No. 891,384. PATENTED JUNE 23, 1908.

E. A. STRANG.

RUBBER FOOTHOLD.

APPLICATION FILED SEPT. 24, 1907.

Fig. 1

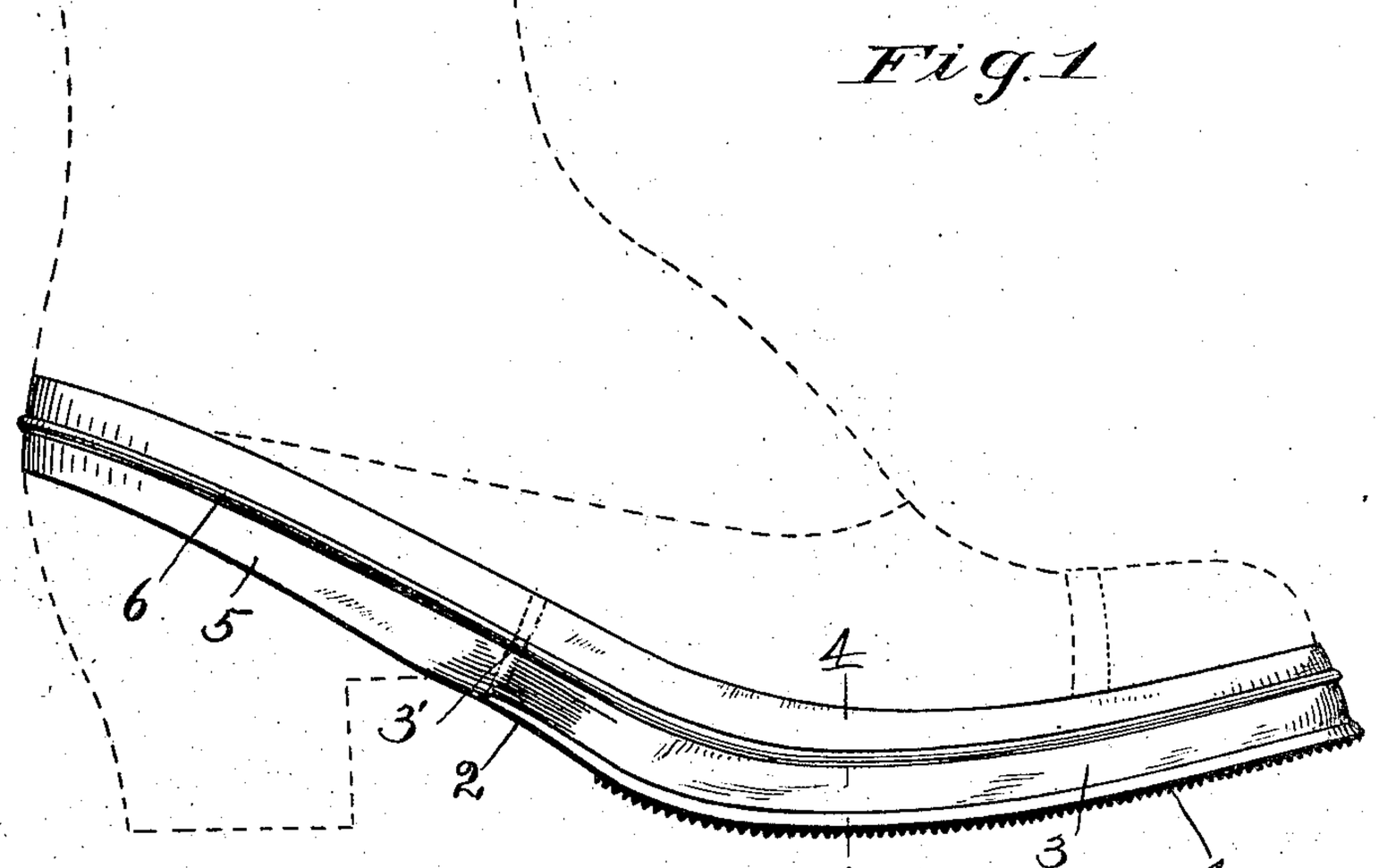


Fig 2

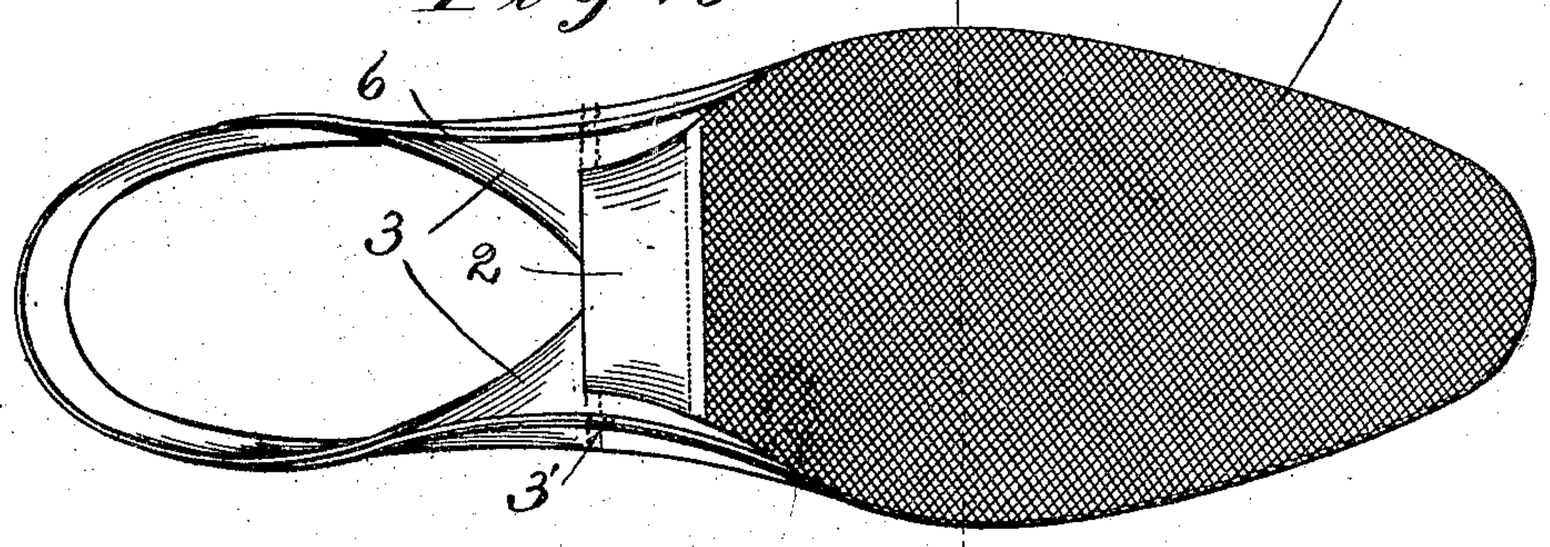
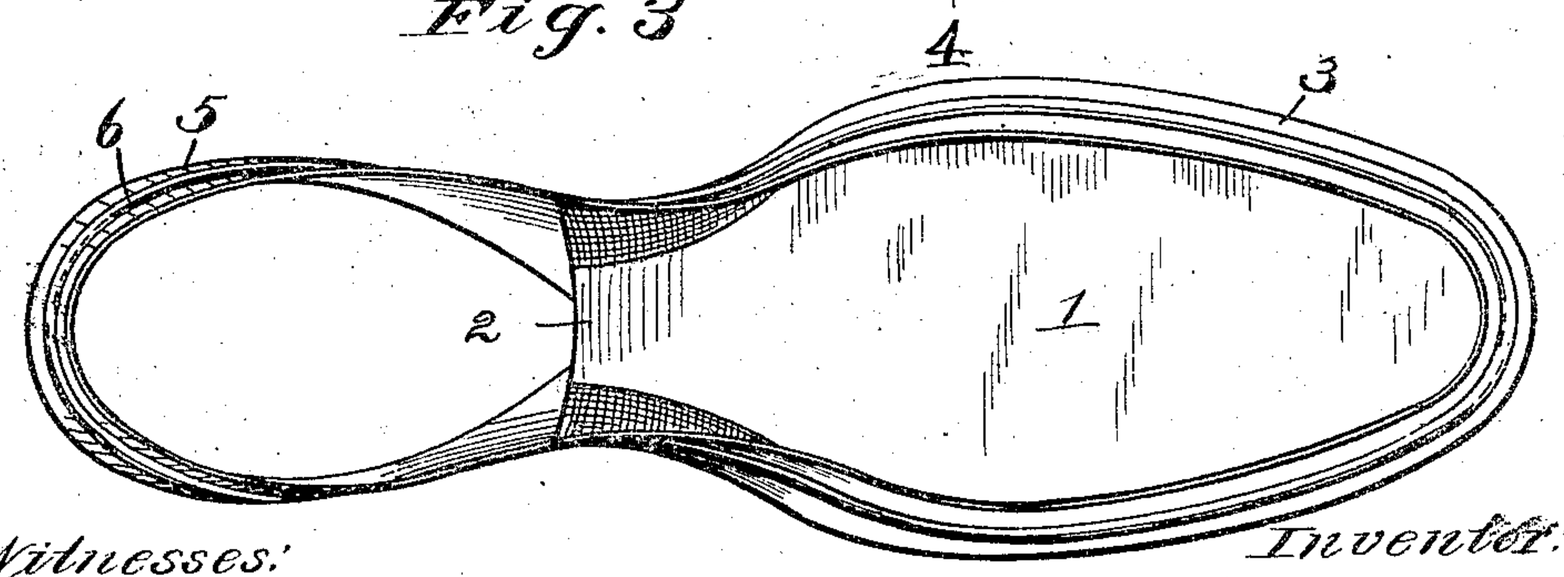


