April 30, 1929. G. F. MADINGER 1,710,831

ARCH SUPPORTER

Filed July 23, 1927

Fig. 2

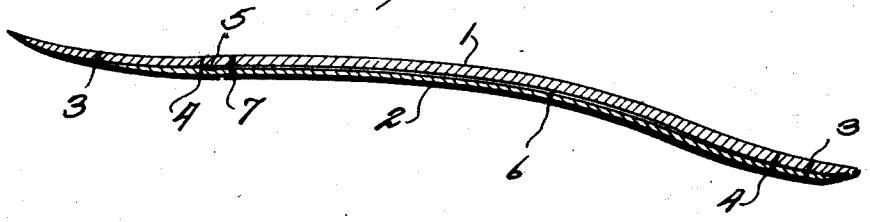


Fig. 1

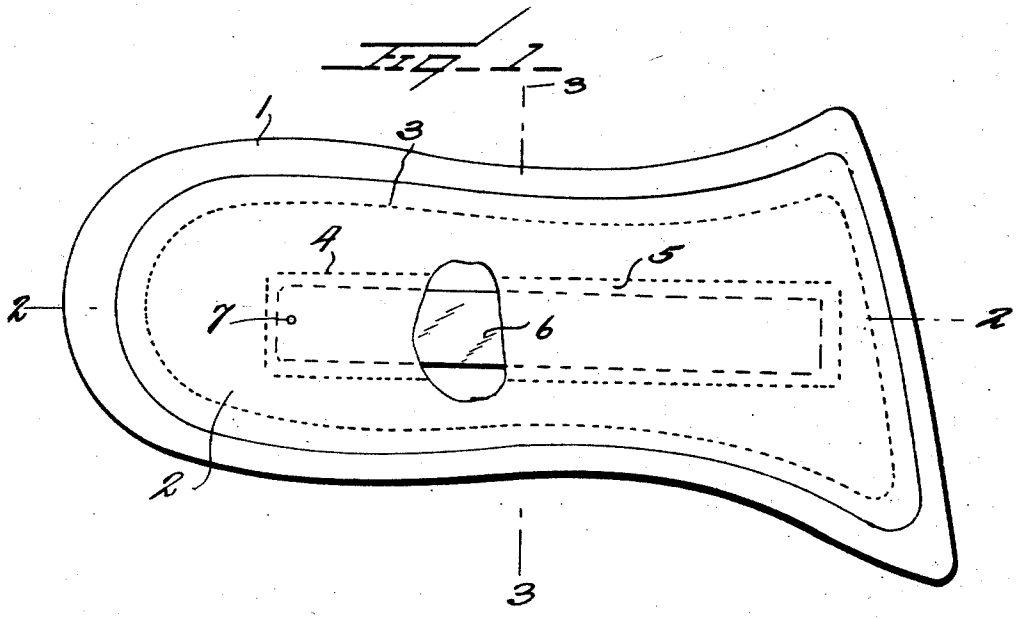
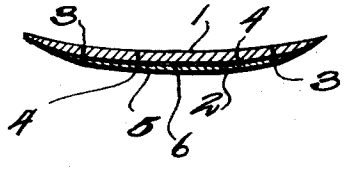


Fig. 3



INVENTOR.

G. F. Madinger

Watson E. Coleman

ATTORNEY.

Patented Apr. 30, 1929. 1,710,831

UNITED STATES PATENT OFFICE.

GOTTLIEB F. MADINGER, OF ST. JOSEPH, MISSOURI.

ARCH SUPPORTER.

Application filed July 23, 1927. Serial No. 207,926.

This invention relates to arch supporters and it is an object of the invention to provide a device of this kind which readily fits within a shoe and which is free of any heavy irons or bulky pockets to draw the shoe out of shape.

It is also an object of the invention to provide a device of this kind which, when applied within a shoe, takes up but little room and does not have a tendency to draw the shoe out of shape.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved arch supporter whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:—

Figure 1 is a view in top plan of an arch supporter constructed in accordance with an embodiment of my invention;

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1;

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 1.

As herein disclosed, my improved supporter comprises the superimposed laminations 1 and 2 of leather or kindred material, the lamination 2 being of less thickness than that of the lamination 1 with the marginal portions of the lamination 2 disposed inwardly of the marginal portions of the lamination 1. The marginal portions of the assembled laminations 1 and 2 are suitably rounded or finished in accordance with the requirements of practice and said laminations are secured one to the other by the continuous rows 3 and 4 of stitching. The outer row 3 is in relatively close proximity to the marginal portion of the lamination 2 and follows a line substantially conforming to the peripheral configuration of the lamination 2. The inner row 4 of stitching defines substantially an oblong design extending from the rear portion of the lamination 2 to a point in close proximity to the forward or toe end portion thereof. This stitching 4 results in the production of a casing or sheath 5 in which is completely housed an elongated flat spring 6 having its forward end portion riveted, as at 7, or otherwise anchored to the lamination 1 at one end portion of the casing or sheath 5.

The opposed faces of the laminations 1 and 2 outwardly of the stitching 4 are further connected one to the other by a suitable adhesive.

The flat spring 6 is disposed lengthwise on a curvature or bow to maintain the supporter in its entirety in requisite formation and such spring possesses sufficient tension to assure the device when in use affording effective support for the arch of a foot.

From the foregoing description it is thought to be obvious that an arch supporter constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

An arch supporter comprising two superimposed laminations of leather or kindred material, one of said laminations being of less thickness than the other with the marginal portion of the first lamination arranged inwardly of the marginal edge of the second lamination, continuous rows of stitching connecting said laminations, one of said rows being adjacent to the periphery of the supporter, the innermost continuous row providing an elongated sheath extending lengthwise of the supporter, an elongated flat spring housing within the sheath, and means for connecting an end portion of the spring to one of the laminations.

In testimony whereof I hereunto affix my signature.

GOTTLIEB F. MADINGER.