depending angular stop 11 over the rear end of the plate. Both the terminal 9 and stop 11 have a length or dependence about double the thickness of the metal edges over which they project, so as to provide front and rear catches.

The heel-section 12 has a plate 13 secured to the upper portion of the same and is formed with a central longitudinal groove 14 in the upper side of the same and a lower rib 15 directly under the groove. The plates 5 and 12 are of precisely the same dimensions, and the rib 7 of the plate 5 is received in the groove 14 of the plate 12 by an endwise movement of the heel-section from the front toward the rear end of the said plate 5. Both the side edges of the rib 7 and the side walls of the groove 14 are of a complementary dovetail construction to prevent separation of the heel-section except by longitudinal movement of the latter, and when the plate 13 has been fully applied to the plate 5 the angular terminal 9 and the angular stop 11 of the spring-plate 8 snap, respectively, over the front and rear ends of the said plate 13 and lock the latter against longitudinal movement and accidental displacement. When the heel-section is applied, the terminal 9 and lip 10 are pushed upwardly so as to clear the front end of the rib 7 for entrance into the rear end of the groove 14, and the complete assemblage of the two plates and the locking of the heel-section in place can be readily carried on without requiring direct hand operation of the fastening means. When it is desired to remove the heel-section, the lip 10 and terminal 9 are pressed upwardly to clear the front end of the plate 12, and said section can then be easily moved toward the front and detached.

It will be seen that the fastening means is simple and strong and durable in its construction and can be easily applied without mutilating the heel-section of shoe-sole to any material extent, and it is obviously apparent that changes in the form, size, and proportions of the several parts can be resorted to without departing from the principle of the invention.

Having thus described the invention, what is claimed as new is—

1. A heel-section for a boot or shoe having a grooved plate thereon, combined with a com-

panion plate secured to the sole of the boot or shoe and having a longitudinally-extending spring locking device provided with a rear depending stop and a front depending locking-terminal to respectively engage the rear and front end portions of the plate on the heel-section.

2. A heel-section for a boot or shoe having a grooved plate thereon, combined with a companion plate secured to the sole of the boot or shoe and having a lower rib and an upper groove, and a spring locking-plate disposed in the latter groove and intermediately se-

cured to permit both extremities to have free movement, one extremity being formed with a depending locking-terminal and the other with a depending stop to respectively engage the front and rear ends of the plate on the heel-section. 15

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses. 20

MICHAEL HENERY SULLIVAN.

Witnesses:

C. E. DOYLE,

FRANK S. APPLEMAN.