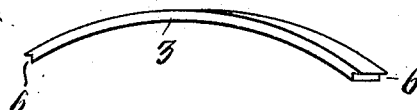
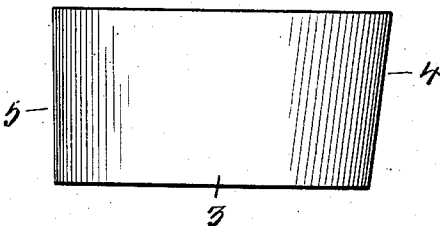
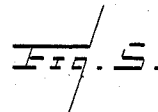
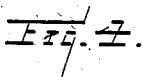
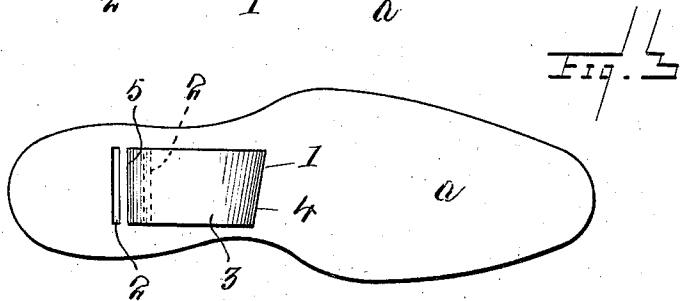
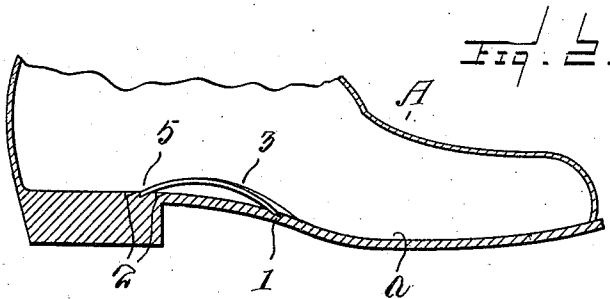
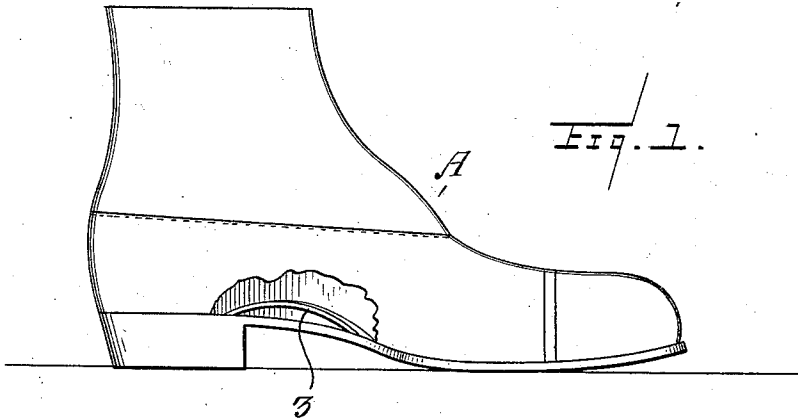


J. G. HILLHOUSE.
 ARCH SUPPORTER.
 APPLICATION FILED MAY 3, 1912.

1,054,547.

Patented Feb. 25, 1913.



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ARCH-SUPPORTER.

1,054,547.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed May 3, 1912. Serial No. 694,940.

To all whom it may concern:

Be it known that I, JOHN G. HILLHOUSE, a citizen of the United States of America, residing at Sylvester, in the county of Worth and State of Georgia, have invented new and useful Improvements in Arch-Supporters, of which the following is a specification.

My present invention relates to improvements in instep arch supporters.

In carrying out this invention, it is my purpose to provide an arch supporter of this character which may be secured to a shoe and within the same directly below the instep or arch and which shall be capable of adjustment within such shoe to vary the curvature of the supporter in order to accommodate arches of various sizes.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the appended claims.

In the accompanying drawing forming a part of this specification and in which similar reference characters designate like parts throughout the several views; Figure 1 is a side elevation of a shoe partly broken away illustrating my invention applied thereto. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a top plan view of a shoe insole formed in accordance with the present invention. Fig. 4 is a detail view of a flexible strip for supporting the arch, and Fig. 5 is a similar view of a modified form of strip.

Referring to the accompanying drawing in detail and particularly to Figs. 1 to 4 inclusive, a shoe is designated at A and as usual is provided with a sole *a*. In accordance with the present invention and as an essential part thereof, the inner surface of the sole *a* at the toe end of the instep arch and immediately adjacent the latter, is provided with an oblique groove 1 and at the opposite end of the instep arch, that is the heel end of the arch, the sole is provided with a plurality of transverse grooves 2 located at appropriate distances from one another and designed to cooperate with the groove 1 to hold the arch supported in position within the shoe.

The arch supporter, in the preferred form of the invention, comprises a flexible strip 3 preferably constructed of leather although any other material possessing the necessary flexible qualities may be utilized. This strip 3 as shown has one end cut obliquely as at 4, while its opposite end presents a straight edge 5. The oblique edge 4 is adapted to be inserted in the oblique groove 1 within the sole *a*, and the straight edge of the supporter is designed for engagement with any one of the grooves 2, whereby the arch supporter may be adjusted to vary the curvature of the strip so as to accommodate arches of various sizes.

In the modified form of the invention disclosed in Fig. 5, the opposing groove engaging edges of the strip are provided with overhanging lips 6 designed to overlap the grooves 1 and 2 in the application of the strip to the insole so as to present an unbroken or continuous surface to the foot of the wearer of the shoe.

Having thus described my invention, what I claim as new, is:

1. In an arch support, a shoe sole provided with an oblique groove at the toe end of the instep arch and a plurality of transverse grooves at the opposite end of such arch, and a flexible strip provided with an oblique edge and a straight edge engageable in said oblique and transverse grooves respectively and adjustable therein to vary the curvature of such strip to accommodate arches of various sizes.

2. In an arch support, a shoe sole provided on its inner surface with a plurality of grooves, and a flexible strip engageable in said grooves and provided with lips adapted to overlap the said grooves, said strip being adjustable in the grooves to vary the curvature of the former to accommodate arches of various sizes.

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

JOHN G. HILLHOUSE.

Witnesses:

E. J. FORD,
P. BROOKS FORD.