

No. 722,307.

PATENTED MAR. 10, 1903.

J. L. IZAN.  
BOOT OR SHOE HEEL.  
APPLICATION FILED NOV. 13, 1902.

NO MODEL.

Fig- I.

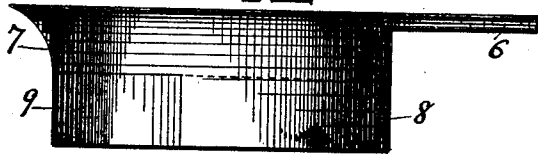


Fig- II.

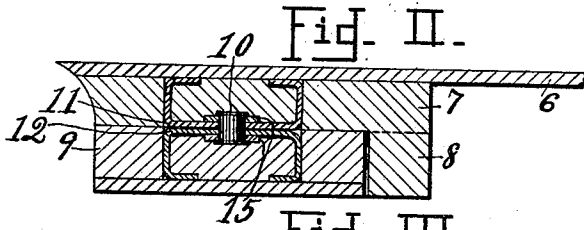


Fig- III.

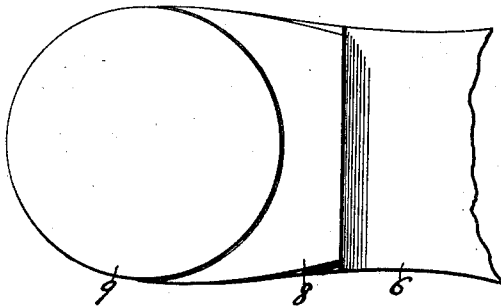
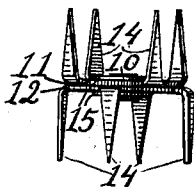
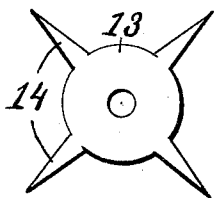


Fig- IV.

Fig- V.



Witnesses  
A. E. Waller.  
W. Waller.

Inventor  
John L. Izan.  
by W. X. Stevens.  
Attorney

# UNITED STATES PATENT OFFICE.

JOHN L. IZAN, OF NEW YORK, N. Y.

## BOOT OR SHOE HEEL.

SPECIFICATION forming part of Letters Patent No. 722,307, dated March 10, 1903.

Application filed November 13, 1902. Serial No. 131,152. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN L. IZAN, a subject of the Emperor of Russia, residing at New York, in the county of New York and State of New York, have invented a new and useful Improvement in Boot or Shoe Heels; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings.

This invention relates to heels for boots and shoes; and it is to provide means to maintain as long as possible a flat surface to the heel for it to stand upon.

To this end the invention consists in a heel for boots and shoes constructed as hereinafter more fully described, and particularly defined in the claim, reference being had to the accompanying drawings, in which—

Figure I represents in side elevation a shoe-heel according to this invention. Fig. II shows the same in longitudinal vertical section. Fig. III is an under side view thereof. Fig. IV is a face view of either of the two members of the heel-hanger blank as it is punched out and before the spurs are bent. Fig. V is a side view of the complete hanger, comprising two members, two washers, and a pivotal rivet.

Numeral 6 represents a portion of the sole of the shoe.

7 represents one or more thicknesses of leather, comprising about one-half of the height of the heel, and 8 represents also one or more thicknesses of leather, comprising the stationary lower portion of the heel.

9 is a disk centrally hung to rotate upon a pivotal rivet 10, which connects the two plates 11 and 12 of the hanger. These plates are made of any suitable material—such as sheet steel, iron, or brass—punched into the blank shape shown in Fig. IV, comprising a central plate 13 of circular form and spurs 14, projecting radially from its edge.

To complete one member of a hanger, its spurs are bent nearly at right angles to the plane of the plate. The two members 11 12 are fastened together by the rivet 10, with washers 15 interposed to permit the two plates

to rotate one relatively to the other, while being held very closely together. A shallow recess is made in each of the portions 7 and 9 to admit the thickness of the plates and washers. The spurs 14 of one plate, 11, are to be forced through the portion 7 and be clenched on top of it. Then the portion 7, with the hanger attached, is to be fastened to the shoe-sole 6. Now the portion 9 is to be forced upon the spurs of the plate 12, and when they have been clenched on its lower side they may be covered by a thickness of leather and the heel may be completed by adding the fixed portion 8. The parts of this hanger may be riveted so closely together as to prevent the disk 9 from revolving in service and yet permit it to be rotated by the application of a little force, so as to bring a new spot to the wearing-point whenever the edge begins to be worn away. By this means the shoe-heel may be made to stand always level on the ground, and by thus distributing the wear around the whole disk the length of time the heel will wear is very much increased and the wear being uniform the appearance of the heel in service is greatly improved. This method of attaching rotary heels to boots and shoes is simple and inexpensive and the attachment so made is durable.

Having thus fully described my invention, what I believe to be new, and desire to secure by Letters Patent, is the following:

In boot and shoe heels, a portion of a heel rigidly fixed to the boot or shoe; another portion of the heel in circular form, and a hanger comprising two plates provided with spurs, a rivet and washers securing the plates together; the spurs of the two plates projecting in opposite directions whereby they may be forced into the said heel portions when placed between the same, by pressure or by a heavy blow upon the outer heel portion.

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

JOHN L. IZAN.

Witnesses:

ALFRED THOMAS DAVIES,  
L. B. SIMONSON.