

No. 668,274.

Patented Feb. 19, 1901.

E. WOODWARD.
DETACHABLE SPIKE FOR SHOES.

(Application filed July 11, 1900.)

(No Model.)

Fig. 1.

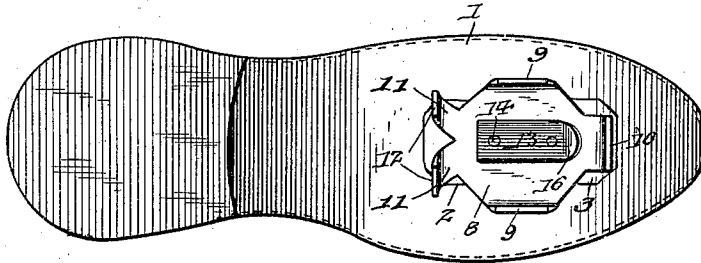


Fig. 2.

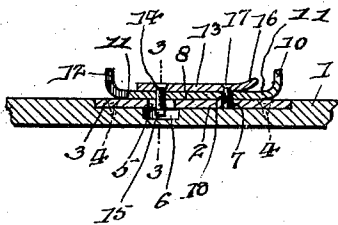


Fig. 3.

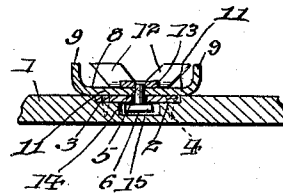
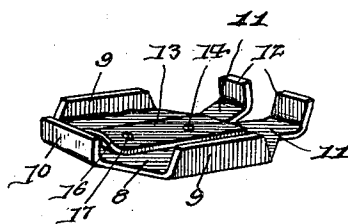


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

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DETACHABLE SPIKE FOR SHOES.

SPECIFICATION forming part of Letters Patent No. 668,274, dated February 19, 1901.

Application filed July 11, 1900. Serial No. 23,251. (No model.)

To all whom it may concern:

Be it known that I, EDWIN WOODWARD, a citizen of the United States, residing at Garrett, in the county of De Kalb and State of Indiana, have invented a new and useful Detachable Spike for Shoes, of which the following is a specification.

This invention relates to spikes for baseball, foot-ball, and athletic shoes generally, and has for its object to provide an improved toe-spike which is conveniently removable, so as to prevent injury to carpets, floors, and the like and also to prevent injury to the spike in walking over stone or other hard roads or sidewalks. It is furthermore designed to form the device of few parts, so as to insure strength and durability and also to facilitate the application and removal of the spike.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a bottom plan view of a shoe having the improved toe-spike applied thereto. Fig. 2 is a detail longitudinal sectional view thereof. Fig. 3 is a transverse sectional view taken on the line 3 3 of Fig. 2. Fig. 4 is a detail perspective view of the detachable plate, which carries one or more spikes.

Corresponding parts are designated by like characters of reference in all of the figures of the drawings.

Referring to the accompanying drawings, 1 designates the sole of an ordinary or athletic shoe, in the toe or ball portion of the lower or outer side of which is formed a recess 2 for the reception of a base-plate 3, that is fixedly connected to the sole of the shoe by means of terminal fastenings 4. Adjacent to the rear end of this plate there is provided a longitudinal slot 5, and a corresponding socket 6 is formed in the back of the recess and extending transversely at opposite sides

of the slot in the plate. Alined longitudinally with and in advance of the slot is a perforation or depression 7. It will be understood that this base-plate is permanently secured to the shoe and is flush with the outer surface of the sole, so as not to interfere with the walking of the wearer, and is designed to form a base, with which the spiked plate is removably connected.

In Fig. 4 of the drawings there has been illustrated the spiked plate 8, which is flat, so as to fit snugly against the base-plate. The opposite longitudinal side edges of this plate are turned or bent downwardly, so as to form opposite longitudinal spikes or calks 9, and the front edge of the plate is also provided with an intermediate similar spike 10. The rear edge of the plate is provided with a pair of rearwardly-extending projections 11, which also diverge and have their terminals bent into spikes or calks 12. The edges of the spikes or calks may be sharpened, as may be desired.

Secured longitudinally to the outer face of the spiked plate is a spring-latch 13, formed by a flat metal strap, one end of which is fixedly secured to the plate by means of a fastening pin or rivet 14, which extends through the spiked plate and slightly beyond the upper face thereof and is provided with a T-shaped head 15. The opposite free end of the latch is deflected downwardly, so as to form a finger-piece 16, and adjacent to the latter is a stud or pin 17, which forms a catch-head, that is loosely received through a perforation 18, formed in the spiked plate.

In applying the spiked plate to the base-plate the former is first applied at substantially right angles to the latter, so that the T-head of the pin 14 may pass through the slot 5 in the base-plate, after which the spiked plate is turned upon the pin as a pivot and into longitudinal alinement with the base-plate, thereby turning the head of the pin transversely across the slot and within the socket in the sole of the shoe, and then the catch or stud 17, carried by the free end of the latch 13, is snapped into the depression or perforation 7 in the base-plate, whereby the two plates are firmly interlocked. It will now be seen that the T-shaped pin 14 forms the connection between the two plates, while the

spring-latch prevents the spiked plate from turning upon the base-plate, and thereby effectually prevents accidental displacement of the device. The spiked plate may be readily
 5 removed by withdrawing the catch or stud from the perforation in the base-plate and then turning the spiked plate until the T-pin can be removed from the slot in the base-plate.

10 From the foregoing description it will be seen that the present device comprises a base-plate for fixed attachment to the sole of a shoe and a removable spiked plate having a
 15 base-plate and also carrying a spring-latch for engagement with the base-plate to prevent an accidental pivotal movement of the spiked plate, which would result in a detachment of said plate.

20 What is claimed is—

1. A spike attachment for shoes, comprising an attaching-plate for application to the sole of a shoe, and a spiked plate, having a detachable connection with the attaching-
 25 plate, and a spring-latch, having a catch stud or head passing loosely through a perforation in the spiked plate and engaging the attaching-plate to prevent separation of the detachable connection.

30 2. A spike attachment for shoes, comprising

ing an attaching-plate for application to the sole of a shoe, and a spiked plate, having a detachable pivotal connection with the attaching-plate, and also carrying a spring-latch, provided with a catch-stud passing
 35 loosely through an opening in the spiked plate and engaging a depression in the attaching-plate, to prevent an accidental pivotal movement of the spiked plate.

3. A spike attachment for shoes, comprising an attaching-plate for application to the sole of a shoe, and provided with a slot, and a depression, and a spiked plate, having a spring-latch, a T-shaped fastening fixedly securing one end of the latch to the outer side
 45 of the spiked plate, the T-head of the fastening projecting at the opposite side of the plate and arranged to be passed through the slot in the attaching-plate, and a catch-stud provided at the free end of the latch and passing
 50 loosely through a perforation in the spiked plate and entering the depression in the attaching-plate.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in
 55 the presence of two witnesses.

EDWIN WOODWARD.

Witnesses:

JOHN M. COOMBS,

Mrs. EDWIN WOODWARD.