

March 7, 1944.

R. H. D. WESTMAAS

2,343,489

AMUSEMENT DEVICE

Filed Aug. 5, 1942

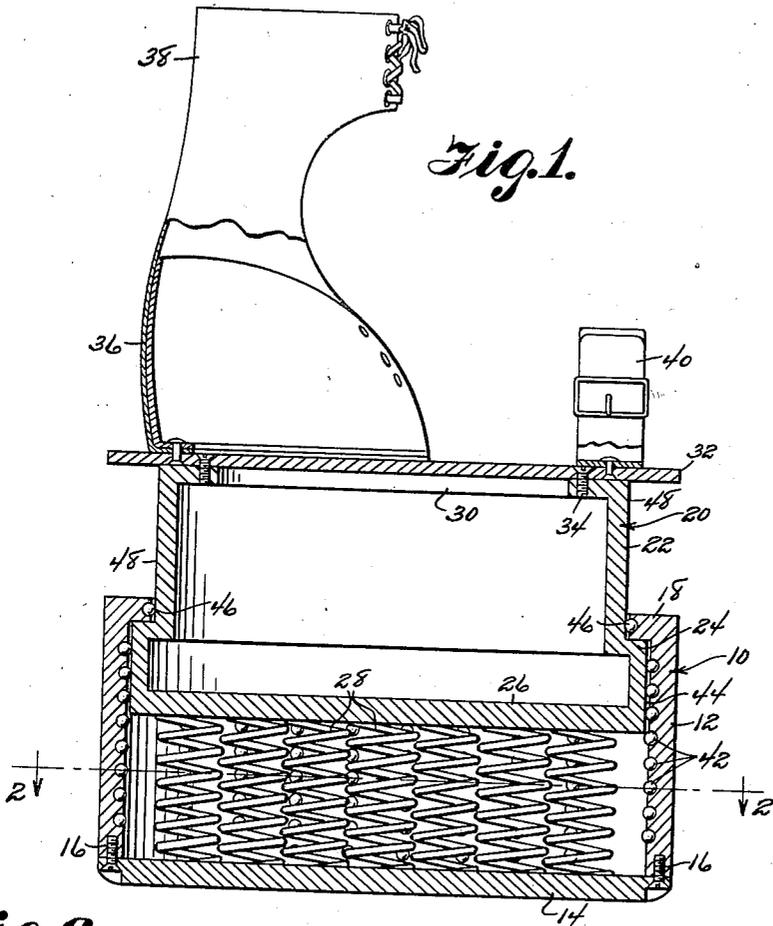
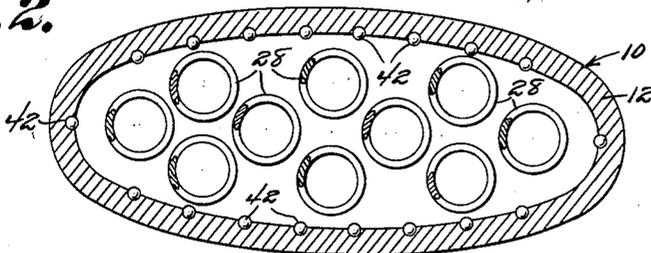


Fig. 2.



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UNITED STATES PATENT OFFICE

2,343,489

AMUSEMENT DEVICE

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Application August 5, 1942, Serial No. 453,699

1 Claim. (Cl. 36—7.8)

My invention relates to amusement devices, and has among its objects and advantages the provision of an improved spring shoe upon which the wearer may jump and run with a springing movement.

In the accompanying drawing:

Figure 1 is a vertical sectional view of the invention; and

Figure 2 is a sectional view taken along the line 2—2 of Figure 1.

In the embodiment selected for illustration, I make use of a sole section 10 of oval configuration when viewed according to Figure 2, with its major axis paralleling the axis of the foot to which the shoe is attached. Section 10 includes a sole part 12 to which a sole plate 14 is secured by screws 16. An inwardly extending flange 18 is provided about the upper end of the sole 12.

An upper or shoe section 20 is resiliently associated with the neck section 10, section 20 comprising a sole 22 terminating in a head 24 at its lower end fitting loosely inside the sole 12. Between the sole 26 of the head 24 and the sole plate 14 is interposed a plurality of compression springs 28. Normally the head 24 is yieldingly held in engagement with the flange 18.

Section 20 is of hollow configuration for weight reducing purposes and is provided with a flange 30 at its upper end to which is secured a shoe plate 32 by screws 34. A heel boot 36 is secured to the shoe plate 34 and includes an ankle-embracing portion 38 which may be strapped about the ankle of the wearer. An instep strap 40 is secured to the shoe plate 32, which coacts with the heel boot 36 to firmly connect the device with the foot of the wearer.

The side wall of the sole section 10 is provided

with vertical rows of ball bearings 42 for guidingly engaging the face 44 of the head 24. Ball bearings 46 are also provided in the edge face of the flange 18 for guidingly engaging the neck face 48 of the section 20.

The section 20 telescopes freely with respect to the sole section 10 for compressing the springs 28, as when running and jumping, to the end that the wearer may run and jump with a springing movement by reason of the reaction of the springs 28. These springs are so distributed as to provide a good balancing engagement with the sole 26.

Without further elaboration, the foregoing will so fully illustrate my invention, that others may, by applying current knowledge, readily adapt the same for use under various conditions of service.

I claim:

A device of the character set forth comprising a sole section of hollow formation and provided at its upper side with an inturned flange, vertical rows of bearings mounted on the inner side of the sole section, bearings carried by the inner edge of the flange, a shoe section having a head and neck, the head being larger in horizontal dimensions than the flange and located within the sole section below the flange and the neck extending upwardly from the head through the flange of the sole section, the head having a vertical wall contacting with said first bearings and the neck contacting with said second bearings, resilient means located between the lower side of the head and the bottom of the sole section normally holding the head in contact with the flange, and means carried by the upper end of the neck to secure the device to the foot.

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