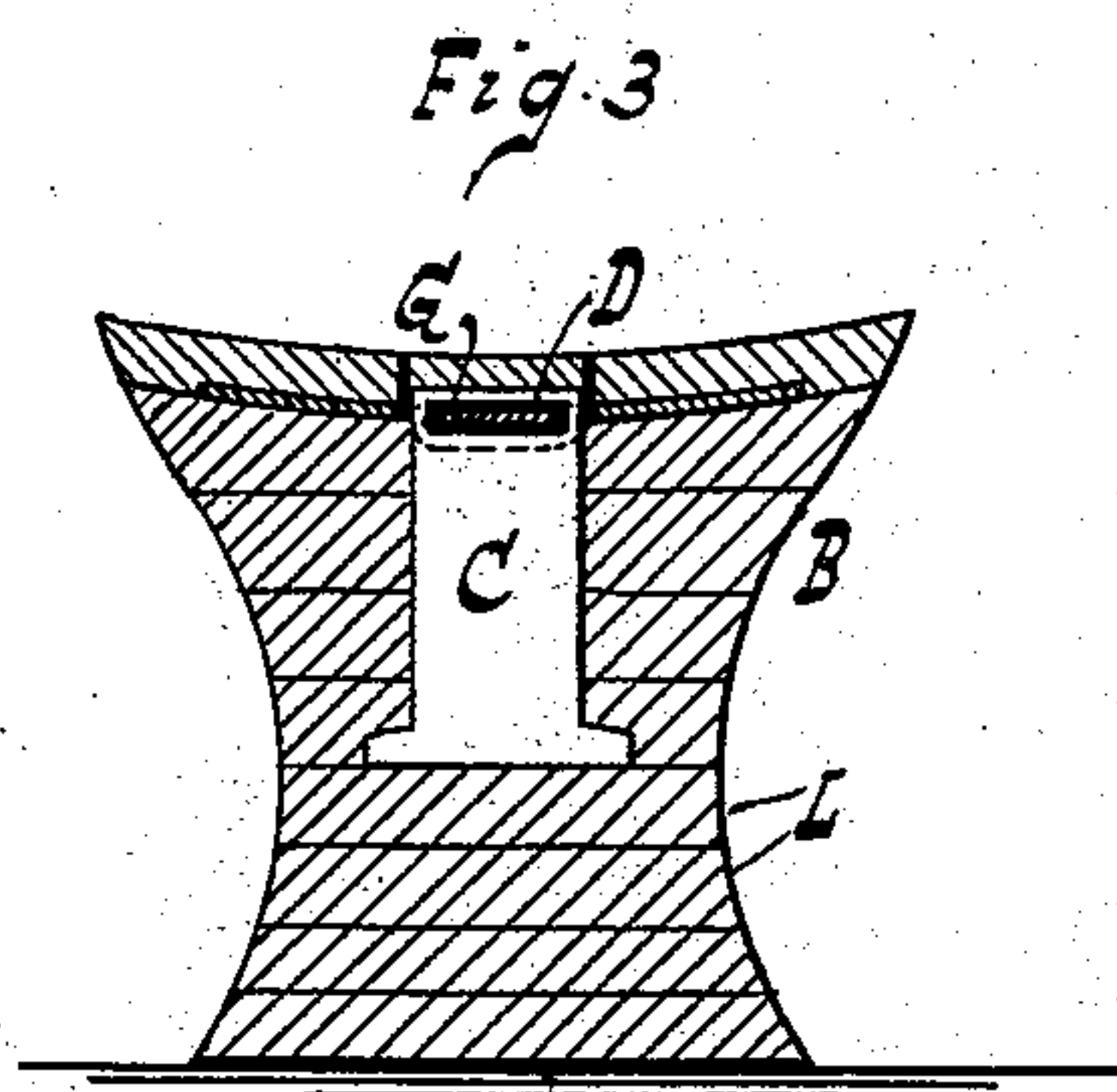
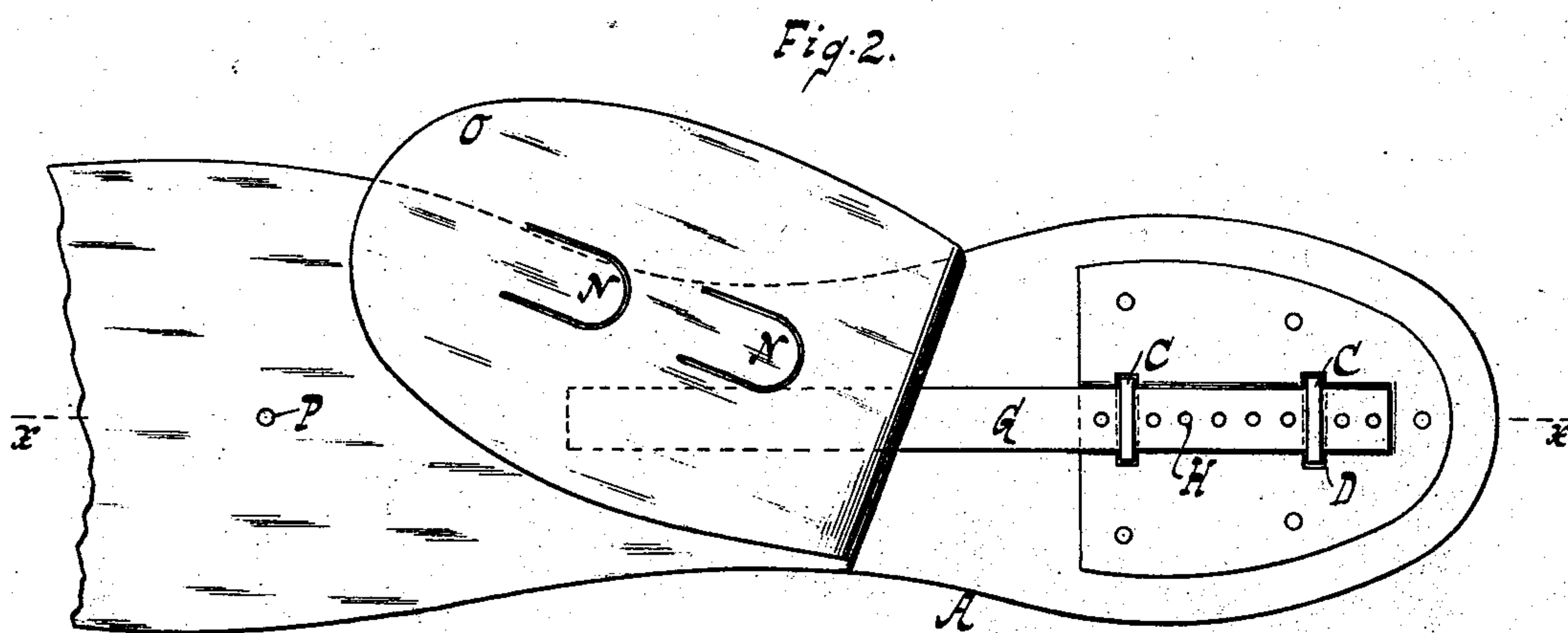
