Jan. 2, 1934. R. V. PARSONS 1,941,713

FOOT CORRECTIVE DEVICE

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Fig. 1.

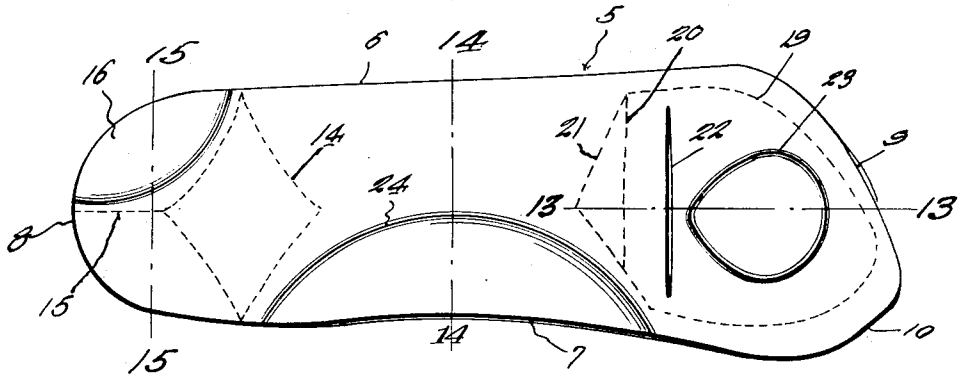


Fig. 2.

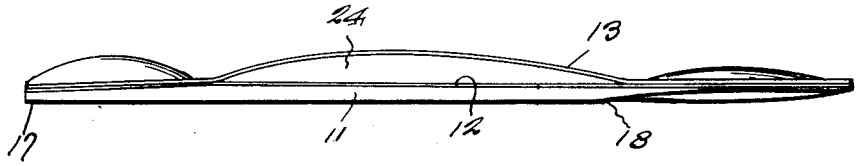


Fig. 3.

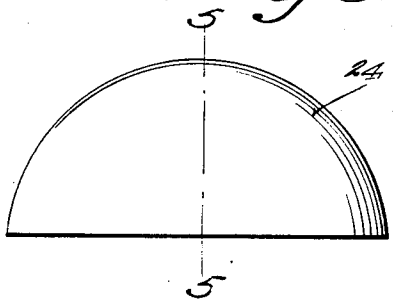


Fig. 4.

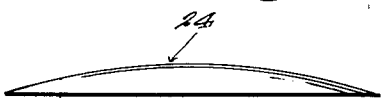


Fig. 5.



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Fig. 12.

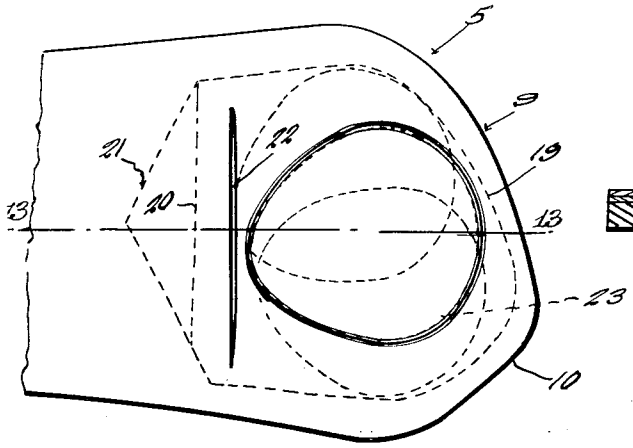


Fig. 14.

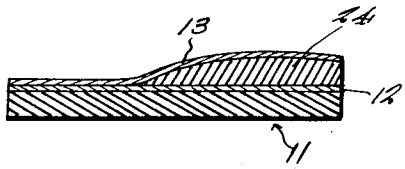


Fig. 15.

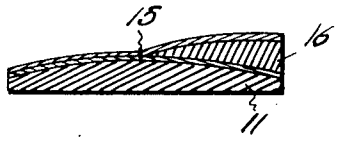


Fig. 13.

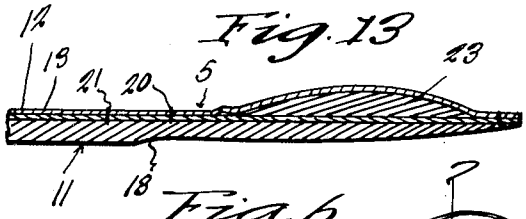


Fig. 6.

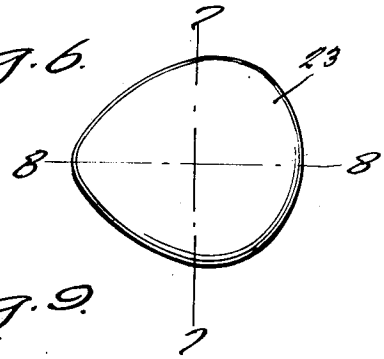


Fig. 7.



Fig. 8.



Fig. 9.

