

Title (en)
Improved spike

Title (de)
Verbesserter Stollen

Title (fr)
Crampon amélioré

Publication
EP 1785049 A1 20070516 (EN)

Application
EP 05024647 A 20051111

Priority
EP 05024647 A 20051111

Abstract (en)
This invention relates to an improved spike (10,30,40) installed in a sole (21) of a shoe (20) and consists of a receptacle (12) having a base (22) and several connecting seats (24,34,42) integrated around the edge of the base in one piece flexibly moving in proportion to the base. Several spikes (14) are installed unto individual connecting seats extruding the sole. Accordingly, each connecting seat and partial spikes (14,32,48) are wrapped up by the flexible sole. When spikes receive an external force causing connecting seats to deviate slightly and simultaneously, the elasticity of the sole material and elastic recovery of each connecting seat are used ingeniously to create proper grip.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
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• [Y] US 5638615 A 19970617 - KORSEN DAVID L [US]
• [X] WO 03071893 A1 20030904 - GENERICS INVEST GROUP AG [CH], et al
• [A] US 1653526 A 19271220 - OTTO WHITE
• [A] DE 4137350 A1 19930519 - ESJOT WERK SCHIERMEISTER U JUN [DE]

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
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