June 6, 1950 W. A. PEPIN 2,510,654

FOOT CORRECTION APPLIANCE

Filed Nov. 26, 1945

FIG. 1

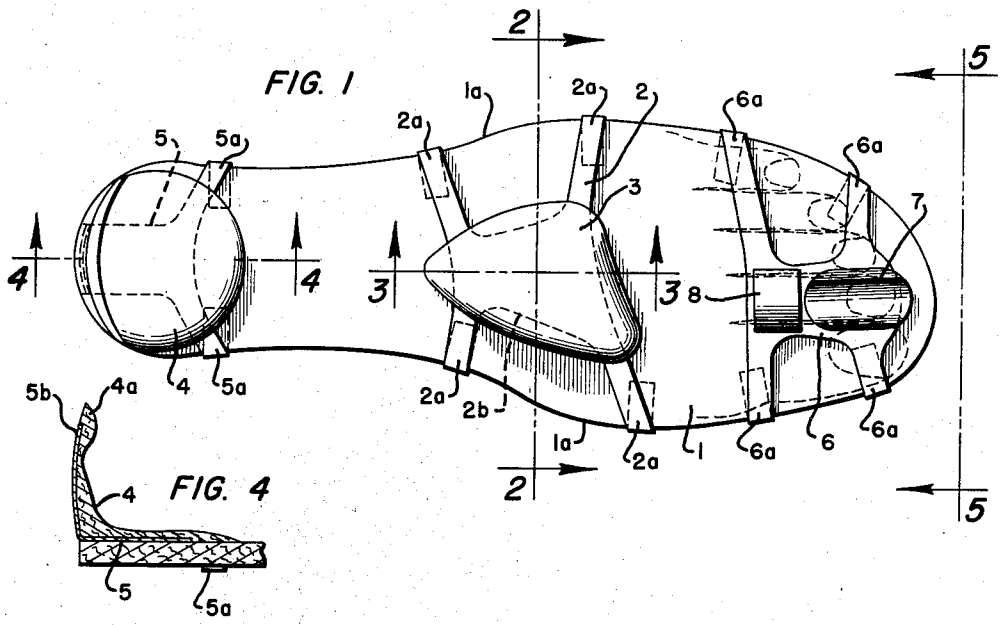


FIG. 4

FIG. 2

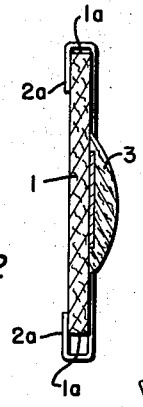
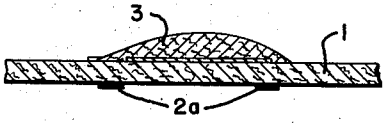


FIG. 3



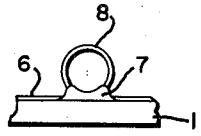


FIG. 5

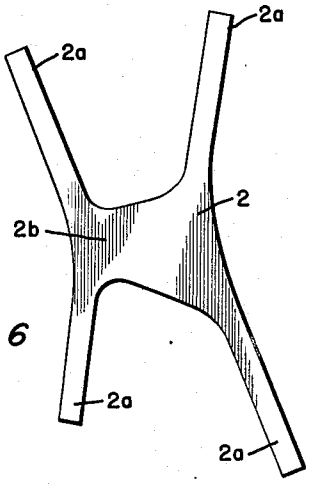


FIG. 6

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FOOT CORRECTION APPLIANCE

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2 Claims. (Cl. 36—8.5)

1

My invention relates to a foot correction appliance more particularly applied in the patient's shoes in connection with removeable insoles or the like and the objects of my invention are:

First, to provide an appliance of this class which is readily and easily connected to a common insole which may be positioned in the patient's shoes for corrective treatment;

Second, to provide an appliance of this class which is so arranged that the wearer may make his own adjustments to the particular location which will give the most comfort and protection as well as benefit to the ailing portion of the patient's foot being treated;

Third, to provide an appliance of this class having clip portions readily and easily clipped over the edges of the conventional insole providing very flexible means for adjusting and setting the corrective pad in any desired location about the feet of the patient;

Fourth, to provide an appliance of this class which supports corrective pads in various locations about the patient's feet for correcting the heel portion, the sides of the feet, and the toes as well as main sole portions of the feet;

Fifth, to provide an appliance of this class which relies upon the strength of the shoe sole for support and therefore does not require individual tensile strength within the appliance itself, preventing a sagging condition normally inherent in conventional appliances and various arch supports;

Sixth, to provide an appliance of this class which is very thin and neat and may be made of lighter material, promoting a greater foot freedom and comfort in the shoe;

Seventh, to provide an appliance of this class which may be made of a variety of materials of low tensile strength, promoting a selection of material that will be resistant to perspiration and fungus or the like;

Eighth, to provide an appliance of this class in which the weight of the patient thereon tends to hold the same securely in place;

Ninth, to provide an appliance of this class which is very versatile in its support of various corrective means for treating a variety of conditions; and

Tenth, to provide an appliance of this class which is very simple and economical of construction, efficient, durable and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination

2

and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims.

