June 17, 1947. B. FERRAR 2,422,228

COMBINED SKATE AND SANDAL

Filed Dec. 27, 1943

Fig. 1.

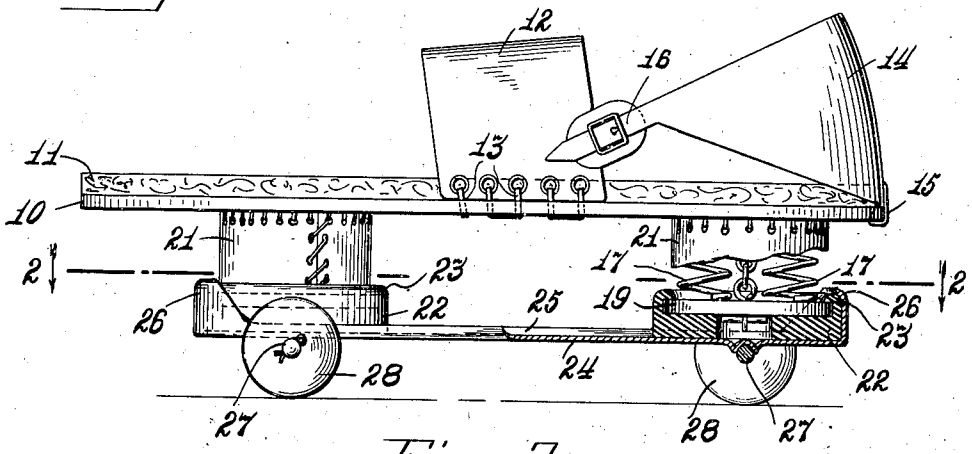


Fig. 2.

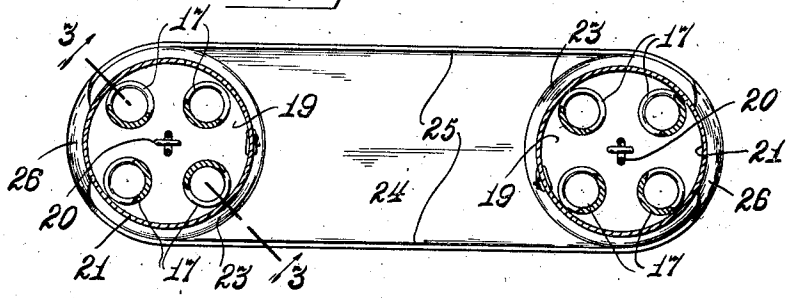


Fig. 3.

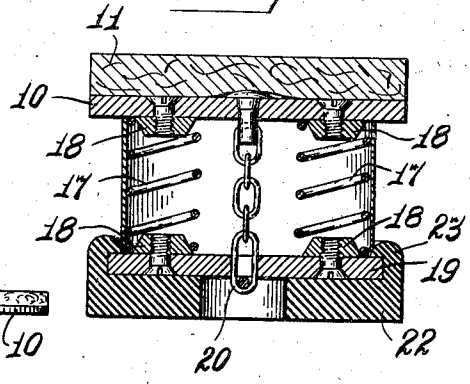
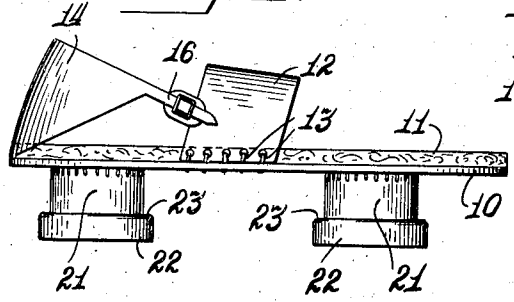


Fig. 4.



INVENTOR
BERNARD FERRAR
By: Brayton Richards
ATTORNEY

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COMBINED SKATE AND SANDAL

Bernard Ferrar, Los Angeles, Calif.

Application December 27, 1943, Serial No. 515,682

4 Claims. (Cl. 280—11.19)

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The invention relates to improvements in foot appliances and has for its primary object the provision of an improved foot appliance so constructed and arranged as to provide surface-contacting means such as roller skates, ice skates or skees, and which is capable of economical production and highly efficient in use.

