

Title (en)
Shoe lace knot retainer

Title (de)
Schnürsenkelknotenhalter

Title (fr)
Dispositif de retenue de noeud de lacet de chaussure

Publication
EP 2127550 A1 20091202 (EN)

Application
EP 08104165 A 20080529

Priority
EP 08104165 A 20080529

Abstract (en)
A knot retainer (1) for preventing a knot (2) comprising a knot body (8) from unintentionally becoming undone. The retainer comprises a plate-like member (3) and at least one thread-like member (4). The plate-like member (3) comprises a first end (5) and a second end (6) opposite the first end. The plate-like member further comprises first fastening means (10, 12, 13) for attaching and holding a first portion (16) of the thread-like member at or near the first end and second fastening means (11, 14, 15) for attaching and holding a second portion (17) of the thread-like member at or near the second end. The at least one thread-like member comprises at least a third portion (18) and a fourth portion (19) for being arranged adjacent the knot body on opposite sides thereof. At least one of the plate-like member and the thread-like member is elastic.

IPC 8 full level
A43C 7/06 (2006.01)

CPC (source: EP US)
A43C 7/06 (2013.01 - EP US); **Y10T 24/375** (2015.01 - EP US); **Y10T 24/3787** (2015.01 - EP US)

Citation (applicant)
• US 4485529 A 19841204 - BLUM RONALD D [US]
• US 4545138 A 19851008 - BLUM RONALD D [US]

Citation (search report)
• [X] WO 0165961 A1 20010913 - PERSONAL ELECT DEVICES INC [US], et al
• [A] US 6823610 B1 20041130 - ASHLEY JOHN P [US]
• [A] US 4403375 A 19830913 - BLUM RONALD D [US]
• [A] DE 284428 C
• [A] US 4879787 A 19891114 - WALLS THOMAS J [US]

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KR101512325B1; US11412818B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2127550 A1 20091202; EP 2127550 B1 20131106; US 2010257709 A1 20101014; WO 2009153146 A1 20091223

DOCDB simple family (application)
EP 08104165 A 20080529; EP 2009056429 W 20090527; US 74572109 A 20090527