

G. R. SCRUGGS.
HEEL FOR BOOTS AND SHOES.
APPLICATION FILED JUNE 19, 1909.

993,279.

Patented May 23, 1911.

Fig. 1.

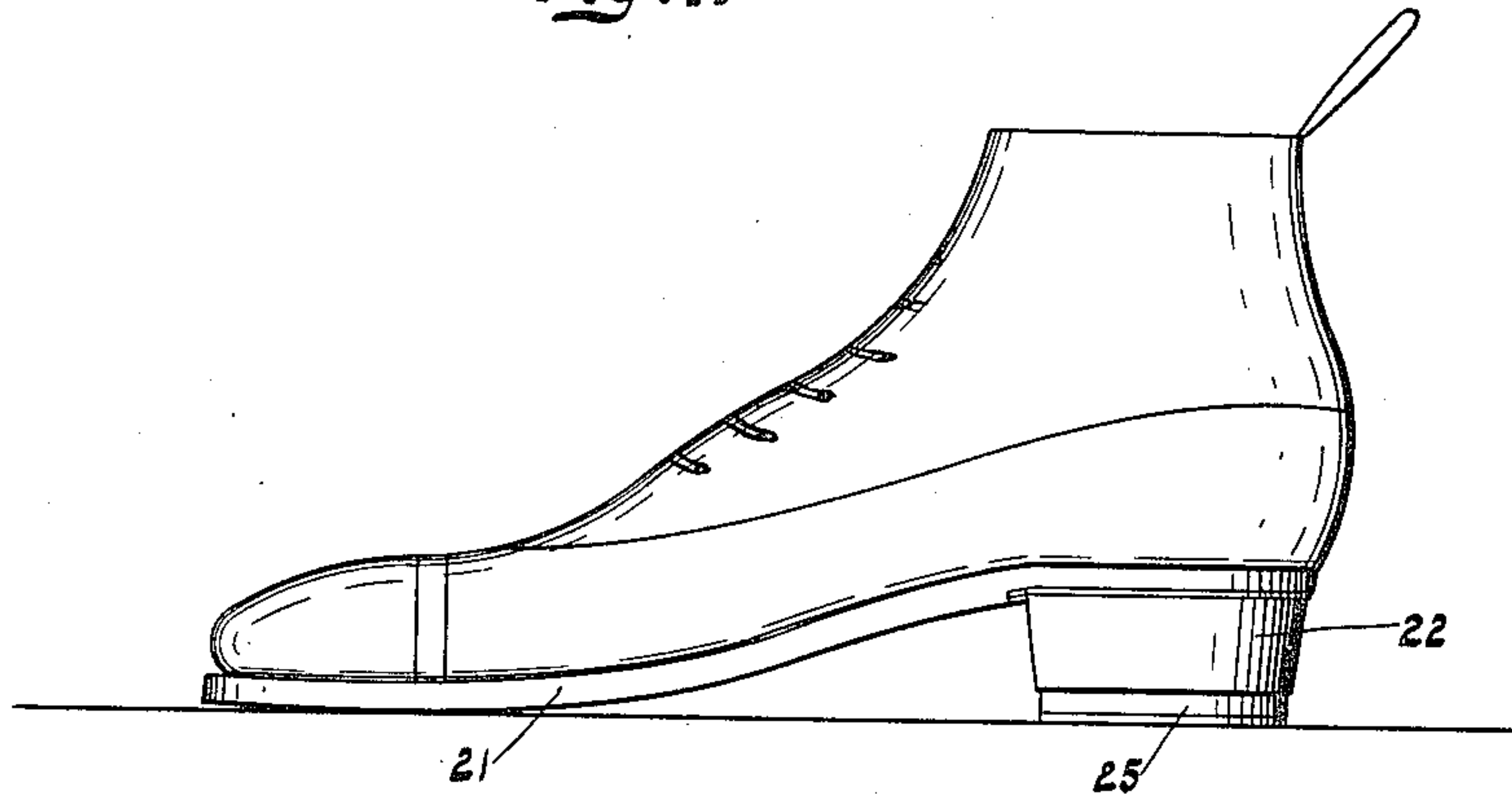


Fig. 3.