Another object of the invention is the provision of an improved appliance of the character indicated which may be readily converted into a substitute for shoes when desired.

Other objects will appear hereinafter.

The invention consists of the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which—

Fig. 1 is a side view of an appliance embodying the invention;

Fig. 2, a horizontal section thereof taken substantially on line 2—2 of Fig. 1;

Fig. 3, an enlarged section taken substantially on line 3—3 of Fig. 2; and

Fig. 4, a side view of the construction in condition for use as a substitute for a shoe.

The embodiment of the invention illustrated in the drawings comprises a foot rest 10 provided with a top pad 11 of felt or the like, and held in place on the foot by means of an instep band 12 adjustably connected thereto by lacing 13, as indicated. A heel-embracing member 14 is connected at 15 as shown, with the rear of the rest member 10, and the forward ends of the member 14 are formed into securing straps 16 adapted and arrangned to adjustably engage buckles on the rear edges of the instep band as shown. By this arrangement a secure and adjustable attachment for the foot is provided, and one which may be readily applied to or removed from the foot by merely loosening or securing one of the side straps 16, as will be readily understood.

Two spaced flexible attaching elements are arranged to extend downwardly from the heel and toe portions of the foot rest 10. Each of these attaching elements comprises four spaced compression springs 17 fitting at their ends over short posts or projections 18 on the underside of the rest 10 and on top of a corresponding supporting plate 19 as indicated. A flexible tie member in the form of a chain 20 is positioned centrally in each attaching element and serves to hold the springs 17 under suitable initial compression and to limit their expansion, said springs being placed under sufficient initial compression substantially

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equal to that of the person intended to wear the appliance, and being held under said tension by action of the corresponding chain 20, as will be readily understood. A suitable flexible housing 21, preferably of leather or similar material, is arranged as indicated around each set of springs 17 and a rubber cushion or tread block 22 is provided with a flexible lip 23 at its top adjustably securing the same to the projecting edges or shoulder of each plate 19 as shown. Surface-contacting means in the form of a steel plate 24 having up-turned stiffening flanges 25 at its sides is detachably secured to each supporting plate 19 by means of upwardly and inwardly extending attaching lips 26 formed at each end thereof, and adapted and arranged to engage over the projecting edges or shoulders of the tread members 22—23 as indicated, and whereby the member 24 may be readily attached to, or detached from said attaching elements. Each member 24 is provided, as shown, with two transverse axles 27 carrying rollers 28, thereby completing a surface-contacting means in the form of an ordinary roller skate. By this arrangement the flexibility of the attaching elements permits of the ready attachment or detachment of the members 24 and also provides the necessary lateral resiliency to permit of full and complete use of the attachment as an ordinary roller skate. By this arrangement a simple and effective foot appliance adapted to serve as a roller skate, ice skate or a skee may be readily attached to each foot of the wearer and the same fully cushioned and flexibly mounted so as to permit of the full and complete use and enjoyment thereof.

If and when desired, the surface-contacting means may be readily detached and the appliance then used as a shoe substitute as indicated in Fig. 4.

While I have illustrated and described the preferred form of construction for carrying the invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I therefore do not wish to be limited to the precise details disclosed, but desire to avail myself of such variations and modification as fall within the scope of the appended claims.

I claim:

1. A foot appliance comprising a foot rest; two spaced flexible elements depending from said rest and each comprising four spaced compression springs and a flexible tie member positioned centrally between them limiting the expansion of said springs.

2. The construction specified in claim 1 in which each flexible element is provided at its bottom with a rubber tread member.

3. A foot appliance comprising a foot rest; two spaced flexible attaching elements depending from said rest, each provided at its lower end with an attaching shoulder; and a supporting member consisting of a plate having upwardly and inwardly extending lips at each end adapted and arranged to engage over the attaching shoulders on said attaching elements.

4. A foot appliance comprising a foot rest; two spaced flexible attaching elements depending from said rest, each provided at its lower end with an attaching shoulder; a supporting member consisting of a plate having upwardly and inwardly extending lips at each end adapted and arranged to engage over the attaching shoulders on said attaching elements; and surface contacting means on said supporting member consisting of a pair of axles carrying rollers.

BERNARD FERRAR.

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