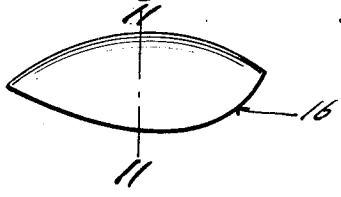


Fig. 11.



Fig. 10.



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Patented Jan. 2, 1934

1,941,713

UNITED STATES PATENT OFFICE

1,941,713

FOOT CORRECTIVE DEVICE

Robert V. Parsons, Johnstown, Pa.

Application January 23, 1932. Serial No. 588,380

5 Claims. (Cl. 36—71)

My invention relates to an improved foot correction device involving means in one unit for correcting the major foot troubles.

It is an important object of my invention to provide a device of this character employing a cushion, a pocket structure upon the top of the cushion, and cushion inserts disposable in a plurality of positions so as to be adapted to the particular location and area of the foot requiring correction measures.

It is also an important object of my invention to provide an improved contour, both vertical and horizontal, in a device of this kind whereby to improve the corrective characteristics and the comfort of wear thereof.

It is also an important object of my invention to provide a device of the character described above which has pockets to receive the inserts on the top of the device only.

It is also an important object of my invention to provide a novel positioning of the pockets for reception of the inserts, whereby to improve the comfortable and corrective qualities of devices of this character.

Other objects and advantages of my invention will be apparent from a reading of the following description of the drawings, in which:—

Figure 1 is a general top plan view of a corrective device constructed in accordance with the principles of my invention.

Figure 2 is an edge elevational view of Figure 1.

Figure 3 is a plan view of one of the inserts.

Figure 4 is an edge view thereof.

Figure 5 is a sectional view taken on the line 5—5 of Figure 3.

Figure 6 is a plan view of another type of insert adapted for positioning in connection with the ball or toe portion of the foot.

Figure 7 is a sectional view taken on the line 7—7 of Figure 6.

Figure 8 is a similar view on the line 8—8 of Figure 6.

Figure 9 is a plan view of one of the heel inserts.

Figure 10 is an edge elevational view of Figure 9.

Figure 11 is a cross sectional view of Figure 9 taken on the line 11—11 thereof.

Figure 12 is an enlarged plan view of the toe portion of the device of the invention showing in dotted lines possible variations in position of the insert shown in Figure 6.

Figure 13 is a longitudinal sectional view taken on the line 13—13 of Figure 12.

Figure 14 is a transverse section on the line 14—14 of Figure 1.

Figure 15 is a transverse sectional view on the line 15—15 of Figure 1.

In the drawings, wherein for purposes of illustrations I have shown a preferred embodiment of the invention, and wherein like numerals refer to like parts throughout the same, the numeral 5 refers generally to an embodiment of my invention designed for the left foot. It will be observed that the outside edge 6 is straight, that the inside edge 7 is but slightly curved, that the heel portion 8 is semi-circularly curved, but that the toe portion 9 has a peculiar contour not heretofore used. The contour of the toe portion is such that it reaches directly back of the toe-line, following at 10 the inturning contour of the foot.

The device consists of the sponge rubber or other suitable material pad 11 which contacts the sole of the shoe with which the device is worn. This pad is covered in a suitable manner upon its upper surface with a layer of suede or similar material which operates as an insulator 12. Upon the insulator layer 12 there is secured the soft leather or other suitable material top 13. The pockets of the device are formed by sewing at the heel portion a diamond-shaped stitching 14 which is transversely disposed, together with a linear stitching 15 which divides the heel portion transversely whereby to provide between the diamond and the heel extremity a pair of laterally opposed pockets in which the heel insert 16 is adapted to be selectively placed. It will be observed that the heel portion of the pad is tapered as indicated at 17 in order to give greater comfort and so as not to raise the heel to too great a height when the device is worn. It will also be observed that the toe portion is tapered beginning at the point indicated by the numeral 18.

The toe portion and that portion of the device which is constructed to engage the ball of the foot is provided with a stitching 19 which follows generally the contour of the toe portion. Across the rearward extremities of the stitching 19 there is a straight line of stitching 20 which is arranged transversely of the device, and a triangular stitching 21 extends rearwardly of the line 20. A slot or slit 22 is arranged so as to permit entry of the pear-shaped insert 23 which, as shown in Figure 12 is adapted to be shifted and placed at different positions laterally in the toe portion and may be shifted somewhat forwardly and rearwardly to accommodate the positions re-

quired for correction of the condition of the foot of the wearer. This takes care of in a manner not heretofore provided for the front arch pressures.

The numeral 24, in Figure 1, represents the position of an arch insert. The construction is such, due to the position of the diamond stitching 14 and the triangular stitching 21, that a large pocket, permitting of forward and rearward adjustment, and the reception of different sizes of arch inserts is arranged, lateral adjustment also being possible within a limited degree. This provides an important improvement in devices of this kind, as the arrangement permits the taking care of short and long arches, and different conditions requiring different pressures.

The leaf plan of the heel insert 16 is well illustrated in Figure 9 as is the edge view thereof in Figure 10 and the section in Figure 11. These inserts are adapted to be positioned as indicated in Figures 1 and 2. It will be observed that these inserts as well as the toe insert and the arch insert are tapered more toward one end than toward the other, so as to give the proper contour to the device as required by the foot formation to be corrected, and the amount of support desired.

