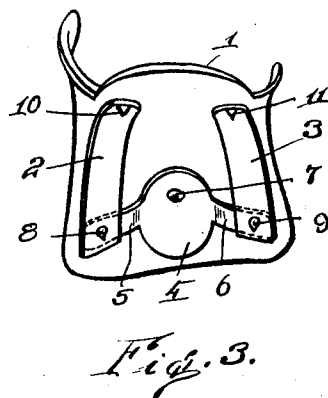
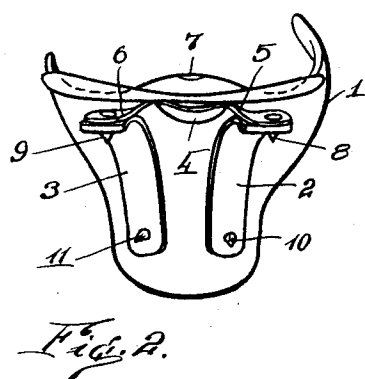
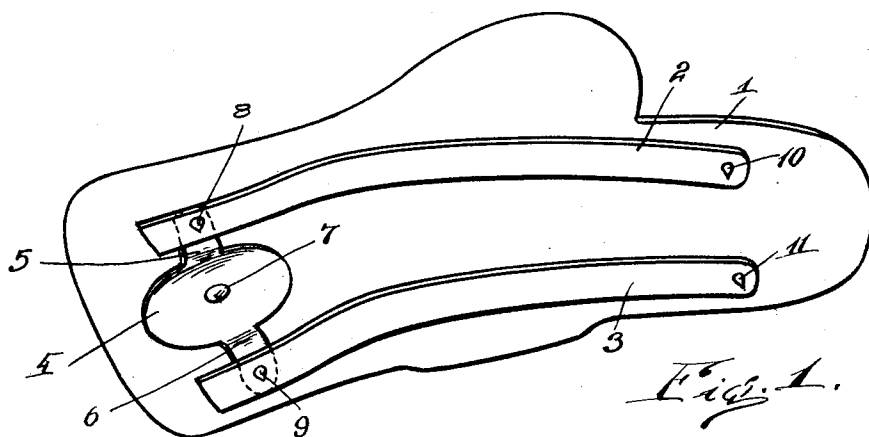


G. F. SPIEGEL,
ARCH. SUPPORT.
APPLICATION FILED MAR. 8, 1920.

1,399,447.

Patented Dec. 6, 1921.



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ARCH-SUPPORT.

1,399,447.

Specification of Letters Patent.

Patented Dec. 6, 1921.

Application filed March 8, 1920. Serial No. 363,938.

To all whom it may concern:

Be it known that I, GEORGE F. SPIEGEL, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Arch-Supports, of which the following is a specification.

The object of this invention is to provide a new and improved form of arch support.

This and other objects of the invention, will be fully illustrated in the drawings, described in the specification and pointed out in the claims at the end thereof.

In the drawings,

Figure 1 is a perspective view of the arch support looking at it from below at one side.

Fig. 2 is an end view of the arch support looking at it from below at the front end.

Fig. 3 is a perspective view of the arch support, looking at it from below at the rear end.

In the drawings, like reference numerals indicate like parts.

The arch support constituting this invention is an improvement on the arch support shown in my previous Patent No. 1,211,255. In the drawings, reference numeral 1 indicates the cover for the support which is preferably made of leather. To the bottom of this cover at one end are fastened the springs 2 and 3 which are preferably made of phosphor bronze. The springs span over the shank of the shoe from the ball to the heel. At the forward ends these springs are fastened to the cross piece or spring plate 4, which plate is made with an oval intermediate part having the arms 5 and 6 extending from each side thereof. The springs 2 and 3 and the plate 4 with its arms are bowed up in the middle, the intermediate part of the plate 4 being dishd. The plate 4 is fastened to the cover by the rivet 7 and the springs 2 and 3 are fastened to the arms 5 and 6 by the rivets 8 and 9, the lower ends of which rivets 8 and 9 are pointed so that they engage with the insole of the shoe. The lower ends of the rivets 10 and 11 at the rear

end of the springs are also pointed so that they will also engage with the sole of the shoe. The forward ends of the springs 2 and 3 are pointed at one corner so that they may engage with the sole of the shoe and hold the support from slipping forward.

Because of the shape of the cross piece, the leather of the cover is raised up and supported in the middle at the front at a place where a hollow naturally occurs in the foot, and a better supporting of the foot is thus secured. This cross piece is intended to occur intermediately under what is known as the metatarsal arch of the foot. The support thus given is in addition to the support given by the springs 2 and 3, the effect of which is described in my prior patent.

I claim:

1. In an arch support, the combination of a cover, a plurality of springs under said cover adapted to span over the shank of the shoe from the ball to the heel, the forward ends of said springs being connected by a bow shaped spring plate, said cover being supported by said springs along the length thereof and being supported between the forward ends of the springs by said bow shaped spring plate.

2. In an arch support, the combination of a cover, a plurality of springs under said cover adapted to span over the shank of the shoe from the ball to the heel, the forward ends of said springs being connected by a bow shaped spring plate, said plate having a wide intermediate part, said cover being supported by said springs along the length thereof and being supported between the forward ends of the springs by said bow shaped spring plate.

3. In an arch support, a cover, a spring support fastened near the forward end thereof and extending transversely thereof, said support being high in the middle and low at the ends, springs fastened to the ends of said spring support and extending rearwardly under the cover.

In testimony whereof I affix my signature.
GEORGE F. SPIEGEL.