

C. H. C. MARTIN.
CUSHION HEEL.
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1,035,371.

Patented Aug. 13, 1912.

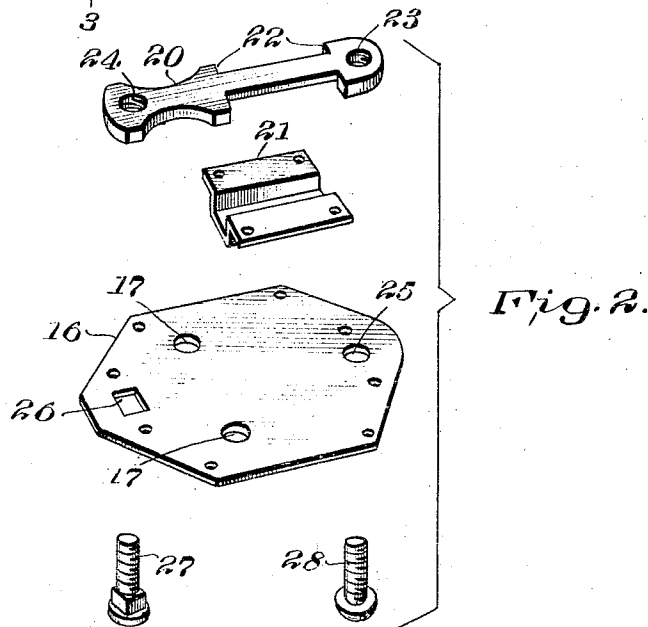
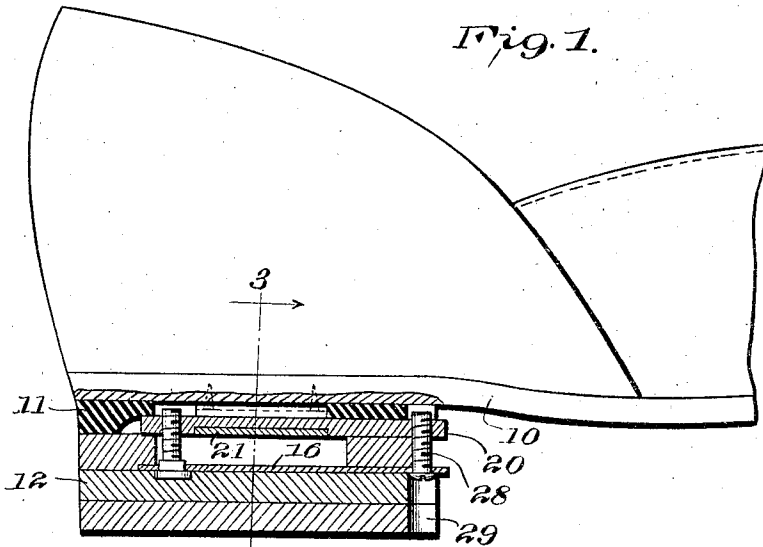
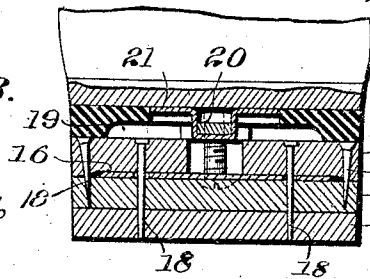


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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CUSHION-HEEL.

1,035,371.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES H. C. MARTIN, a citizen of the United States, residing at Forestville, county of Chautauqua, State of New York, have invented certain new and useful Improvements in Cushion-Heels, of which the following is a specification.

This invention relates to cushion or spring heels for boots and shoes and its object is to simplify and improve the construction of devices of this character whereby their efficiency and durability will be increased.

This invention is an improvement on a construction shown in my Patent No. 632,467, granted September 5, 1899.

The novel features of the invention will be apparent from the following description, taken in connection with the drawings, in which,

Figure 1 shows a portion of a shoe provided with my improved heel, the heel being shown in longitudinal section. Fig. 2 shows the parts for securing the heel to the shoe, in perspective. Fig. 3 is a transverse section on the line 3—3 of Fig. 1.

