I. CUSTAR.

FOOT ARCH SUPPORTING SADDLE.

APPLICATION FILED SEPT. 18, 1911.

1,140,879. Patented May 25, 1915.

Fig. 1.

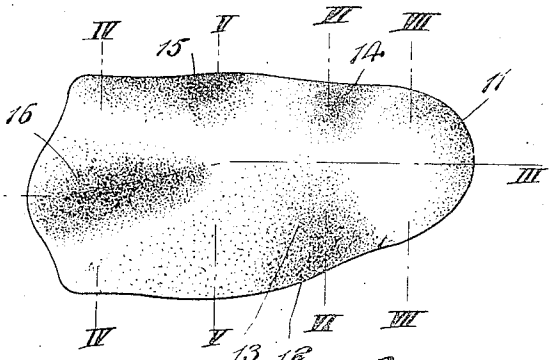


Fig. 2.

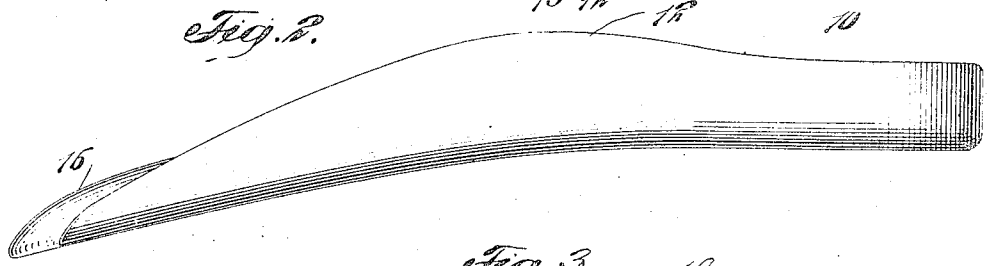


Fig. 3.

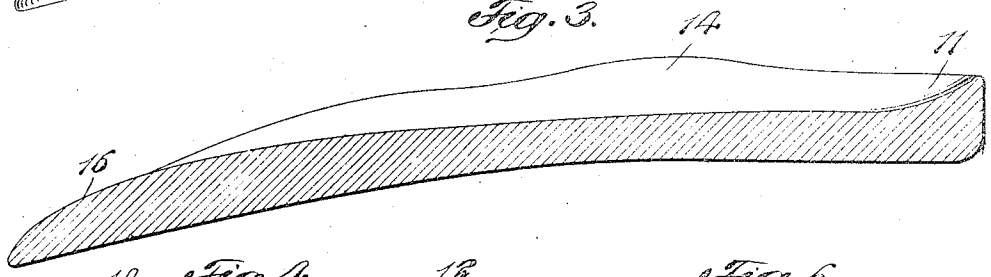


Fig. 4.

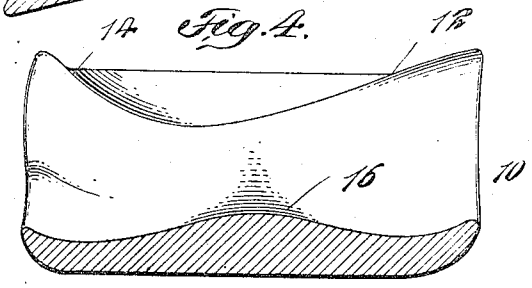


Fig. 6.

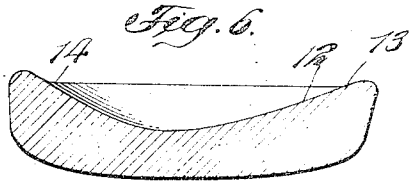


Fig. 7.

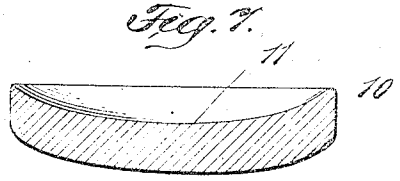
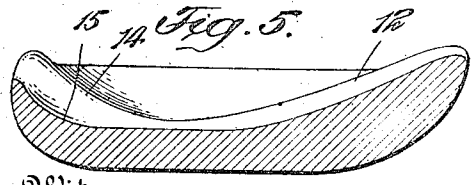


Fig. 5.



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IGNATIUS CUSTAR, OF NEW YORK, N. Y.

FOOT-ARCH-SUPPORTING SADDLE.

1,140,879. Specification of Letters Patent. Patented May 25, 1915.

Application filed September 18, 1911. Serial No. 649,681.

To all whom it may concern:

Be it known that I, IGNATIUS CUSTAR, a subject of the King of Hungary, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Foot-Arch-Supporting Saddles, of which the following is a full, clear, and exact description.

This invention relates more particularly to a foot arch supporting saddle adapted for maintaining the proper balance of the body and which may be placed in shoes already made as an independent device.

The primary object of the invention is to provide a device which may be readily placed in a shoe or similar article and which is so constructed that it will prevent sinking of the arch of the foot, and at the same time serve to force the arch of the foot which may be already sunken to its normal position and to keep the arch in such position.

Other objects of the invention are to provide a device which will prevent weak ankles from bending over on the side and keep them in a solid position; to provide simple means which will give the foot normal support and thus secure firmness; and to provide means which will prevent the development of calli and the like.

