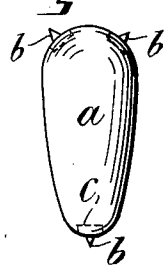
B. CAMPBELL.

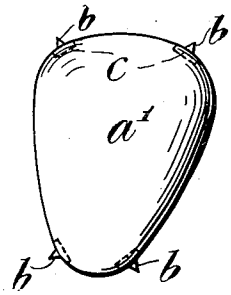
ARCH SUPPORT.

APPLICATION FILED FEB. 21, 1919.

1,325,076. Patented Dec. 16, 1919.

Fig. 1.





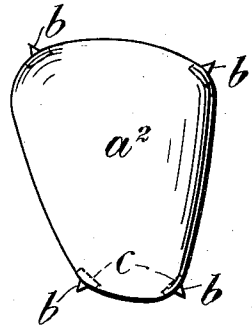


Fig. 2.

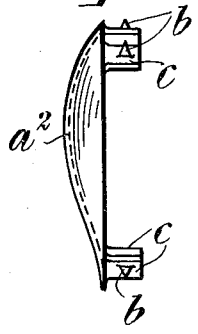


Fig. 3.

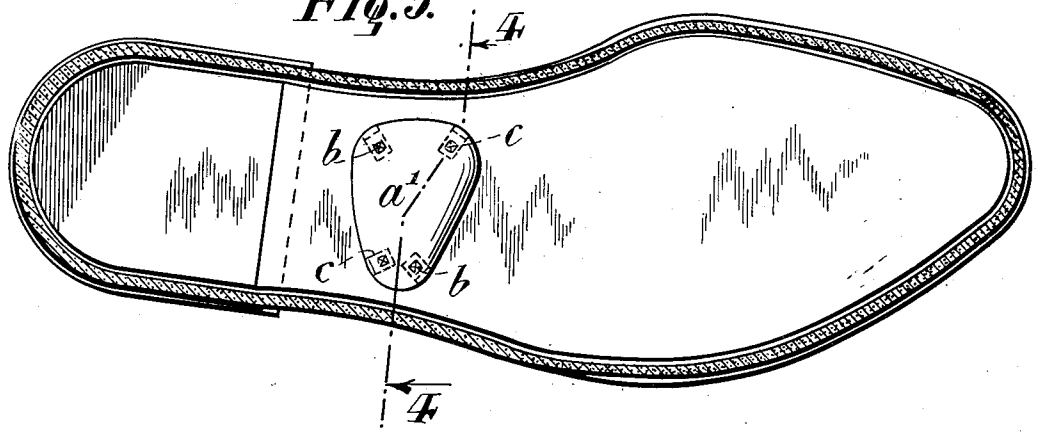


Fig. 4.

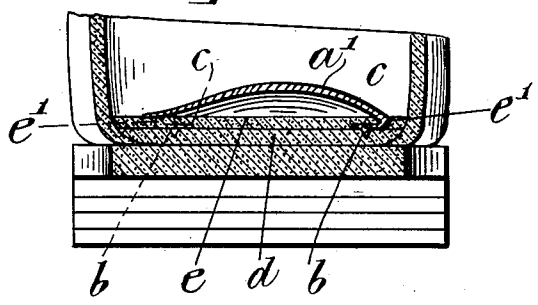
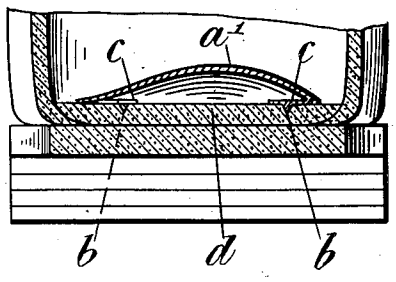


Fig. 5.



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ARCH-SUPPORT.

1,325,076. Specification of Letters Patent. Patented Dec. 16, 1919.

Application filed February 21, 1919. Serial No. 278,395.

To all whom it may concern:

Be it known that I, BRYDE CAMPBELL, a subject of the King of England, residing in the borough of Manhattan of the city of New York, in the State of New York, have invented certain new and useful Improvements in Arch-Supports, of which the following is a specification, reference being had to the accompanying drawing, forming a part hereof.

Many metal supports have been designed for the relief and correction of mechanical disturbances of the anterior portion or front or metatarsal arch of the human foot. Most of them are intended to occupy fixed and definite positions in the shoe. Some are formed for general use without regard to the peculiar conditions of the individual case. Others are formed by experts, each according to the requirements of the particular case and in consequence are expensive. It is the purpose of the present invention to provide a plate or support which can be placed in any desired position within the shoe so that it will meet the necessities of a particular case, and will remain during use in the place and position determined for it, being, however, readily shifted from one place or position to another as may be required. In accordance with the invention an arched metal plate, generally having one axis longer than the other, is provided with spurs which, under slight pressure, will be made to engage the sole of the shoe sufficiently to retain the support in position against accidental displacement, but will permit the plate to be shifted readily if necessary. The invention will be more fully explained hereinafter with reference to the accompanying drawing in which it is illustrated, and in which—

Figure 1 is a view showing three different sizes of supports constructed according to the invention.

Fig. 2 is an edge view of one of such supports.

Fig. 3 is a view in horizontal section of a shoe with one of the supports in place.

Fig. 4 is a detail view in section on the plane indicated by the broken line 4—4 of Fig. 3, looking in the direction of the arrows.

Fig. 5 is a view similar to Fig. 4 but showing a slightly different application of the support to the shoe.

The plate or support which embodies the invention may be of any suitable shape and plan and may have any desired degree or arrangement of arching. As marketed for general use it is substantially ovate in outline, as shown at a, a', a^2, in Fig. 1, is arched as shown in Fig. 2, and is generally supplied in sets comprising an assortment of different sizes for the right foot and an assortment of different sizes for the left foot, so that the chiropodist can select that one which will best suit the needs of the particular case to be treated. In Fig. 1 the plates or supports a, a' are indicated as prepared for the right foot and the plate or support a^2 is indicated as prepared for the left foot, the three plates being shown as of different sizes. Whatever be the size or shape of the support, it is provided on its underside with two or more spurs b which are adapted to engage the upper surface of the sole of the shoe and thereby prevent the support from slipping away from the position in which it is placed by the chiropodist, when the shoe is in use, but permitting the support to be lifted from the sole and changed in position if desired. Preferably, in order that the support may have a wider range of use, each spur b is formed on a lug c which, when the support is marketed, stands at a right angle with the plane of the support, but, being formed of a metal which is somewhat pliable, can be bent readily into position parallel with and slightly within the plane of the lower edge of the support, so that the spurs shall be directed downwardly. In Fig. 5 of the drawing the support a' is shown as applied directly to the sole d of the shoe, while in Fig. 4 it is shown as applied to the insole e, in which holes are punched, as at e', to receive the lugs c before they are bent, the lugs being afterward bent into horizontal position so as to present the spurs b downward, as shown in Fig. 4. For ordinary cases the support may be applied directly to the sole of the shoe, as shown in Fig, 5, but in some cases it may be desirable to apply it to an insole, as shown in Fig. 4, and in both uses the spurs engage di-

rectly the sole of the shoe and so prevent lateral movement of the support or of the support and insole, as the case may be.

I claim as my invention:

An arch support formed to support the foot and provided with lugs normally at right angles to the plane of the support but adapted to be bent into substantial parallelism therewith, each lug being provided with a spur adapted, when the lug is bent as set forth, to engage the sole of the shoe.

This specification signed this 19th day of Feb. A. D. 1919.

BRYDE CAMPBELL.