

Title (en)  
FLUID FILLED INSOLE

Title (de)  
FLÜSSIGKEITSGEFÜLLTE EINLEGESOHLE

Title (fr)  
PREMIERE DE CHAUSSURE REMPLIE DE FLUIDE

Publication  
**EP 0725580 B1 20020710 (EN)**

Application  
**EP 94914349 A 19940415**

Priority  
• DK 9400152 W 19940415  
• US 4768593 A 19930415

Abstract (en)  
[origin: WO9423603A1] A fluid filled insole comprises a fluid tight bladder having upper and lower layers and a generally foot-shaped planar configuration, with a metatarsal region, a heel region and arch region therebetween; a large-molecular, hygroscopic, sterile liquid substantially filling the bladder, the liquid comprising a mixture of polyvalent alcohol and distilled water; a plurality of spaced metatarsal flow deflectors joining the upper and lower layers in the metatarsal region of the bladder; a plurality of spaced heel flow deflectors joining the upper and lower layers in the heel region of the bladder; longitudinal flow passages between the metatarsal flow deflectors and heel flow deflectors; and a flow restrictor in the arch area of the bladder, whereby liquid flow from the heel area to the metatarsal area and vice versa and flow through the channels between flow deflectors spread the user's weight over a larger area reducing pressure on the plantar surfaces of the user's foot, provides massaging action to the plantar surfaces of the user's foot, improving venepump function and increasing blood circulation with its resulting medical benefits; ensures a liquid pillow on the medial and lateral sides of the user's foot to help against over pronation or over supination during walking; and beneficially stimulates zone therapeutic reflex zones.

IPC 1-7  
**A43B 13/40**

IPC 8 full level  
**A43B 17/02** (2006.01); **A43B 17/03** (2006.01)

CPC (source: EP)  
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