Dec. 3, 1963 G. RAMON 3,112,812

KNEE REST

Filed Nov. 24, 1961

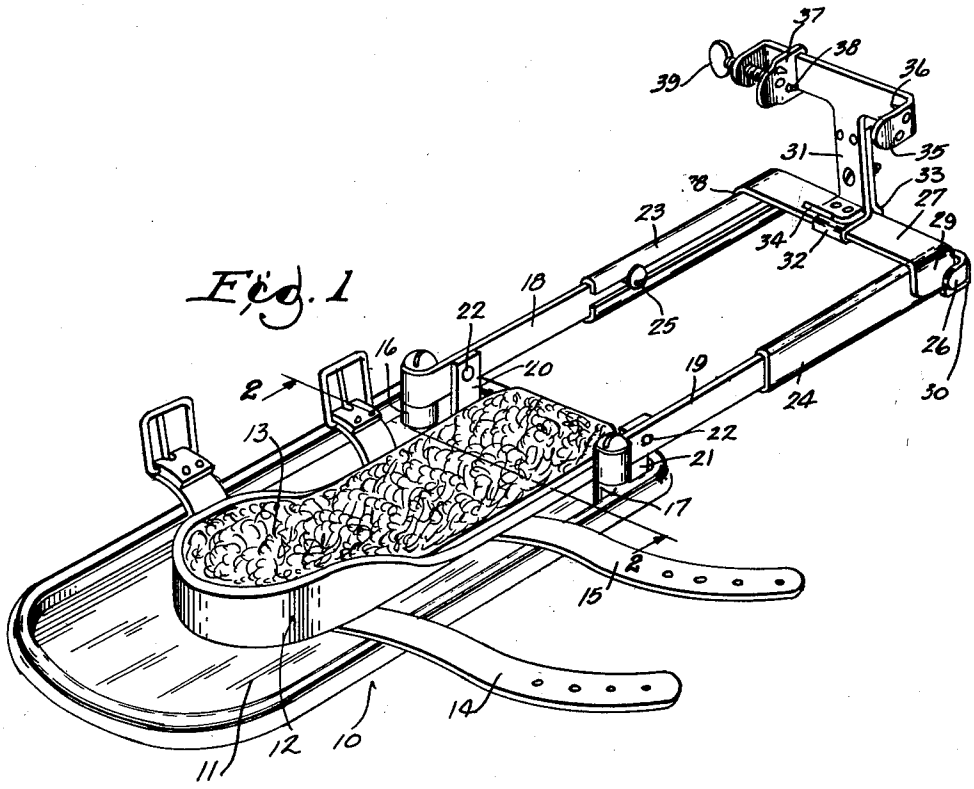


Fig. 1

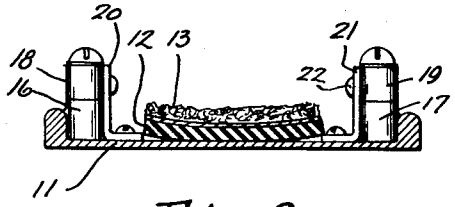


Fig. 2

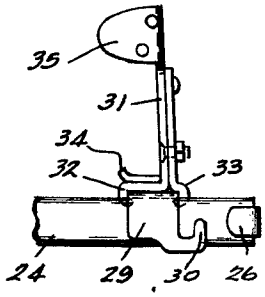


Fig. 3

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This invention relates to improvements in stilts and more particularly to a novel knee-supporting stilt provided with rearwardly extended foot-supporting means.

An object of the invention is to provide a device of the type comprising knee supporting means having rearwardly extending arms including clamp means for the toe of a shoe sole.

Other and further objects of the invention will appear as the description proceeds, reference being had to the accompanying drawing, in which:

FIG. 1 is a view in perspective from above of a stilt embodying the invention.

FIG. 2 is a vertical sectional view taken on line 2—2 of FIG. 1.

FIG. 3 is a fragmentary side view in elevation showing the shoe sole engaging means.

Referring more particularly to the drawing, the numeral 10 refers to the device generally, comprising a plate 11, having a knee-receiving member 12 provided with an internal pad 13. A pair of straps 14 and 15 are provided to secure the device 10 to the leg of a user.

A pair of posts 16 and 17 are disposed adjacent the rear end of the plate 11 and have affixed thereto the extension arms 18 and 19 reinforced by the elements 20 and 21 and the rivets 22. A pair of split sleeves 23 and 24 are adjustable on the arms 18 and 19 by the threaded means 25. Each of the sleeves 23 and 24 terminates at its free end in an outwardly disposed hook element 26. A yoke 27 has downwardly turned ends 28 and 29 provided with laterally disposed hooks 30.

An adjustable cleat element for engaging a shoe sole has a shank portion 31 provided at the base thereof with the jaws 32 and 33 which grip the yoke 27, and the sole toe retainer 34. A stationary lateral cleat 35 is provided with prongs 36 and is opposed by the adjustable cleat 37 with sole engaging prongs 38 and the thumb screw 39.

In use, the device is secured by means of straps 14 and 15 to the leg of the user, and the foot is secured by means

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of the cleats 35 and 37 engaging the shoe sole of the user.

When the wearer wishes to regain his feet, he unhooks the yoke hooks 30 from the sleeve hooks 26, and this operation may be reversed on the resumption of work, as in cement finishing or similar pursuits.

It will be understood that the device is capable of many modifications in structure and desiga, without departing from the spirit of the invention, within the scope of the appended claim.

Having thus described the invention, what is claimed and desired to be secured by Letters Patent of the United States is:

A knee rest comprised of a plate, a vertical marginal rounded top flange on the upper surface thereof, a frontally arcuate socket formation adapted to receive the knee of a user, the socket integral with a flat plate extending rearwardly thereof, a pad within said socket and continued on said flat plate, a pair of vertical posts laterally disposed adjacent the rear end of said flat plate within the flange, a pair of rearwardly extending bars bent about and fixed to said posts, a vertical reinforcing bar spaced rearwardly of the post and secured to each rearwardly extending bar and the underlying plate, a pair of flat split sleeves engaged on said rearwardly extending bars with a sliding fit, threaded means for relatively fixing the latter, a pair of horizontal return hooks on the outer ends of the sleeves, a cross-bar with down-turned end portions freely engaged over the ends of said sleeves, hook portions rearwardly and vertically directed integral with said down-turned end portions to engage freely with the horizontal return hooks on the sleeves, a composite vertical bar fixed centrally above said cross-bar, an integral horizontal member at the top of said vertical bar, a fixed internally toothed jaw on one end of said horizontal member to engage the edge of a shoe sole, a movable toothed jaw adjacent the other end of said horizontal member, and threaded means for adjusting said movable toothed jaw to tightly engage the edges of a shoe sole.

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