Reference being had to the accompanying drawings and to the characters of reference thereon and forming a part of this application in which:

Fig. 1 is a top or plan view of a substantially conventional shoe insole, showing a variety of my foot correction appliance in connection therewith and also showing by dash lines the outline of the person's toes relatively thereto; Fig. 2 is a transverse sectional view taken from line 2—2 of Fig. 1; Fig. 3 is a fragmentary longitudinal sectional view taken from the line 3—3 of Fig. 1; Fig. 4 is a fragmentary longitudinal sectional view taken from the line 4—4 of Fig. 1; Fig. 5 is a front elevational view taken from the line 5—5 of Fig. 1; and Fig. 6 is a top plan view of the clip member of my foot correction appliance.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawings.

The insole 1 is a substantially conventional insole arranged to be placed in a patient's shoes and may be made of a variety of materials as desired.

The clip member 2, as shown in Fig. 6 of the drawing, is made of thin sheet metal or other suitable material as desired and is provided with extending arm portions 2*a*, adapted to be folded over the outer edge portions 1*a* of the insole 1, as shown best in Fig. 2 of the drawings. The clip member 2 is provided with a base portion 2*b*, with which the arm portions 2*a* are integral and this base portion 2*b* is arranged to support various appliances in the form of pads, as shown in Fig. 3 of the drawings, which are connected thereto by adhesive material.

The pad 3, as shown in Figures 1, 2 and 3 of the drawings, is arranged to be located under the middle portion of the foot and is readily adjustable by changing the bend location of the folded portions of the arms 2*a* over the outer edge portions 1*a* of the insole 1. Thus the patient may make minute adjustments thereof as desired. As shown in Fig. 4, the pad 4 is secured on the clip member 5, which is provided with arm portions 5*a* folded over the outer edge portions 1*a* of the insole 1 and is also provided with an upwardly extending heel pad supporting portion 5*b* arranged to support the substantially vertical portion 4*a* of the pad 4, arranged to operate as a corrective medium for various disorders of the patient's heels. It will be here noted that the same arrangement as shown in Fig. 4 may be applied to the

sides of the feet in various locations for correcting other disorders at any locality about the side of the patient's feet.

The clip member 6, as shown in Fig. 1 of the drawings is provided with extending arm portions 6*a*, clipped over the edge portions 1*a* of the insole member 1 and this clip member 6 is positioned in the toe area of the insole 1 and supports the pad 7 thereon, which is arranged to cradle the forward end of what is commonly known as a hammer toe. The hammer toe is one which is bent downwardly at its extended end in which tendons are shortened tending to curl the toe downwardly. The pad 7 supports front end of the hammer toe while the resilient band 8 in connection with the clip member 6 tends to hold the middle portion of the toe downwardly for correctly straightening the same. This resilient band 8, as shown in Fig. 5 of the drawing, may be made of any resilient material as desired and may be fitted over the toe to be treated before the insole 1 is positioned in the shoe. The pad 7, as shown in Fig. 5 of the drawing, together with the resilient band 8, may be secured on the clip member 6 by means of any suitable adhesive or otherwise as desired.

The operation and installation of my foot correction appliance is substantially as follows:

First an examination of the patient's condition is first made, then a pad of proper form is prepared and the location thereof is determined whereupon the clip member is fitted to the insole, arranged to support the foot pad in the proper position relatively to the patient's foot. Thereafter the patient may adjust pad slightly by changing the folded portions of the arms 2*a* of the clip 2, as shown in Figures 2 and 3 of the drawings, which clip portions 2*a* are substantially the same as the clip portions 5*a* and 6*a* of the clip members 5 and 6, respectively, which merely represent a different form of the clip member for applying my foot correction appliance in a different location relatively to the patient's foot.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to the particular construction, combination and arrangement but desire to include in the scope of my invention a construction, combination and arrangement substantially as set forth in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a foot correction appliance of the class described the combination of, a thin flat clip member having a base portion and extending arm portions clipped over the outer edges of said insole member at the lower side thereof and a looped portion in connection with said clip member made of resilient material and arranged to fit over a toe and a pad portion on said clip member forwardly of said resilient loop member arranged to support the extending end of a patient's toes.

2. In a foot correction appliance of the class described the combination of, a clip member having a central base portion, provided with extending arm portions, an insole over the under side of which said extending arm portions are folded and a flexible loop member secured on said clip member arranged to engage a toe.

WILFRED A. PEPIN.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,139,220	Pond	May 11, 1915
1,325,076	Campbell	Dec. 16, 1919
1,349,095	Parisi	Aug. 10, 1920
2,283,446	Lenthall	May 19, 1942

FOREIGN PATENTS

Number	Country	Date
438,481	Great Britain	Nov. 18, 1935