Fig. 3

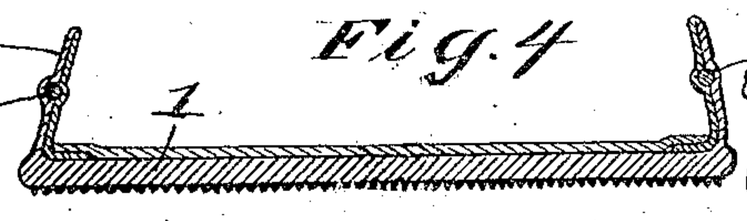


Witnesses:

Alton H. Bemis

Rae Huss

Fig. 4



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UNITED STATES PATENT OFFICE.

EDWARD A. STRANG, OF CLEVELAND, OHIO.

RUBBER FOOTHOLD.

No. 891,384. Specification of Letters Patent. Patented June 23, 1908.

Application filed September 24, 1907. Serial No. 394,316.

To all whom it may concern:

Be it known that I, EDWARD A. STRANG, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Rubber Footholds, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The present invention relates to improvements in rubber footholds such as is set forth in my copending application for rubber footholds, Serial No. 374,986, filed May 22, 1907.

More specifically the invention relates to a foot-hold comprising a sole adapted to extend at the rear up under the inclined portion of the shank or arch of the sole of the shoe of the wearer, and having a narrow strip forming an upper along and co-extensive with the margin of such sole and provided with a substantially inelastic bead which extends throughout the upper. This bead is adapted to take in the crease above the sole of the shoe of the wearer and terminates at its ends in the upper adjacent to the end of the sole portion at the arch or shank of the shoe. The sole portion is held upon the shoe by means of an elastic strap which passes around the heel and is fastened at its ends to the ends of the side portions of the upper whereby it is free to exert practically its entire stress upon the ends of the bead in the upper. This elastic strap is provided with an elastic bead which forms substantially a continuation of the inelastic bead of the upper so that its tension is exerted directly upon such bead.

The invention may be further summarized as consisting in the construction and combination of features set forth in the accompanying specification, drawings and claims.

Referring to the drawings; Figure 1 is a view in side elevation of an improved foot-hold applied to a shoe, which is shown in dotted lines; Fig. 2 is a bottom plan; Fig. 3 is a top plan; and Fig. 4 is a section upon the line 4—4 of Figs. 1 and 2.

Any preferred form of foot-hold may be provided with my invention, but I have shown one form in the drawings which gives great satisfaction and in such embodiment, 1 represents the sole which is inclined upward at the rear to form a shank or arch portion 2, adapted to extend substantially under the inclined portion of the arch or shank of the shoe so as to leave a distance between the end thereof and the heel. This sole is provided along its margin with an upturned narrow strip 3, which forms an upper co-extensive with the edge of the sole and terminating at the arch at substantially the rear end of the sole and it is provided with an inelastic bead which is embedded in the rubber in any preferred manner. I prefer to make this bead of a more or less hard inelastic cord with its ends terminating with the ends of the side portions of the upper as shown at 3′ and for a purpose which will hereinafter appear.

