

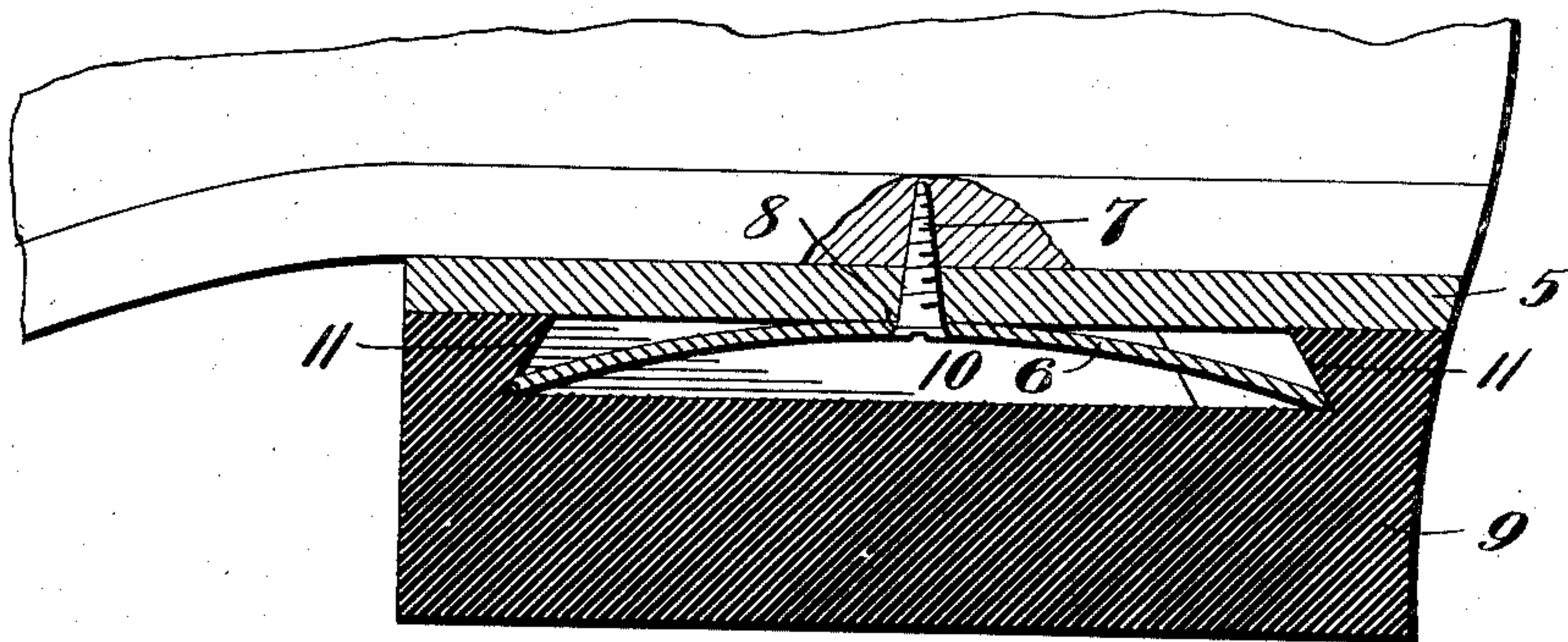
No. 850,156.

PATENTED APR. 16, 1907.

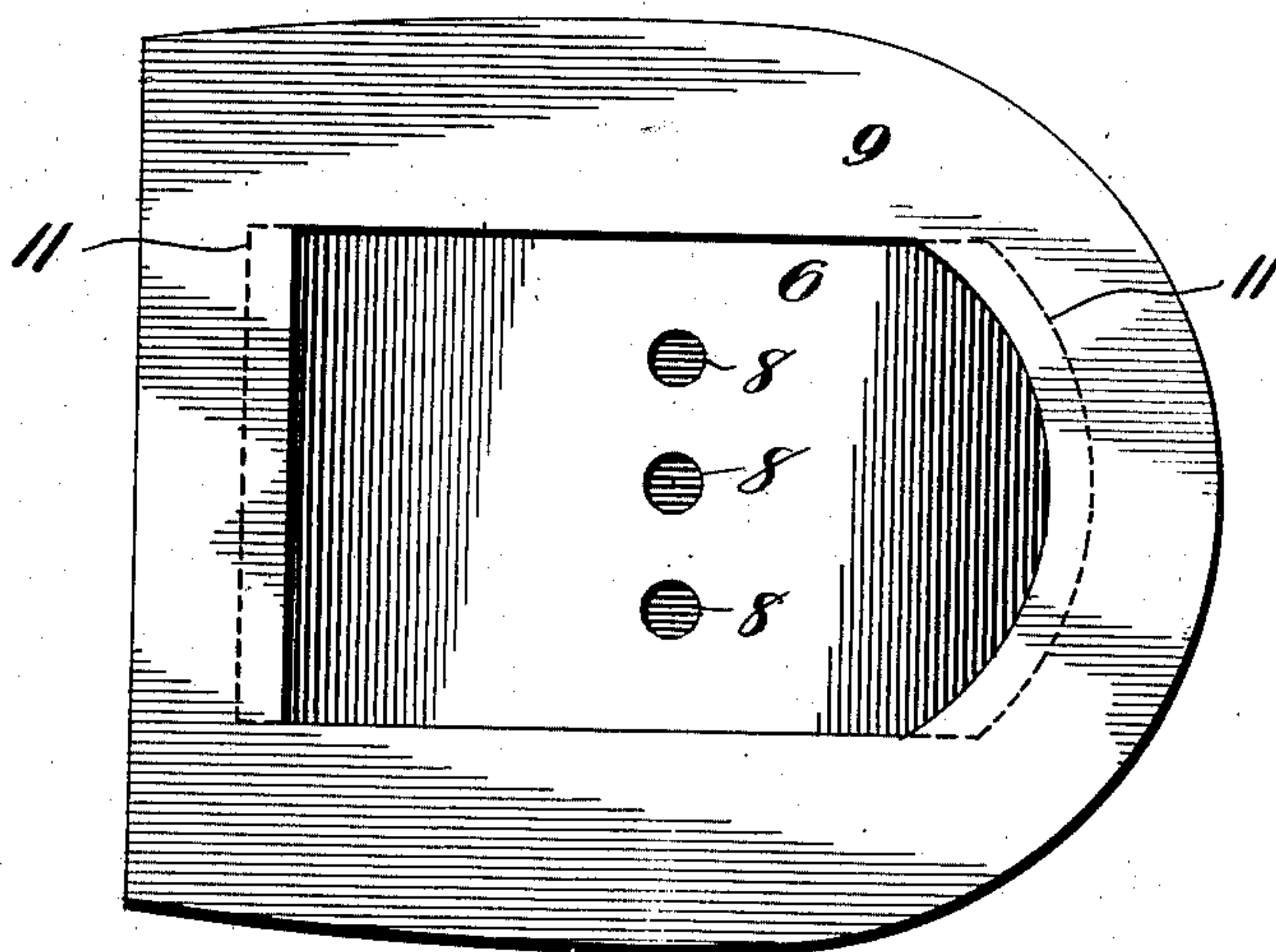
A. B. HEIMBACH.

