

Dec. 15, 1925.

1,565,266

J. C. FLANAGAN

ARCH CORRECTIVE DEVICE

Filed Dec. 27, 1923

Fig. 1.

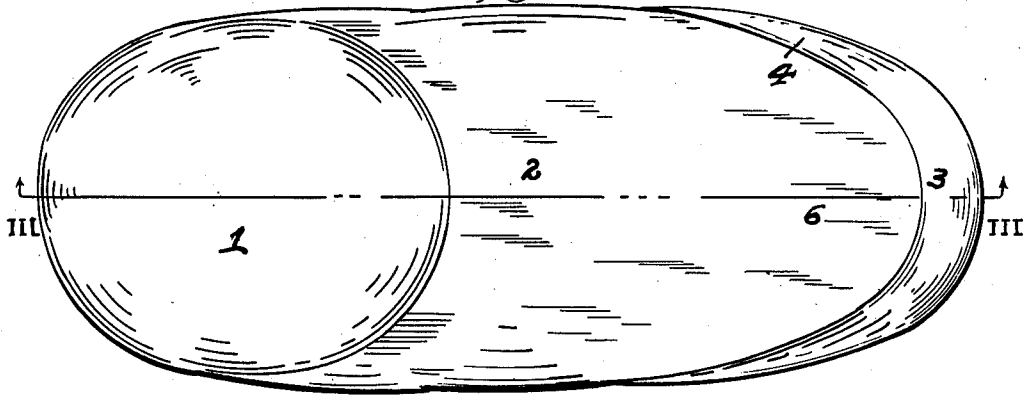


Fig. 2.

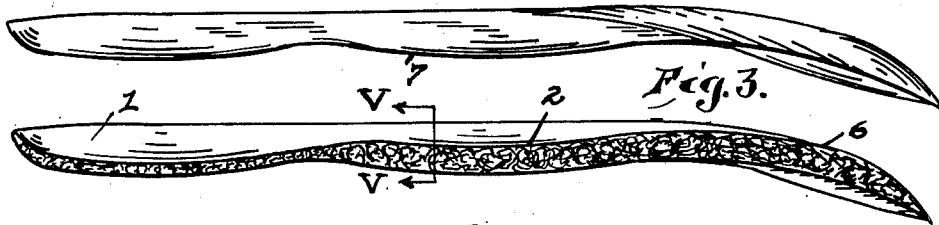


Fig. 3.

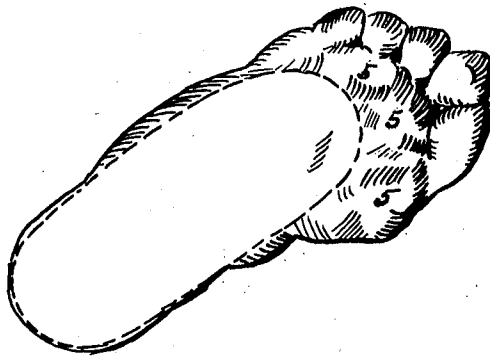
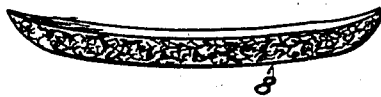


Fig. 4.

Fig. 5.



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ARCH-CORRECTIVE DEVICE.

Application filed December 27, 1923. Serial No. 652,963.

To all whom it may concern:

Be it known that I, JOSEPH C. FLANAGAN, a citizen of the United States of America, and residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Arch-Corrective Devices, of which the following is a specification.

My invention relates to arch-corrective devices for feet and particularly to such a form of cushion as can be inserted in any shoe to fit the natural contour of the bottom of the foot.

The object of my invention is to provide a cheap and efficient form of arch-corrective device of a resilient material which will properly distribute the weight of the body from the heel to the toes by fitting the natural contour of the bottom of the foot.

A further object of my invention is to provide a cushion which will fit and support all the natural arches of the foot and will prevent the foot from sliding forward in the shoe and the consequent jamming of the toes in the end of the shoe.

A still further object of my invention is to provide a cushion for supporting the arches which will prevent strangulation of the blood vessels and arteries of the foot so as to allow free circulation of the blood therein giving the natural warmth to the feet.

