

A. E. WITTENBERG.
ADJUSTABLE ARCH SUPPORT.
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1,006,164.

Patented Oct. 17, 1911.

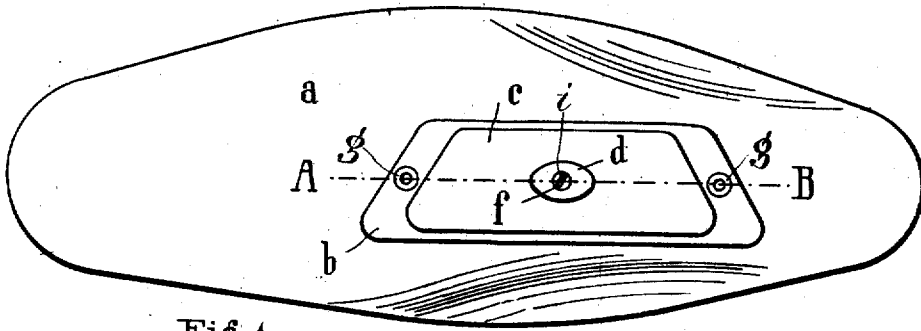


Fig. 1.

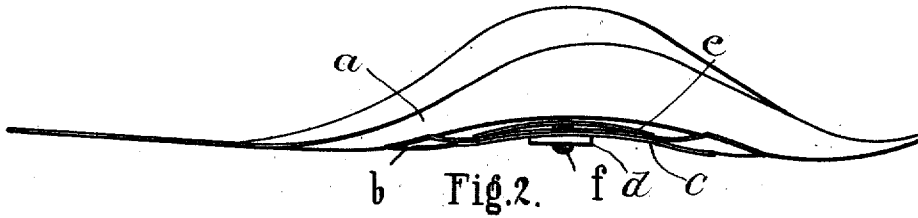


Fig. 2.

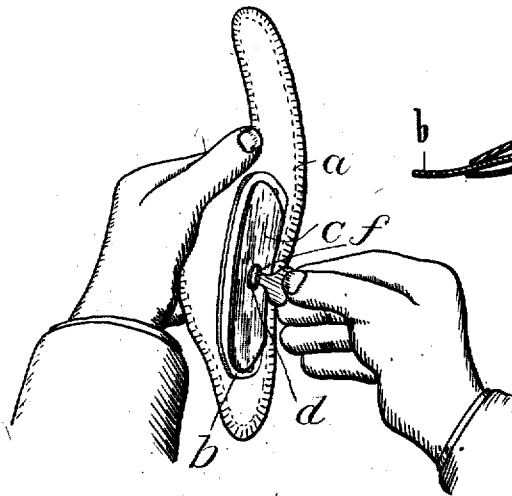


Fig. 3.

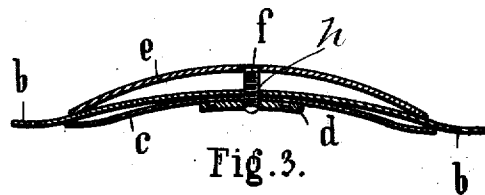


Fig. 4.

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ALADAR ELIAS WITTENBERG, OF STRASSBURG, GERMANY.

ADJUSTABLE ARCH-SUPPORT.

1,006,164.

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To all whom it may concern:

Be it known that I, ALADAR ELIAS WITTENBERG, a subject of the King of Hungary, residing at Strassburg, in Alsace-Lorraine, Germany, have invented new and useful Improvements in Adjustable Arch-Supports, of which the following is a specification.

My invention relates to improvements in adjustable arch supporters in which there is secured to the under side of an insole a bearing plate carrying a plurality of curved members, with means for adjusting the curvature thereof.

The objects of my invention are, first, to provide an arch supporter for sustaining the instep and adjustable to the arch thereof; and, second, to provide means whereby the broken down condition of "flat-feet" can be gradually built up and restored to normal condition. I attain these objects by the arrangement of parts illustrated in the accompanying drawings, in which:—

Figure 1, is a bottom plan view of an insole with the adjustable arch supporter attached thereto. Fig. 2, is a side elevation of the same. Fig. 3, is a sectional view of the arch supporter, taken on the line "A—B", Fig. 1. Fig. 4, is a perspective view showing the method of adjusting the plate curvature of the supporter.

Similar letters refer to similar parts throughout the several views.

In the drawings "a" is an insole, blocked to the shape of the sole of the human foot. Attached to the underside of the insole "a", by any suitable means, for instance as here shown by the rivets, "g", is a plate "b", which is arranged in the longitudinal plane thereof. Above the plate "b" and having end bearings thereon, is a resilient arched plate "e", which forms one of the adjustable members of the arch support. A resilient arched plate "c", located under the plate "b", and having end bearings thereon, serves as a second adjustable member of the arch support.

Adjustment between the plates "e" and "c", changing their arcs of curvature, is effected by a screw "f", having a countersunk head bearing in the plate "e", extending through the opening "h" in the plate "b", and having engagement with the threaded aperture in the plate "c".

In order to increase the holding of the threaded portion of the screw "f" to the plate "c", a nut or plate "d", having a threaded aperture, may be secured to the latter. The screw "f" is slotted at "i" for a screwdriver.

From the foregoing it will be seen that the arcs of the arched pieces "e" and "c" may be adjusted to suit the arch of the instep by the turning of the screw "f", and that by gradual adjustment of these parts, the broken-down condition of "flat-feet" can be built up to the normal condition.

Having thus described my invention, what I claim is:—

1. A foot arch support comprising in combination, an insole, a plate secured to the under side of said insole, a resilient arch member having end bearings on said plate and normally curving said inside upwardly, a second resilient arch member having end bearings against the under side of said plate, and means connected with said resilient arch members for adjusting the curvature of the arch support.

2. A foot arch support comprising in combination, an insole, a plate secured to the under side of said insole, a resilient arch member having end bearings on said plate and adapted to normally curve said insole upwardly, a second resilient arch member having end bearings against the under side of said plate, a nut secured to said second mentioned resilient arch member and provided with a threaded aperture, and a screw having its head bearing in said first mentioned resilient arch member and its threaded portion in engagement with said nut to adjust the curvature of the arch support.

3. A foot arch support comprising in combination, a plate, a resilient arch member having end bearings on said plate and normally arched upwardly, a second resilient arch member having end bearings against the under side of said plate, and means connecting said resilient arch members for adjusting the curvature of the arch support.

4. A foot arch support comprising in combination, a plate, a resilient arch member having end bearings on said plate and normally arched upwardly, a second resilient arch member having end bearings against the under-side of said plate, a nut secured to

said second mentioned resilient arch member and provided with a threaded aperture, and a screw having its head bearing in said first mentioned resilient arch member and its threaded portion in engagement with said nut to adjust the curvature of the resilient arch support.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALADAR ELIAS WITTENBERG.

Witnesses:

SIEGFRIED HAUSER,
AUGUST OOSTERMAN.