

A. H. DEVIN.
HEEL PLATE AND FRAME.
APPLICATION FILED NOV. 24, 1909.

970,313.

Patented Sept. 13, 1910.

Fig. 1.

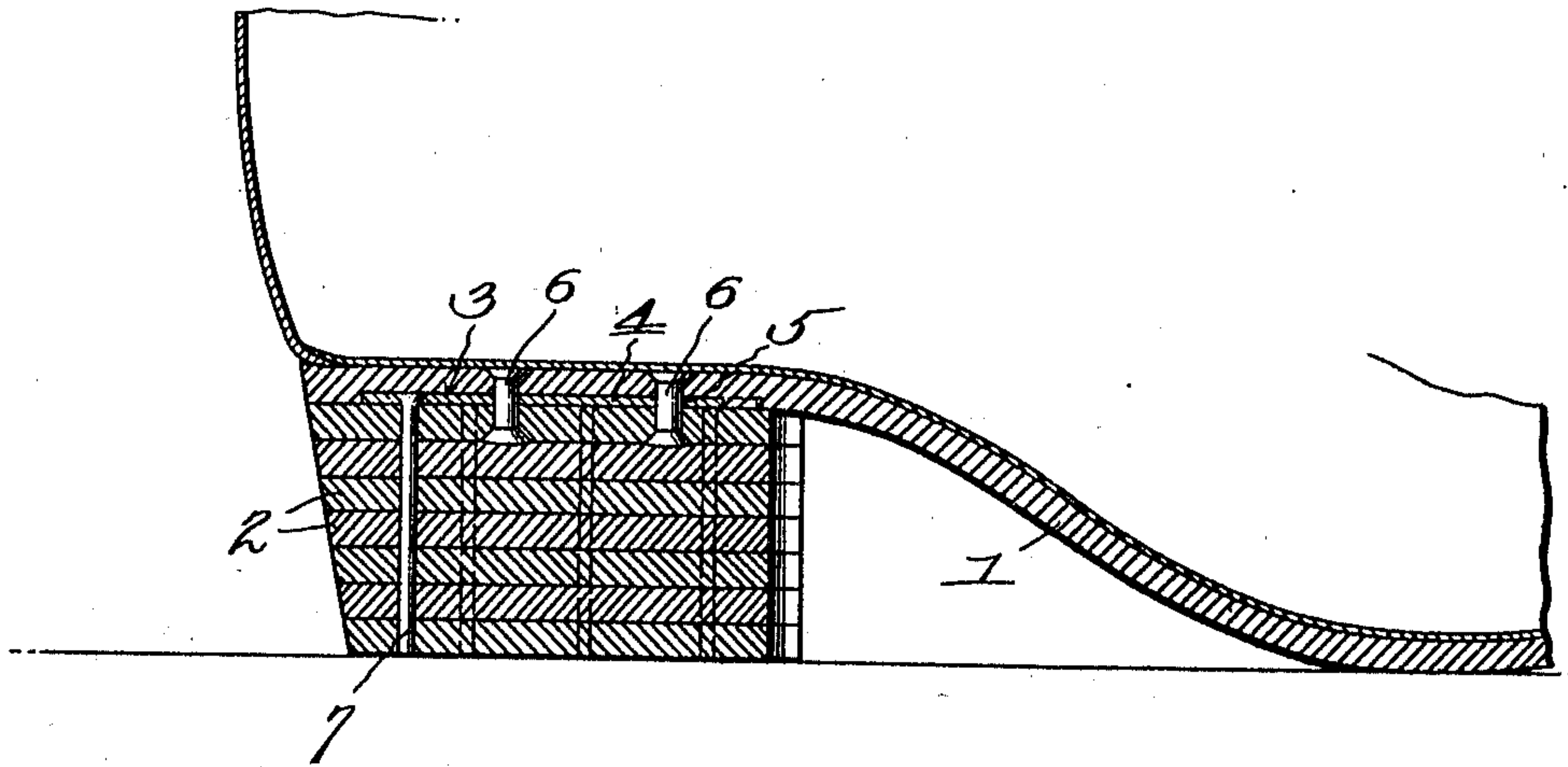


Fig. 2.

