

Title (en)
UNIVERSAL SOLE

Title (de)
UNIVERSALSOHLE

Title (fr)
SEMELLE UNIVERSELLE

Publication
EP 1991079 B1 20090729 (FR)

Application
EP 07731061 A 20070228

Priority
• FR 2007000359 W 20070228
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Abstract (en)
[origin: WO2007099226A2] Universal sole designed to help a user adapt his walking or running gait to the surface over which he is moving or to the peculiarities of his individual leg/foot system by individually adjusting the hardness and thickness of several areas of the sole. Each area consists of one or more layers of a flat coil of elastic extensible airtight and optionally reinforced rubber tube which may be flattened or inflated beyond its nominal diameter as a function of the pressure introduced by the action, as the user walks, of a small pump located inside the sole underneath the user's heel and adjustments and isolations performed manually with a system of valves built into the thickness of the sole. The coils, the valve system and the pumping system are either located and bonded between layers of foam containing the impression of the coils and filling the spaces between laces or placed in a mould or in a sole in the shape of a boat, a filling material then being introduced to fill the empty spaces. The resulting soles or sole elements can be used on all kinds of shoes.

IPC 8 full level
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CPC (source: EP US)
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