My invention consists, generally stated, in the novel arrangement and construction as hereinafter more specifically described and set forth and particularly pointed out in the appended claim.

To enable others skilled in the art to which my invention appertains to manufacture and use my improved comfort cushion, I will describe the same more fully, referring to the accompanying drawing, in which:

Fig. 1 is a top plan view of my improved arch-corrective device.

Fig. 2 is a side view thereof.

Fig. 3 is a longitudinal sectional view taken on the line III—III of Fig. 1.

Fig. 4 is a bottom view of a foot showing the manner in which the arch-corrective device supports the transverse and longitudinal arches.

Fig. 5 is a cross sectional view on the line V—V of Fig. 3.

Like symbols of reference herein indicate

like parts in each of the figures of the drawing.

As illustrated in the drawing my improved arch-corrective device is formed of resilient material such as flexible rubber and is adapted to distribute the weight of the body by means of its shape and adaptability to conform to the natural contour of the bottom of the foot. In early days when the heel-less saddle was worn, the weight of the body was evenly distributed from the heel to the toe. In modern times, with the use of the ornamental heel which elevates the body in the rear, the weight is thrown to the front of the foot, thereby straining all the arches. This is particularly true on account of the weakening process of lack of exercise coupled with the hard unyielding material which we now stand or tread upon, thereby causing the formation of callouses under the ball of the foot or under the transverse arches and aching or painful longitudinal arches in which place the strain is the greatest.

My improved arch-corrective device is designed to overcome these troubles by providing a means for supporting both the longitudinal and transverse arches and relieving the metatarsal bones from the entire support of the weight of the body.

The device is provided with a counter-sunk heel seat 1 to conform to the shape of the heel of the foot, while immediately beyond said seat the device rises in the center to form the longitudinal arch support 2. Beyond the supporting portion 2 the device gradually tapers in the front 3 and sides 4 so as to fit immediately back of the metatarsal joints 5 and support the transverse arch at 6.

The device is gradually sloped as at 7 to conform to the heights of various shanks. The rounded front of the device prevents the filling up of the space under the blucher, button or bal seam and this permits the 1st and 5th metatarsal joints to rest on the bottom of the shoe to prevent pressure of the foot against said blucher, button or bal seams.

The device is slightly concave transversely as shown in Fig. 5 to fit the natural curves of the foot and is curved on the bottom 8 to fit the inside of the shoe.

This device automatically fits all the arches of the foot, and is self adjusted when

the heel is properly fitted into the seat 1 and the foot is thereby prevented from moving forward in the shoe and thus jamming the foot toward the front of the shoe.

5 My improved device is designed to eliminate the longitudinal arch trouble caused by the high heel which pitches the weight of the body onto the ball and toes of the foot thereby straining the arches and particularly the longitudinal arch. The shank 10 from a point at the heel to a point at the ball of the shoe, and readily gives way under the weight of the body, causing 15 longitudinal arch trouble. By the use of my improved device worn inside the shoe, with its countersunk heel-seat and graduated raise on top of the shank, and under the longitudinal arch, and back of all the 20 metatarsal bones, one has, instead of the weight being pitched forward a slanting from heel to toe, a more level tread, as in the heel-less sandle, and a more even distribution of the weight of the body.

25 My improved device is so designed as to be interchangeable and will fit either the left or right foot so that by reason of its adaptability to conform to the contour of

the foot and shoe, right and left molds will not be necessary. 30

My improved device may be covered with sheepskin, leather or other soft and pliable material, and various modification and changes, within the scope of the appended claim, may be resorted to without departing from the spirit of the invention or 35 sacrificing any of its advantages.

What I claim as my invention and desire to secure by Letters Patent is:

A removable arch-corrective device for 40 foot wear formed of readily yieldable and resilient material and composed of a concaved heel seat, in front of said heel seat an elevated portion to be positioned under the longitudinal arch of the foot and of 45 substantially uniform thickness for its full width and length, and in front of said elevated portion a forwardly and laterally inclined portion arranged to be positioned 50 just in the rear of the metatarsal joints of the foot, while said joints rest on the floor of the shoe.

In witness whereof, I, the said JOSEPH C. FLANAGAN have hereunto set my hand.

JOSEPH C. FLANAGAN.