

Title (en)
DEVICE FOR PREVENTING AND TREATING LOCOMOTION DISORDERS

Title (de)
VORRICHTUNG ZUR PRÄVENTION UND BEHANDLUNG VON STÖRUNGEN DES BEWEGUNGSAPPARATS

Title (fr)
DISPOSITIF DESTINE A LA PREVENTION ET AU TRAITEMENT DES TROUBLES DE LOCOMOTION (ET VARIANTES)

Publication
EP 1872763 B1 20101222 (EN)

Application
EP 05802488 A 20050412

Priority
RU 2005000188 W 20050412

Abstract (en)
[origin: EP1872763A1] A device for mechanical stimulation of the foot support zones comprises four pneumatic chambers, two chambers being for each one of the feet, to create pressure to be exerted on the foot support zones, which chambers are equipped with valves and are coupled, via a receiver, to a pressure source, which source in turn is coupled to a control unit that controls the pressure-varying modes in the pneumatic chambers. The pneumatic chambers are intended to be disposed within footwear in the heel and tarsus area, and are coupled, through suitable pipelines, to a receiver; the pneumatic chambers being implemented such that when air is supplied, their volume is increased only in the direction perpendicular to the foot sole. The control unit comprises a microprocessor operated by a program that controls the air supply to the pneumatic chambers according to various modes of walking or run within the pneumatic chambers to the atmospheric pressure value; and said control unit is connected to a control input of the control valve, of the pressure sensor via the interface, and to a pressure source driver.

IPC 8 full level
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CPC (source: EP)
A43B 3/34 (2022.01); **A43B 7/1464** (2022.01); **A43B 17/035** (2013.01); **A61H 9/0078** (2013.01); **A61H 9/0085** (2013.01); **A61H 2201/165** (2013.01); **A61H 2205/12** (2013.01)

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