July 5, 1949. J. WYSOWSKI 2,475,417

METATARSAL PAD

Filed Jan. 23, 1947

Fig. 1.

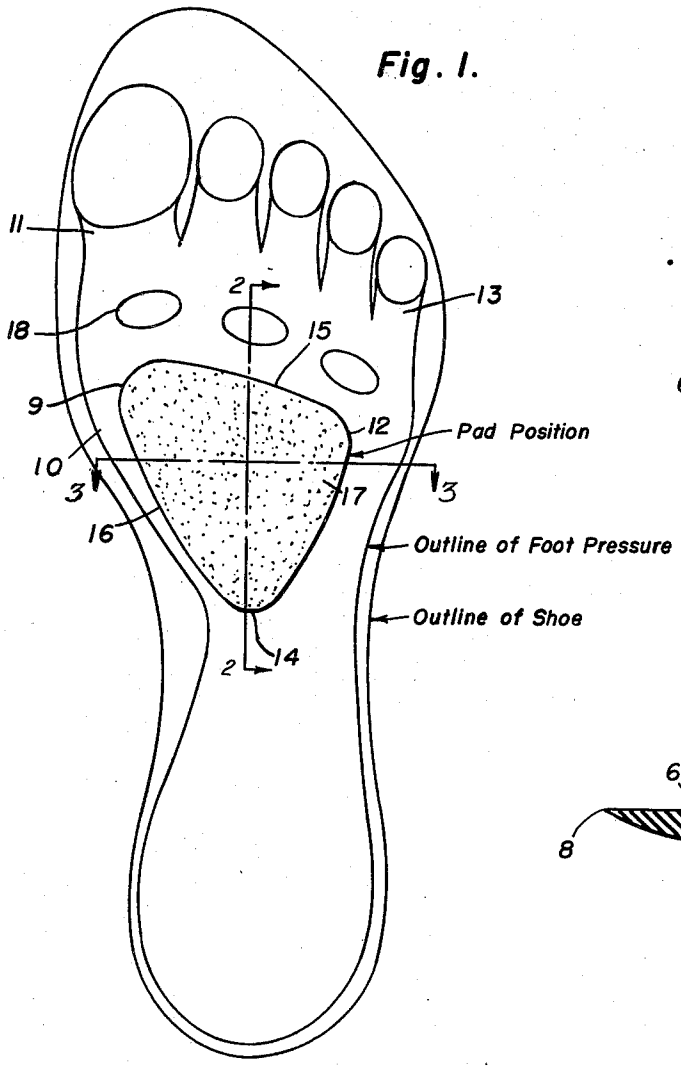


Fig. 2.

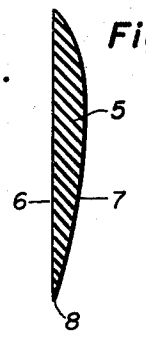


Fig. 3.

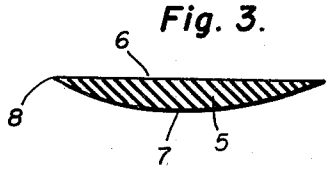
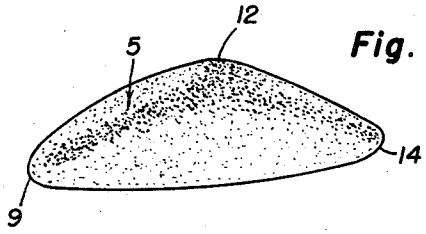


Fig. 4.



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METATARSAL PAD

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Application January 23, 1947, Serial No. 723,841

1 Claim. (Cl. 128—80)

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The present invention relates to new and useful improvements in metatarsal pads and more particularly to a pad constructed to support the metatarsal heads entirely across the foot.

In pads of this character commonly used, the same are designed to support only a few of the metatarsal bones, usually covering only the three center bones and leaving the two outside bones unsupported. Accordingly, it is an object of the present invention to provide a pad of this character which supports all five metatarsal bones to prevent them from falling.

A further object of this invention is to provide a pad of this character which may be placed as a separate element in a shoe, or which may be constructed as a part of an arch support.

A still further object is to provide an article of this character of simple and practical construction, which is efficient and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a bottom plan view showing the pad in position under a foot;

Figures 2 and 3 are sectional views taken respectively on the lines 2—2 and 3—3 of Figure 1, and

Figure 4 is a perspective view of the pad.

Referring now to the drawing in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates the pad generally which is constructed of sponge rubber or other suitable material and including a flat base 6 and convexed upper surface 7, the upper surface merging with the base in a feather edge shown at 8 which extends entirely around the marginal edges of the pad.

The pad is of a substantially three corner construction to provide an inner corner 9 positioned at the inner edge of a foot 10 under the metatarsal bone of the large toe 11, an outer corner 12 which is positioned at the outer side of the foot under the metatarsal bone of the outside or little toe 13 and an inner corner 14 positioned substantially at the center of the foot in the region of the front portion of the arch thereof as shown in Figure 1 of the drawing.

The front edge of the pad shown at 15 is curved to conform to the curvature of the metatarsal bones of the several toes and extends transversely of the foot in the region of the forward portion of the ball thereof to relieve pressure on callouses 16 at the front portion of the foot. The edge of the pad at the inside of the foot is slightly curved

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from the corner of the pad 9 to the corner 14 toward the inner edge of the foot as shown at 16 and the edge of the pad at the outer edge of the foot between the corners 12 and 14 is straight as shown at 17.

From the foregoing it will be apparent that the pad is constructed to extend entirely under the five metatarsal bones of the foot and with the front edge of the pad extending substantially entirely across the bottom of the foot as shown in Figure 1 of the drawing, to thus provide a support for all of the metatarsal bones of the foot.

The pad further helps to relieve the pressure from callouses which appear on the ball of the foot immediately behind the metatarsal bones.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

What I claim is:

A metatarsal pad comprising a resilient body having a flat bottom and a convexed top, said body embodying a three cornered construction and including an inner front corner, an outer front corner and a rear corner, the inner front corner adapted to be positioned under the metatarsal bone of the great toe, while the outer front corner is adapted to be positioned under the metatarsal bone of the little toe and the edge of the pad between the front corners being curved to extend under all of the intervening metatarsal bones of a foot a substantially uniform distance rearwardly of the toes and in the region of the front portion of the ball of the foot, and the edges of the pad between the front corners and the rear corner converging and terminating at a point immediately rearwardly of the ball of the foot in the region of the front portion of the arch, all of said edges being feathered.

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REFERENCES CITED

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

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