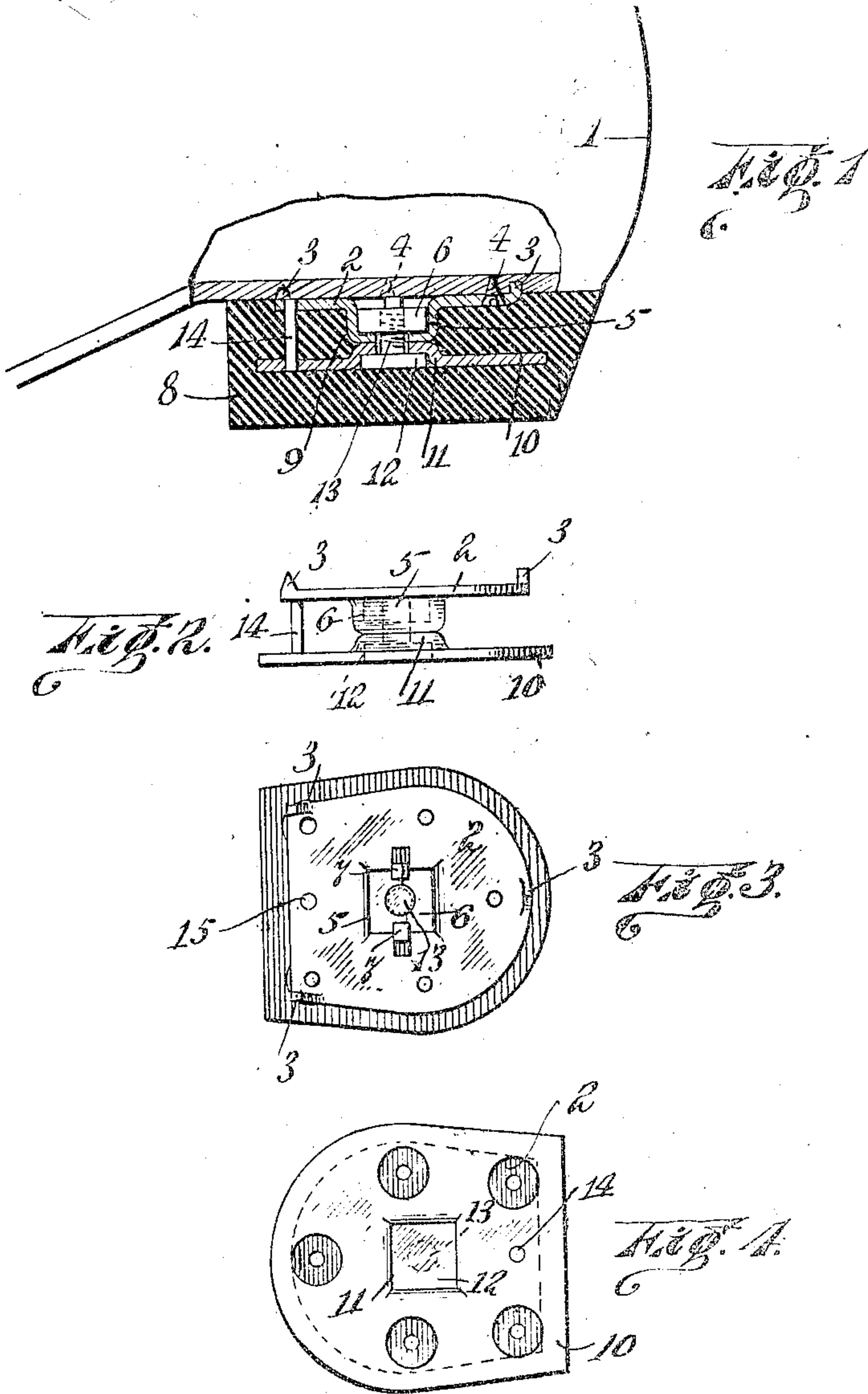


No 879,904.

PATENTED FEB. 25, 1908.

E. RENNIE.  
SHOE HEEL ATTACHMENT.  
APPLICATION FILED MAY 16, 1907.



Witnesses:

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# UNITED STATES PATENT OFFICE.