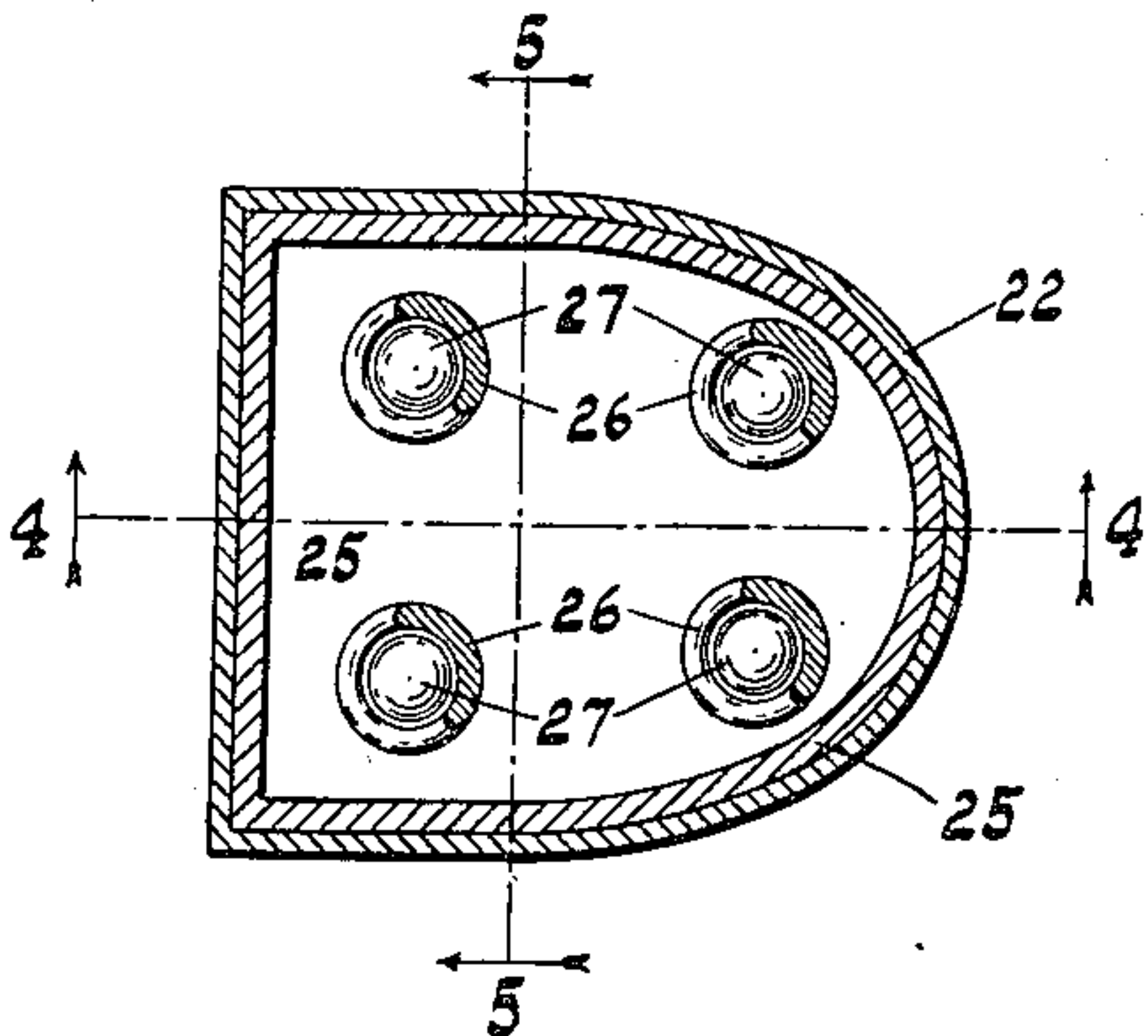


Fig. 4.

