

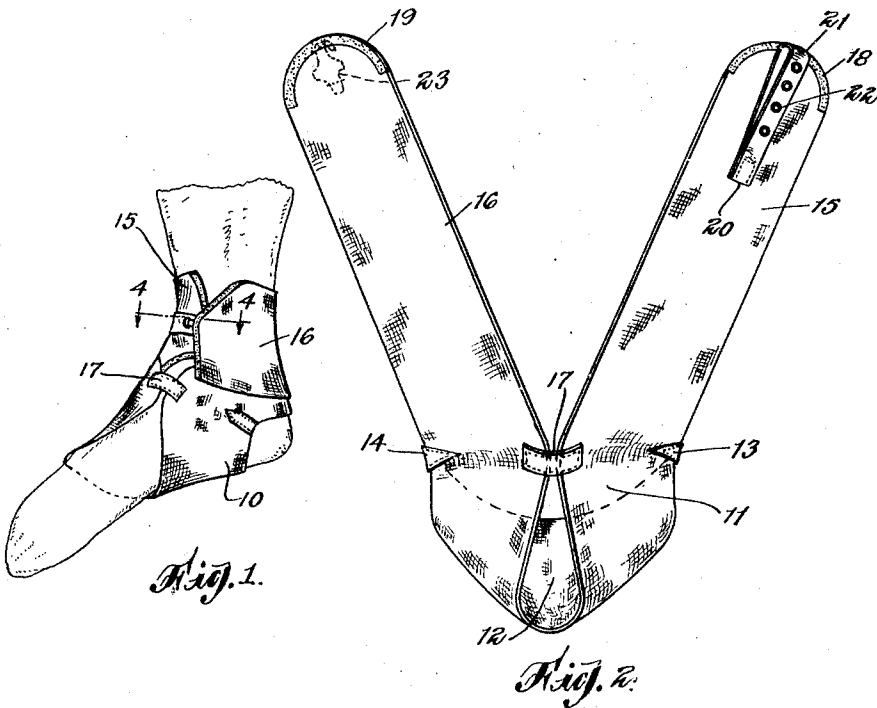
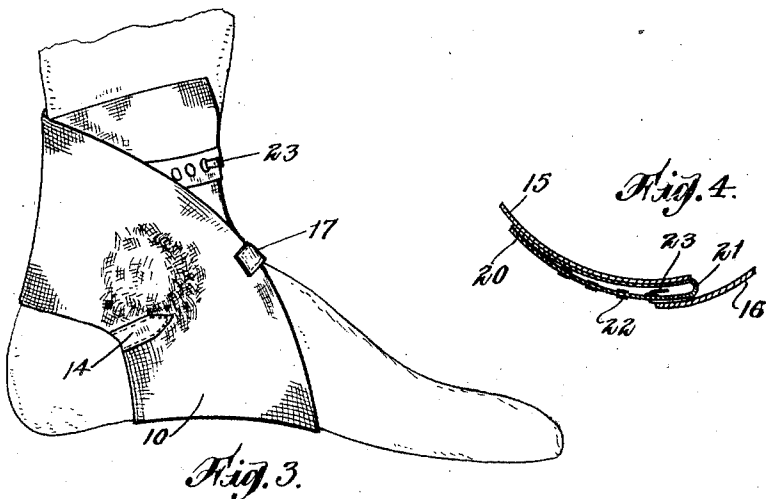
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J. COHN

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ARCH AND ANKLE SUPPORTER

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UNITED STATES PATENT OFFICE.

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ARCH AND ANKLE SUPPORTER.

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This invention relates to a novel and improved arch and ankle supporter, and it is the principal object of my invention to provide an arch and ankle supporter adapted to snugly fit the foot and hold up the arch without discomfort to the wearer.

Another object of my invention is the provision of an arch and ankle supporting member which I call "Fitsrite" and which is made of an elastic material which will adapt itself to the size of foot and ankle within certain limits, thus allowing the marketing of the device in three sizes only, a small one for children, a medium, and a large size instead of requiring its sale by special numbers as heretofore.

