

Dec. 3, 1935.

H. B. TEMPLE

2,023,346

STATIC RELEASING SHOE

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Fig. 1.

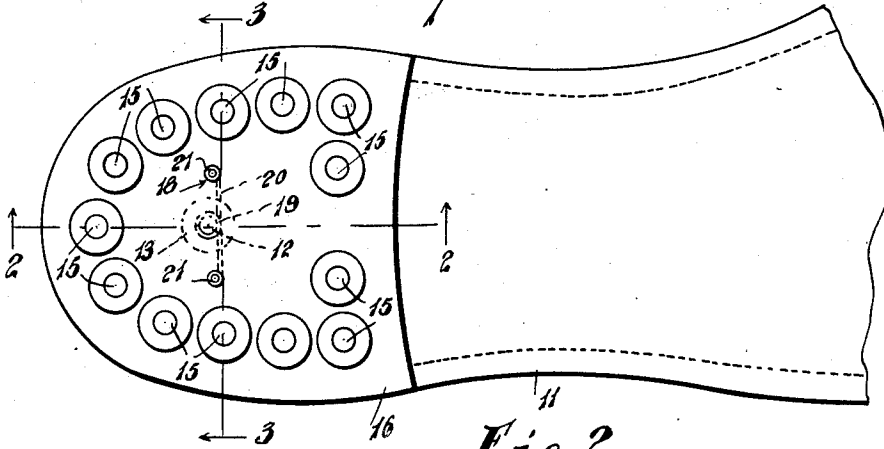


Fig. 2.

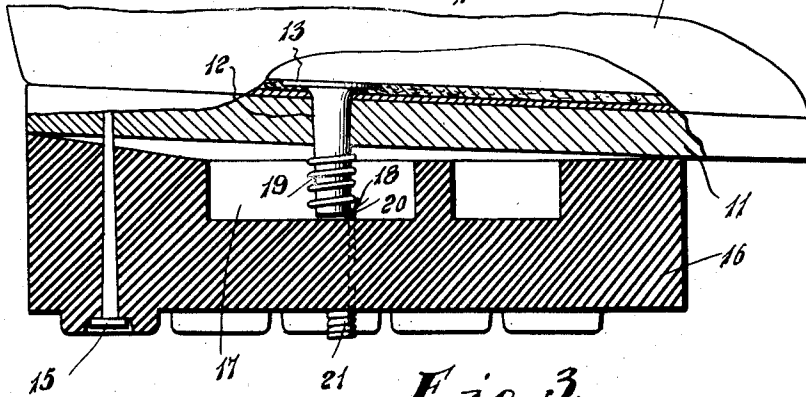
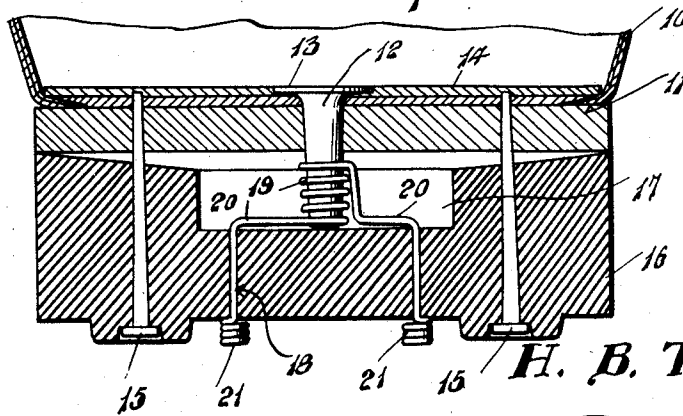


Fig. 3.



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STATIC-RELEASING SHOE

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Application October 4, 1934, Serial No. 746,913

5 Claims. (Cl. 175-264)

This invention relates to a shoe and it particularly aims to provide a novel means whereby static electricity or the natural current of electricity from the human body will be discharged through the shoe to the earth.

I find that through the release of the static electricity, sweating of the feet is promptly relieved, tired, aching feet are also relieved, and feet are protected against burning when walking or standing on hot pavements or surfaces.

The more specific objects and advantages will be pointed out or become apparent from a consideration of the description following taken in connection with accompanying drawing illustrating an operative embodiment.

In said drawing:—

Figure 1 is an inverted plan view of a portion of a shoe embodying my invention;

Figure 2 is a longitudinal sectional view taken on the line 2—2 of Figure 1, and

Figure 3 is a cross sectional view taken on the line 3—3 of Figure 1.

Referring specifically to the drawing, 10 designates a fragment of the upper of any conventional shoe, for instance a leather shoe. The sole thereof at 11 has a conductor stud 12 extending therethrough. Such stud is preferably wedged through the sole and in addition it has a head 13 of relatively large area secured in any suitable manner to the lining 14 within the shoe. Such stud extends a distance below the sole as shown in Figures 2 and 3.

Attached to the sole as by usual nails 15, is a rubber or other heel 16. Such heel in its central upper surface is hollow or recessed as at 17, to receive the lower end of the stud 12.

Carried by the heel is a conductor 18 made for instance from copper and from a single strand thereof. The conductor 18 has a central coiled or spring portion 19 which telescopically engages the stud 12 and physically contacts therewith. From the coils 19 legs 20 extend, which pass through the heel and at the lower ends thereof are formed into coils 21 adapted to contact with the ground, and which may normally extend slightly below the tread surface of the heel as shown in Figure 3.

The conductor members 18 may be fastened permanently in rubber heels, so that when a heel has to be replaced, the coil 19 of the old one will readily disengage the stud and the coil 19 of the new one will readily slide thereon.

In the use of the device, it will be realized that with the foot in conducting relation with the stud 12, that stud and the conductor 18 will convey static electricity from the body to the earth,

thus accomplishing the main object of my invention. It will be realized that the conductor 18 is resilient so as not to interfere with the action of the rubber heel, and also that the elements 21 are not only resilient but through their contact with the ground, serve as anti-slipping means to some extent.

Various changes may be resorted to provided they fall within the spirit and scope of the invention.

I claim as my invention:—

1. A shoe of the class described having a conducting stud mounted in its sole and exposed interiorly of the shoe, a separable heel on the shoe, and a second conductor mounted in said heel and separably engaged with said stud, said second conductor extending through said heel to the tread surface thereof.

2. A shoe of the class described having a conducting stud mounted in its sole and exposed interiorly of the shoe, a separable heel on the shoe, and a second conductor mounted in said heel and separably engaged with said stud, said second conductor extending through said heel to the tread surface thereof, said heel having a recess in its upper surface and said stud extending into said recess.

3. A shoe of the class described having a conducting stud mounted in its sole and exposed interiorly of the shoe, a separable heel on the shoe, and a second conductor mounted in said heel and separably engaged with said stud, said second conductor extending through said heel to the tread surface thereof and having a part in telescopic engagement with said stud.

4. A shoe of the class described having a conducting stud mounted in its sole and exposed interiorly of the shoe, a separable heel on the shoe, a conductor separably engaged with said stud and extending through said heel to the tread surface thereof, said conductor having a coil in telescopic engagement with said stud, and legs branching from said coil extending through the heel to the tread surface of the latter.

5. A shoe of the class described having a conducting stud mounted in its sole and exposed interiorly of the shoe, a separable heel on the shoe, a conductor separably engaged with said stud and extending through said heel to the tread surface thereof, said conductor having a coil in telescopic engagement with said stud, and legs branching from said coil extending through the heel to the tread surface of the latter, the terminals of said legs at said tread surface being coiled.

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