

A. E. MAGORIS.
 APPLIANCE FOR THE SUPPORT OF THE FOOT.
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947,113.

Patented Jan. 18, 1910.

Fig. 1.

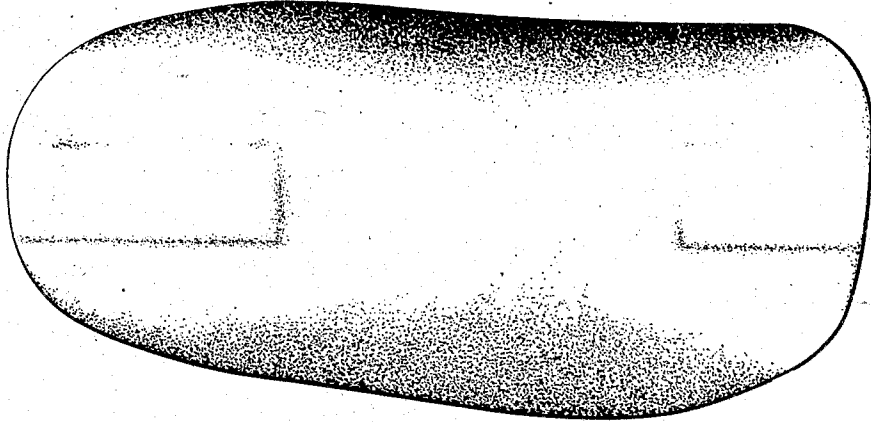


Fig. 2.

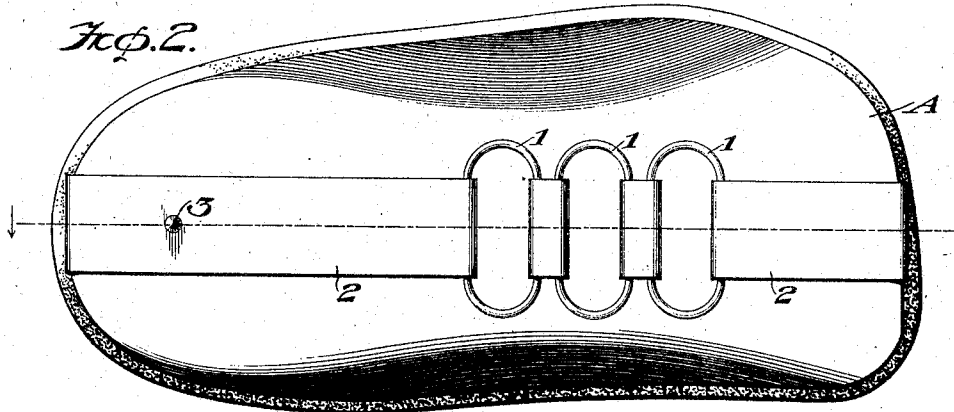
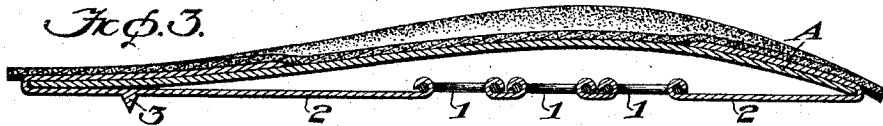


Fig. 3.



Witnesses

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APPLIANCE FOR THE SUPPORT OF THE FOOT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ANTHONY E. MAGORIS, M. D., a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Appliances for the Support of the Foot, of which the following is a specification.

My invention relates to an appliance for the support of the foot, in case of flat-foot or broken-down instep, either due to accident or from a weakening of the muscles and ligaments in the palmar surface of the foot.

With these objects in view, this invention consists in certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claims.

In the accompanying drawings:—Figure 1 is a top plan view, Fig. 2 is a bottom plan view, and Fig. 3 is a longitudinal vertical section through my improved foot support.

The arch support A is made from thin sheet metal, which may be hardened until it has the required spring elasticity. The metal may be of any suitable kind, such as aluminum, steel, copper, brass, zinc, or the like. This arch support is shaped in outline so that it is larger than the actual sole of the foot in the part under the instep arch. It is of a suitable length preferably to reach from the back of the heel forward nearly to the ball of the foot, but must not interfere with the part which forms the base of the leverage in walking, in front of the instep arch. This plate A is formed upon an appliance which has the general form of a last, so that it fits the foot as does the sole of a shoe and extends up on the inside of the arch as a support.

A series of spring metal rings or loops 1, 1, preferably flattened into oblong shape, and of sufficient width and thickness of metal for the use, are strung together in the form of a flat chain and located beneath the arch, and fastenings in the form of metal strips 2, 2, or of twisted wires it might be, are bent or hooked around the ends of the plate as shown. These metal extension parts are for the purpose of fastening the chain of loops in proper relation to the arch. When this chain of rings or loops is placed under the arch, it forms a chord across the

arch or bridge space under the arch and in a straight line with the portion of the metal plate under the heel and instep.

A spur 3 might be fastened to the under surface at the heel to penetrate the heel of the shoe to prevent the appliance from moving in the shoe. A cover of leather or any suitable material may be fastened to the foot surface, and two metals might be employed to produce a galvanic-electro effect.

It will be seen that the intention is to—first—form a spring arch under the instep, and—second—to reinforce the arch with a spring appliance which acts in immediate and constant support of this arch.

By the use of this appliance, an artificial spring support is given to the arch of the instep, and one which aids the muscles of the foot in walking, and in supporting the bones or muscles of the foot or in curing the distressing condition of flat foot, or broken-down arch.

It is evident that more or less slight changes might be resorted to in the form and construction of the several parts described, without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth, but:—

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

1. A foot arch comprising an arch-shaped piece, and a flat, longitudinally yieldable spring located in the arch and connected with the ends of the arch-shaped piece, said spring comprising metallic strips yieldably connected together by elliptical rings.

2. A foot arch comprising an arch-shaped piece, and a longitudinally yieldable spring located in the arch-shaped piece, said spring comprising two metallic strips connected together by a plurality of elliptical rings, the elongated sides of which lie parallel to each other.

3. A foot arch comprising an arch-shaped piece, and a longitudinally yieldable spring located in the arch and connected with the ends of the arch-shaped piece, said spring comprising metallic strips connected together by a plurality of elliptical rings, the elongated sides of which lie parallel to each other, and means connecting them together, whereby the tension or strain is brought to