EDWARD RENNIE, OF HALIFAX, NOVA SCOTIA, CANADA.

## SHOE-HEEL ATTACHMENT.

No. 879,904.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed May 16, 1907. Serial No. 373,967.

*To all whom it may concern:*

Be it known that I, EDWARD RENNIE, a subject of the King of Great Britain, residing at Halifax, county of Halifax, in the Province of Nova Scotia, Canada, have invented certain new and useful Improvements in Shoe-Heel Attachments; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to heels for shoes; the object of my invention is to provide means for attaching a heel of leather, rubber, or composition, to a shoe, so as to permit the easy removal and attachment of the heel; a further object of my invention is to provide means for locking the heel in attached position; a further more specific object of my invention is to provide a plate embedded in the heel with means for maintaining a securing bolt in position, and to provide an attaching plate to be secured to the shoe with means for retaining a nut adapted to receive the bolt carried by the plate in the heel; and, my invention consists of the construction, combination and arrangement of parts, as herein illustrated, described and claimed.

In the accompanying drawings, forming part of this application, I have illustrated one form of embodiment of my invention, in which drawings similar reference characters designate corresponding parts, and in which:

Figure 1 is a longitudinal vertical section through a heel and its immediately connected parts, and showing in side elevation the outline of a shoe; Fig. 2 is a side elevation of the attaching plates; Fig. 3 is a plan view of the plates in their relative operative position; and, Fig. 4 is an inverted plan view of the plates.

Referring to the drawings, 1 designates a shoe, to which is secured a plate 2, having the spurs 3 turned up from its edges. The plate 2 is adapted to be secured to the shoe by means of the screws 4. The plate 2 is provided with a countersunk central squared socket 5, adapted to receive and hold against rotation the nut 6. The nut 6 is held from displacement by means of the lugs 7, struck up from the body of the plate 2 and projecting over the socket 5.

The heel 8 is provided with a recess 9

adapted to receive the socket 5, and has embedded therein a plate 10, having a central squared socket 11 struck up from its body, and adapted to receive the squared head 12 of a bolt 13, which bolt extends through the socket 5 into the nut 6. The bolt 13 being placed in engagement with the nut 6 and the heel 8 rotated, the heel is brought firmly up against the bottom of the shoe 1, so that the socket 11 bears against the socket 5 and the heel is firmly held in position by means of the bolt 13 and the nut 6. The nut 6 is kept from rotating by the rectangular shape of the socket 5, and the bolt 13 is held from rotation with relation to the plate 10 by means of the squared socket 11, in which is disposed the head 12 of the bolt.

To prevent rotation of the heel 8 after it is in locked position, a stud 14 is carried by the plate 10 adjacent its forward end, and is adapted to work into an opening 15 formed in the upper plate 2. To remove the heel after the stud 14 has engaged in the opening 15, the resiliency of the heel permits a slight movement away from the shoe, so that the stud 14 may be disengaged and the heel rotated to disengage the bolt 13 from the nut 6.

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

1. In combination with a heel, an upper plate provided with a socket having inwardly projecting lugs, a securing nut disposed in the socket beneath the lugs, means for securing the upper plate to a shoe, and a co-operating bolt secured to the heel.

2. In combination with a shoe heel, an upper plate adapted to be attached to the shoe and a lower plate adapted to be attached to a removable heel, each plate being provided with a socket, a nut disposed in one socket and held therein against rotation relatively thereto, a bolt having its head seated in the other of said sockets and prevented from rotating relatively thereto, and connections between said bolt and nut whereby relative rotation of the two plates is permitted.

3. In combination with a shoe heel, an upper plate adapted to be attached to a shoe and a lower plate adapted to be removably attached to a heel, each of said plates being

provided with a socket, a nut disposed in one  
socket, lugs adjacent said socket, and over-  
lying the edges of the nut to thereby retain  
the same in its socket and hold it against  
5 rotation relatively thereto, a bolt having its  
head seated in the other of said sockets and  
prevented from rotating relatively thereto,  
and connections between said bolt and nut

whereby relative rotation of the two plates is  
permitted.

In witness whereof I have hereunto set my  
hand in the presence of two witnesses.

EDWARD RENNIE.

Witnesses:

E. M. HILL,  
GEO. HILL.