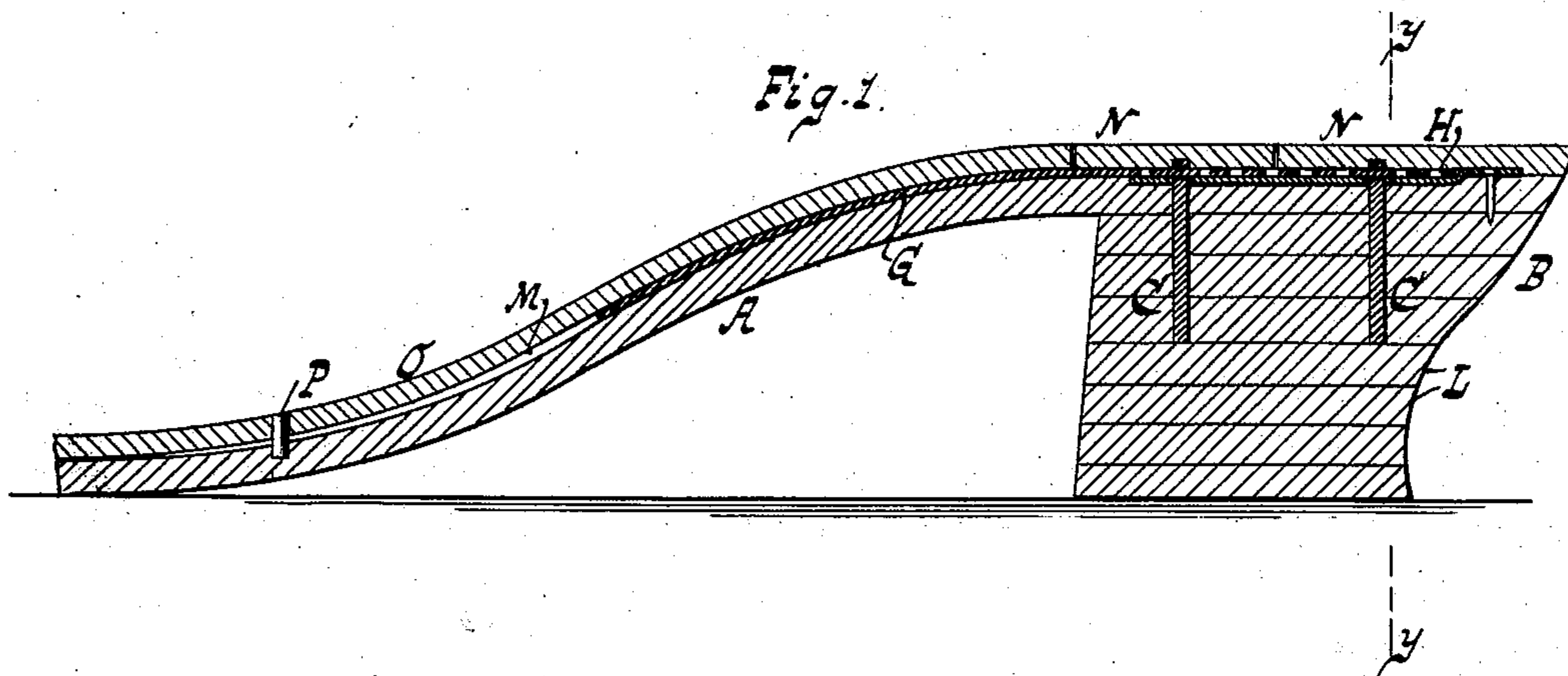


