W. N. BARRETT.

ARCH SUPPORTER.

APPLICATION FILED MAY 14, 1920.

1,369,375. Patented Feb. 22, 1921.

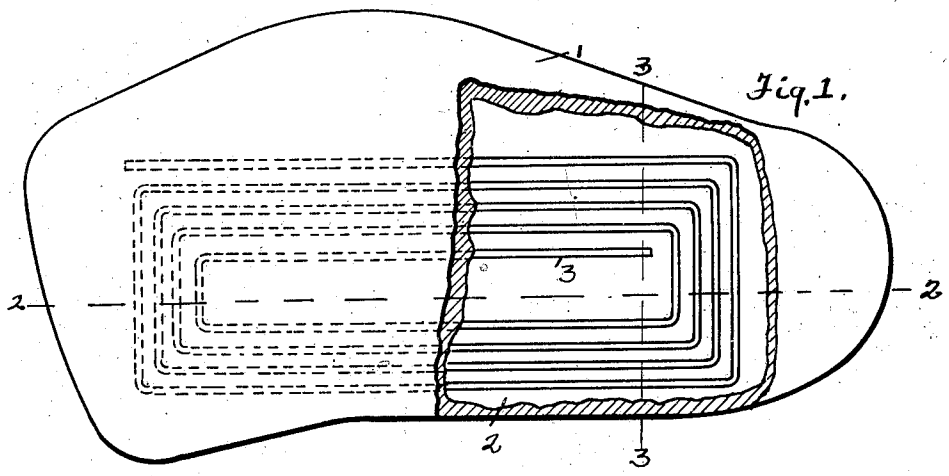


Fig. 1.

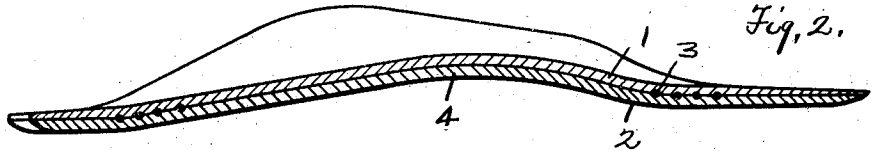


Fig. 2.

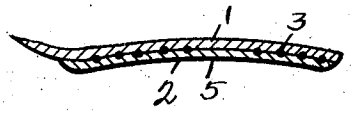


Fig. 3.

INVENTOR

William N. Barrett

By W. R. Lond

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM N. BARRETT, OF MEADVILLE, PENNSYLVANIA.

ARCH-SUPPORTER.

1,369,375. Specification of Letters Patent. Patented Feb. 22, 1921.

Application filed May 14, 1920. Serial No. 381,456.

To all whom it may concern:

Be it known that I, WILLIAM N. BARRETT, a citizen of the United States, residing at Meadville, in the county of Crawford and State of Pennsylvania, have invented new and useful Improvements in Arch-Supporters, of which the following is a specification.

This arch support is so formed of a plurality of strips that the arch can readily conform to the foot, in other words, while there is an ample supporting force there is a degree of flexibility which allows the support to conform to the shape of the foot. The device readily lends itself also to forming a transverse arch where this is desired.

The invention is illustrated in the accompanying drawings as follows:—

Figure 1 shows a plan view of the arch, a part being broken away to better show construction.

Fig. 2 shows a section on the line 2—2 in Fig. 1.

Fig. 3 a section on the line 3—3 in Fig. 1.

The arch is formed with a covering material formed in two layers 1 and 2, these layers being ordinarily formed of leather and united by a suitable cement. Resilient strips 3 are provided preferably in the form of a wire scroll, thus giving a plurality of longitudinal strips and a plurality of transverse strips connecting the longitudinal strips. The strips are embedded in the leather as the two layers are forced together as they are united by the cement. Preferably the strips are of a cross section having equal dimensions, such as round wire, so that sufficient support is afforded by reason of the thickness of the wire leaving the greater portion of the surfaces of the leather exposed to each other so that they may be readily united by cement. By using such wire a greater number of strips are used and a more yielding structure is formed so that it will more readily conform to the foot. The longitudinal arch is formed at 4, the longitudinal strips or portions of the wire maintaining this arch and a transverse arch is formed at 5, the transverse portions of the wire supporting this arch. With this structure the wire may be readily bent to conform to any shape desired and will retain within the limits to which these arches are subjected this shape. Not only the longitudinal arch may be readily formed but also a transverse arch, thus permitting the support to be readily fitted to a foot.

What I claim as new is:—

1. An arch supporter comprising a plurality of longitudinally disposed strips of equal cross dimensions; and a covering having two layers one on each side of the strips, the strips being embedded in the covering, the layers being cemented together between the strips.

2. An arch supporter formed of a scroll of wire, the longitudinal parts of the scroll being arched to form the support.

3. An arch supporter formed of a scroll of wire, the longitudinal parts of the scroll being arched to form the support, one series of the transverse strips formed by the scroll being arched to form a transverse arch.

4. An arch supporter formed of strips of wire extending longitudinally of the support, one of the wires being bent at one end forming a transverse extension on the longitudinal strip.

5. An arch supporter formed of strips of wire extending longitudinally of the support, a plurality of said wires being bent at one end forming transverse extensions on the longitudinal strips.

6. An arch supporter formed of strips of wire extending longitudinally of the support, one of the wires being bent at one end forming a transverse extension on the longitudinal strip, said strips having equal cross dimensions; and a covering for said strips comprising two layers in which the strips are embedded, the intervening portions of the layers being secured together by cement.

In testimony whereof I have hereunto set my hand.

WILLIAM N. BARRETT.