My improved arch and ankle support will moreover help to massage the ankle and thus reduce the same and when stretched, will become porous and permit free perspiration.

A further object of my invention is the provision of an arch and ankle supporter adapted, as it is drawn around arch and ankle, to be properly adjusted by means of a hook or snap fastening means engaging a series of fastener openings or sockets, and protected against touching the skin of the wearer or to be pressed into the flesh while it is worn under a shoe or with half shoes, and which will not impede the use of stockings or shoes.

A still further object of my invention is the provision of an arch and ankle support leaving the foot exposed and open, so that instep may rise normally when the arch is raised by drawing the webbing tighter, and irritation of the foot is positively avoided.

It is furthermore one of the objects of my invention to provide an arch and ankle support having a minimum of comparatively smooth seams, and particularly no seam underneath the foot apt to irritate the sole, and which furthermore is made of a washable fabric, thus being at all times presentable when worn while walking, dancing, or during the performance of athletic exercises etc.

My improved arch and ankle support moreover allows a separate adjustment for the support of arch and ankle increasing the amount of elasticity and causing a more even pressure to be exerted.

Furthermore the ankle supporter may be worn on a swollen ankle and when the ankle is reduced the supporter may be tightened to fit properly at all times.

The supporter may be washed any number

of times without fear of deterioration for this 3 inch webbing is made of 50 strands of pure Pará rubber.

Moreover the supporter is so constructed as to conform with the shape of either the right or left foot.

The purpose of this band is to eliminate the question of sizes so far as the dealer and consumer is concerned. In the handling of this band the dealer eliminates the stocking of seldom called for sizes and at the same time is better prepared to care for the requirements of his customers, regardless of the size of their feet.

A further purpose of this band is to eliminate at all times the question as to whether one is perfectly fitted or not for it may be adjusted to fit properly at all times any size foot.

These and other objects and advantages of my invention will become more fully known as the description thereof proceeds, and will then be more specifically defined in the appended claims.

In the accompanying drawing, forming a material part of this disclosure:

Fig. 1 is a perspective view showing my arch and ankle supporter, as it appears in position on foot and ankle.

Fig. 2 is a front elevation of the arch and ankle supporter constructed according to my invention before its application to a foot.

Fig. 3 is a side elevation of the arch and ankle supporter in position on a foot.

Fig. 4 is a section on line 4—4 of Figure 1.

As illustrated, my improved and novel arch and ankle supporter comprises an elastic band or web 10 formed in approximately its center into a member 11 having substantially the shape of a loop member or cuff with a front opening 12 for the passage of the toe part of the foot.

Small, smooth, and light tapes 13, 14 are provided to strengthen the outer edges of the elastic band at the point where their inner edges are connected by a tape 17 to form the cuff or loop member 11 with the toe opening 12 and from which the shanks 15, 16 diverge, or at points where the supporter is subjected to the greatest stress when in use as arch and ankle supporter with the toes passed through the toe opening 12. The outer ends of shanks 15, 16 are equipped with smooth strengthening seams 18, 19. The shank 15 has secured thereto at its lower end, as at 20, a loop member 21, the upper face of which has a plu-

ality of openings or sockets 22 formed therein adapted to be engaged by a hook or snap button 23 provided on the opposite face of shank 16.

5 From the foregoing description when taken in connection with the accompanying drawing, the operation and application of my arch and ankle supporter will be entirely clear, and it will be evident that if the tie part of the
10 foot is passed from the rear through opening 12, and the shanks 15, 16 are folded about the ankle as shown, the snap or other fastener can then be closed in the well known manner to accommodate the device to the size of foot
15 and to raise the arch to a desired degree.

It is to be understood that I have disclosed as one example of the many ways in which my device may be practically constructed, the preferred form thereof, and that I may make
20 such changes as come within the scope of the appended claims without deviation from my invention or from the principle involved.

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

1. An arch and ankle supporter comprising a single strip of elastic webbing, a loop or cuff formed intermediate the ends of said webbing for allowing the passage of the toe part
30 of a foot and for supporting the arch and allowing the drawing of the supporter over the instep of a foot, the shanks of said web adapted to snugly engage the ankle from opposite sides, means for connecting said shanks over
35 the instep of the foot, a means for adjustably uniting the ends of said shanks over the ankle, and a means for preventing said uniting means from entering the flesh of the wearer.