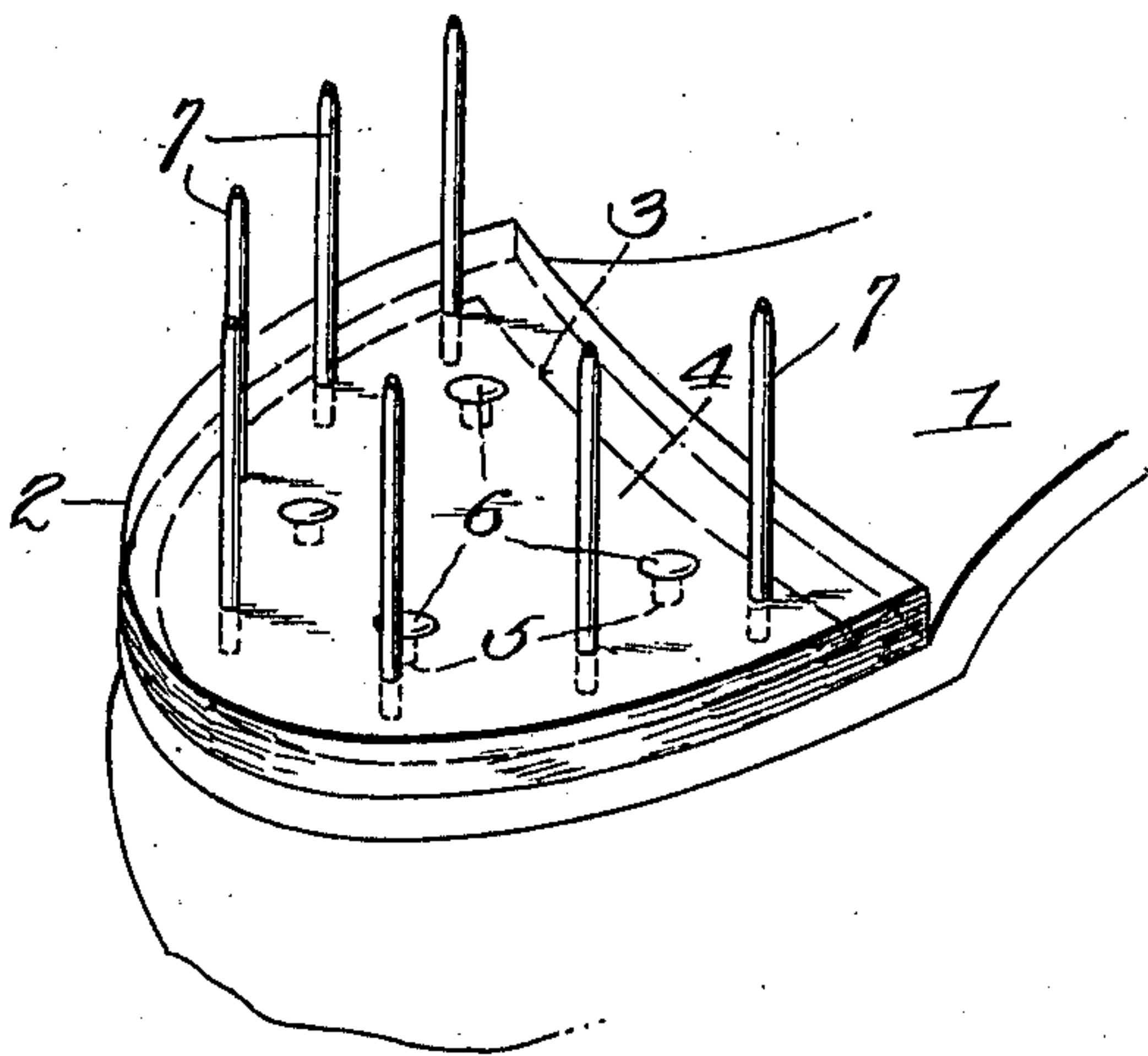
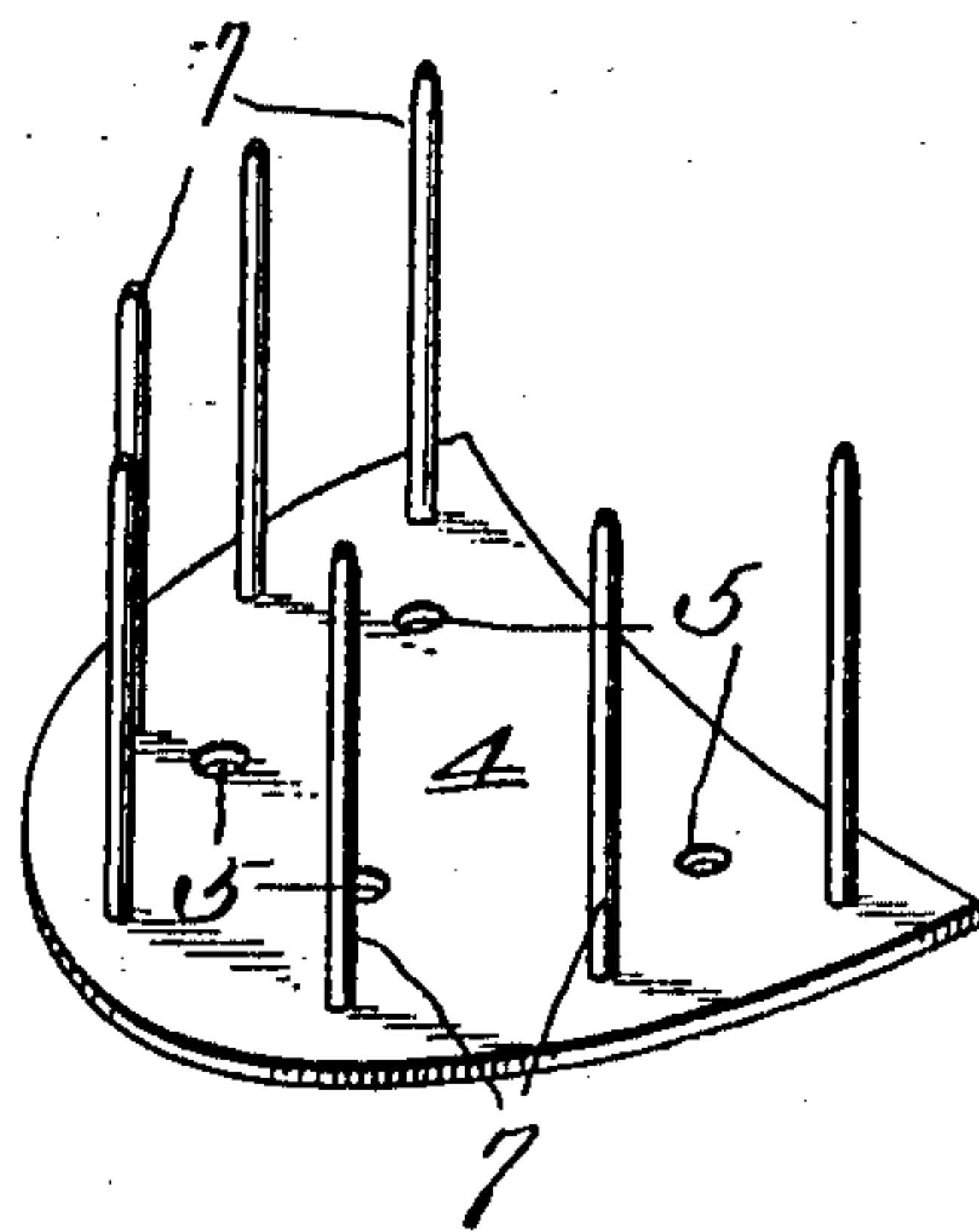