Secured to the ends of the side portions of the upper at the arch or shank of the shoe and extending slightly up under the arch and anchored in the ends of the side portions is an elastic rubber strap 5, adapted to form substantially a continuation of the inclined rear end of the sole and of the side portions of the upper and it takes around the bulge of the heel for the purpose of holding the foothold upon the shoe. This elastic strap is provided preferably upon the exterior with an elastic bead 6, which forms substantially a continuation of the inelastic bead 4, whereby the pull or tension of this elastic bead may be exerted directly upon the ends of the inelastic bead to draw the same in against the shoe at the side to hold the foot-hold upon the shoe of the wearer. The elastic strap 5, also serves to draw upon the ends of the sides of the upper and upon the bead to increase or augment the stress of the elastic bead 6 upon the ends of the inelastic bead 4.

It has been found in actual practice that the elastic strap 5, actually exerts its tension directly upon the ends of the side portions of the upper, and upon the ends of the inelastic bead thus drawing the same into the crease of the shoe at all times and that the elastic bead carried by the elastic strap in exerting its more or less direct pull upon the ends of the inelastic bead is greatly augmented in effect by this pull of the elastic strap.

Having described my invention, I claim:—

1. As an article of manufacture, a rubber foot-hold comprising a sole portion adapted to extend up under the shank or arch of a shoe, a narrow upper at and co-extensive with the margin of said sole portion, a tension member carried by said upper and adapted to engage the upper of the inserted shoe immediately above the sole portion thereof, said tension member when made

taut being adapted to pull about the sides and around the toe of the inserted shoe, and an elastic strap provided with an elastic bead adapted to exert its tension directly upon the tension member carried by the upper.

2. As an article of manufacture, a rubber foot-hold comprising a sole adapted to extend up under the shank or arch of a shoe, a narrow upper at and co-extensive with the margin of said sole and having an inelastic bead adapted to take into the crease above the sole of a shoe, and an elastic heel strap provided with an elastic bead adapted to exert its tension directly upon the inelastic bead of the upper.

3. As an article of manufacture, a rubber foot-hold comprising a sole adapted to extend up under the arch or shank of a shoe, an upper along and co-extensive with the margin of said sole and provided with an inelastic bead terminating at the ends of the side portions of the upper and adapted to take in the crease above the sole of the shoe, and an elastic strap secured to the ends of the side portions of the upper and provided with an elastic bead forming substantially a continuation of the inelastic bead of the upper.

4. As an article of manufacture, a foot-hold comprising a sole having an upwardly inclined rear portion adapted to take under the shank of a shoe, an upper along and co-extensive with the margin of said sole and terminating at the sides at substantially the end of the sole portion and having an inelastic bead terminating at the ends of the side portion and adapted to take in the crease of the sole, and an elastic strap provided within the edges thereof with an elastic bead adapted to exert its tension upon the inelastic bead of the upper.

5. As an article of manufacture, a foot-hold comprising a sole having an upwardly inclined rear portion and adapted to take under the shank of a shoe, an upper along and co-extensive with the margin of said sole and terminating at the sides at substantially the end of the sole portion and having an inelastic bead terminating at the ends of the side portion and adapted to take in the crease of the sole, and an elastic strap provided within the edges thereof with an externally arranged elastic bead forming substantially a continuation of the inelastic bead of the upper.

6. As an article of manufacture, a foot-hold comprising a sole having an upwardly inclined rear portion and adapted to take under the shank of a shoe, an upper along and co-extensive with the margin of said sole and terminating at the sides at substantially the end of the sole portion and having an inelastic hardened bead terminating at the ends of the side portions thereof and adapted to take in the crease of the sole, and an elastic strap provided within the edges thereof with an elastic bead forming substantially a continuation of the inelastic bead of the upper.

7. As an article of manufacture, a foot-hold comprising a sole having an upwardly inclined rear portion and adapted to take under the shank of a shoe, an upper along and co-extensive with the margin of said sole and terminating at the sides at substantially the end of the sole portion and having an inelastic hardened bead terminating at the ends of the side portions and adapted to take in the crease of the sole, and an elastic strap provided within the edges thereof with an externally arranged elastic bead forming substantially a continuation of the inelastic bead of the upper.

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

EDWARD A. STRANG.

Witnesses:

B. W. BROCKETT,

R. M. CALFEE.