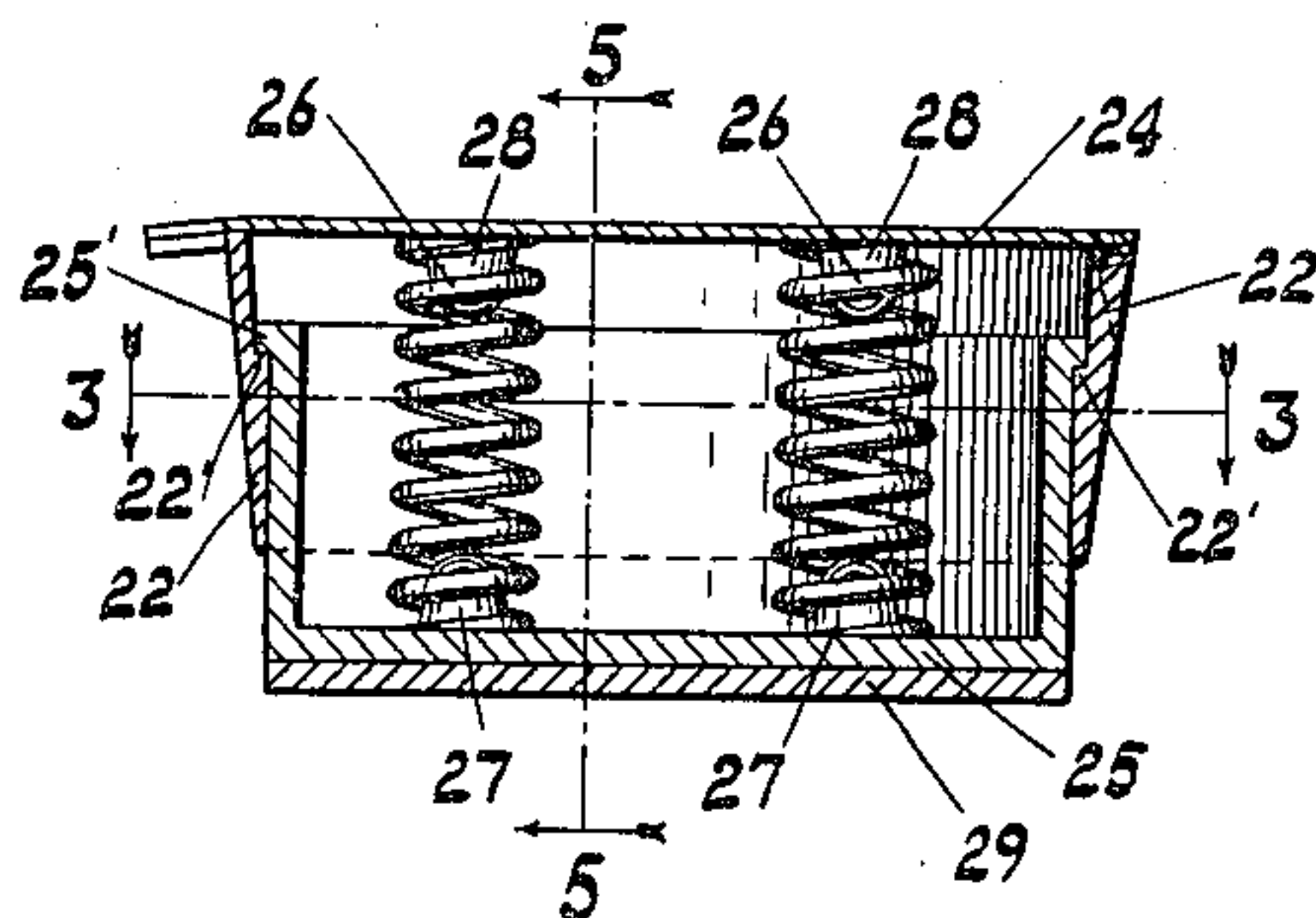


Fig. 2.

