

Title (en)
Retractable antislip device for footwear

Title (de)
Ausfahrbare Antirutschvorrichtung für Schuhwerk

Title (fr)
Dispositif antidérapant rétractable pour chaussure

Publication
EP 1712148 A1 20061018 (EN)

Application
EP 06112548 A 20060412

Priority
IT 2005000214 W 20050414

Abstract (en)
A retractable antislip device embedded in a footwear sole comprising a toothed bar (3) housed in a corresponding groove (2) formed in the sole and movable through the groove from a first position in which it is completely retracted in the sole to a second position in which it protrudes therefrom, and actuating means (4, 8, 11) for moving the toothed bar from the first to the second position and vice versa manually operable by an user. The actuating means comprise a sliding member (4) integral to the toothed bar (3) movable within the sole in a direction substantially perpendicular to the lying plane of the sole and a shaft (8) pivotally housed in the sole perpendicularly to the sliding member. The shaft has an outer end formed with means (11) for rotating the shaft around its axis and is connected to the sliding member in such a way that a rotation of the shaft in either direction corresponds to a movement of the sliding member and the toothed bar integral therewith from the first to the second position and vice versa.

IPC 8 full level
A43C 15/14 (2006.01)

CPC (source: EP US)
A43C 15/14 (2013.01 - EP US)

Citation (applicant)
• US 3717238 A 19730220 - FOX J
• BE 876362 A 19790917 - VANDERSCHUEREN D

Citation (search report)
• [X] BE 876362 A 19790917 - VANDERSCHUEREN D
• [Y] DE 254113 C
• [Y] CA 2089221 C 19960709 - KHAYAT RENE E [CA]
• [YA] EP 1021968 A1 20000726 - PETERS AMBROISE [FR]
• [Y] FR 1116046 A 19560503
• [YA] US 2004035024 A1 20040226 - KAO JENG-SHAN [TW]

Designated contracting state (EPC)
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)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1712148 A1 20061018; EP 1712148 B1 20090211; AT E422307 T1 20090215; CA 2608755 A1 20061019; CN 101179959 A 20080514; DE 602006005090 D1 20090326; US 2009193681 A1 20090806; WO 2006109335 A1 20061019

DOCDB simple family (application)
EP 06112548 A 20060412; AT 06112548 T 20060412; CA 2608755 A 20050414; CN 200580049874 A 20050414; DE 602006005090 T 20060412; IT 2005000214 W 20050414; US 99177005 A 20050414