2. An arch and ankle supporter comprising
40 a web, a loop or cuff formed with said web snugly fitting the foot and supporting the arch, shanks formed with said web adapted to snugly engage the ankle from opposite sides, a smooth band connecting both shanks over
45 the instep, a fastening loop having a plurality of holes therein attached to one of said shanks and having its body separated from said shank, and a means on the other shank adapted to engage the holes in said loop for allow-
50 ing an adjustment of the support to the size of the foot, said loop protecting the flesh of the foot against engagement and irritation by contact with said means engaging the holes in said loop.

3. An arch and ankle supporter comprising
55 a strip of elastic webbing, a seamless cuff formed intermediate the ends thereof for supporting the arch and allowing the passage of instep and toe part of the foot, leaving the same open to avoid irritation, a pair of shanks
60 formed with said webbing adapted to snugly engage and fit around the ankle, a loop secured at one of its ends to one of said shanks and having a plurality of perforations therein, the other end of said loop spaced from

said shank, a means on the other of said shanks adapted to engage in any of the perforations of said loop to allow an adjustment of the supporter to the correct size of the foot, protected against irritation by said perfora-
70 tion engaging means.

4. An arch and ankle support comprising an elastic webbing, an arch supporting cuff formed with said webbing intermediate the ends thereof, to support the arch, a pair of
75 shanks integral with said webbing, a smooth tape connecting the inner edges of said shanks over the instep tapes at the outer ends of said shanks, smooth strengthening means intermediate the ends of said shanks, a loop se-
80 cured at one of its ends to one of said shanks on one side thereof and provided with a plurality of sockets, and a snap-button on the other side of the other of said shanks adapted to engage any of said sockets for allow-
85 ing an adjustment of the attachment of said supporter on a foot, the other end of said loop being spaced from its shank to protect the foot against irritation by said snap-button.

5. An improved arch and ankle support
90 comprising a single strip of elastic webbing yieldable transversely of the ankle only, a seamless arch supporting cuff formed with said webbing intermediate its ends, the ends of said webbing adapted to be folded snugly and
95 smoothly about the ankle from opposite sides and permanently united over the instep, transversely thereto, a means for adjustably connecting the ends of said webbing over the ankle, and a means for protecting the an-
100 kle against irritation by said connecting means.

6. An arch and ankle supporter of the class described comprising a single strip of elastic that is folded intermediate its ends to
105 form a loop to allow the passage of the toe portion of the foot therethrough, the end portions of the strips being disposed upwardly in diverging relation from the intermediate loop, the diverging ends being connected to-
110 gether at their juncture with the intermediate loop, said diverging end portions being adapted to be wrapped snugly around the opposite sides of the ankle, and means for se-
115 curing the free ends of the strip together.

7. An arch and ankle supporter of the class described comprising a single strip of elastic that is folded intermediate its ends to form a
120 loop to allow the passage of the toe portion of the foot therethrough, the end portions of the strips being disposed upwardly in diverging relation from the intermediate loop, the diverging ends being connected together at their juncture with the intermediate loop, said diverging end portions being adapted
125 to be wrapped snugly around the opposite sides of the ankle, means for securing the free ends of the strip together, and stress distributing strips secured at predetermined points on the elastic strip.

8. An arch and ankle supporter of the class described comprising a single strip of elastic that is folded intermediate its ends to form a loop to allow the passage of the toe portion of the foot therethrough, the end portions of the strips being disposed upwardly in diverging relation from the intermediate loop, the diverging ends being connected together at their juncture with the intermediate loop, said diverging end portions being adapted to be wrapped snugly around the opposite sides of the ankle, a member provided with spaced openings secured on one end portion of said strip, and a fastening element attached to the other end portion of said strip for detach- 15
able engagement with one of the openings in said member to adjustably secure the free ends of the strips together as and for the purpose described.

Signed at New York, in the county of New York and State of New York this 5th day of May, A. D. 1928. 20

JACK COHN.