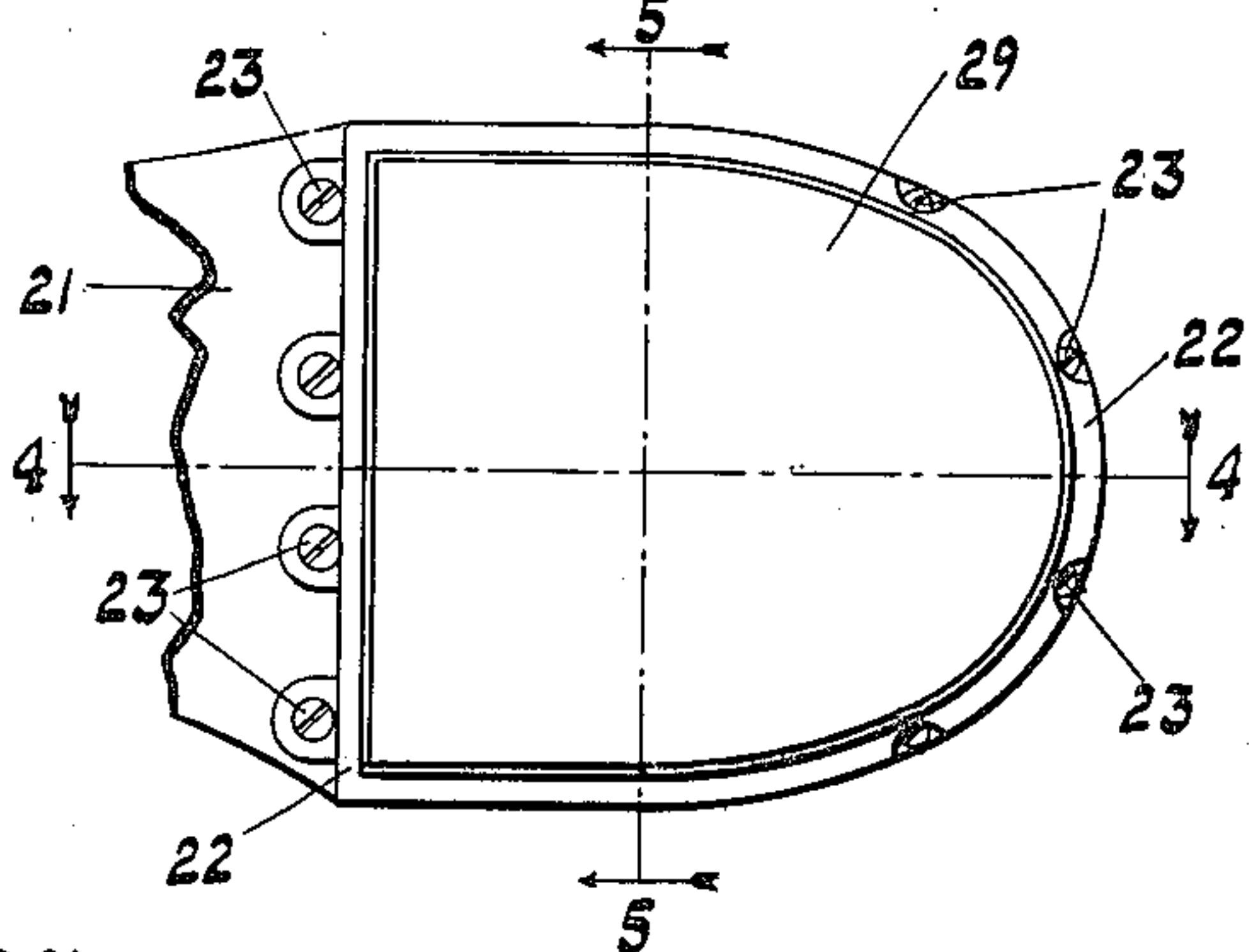