(No Model.)

M. WISE.
DETACHABLE HEEL.

No. 506,614.

Patented Oct. 10, 1893.



WITNESSES:

William Miller
Edward Wolff

INVENTOR:

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BY

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

MORRIS WISE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF, HENRY DAVIS,
SMITH M. WEED, AND JULIUS WOELFLE.

DETACHABLE HEEL.

SPECIFICATION forming part of Letters Patent No. 506,614, dated October 10, 1893.

Application filed January 13, 1893. Serial No. 458,279. (No model.)

To all whom it may concern:

Be it known that I, MORRIS WISE, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Detachable Heels, of which the following is a specification.

This invention relates to an improvement in heels for boots or shoes said heels being detachable or readily removable and attachable and the invention consists in certain novel features set forth in the following specification and claims and illustrated in the annexed drawings, in which—

Figure 1, is a side elevation of the heel sectioned along $x x$ Fig. 2. Fig. 2, is a plan view of Fig. 1. Fig. 3, is a section along $y y$ Fig. 1.

In the drawings the letter A indicates a sole to which the heel is to be attached and B is the heel. The heel is secured to the sole by one or more eyes D readily provided by suitably formed staples C connected to the heel. The spring plate G constitutes the elastic metallic shank for the sole of the boot or shoe and is capable of sliding lengthwise so as to move it into or out of engagement with the eyes D. When in the position shown in Fig. 1 the spring G engages the eyes. By sliding the spring lengthwise on the sole A, in a direction toward the toe of the shoe the heel can be freed. The spring is shown provided with one or more eyes H for the engagement of a tool to move the spring. The spring G is placed in its chamber or housing M between the sole A and insole O and the insole is shown provided with one or more tongues or flaps N readily formed by suitably cutting part of the insole. These flaps N can be raised or swung open when the spring G is to be moved lengthwise into or out of engagement with the eyes D. When the heel is secured in place the flaps N are let down as in Fig. 1 to form a smooth closure acceptable to the foot. A stop or peg P suitably applied to the sole A, or O, will prevent the spring G being moved lengthwise too far

toward the toe of the boot or shoe. The spring G it is noticed in addition to performing its ordinary spring function as a shank for the boot or shoe, also acts as a movable key by which the heel can be rapidly and readily attached or easily freed when it is desired to remove the same either because of wear or for other reasons.

The staples C are shown with heads which are protected by one or more lifts L of the heel. The staples are easily put in place by being slipped into cuts or holes in the heel large enough for the reception of the staple but not allowing the staple head to pass.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a sole, and a removable heel having an eye, of an elastic shank for the sole, composed of a longitudinally sliding spring plate movable on the sole into or out of engagement with the eye on the heel, substantially as described.

2. The combination with the inner and outer soles, and a removable heel having an eye, of an elastic shank composed of a longitudinally sliding spring plate interposed between the inner and outer soles and moving thereupon to engage it with or disengage it from the eye on the heel, substantially as described.

3. The combination with a sole, and a removable heel having an eye, of an elastic shank for the sole, composed of a longitudinally sliding spring plate movable on the sole into or out of engagement with the eye on the heel, and a stop arranged on the sole at a point in advance of the front end of the spring plate to limit the forward sliding movement of the latter, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MORRIS WISE.

Witnesses:

WM. C. HAUFF,
E. F. KASTENHUBER.