Fig. 3.



Witnesses

Chas. H. Holmes
E. B. McBath

Inventor

Anna H. Devin,

By *O'Meara & Brock*
Attorneys

UNITED STATES PATENT OFFICE.

ANNA H. DEVIN, OF OTTUMWA, IOWA.

HEEL PLATE AND FRAME.

970,313.

Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed November 24, 1909. Serial No. 529,714.

To all whom it may concern:

Be it known that I, ANNA H. DEVIN, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented a new and useful Improvement in Heel Plates and Frames, of which the following is a specification.

This invention relates to a heel plate and frame.

10 The object of the invention is to support the heel, to rigidly connect the same with the sole of the shoe, and to prevent running down of the heel.

15 The invention consists in a segmental plate set in the under face of the sole, and secured to the sole and to the upper lift of the heel by suitable means, and a depending frame consisting of parallel pins of hard steel carried by a marginal portion of said plate, said pins forming a semi-circular open metal frame upon which the heel is built up.

20 In the accompanying drawings, Figure 1 is a sectional view through a heel and sole showing my invention applied thereto, the segmental plate being shown in section. Fig. 2 is an inverted perspective view showing the manner of securing the segmental plate in position, the said plate being shown in dotted lines and between the upper heel lift and the sole. Fig. 3 is an inverted perspective view of a heel plate and frame.

25 In the drawings, 1 represents the sole of the shoe and 2 the heel. The heel portion of the sole is recessed or cut out upon its under outer face for the purpose of receiving the segmental plate 4 which plate is provided with suitable openings 5 to receive rivets. Rivets 6 secure the plate to and between the sole and the upper lift of the heel. Carried 35 by the side and rear marginal portions of said plate are depending pins or posts formed of tool steel and forming in combination with the plate a metal frame upon which the heel may be built and by means of which it can be firmly braced and rigidly secured to the sole.

45 It has been customary in manufacturing heels to use long slender wire nails which

ran upwardly in the heel, the points terminating in or about the sole of the shoe. 50 These points frequently worked entirely through the sole, and in all cases were a source of wear upon the heel portion of the shoe, and in many cases would eventually project into the shoe itself sufficiently to 55 cause serious discomfort to the wearer. Furthermore, these nails having only their points extending to the sole did not form a rigid connection between the sole and the heel but permitted a bending of the foot and 60 shoe proper in one direction with a bending of the heel in an opposite direction, thus giving the heel a twist and the nails themselves would become bent, thus throwing the heel practically out of shape and causing 65 it to wear unequally producing what is known as a rundown heel. My construction avoids all of these disadvantages as the plate forms a smooth firm support for the heel portion of the shoe, stopping any nails 70 which may be driven into the heel from penetrating the sole of the shoe, the rivets securing said plate to the sole and to a lift of the heel rigidly uniting the heel to the sole and by reason of the large flat surface 75 of the rivet heads producing practically none of the discomforts or wear experienced with a sharp point of a shoe nail. The downwardly projecting pins or posts 7 strengthen and brace all portions of the heel 80 and are rigidly connected with the plate 4 to which they may be soldered if desired.

What I claim is:—

The combination with a shoe having a recess formed between the sole and the heel, 85 a metal plate lying in said recess, rivets passing through said plate and securing the same to the sole and to the upper lift of the heel, and depending pins carried by said plate and extending downwardly through 90 the heel.

ANNA H. DEVIN.

Witnesses:

WM. MCNETT,
RUTH PHILLIPS.