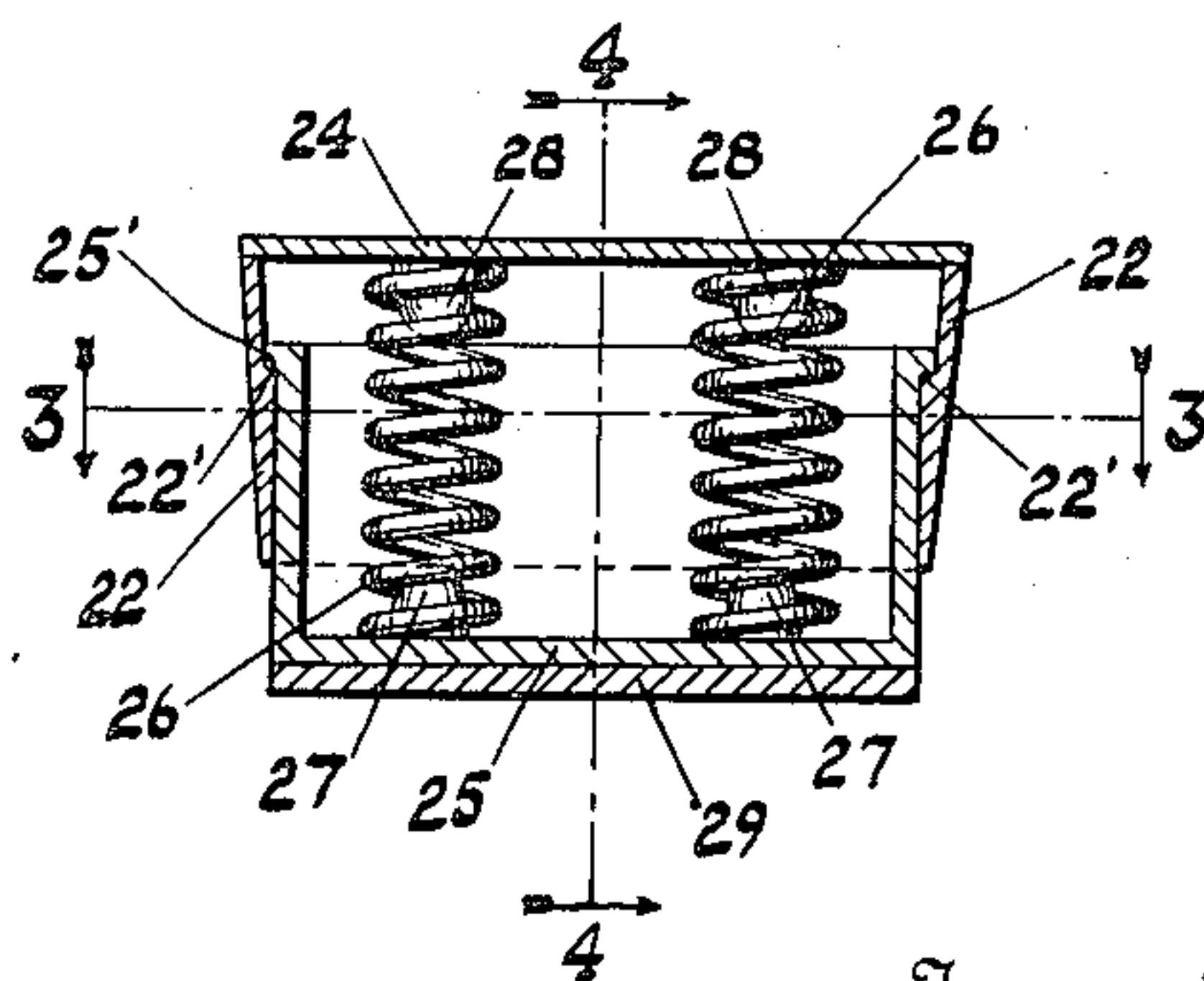


