

提供全面足底壓力管理及改善平衡的長者鞋履

Total Pressure Management and Balance-enhancing Geriatric Footwear

改善長者步行時的平衡力與穩定性 Improving balance and stability of walking in elderly people

專利編號: 15/205,955 (美國)

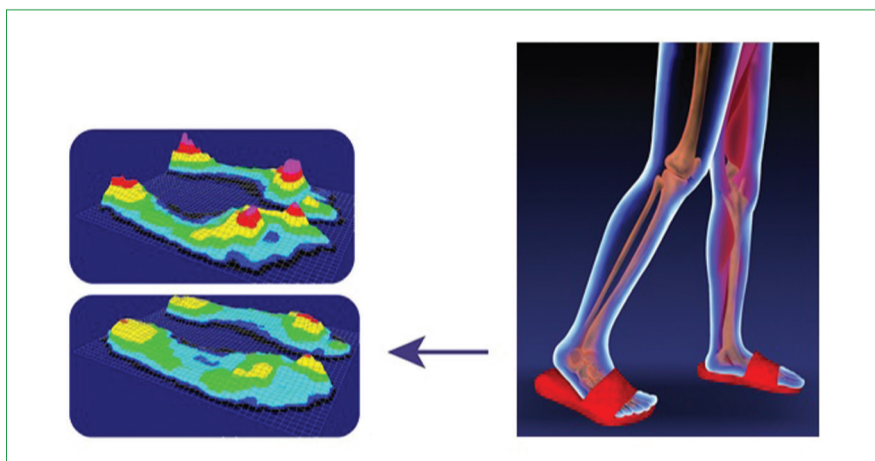
長者因足底觸覺退化，平衡力變差，容易跌倒；加上足感神經傳訊遲緩，令長者未能就重心突變而作出適當的反應，令身體回復平衡。本項目採用了足底壓力管理及觸覺刺激的概念，研發出長者專用的室內鞋履。鞋履的鞋墊表面加了能夠刺激觸覺的紋理，配以立體的中底結構，能夠加強長者步行時的穩定性，全面改善足底壓力分佈及身體平衡，大大提升長者的活動能力及生活質素。

特色與優點

- 鞋墊表面有用雙層矽膠物料製成的突起膠粒，可按需要拆出並改變位置，能刺激足底觸覺及提高舒適度
- 用碳纖維物料製成的立體中底結構能加強支撐力
- 按長者腳型及人體工學設計鞋面及鞋跟，為腳部提供全面保護
- 防滑鞋底

應用

- 長者家居鞋履
- 不同功能的日常及運動鞋履



赤腳和穿著拖鞋步行時的足底壓力分佈
Plantar pressure distribution when walking barefoot and in slippers



長者的足部狀況
Foot conditions of older adults

Patent No.: 15/205,955 (US)

The loss of plantar sensitivity in elderly people correlates with the impaired control of balance and an increased likelihood of falling. This project adopts the concepts of plantar pressure management and sensation stimulation to develop a geriatric indoor footwear for them, which features specially designed raised texture on the insole surface and a three-dimensional midsole structure. The footwear not only enhances tactile sensation for improving balance and stability of walking, but also provides total plantar pressure management for adequate support and protection. The wearer's mobility and quality of life is thus highly improved.

Special Features and Advantages

- Inter-changeable indented nodules made of double-layered silicone materials for sensation stimulation and comfort
- 3D contour design of the midsole made of carbon fibre composite for extra support
- Ergonomic footwear design with adjustable vamp and heel counter for optimal foot protection
- Slip resistance outsole

Applications

- Geriatric indoor footwear
- Daily or active footwear for foot protection

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