Oct. 23, 1928. 1,689,040

P. F. MARRON

ARCH SUPPORT MARKER

Filed Nov. 22, 1926

FIG. 1.

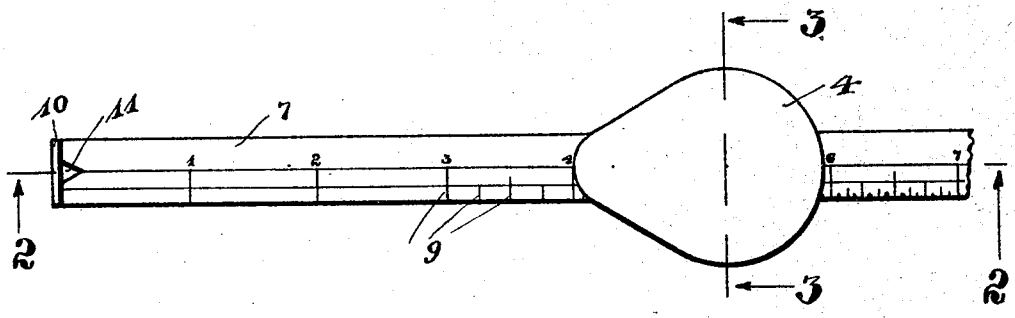


FIG. 2.

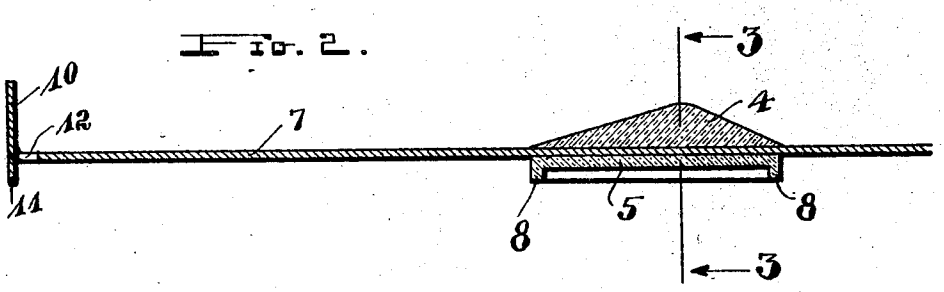
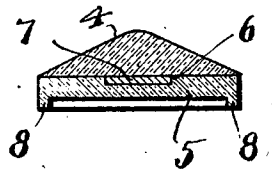


FIG. 3.



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UNITED STATES PATENT OFFICE.

PAUL F. MARRON, OF SANTA BARBARA, CALIFORNIA.

ARCH-SUPPORT MARKER.

Application filed November 22, 1926. Serial No. 150,017.

This invention relates to devices used for marking a desired location for an arch support in a shoe.

One of the objects of this invention is to provide a member of a form comparable with an arch support on a measuring device to allow a measuring of a proper location of an arch support under a foot.

Another object is to provide marking means on the measuring device, by which the location of an arch support observed on a foot may be transferred and printed or marked in a shoe preparatory to securing an arch support in the marked position.

Another object is to provide a graduated scaled rod for the measuring instrument.

Other objects will appear from the following description and appended claims as well as from the accompanying drawing, in which—

Fig. 1 is a top plan view of a measuring rod with an arch-support indicator slidable thereon, embodying a simple form of this invention.

Fig. 2 is a longitudinal midsectional view on line 2—2 of Fig. 1.

Fig. 3 is a cross-section on line 3—3 of Figs. 1 and 2.

The forward or anterior or metatarsal arch is normally so far towards the front that it is extremely hard to properly place or even mark the correct position for an arch-support in the normally restricted forward portion in the shoe.

By providing a suitable member on a measuring instrument of a form similar to the actual arch-support that is to be placed in a shoe on the measuring instrument, so that the member may be placed under the foot in a position known to be correct and proper for the eventual arch-support, and then setting the measuring rod in relation to the heel or some other suitable portion of the foot, by which the proper location can be marked in the shoe, mistakes are practically eliminated.

As illustrated in the drawing, the member 4 is of a form similar to the arch support-button described in my co-pending application Serial No. 150,016, filed Nov. 22, 1926. A second portion 5 is placed underneath the arch button 4 and is therefore preferably of a form to conform with the contours of the button 4, as seen from the top. In the cross-section illustrated in Fig. 3, the longitudinal groove 6 serves to receive a measuring rod 7. The two members 4 and 5 are preferably made in separate pieces, secured together as by gluing or cementing, so as to form one single indicator slidably mounted on the measuring rod 7. The groove 6 is preferably of suitable proportions to slightly impinge upon the sides of the measuring rod 7, to facilitate a setting of the indicator on the measuring stick. The indicator is preferably made of rubber, so that the slightest friction between the indicator and the measuring stick will be sufficient to prevent an undesired slipping of the indicator, when adjusted to a certain position. The lower portion 5 is provided with bead-like edges 8 on the underside, by which the contours of the arch support may be marked in a shoe after previously touching these edges on an ink-pad. The measuring rod is preferably provided with graduated scales, indicated at 9, on both the upper and the underside of the rod.

One end of the measuring rod is preferably bent, as indicated at 10, in a manner that it may be placed to engage over the back of the heel, while the portion 4 of the indicator is placed under the foot. A portion 11 is punched out, as outlined in Fig. 1, to serve as a measuring prong on the underside, when punched through in the bent condition of the end 10, as illustrated in Fig. 2.

Placing the end 10 over the rear of a heel, while the measuring rod 7 is placed under a foot, the indicator can be shifted on the measuring rod until the top portion is located in a proper position within the forward-arch of the foot.

The indicator in this properly adjusted position is placed on an ink-pad to ink the edges 8 of the portion 5, and the whole device, the indicator with the measuring rod, is then placed in a shoe with the prong 11 placed in a certain position in a shoe, to facilitate an accurate marking of the arch support by the indicator. The measuring device is then removed from the shoe, and a proper arch button is glued or otherwise secured in the marked position in a shoe.

Having thus described my invention, I claim:

1. In an arch support marker, a measuring rod having a portion adapted to maintain a certain relation to a foot, and an indicator shiftable on the rod and being of a form equivalent to a forward-arch support-button and having a marking edge on its underside

adapted to mark the contours of the indicator in a shoe.

2. In an arch support marker, a measuring rod, a forward-arch button, and a marking element of similar lateral contours as said button applied to the underside of said button and having means on its underside of a form adapted to mark the contours of said button in a shoe, there being an elongated space between said button and said element proportioned to frictionally engage said rod by the surrounding button and element.

3. In an arch support marker, a measuring rod, an arch button, a marking element of a contour to align with the edges of said button and having a groove to receive said rod shiftable with a due amount of friction to avoid an undue slipping when the button and element are secured together, and marking edges on the underside of said element adapted to mark the contours of the arch button in a shoe.

In testimony that I claim the foregoing as my invention I have signed my name.

PAUL F. MARRON.