It will be observed that the wearer may use an extra insert for a long arch or may use an extra insert or any insert on the other side from the usual point of use of the arch support so as to correct any conditions requiring treatment at that point of the foot. This is provided through the formation of the pockets on the outside edge of the device corresponding to the pockets at the inside edge of the device through the provision of the stitching already described.

I consider an important feature of my invention the provision of all of the pockets upon the top side of the device. Another important feature is the provision of and the disposition of a method of providing the pockets with the interchangeable inserts in an arrangement whereby the inserts may be adjusted to different positions and in different relationships, whereby to treat in a single unit the more common foot ailments, thereby eliminating a plurality of devices which is usually necessary in treating simultaneously in the manner of the invention a plurality of points of the foot requiring corrective measures.

While I have shown and described a preferred embodiment of the invention, changes in shape, size and materials may be made without departure from the spirit of the invention or the scope of the subjoined claims.

What is claimed is:—

1. A foot corrective appliance, comprising a resilient pad to engage the foot from the heel to a point near the toe-line, an insulating covering coextensive with the upper side of the pad, a foot contacting sheet upon and coextensive with the covering, linear securing means for the sheet arranged to form pockets for reception of resilient inserts between the covering and the sheet, said linear securing means comprising a diamond shaped stitching inward of the heel portion through the covering and foot contacting sheet, a longitudinal stitching which with the diamond stitching divides the heel portion into a pair of pockets, and a triangular stitching forwardly spaced from the diamond shaped stitching and defining therebetween a longitudinal arch supporting insert pocket on opposite sides of the appliance.

2. A foot corrective appliance comprising a resilient pad of a length to extend from the toe line of the foot to the end of the heel, an insulating sheet upon and coextensive with the pad, a pocket forming sheet upon the insulating sheet for directly engaging the foot, a diamond sewing near the heel portion and through and connecting both of the sheets, a linear rearward extension from the diamond sewing defining with the diamond sewing a pair of opposite side heel pockets, a conforming marginal sewing extending around the forepart of the sheets, a transverse line of sewing joining the rear terminations of the marginal sewing and forming a closed pocket, other lines of sewing inwardly of and angularly related to the transverse line and forming a triangle, means in the pocket forming sheet within the marginal sewing to enable entering an insert in the closed pocket, and pockets for longitudinal arch supports, one on each side of the appliance, defined by and between two sides of the triangle and two sides of the diamond sewing.

3. A foot corrective device comprising a resilient pad designed to be used within a shoe to extend from the heel of the shoe to a point under the forepart of the foot, a coextensive sheet of insulating character secured on the top of the pad, a foot engaging sheet on top of the insulating sheet, lines of sewing connecting the insulating and foot engaging sheets and forming pockets for longitudinal arch supports on opposite sides of the device, pockets for heel levelling supports in opposite sides of the heel portion, and a pocket for a metatarsal support on the forepart of the device.

4. A foot corrective device comprising a resilient pad designed to be used within a shoe to extend from the heel of the shoe to a point under the forepart of the foot, a coextensive sheet of insulating character secured on the top of the pad, a foot engaging sheet on top of the insulating sheet, heel, longitudinal, and metatarsal supports between said sheets, lines of sewing connecting the insulating and foot engaging sheets and forming pockets for the longitudinal arch supports on opposite sides of the device, pockets for heel levelling supports in opposite sides of the heel portion, and a pocket for a metatarsal support on the forepart of the device, said lines of sewing comprising a diamond form near the heel portion having a rearward extension dividing the heel portion and defining the heel levelling pockets, a curved line extending around the forepart near the edges thereof having its rearward ends joined by a transverse line, and rearwardly converging and meeting lines extending from the ends of the transverse line and forming with the transverse line a triangle pointed rearwardly and aligned with two forwardly converging and meeting lines of the diamond form whose meeting point is spaced from the meeting point of the rearwardly converging lines of the triangle at a distance which is less than the length of the longitudinal arch supports whereby the sides of the triangle and diamond form opposite side pockets for the longitudinal arch supports inserted between the insulating sheet and the foot engaging sheet on either side of the device which will hold them against moving out of position either inwardly or longitudinally of the device.

5. A foot corrective device comprising a resilient pad, a coextensive insulating sheet secured on the pad, a second sheet secured upon the insulating sheet, pocket forming means securing the second sheet to the first sheet, said pocket

forming means comprising a marginal line of sewing around the forepart of the device having its rear ends connected by a transverse line of stitching whereby a closed metatarsal support pocket is formed, a diamond form stitching near the heel portion of the device and having a rearward extension dividing the heel portion and forming heel levelling support pockets on opposite sides of the heel portion, and a portion extending from the transverse line toward a forwardly extending portion of the diamond form and spaced therefrom at a distance shorter than the length of longitudinal arch supports whereby to define pockets for longitudinal arch supports on opposite sides of the device.

ROBERT V. PARSONS.