RESILIENT ATTACHING MEANS FOR RUBBER HEELS.

APPLICATION FILED NOV. 5, 1906.



*Fig. 1.*



*Fig. 2.*

Inventor

*Alton B. Heimbach*

## Witnesses

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# UNITED STATES PATENT OFFICE.

ALTON B. HEIMBACH, OF DULUTH, MINNESOTA.

## RESILIENT ATTACHING MEANS FOR RUBBER HEELS.

No. 850,156.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed November 5, 1906. Serial No. 342,085.

*To all whom it may concern:*

Be it known that I, ALTON B. HEIMBACH, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Resilient Attaching Means for Rubber Heels, of which the following is a specification.

My invention relates to a resilient attaching means for rubber heels, and has for its object the provision of a device of this character constructed in such manner as to impart additional resiliency to the heel and to provide means whereby the rubber heel may be readily attached to the shoe or removed therefrom when desired.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawings, Figure 1 is a view, partly in elevation and partly in section, of a portion of a shoe and of the heel thereof, illustrating the invention; and Fig. 2 is a plan view of the rubber heel and attaching-plate removed from the shoe.

Like numerals designate corresponding parts in both of the figures of the drawings.

Referring to the drawings, the numeral 5 designates the leather portion of the heel of a shoe. A bowed spring-plate 6 is secured to the shoe by screws or other fastening devices 7, which pass through openings 8, formed in the spring-plate 5.

The rubber heel (designated at 9) has a recess 10 formed therein, the end walls of said recess being undercut, as at 11, to engage over the ends of the spring-plate 6.

The operation of the device is as follows: After the undercut end walls of the rubber heel have been engaged over the spring-plate the rubber heel is held firmly in engagement with the shoe thereby. When the weight of the user is brought to bear upon the structure, the walls 11 are forced still further over the ends of the spring, causing the rubber heel 9 to engage even more firmly with the plate 6.

By referring to Fig. 1 it will be seen that an open space is provided beneath the spring-plate 6, this open space permitting the spring to straighten out as pressure is brought to bear upon the structure. This results in imparting additional resiliency to the structure

as a whole and lengthens the life of the rubber heel.

It will readily be seen that the present invention provides simple and efficient means for quickly securing a rubber heel in position. When this heel is worn out, another may be substituted therefor in a minute or so.

It is a well-known fact that very few people wear their shoe-heels evenly. With the present structure it is possible to change the heels from one shoe to the other, if the heels become worn more upon one side than the other. This causes the heels to wear evenly and also increases the life of the heel.

It will be seen by referring to Fig. 2 that one end of the spring-plate is rounded and the other end is straight. It is to be understood, however, that both ends of the plate may be straight or that both ends may be rounded, as desired.

From the foregoing description it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention; but while the elements shown and described are well adapted to serve the purposes for which they are intended it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claim.

What I claim is—

In a device of the character described, the combination with a shoe, of a bowed spring-plate secured to said shoe at or near its middle portion and having downturned free ends, and a detachable heel having a recess formed therein, the walls of said recess being undercut to engage over the downturned free ends of the spring-plate, there being an open space left between the under side of the spring-plate and the base of the recess between the points at which the ends of the spring engage the walls of the detachable heel to permit said spring to act.

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

ALTON B. HEIMBACH.

Witnesses:

H. L. SHEPHERD,  
RUTH M. SHEPHERD.