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE R. SCRUGGS, OF MOORESVILLE, INDIANA, ASSIGNOR OF ONE-HALF TO GILMER BRAY, OF MOORESVILLE, INDIANA.

HEEL FOR BOOTS AND SHOES.

993,279.

Specification of Letters Patent.

Patented May 23, 1911.

Application filed June 19, 1909. Serial No. 503,115.

To all whom it may concern:

Be it known that I, GEORGE R. SCRUGGS, a citizen of the United States, residing at Mooresville, in the county of Morgan and State of Indiana, have invented certain new and useful Improvements in Heels for Boots and Shoes, of which the following is a specification.

The object of my present invention is to provide a convenient and durable heel for boots and shoes, which shall embody springs in its construction thus giving elasticity to the tread.

Said invention consists in two parts telescopically arranged, with springs interposed between one of said parts and the sole of the shoe whereby it is held elastically outwardly, so as to be capable of yielding under the weight of the wearer, all as will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar reference characters indicate similar parts, Figure 1 is a side elevation of a shoe provided with a heel embodying my present invention; Fig. 2 an underside plan of such heel and the immediately adjacent parts of the shoe; Fig. 3 a horizontal sectional view, and Figs. 4 and 5 detail transverse sectional views illustrating the construction.

My improved heel is adapted to be attached to any boot or shoe, and the sole of such boot or shoe is of an ordinary construction and arrangement. My improved elastic heel embodies a shell portion which forms the outer portion thereof, and said portion is secured firmly to the shoe sole, by screws or otherwise. This outer shell portion is preferably of metal, and a metal bearing plate is preferably interposed between said shell and the leather sole. Within said outer shell I place a second or inner shell, which is adapted to move telescopically therein, and the lower surface whereof forms the tread of the heel. This shell has a ledge which is adapted to come in contact with a similar ledge in the shell so that the movement of part 25 relative to part 22 is limited. Interposed between the bottom of part 25 and the plate 24 are one or more springs (four are shown) by means of which part

25 is held outwardly with considerable spring force. This gives the required elasticity to the heel. When the wearer rests his weight on the heel, the springs will yield somewhat, as will be readily understood, so that the usual shock due to rigidity of parts is avoided. The spring or springs are kept in place by means of suitable lugs or projections 27 and 28 on the adjacent parts which engage therewith. This member 25, like member 22, is preferably of metal; and, in order to deaden the noise which would result from contact of metal with floors or pavements, I place upon the outer surface thereof a thickness 29 of sole leather or other suitable material, and this constitutes the wearing surface of the heel in use.

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

A boot or shoe heel comprising a tubular open-ended main body provided at its upper end with a bore having portions the diameter of which exceeds the bore of the lower end so as to form an inwardly projecting ledge, a cup-shaped member having a closed lower end sleeved into the main body and provided at its upper end with outwardly extending portions which extend into the enlarged upper portions of the main body so as to engage the ledge, the lower closed end of said cup-shaped member being provided with a wearing surface, spring-retaining portions carried by the inner face of the bottom of the cup, a closing plate removably arranged to close the upper end of the main body, said closing plate carrying spring-retaining portions corresponding to the spring-retaining portions of the cup, compression springs arranged within the structure between the spring-retaining portions, and fastening members passing through the upper portion of the main body to hold the said main body in place upon a shoe.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this fourteenth day of June, A. D. one thousand nine hundred and nine.

GEORGE R. SCRUGGS. [L. s.]

Witnesses:

CHESTER BRADFORD,
THOMAS W. McMEANS.