As illustrated in the drawings, the invention comprises the sole or supporting base 10. Secured to the sole 10, in any suitable manner, is the cushion 11, which may be made of rubber or any other suitable material. A detachable heel portion 12 is fitted against the under side of the cushion 11 and may be constructed of leather or any other material, as may be found desirable. The heel portion 12 comprises several layers or lifts and, as illustrated, it comprises the top lift 13, the bottom lift 14 and the intermediate lift 15. Between the lifts 13 and 15 I arrange a plate 16, which is suitably formed and provided with openings 17, through which pass the nails 18, for securing the lifts together. The cushion 11 is provided with an interior recess 19, in which is longitudinally arranged the bar 20, this bar being fastened to the sole of the shoe by means of the yoke 21, which engages the middle portion of the bar 20, between the shoulders 22. The bar 20 extends slightly beyond the front end of the heel and is provided with screw-threaded openings 23 and 24. The plate 16 is provided with openings 25 and 26, which register with the openings 23 and 24 respectively. A screw 27 is arranged in the opening 26 and has its head embedded in the heel portion, the threaded part of the screw projecting upwardly above

the upper surface of the lift 13 and engaging the threaded opening 24. A screw 28 is arranged in the opening 25 in the plate 16, and engages the threaded opening 23 in the bar 20. The front portion of the heel is suitably recessed, as at 29, so that the screw 28 may be inserted after the heel portion is in position. The opening 26, in the plate 16, is made square and the portion of the screw 27 which engages this opening is correspondingly formed for the purpose of preventing rotation of said screw relative to the plate. It will be understood that any other construction which will prevent the rotation of the screw 26, relative to the plate 16, will be suitable.

In order to remove the heel portion 12 the screw 28 is taken out and then the heel portion rotated so as to withdraw the screw 27 from the opening 24 in the bar 20 and in replacing the heel, the operation will be reversed.

It will be seen that by this construction I have provided a cushion heel which will be durable because the lift 14 may be of leather or any other suitable wear resisting material and the cushion is subjected to practically no wear. The heel will be very effective as a cushion heel as the bar 20 is free to move in the yoke 21 as the cushion 11 is compressed and expanded.

Having thus described my invention, what I claim is:—

1. In a spring heel for boots and shoes, a supporting base, an elastic cushion secured to the base, a detachable heel portion fitted against said cushion, a supporting member secured to said base and provided with openings, a screw embedded in said heel portion and adapted to engage one of said openings, and a second screw engaging said heel portion and one of said openings and adapted to be inserted after the heel portion is in position.

2. In a spring heel for boots and shoes, a supporting base, an elastic cushion secured to the base, a detachable heel portion fitted against said cushion, a supporting member secured to said base and extending longitudinally thereof and provided with threaded openings, a screw embedded in the rear part of said heel portion and adapted to engage one of said openings, and a second screw engaging said heel portion and one of said openings and adapted to be inserted after the heel portion is in position.

3. In a spring heel for boots and shoes, a supporting base, an elastic cushion secured to the base, a detachable heel portion fitted against said cushion, a longitudinally extending bar arranged in said cushion and secured to said base and provided with screw-threaded openings at its ends, a plate secured to said heel portion, and screws engaging said plate and the threaded openings in said bar, one of said screws being inaccessible and the other accessible from the lower side of said heel portion.

4. In a spring heel for boots and shoes, a supporting base, an elastic cushion secured to the base, a detachable heel portion fitted against said cushion, a central recess in the lower side of said cushion, a longitudinally arranged bar in said recess and provided with screw-threaded openings at its ends, a plate secured to said base and supporting said bar, a plate embedded in said heel portion and provided with openings corresponding with the openings in said bar, and screws arranged in the openings in said plate and engaging the screw-threaded openings in said bar, one of said screws being non-rotatable relative to the plate in said heel portion.

5. In a spring heel for boots and shoes, a supporting base, an elastic cushion secured to the base, a detachable heel portion fitted against said cushion, and means for securing

said heel portion in position and comprising a bar extending longitudinally of the heel and provided with screw-threaded openings in its ends, a yoke secured to the base and engaging the middle portion of said bar, a plate embedded in said heel portion, openings in said plate registering with the openings in said bar and screws arranged in the openings in said plate and said bar and adapted to secure the heel portion in position, one of said screws being non-rotatable in said plate.

6. In a spring heel for boots and shoes, a supporting base, an elastic cushion secured to the base, a detachable heel portion fitted against said cushion, and means for securing said heel portion in position, and comprising a bar attached to said base, and arranged above the lower surface of said cushion, a screw embedded in said heel portion and projecting upwardly therefrom and engaging said bar, and a second screw engaging said heel portion and said bar at their front ends and adapted to be inserted after the heel portion is in position.

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

CHARLES H. C. MARTIN.

Witnesses:

WILLIAM M. HANCOCK,
ROYAL T. HANCOCK.