March 22, 1932. W. M. SCHOLL 1,850,852

FOOT MEASURING DEVICE

Filed Aug. 26, 1927

Fig. 1

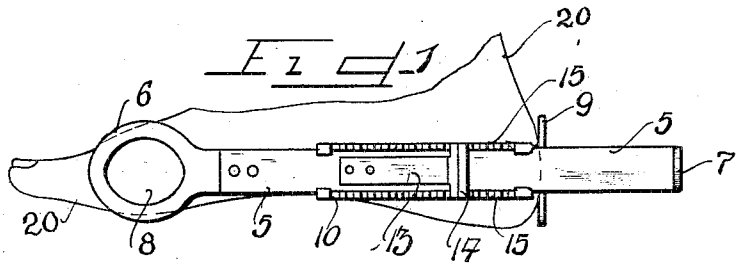


Fig. 2

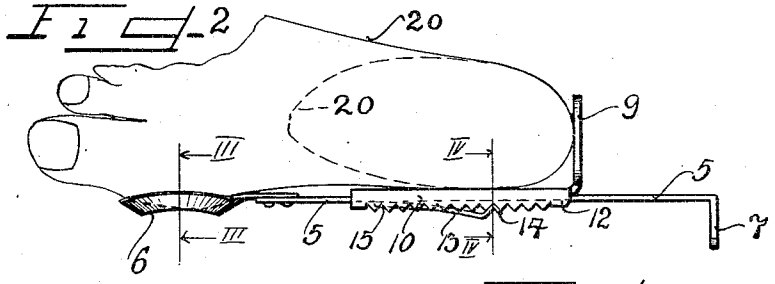


Fig. 4

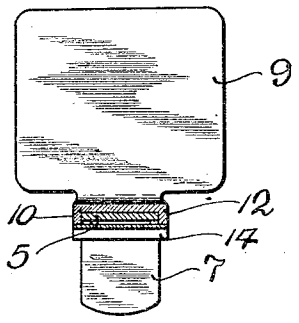


Fig. 3



Inventor
William M. Scholl

by Charles Scholl Attys.

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UNITED STATES PATENT OFFICE

WILLIAM M. SCHOLL, OF CHICAGO, ILLINOIS

FOOT MEASURING DEVICE

Application filed August 26, 1927. Serial No. 215,573.

The invention relates to devices for measuring the human foot.

Arch supports, for relieving, raising and supporting the various arches of the foot, have a definite size relation to the distance between the rear of the heel and the point where the first metatarsal articulates with a corresponding phalange, or in other words, the lateral projection of the large toe joint. For the purpose of uniformity the arch supports have been consecutively numbered to approximately correspond with the shoe numbers, there is however, some variation in sizes required in unusual cases.

One of the objects of the invention is to provide a device which may be used to accurately measure the foot and directly indicate in whole numbers the size of arch support best adapted for the foot measured.

Another object is to provide a device which accurately will measure the distance from the rear of the heel to the center of the great toe joint for determining the size or length of a shoe or an arch support for the foot so measured, and which will bear a visible indication of the measurement so made in terms of numbers which the shoe or arch support bears.

Other objects, advantages and benefits will hereinafter appear from a consideration of the following description when taken with the accompanying drawings forming a part hereof, wherein:

Figure 1 shows an outline of a foot in side elevation with the device applied thereto.

Figure 2 is a plan outline of a foot showing the device applied thereto.

Figure 3 is a section taken on line III—III of Figure 2.

Figure 4 is a transverse section taken on line IV—IV of Figure 2.

In all the views the same reference characters indicate similar parts.

The device consists of two members. The inner member 5 is provided with a ring 6 on one end, and, for convenience, a handle part 7 on the other end. The ring is intended to overlie the laterally exteding protuberance 8, which is the location near the first metatarsal of a natural foot.

Slidable on the member 5, is a member 10, which carries a laterally extending plate 9 to lie behind the heel when measurements of a foot are to be made. The member 10 consists in part of a trough-like part 12, with notches 15 on its out-turned edges. A pawl 13, consisting of a spring strip, is riveted or otherwise secured to member 5 and carries on its free end laterally extending V-shape parts 14, to lie in the notches 15 and to thus yieldingly hold the parts in adjusted positions.

Each notch 15 may be numbered to correspond with the respective numbers of the arch supports, so that the measurements of the foot are directly readable on the device in terms corresponding to those by which the arch supports are designated.

The members 5 and 10 may be freely moved longitudinally, the pawl 13 yielding to permit such movement.

The ring 6 is dished to more comfortably conform to the presented surfaces of the foot.

The device is shown as it will appear when applied to a foot for the purpose of measurement. The outline 20 of a foot is shown for that purpose.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

Having described my invention what I claim is:

1. In a device of the class described, an L-shaped member comprising flat arms, one arm being engageable with the back of the heel of a foot and the other arm being engageable with a side of the heel, said arms being located in perpendicularly related planes, the second arm having longitudinal toothed flanges extending laterally therefrom in a direction opposite to the first arm, portions of said flanges being offset, and a second member having a flat stem slidably received between said flanges and between the second arm and said portions, whereby said flanges serve as guide means for relative movement

of said members, the second member having a spring pawl yieldably engaging any selected pair of opposed teeth on said flanges to hold the members in any desired adjustment, said teeth constituting graduations and said pawl constituting a pointer indicating a graduation corresponding to any particular adjusted relation of the members, said stem having a forwardly disposed annular portion for receiving the tuberosity of an outer metatarsal head of the foot, said stem being provided rearwardly with a laterally extending hand grip, said annular portion and stem including means to positively prevent separation thereof.

2. In a device of the class described, a pair of relatively movable members engageable with different parts of a foot to indicate the distance therebetween, one of said members having graduations in the form of notches and the other having a pointer in the form of a yieldable pawl selectively engageable in said notches to yieldably maintain said members in a selected adjustment and at the same time indicate the adjusted relation of said members, said members having perpendicularly related portions engageable respectively with the back of the heel and a forward portion of the foot, whereby to insure measurement of the true distance of said portion of the foot forwardly of the heel, regardless whether a right or a left foot is involved.

In testimony whereof I have hereunto subscribed my name at Chicago, Cook County, Illinois.

WILLIAM M. SCHOLL.