J. V. LAMBERT.

PNEUMATIC HEEL FOR BOOTS AND SHOES.

APPLICATION FILED NOV. 5, 1908.

925,354. **Patented June 15, 1909.**

Fig. 1.

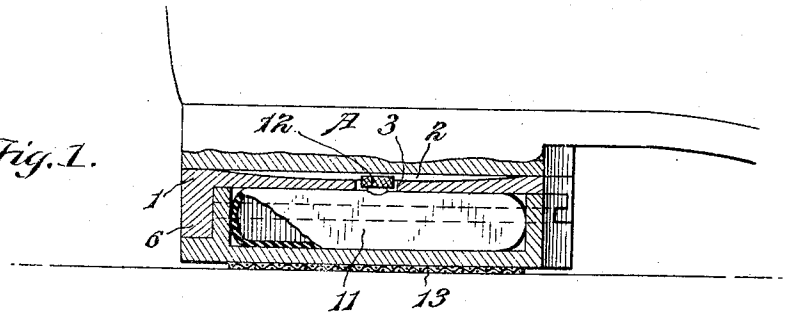


Fig. 2.

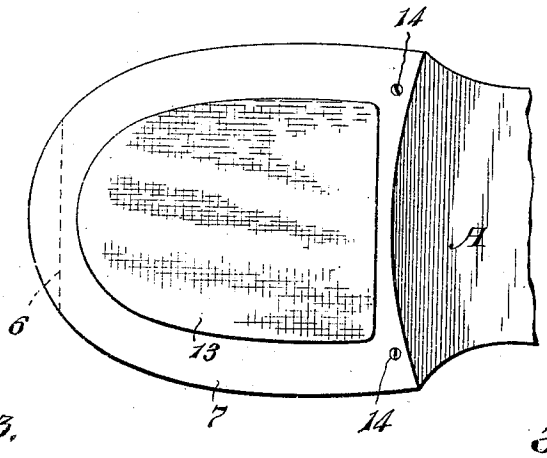


Fig. 3.

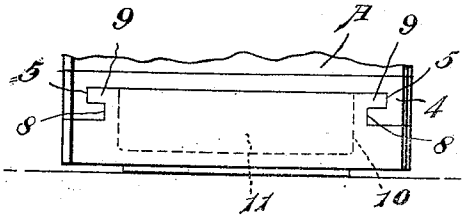


Fig. 4.

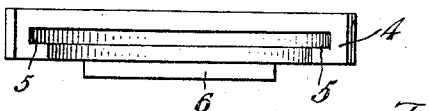


Fig. 6.

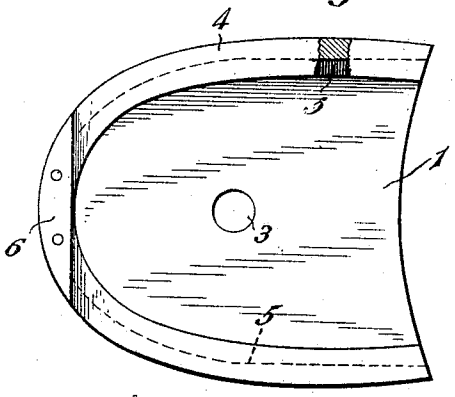
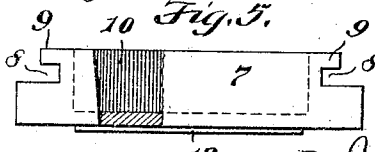


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN VINCENT LAMBERT, OF CHICAGO, ILLINOIS.

PNEUMATIC HEEL FOR BOOTS AND SHOES.

No. 925,354. Specification of Letters Patent. Patented June 15, 1909.

Application filed November 5, 1908. Serial No. 461,154.

To all whom it may concern:

Be it known that I, JOHN VINCENT LAMBERT, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Pneumatic Heels for Boots and Shoes, of which the following is a specification.

My invention relates to improvements in pneumatic heels for boots and shoes, and has for its object to provide a pneumatic heel which will be simple and inexpensive as well as efficient and durable.

With these and other objects in view, the invention consists in an improved construction and in the novel arrangement and combination of parts as will be hereinafter more fully described, and pointed out in the claims hereto appended; it being, of course, understood, that I do not wish to limit myself to the precise construction or details illustrated in the accompanying drawings, nor do I wish to be confined to the use of rubber as the sole material for making the heel parts, but consider myself entitled to use any substance therewith such as fabric, fiber, wood-pulp, or equivalents thereof, which can be vulcanized in the rubber or cemented thereto and not destroy the resiliency therewith.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views: Figure 1 is a side elevation of the heel portion of a shoe equipped with the preferred form of my improved heel, the heel portion being shown in section. Fig. 2 is a plan view of the under side or wearing surface of the heel. Fig. 3 is a front elevation of the heel. Fig. 4 is a front elevation of one of the compressible heel elements. Fig. 5 is a front elevation with a portion thereof being broken away of the sliding compressible heel element. Fig. 6 is a plan view of the under side of the compressible element shown in Fig. 4.

In carrying out the aim of my invention, that is, the preferred form, I make the heel preferably of elastic material, such as rubber, molded to shape and vulcanized, the heel comprising a compressible body portion or plate 1 of the external shape and size of the boot or shoe heel or lifts A to which it is secured by means of any well known fastening devices. This compressible body 1 has its upper face concave as at 2 and is provided with a centrally located opening 3. The lower face of the body 1 is provided with a flange portion 4 having oppositely disposed grooves or ways 5 of the same shape as that of the heel. The rear end of the body 1 is provided with the depending segmental shoulder 6 which is adapted to act as a stop. Adapted to be secured to the body 1 is a compressible sliding body 7 having the grooves or ways 8 and the flanges 9, which flanges are adapted to work or slide in the grooves or ways 5 of the body 1, as clearly shown in Fig. 3. The sliding body 7 is further provided with the heel shaped recess 10, which is adapted to receive an impervious pneumatic receptacle or bag 11 having the filling and retaining valve 12, which valve is adapted to pass through the opening 3 when the parts are assembled, as clearly shown in Fig. 1.

The lower or tread portion of the sliding or compressed body 7 is provided with a heel shaped frictional reinforce 13, as clearly shown, to prevent slipping and further guard against the puncturing of the heel.

It will be readily seen that the sliding compressed body 7 can be easily and readily applied to or removed from the body 1, as it is only held in place by means of a plurality of screws 14, as shown in Fig. 2, which screws are adapted to pass through the body 1 and into the heel lifts A, as is manifest.

Having described my invention what I claim as new, and desire to secure by Letters Patent, is:

1. In a pneumatic heel for boots and shoes, comprising a compressible body having a pair of oppositely disposed grooves or ways, a recessed compressible body adapted to be slidably secured to said first-mentioned body, and an impervious pneumatic receptacle having a valve contained in said recessed sliding body.

2. A pneumatic heel for boots and shoes, comprising a compressible body having a concave upper face and a centrally located opening a stop depending from the under-face of said body, oppositely disposed ways arranged in said body, a sliding compressible body adapted to be held in position by means of side flanges adapted to work in said oppositely disposed ways, and elastic means interposed between said bodies for adding to the elasticity of the heel.

3. A pneumatic heel for boots and shoes, comprising a heel shaped compressible body having a concave upper face, and a centrally located opening, a segmental shoulder de-

projecting from the underface of said body, a sliding compressible body having a recess adapted to receive an impervious pneumatic receptacle having a filling and retaining valve, and means for holding said sliding body in position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN VINCENT LAMBERT.

Witnesses:
JANET E. HOGAN,
HELEN F. LILLIS.