A further object of the invention is to prevent bow-legs from overbending and twisting, and to provide a device which brings and holds the body in normal balance.

Still further objects of the invention are to provide a device which will make walking much more easy and agreeable and which not only prevents all disagreeableness caused through walking or general use of the feet, but which will entirely remedy the same; and to provide a saddle which is light which is made of a substance the temperature of which is nearest to that of the body, and which can be worn in any of the usual forms of ready made shoes.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a plan view on a reduced scale of one form of device embodying my invention. Fig. 2 is a side elevation. Fig. 3 is a longitudinal section taken on the line III—III of Fig. 1. Fig. 4 is a transverse section taken on the line IV—IV of Fig. 1 looking toward the heel portion of the device. Fig. 5 is a transverse section taken on the line V—V of Fig. 1. Fig. 6 is a transverse section taken on the line VI—VI of Fig. 1; and Fig. 7 is a transverse section taken on the line VII—VII of Fig. 1.

The device may be made of any suitable material but it is preferably made of wood so that the same is light in weight and of the proper normal temperature, and said device conforms generally in its marginal shape to that of the ordinary shoe or the foot of the person in connection with which the device is to be used. The device 10 has a hollow portion 11 for the heel bone to set in, and said hollow portion serves to spread the pressure naturally present on the heel bone. This device has an elevated part 12 which curves gradually from the heel portion or part 11 to the toe portion or part 16 so as to be substantially higher at 13 than at any other portion of the part 12 thereof, and said part 12 extends from the part 11 for the heel bone to a point approximately adjacent to where the metatarsus head would be located. A raised part or transverse ridge 14 is located opposite the part 12, and like the part 12 is higher at the outer edge than at the inner part or substantially midway of said device. This part 14 is somewhat smaller than part 12 and this outside support or part 14 supports the fleshy part of the foot between the os calcis and the fifth metatarsus base. This part 14 holds the foot in a normal and solid position and also keeps the foot from sliding off the inside raised support or part 12, thereby preventing the leg from overbending and twisting. A relatively small depressed or hollow portion 15 is located in advance of and adjacent to the part 14. This part is intended to permit the fifth metatarsus base to rest therein and thereby prevents unnecessary and pain producing pressure on said base.

At the forward part of the device is a substantially pear shaped portion 16 which is located at the toe portion of the device and extends rearward to a point adjacent to the side supporting part 12. This part 16 supports the five metatarsus bones thereby equally distributing the pressure of the weight of the body of the foot and also

prevents pressure on the metatarsus heads which serves to prevent the development of calli and the like on this part of the foot.

It will be noticed that the saddle or arch reaches somewhat up the back part of the heel, while the front end reaches close to the five metatarsus heads. This has the advantage of equally distributing the pressure of the weight of the body upon the foot and an objectionable pressure is prevented on the five metatarsus heads, and it will be further noticed that the elevation at the back part of the saddle or arch is higher than at the front part. This latter feature serves to balance the body, or assist the same in assuming a straight position.

While the device is shown as of a particular construction, it will be understood that the general shape of the parts may be changed to adapt the device to be shaped to the foot of the wearer according to the requirements and that some of the parts might be dispensed with in some cases if it is found necessary or desirable to do so. It will be further understood that the device may be made for use in connection with either the right or the left foot.

From the foregoing it will be seen that a simple and efficient device is provided which will be light and of the proper normal temperature for the wearer; that said device will relieve the foot of pressure at different parts thereof so that the user will secure much greater comfort than if not employing a device of this kind in the shoe; and that said device serves to maintain the proper balance of the body and assists in retaining the arch of the foot in proper position and thereby prevents all disagreeableness caused through walking or general use of the foot to be effectually remedied.

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

1. A device of the character described, having a rigid body portion and provided with an elevated heel portion having a depressed part for the heel bone, a substantially pear-shaped supporting part intermediate the marginal sides of said body portion and located at the front thereof, two side supports comprising transverse ridges of relatively different sizes interposed between the pear-shaped part and the heel portion, said supports being highest at the side edges of the device, and a depressed portion located adjacent to one of the side supports at one side of the device.

2. A device of the character described having its body portion provided with an elevated heel portion having a depressed part for the heel bone, a substantially pear-shaped supporting part intermediate the side edges of said body portion and located at the front end thereof, side supporting means comprising transverse ridges of different sizes arranged between the pear-shaped part and heel portion, and a depressed portion in front of the lower end of said side supporting ridges.

3. A device of the character described having its body portion provided with an elevated heel portion having a depressed part for the heel bone, a substantially pear-shaped supporting part intermediate the side edges of said body portion and located at the front end thereof, side supporting means comprising transverse ridges of different sizes arranged between the pear-shaped part and heel portion, and a depressed portion in front of the lower end of said side supporting ridges, said body being curved gradually along its median line in a forward and downward direction and the top of said pear-shaped part being lower than any point along said median line in rear thereof.

This specification signed and witnessed this 14th day of September, A. D. 1911.

IGNATIUS CUSTAR.

Witnesses:
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C. BARTELS.