Title (en)
ARMOR HAVING PRISMATIC, TESSELATED CORE

Title (de)
PANZER MIT MOSAIKARTIGEM PRISMENKERN

Title (fr)
ARMURE AYANT UN C UR PRISMATIQUE EN MOSAÏQUE

Publication
EP 2452152 A4 20140319 (EN)

Application
EP 09847187 A 20091110

Priority
• US 2009063887 W 20091110
• US 2009050005 W 20090709

Abstract (en)
[origin: WO2011005274A1] An armor includes a core that, in turn, includes a first layer of prismatic elements arranged in a tessellated fashion and a second layer of prismatic elements arranged in a tessellated fashion. The first layer of prismatic elements is nested into the second layer of prismatic elements. An armor includes a strike face sheet, a rear face sheet, and a core disposed between the strike face sheet and the rear face sheet. The core includes a first layer of prismatic elements arranged in a tessellated fashion, a second layer of prismatic elements arranged in a tessellated fashion, and a strain isolation layer. The first layer of prismatic elements is nested into the second layer of prismatic elements with the strain isolation layer disposed between the first layer of prismatic elements and the second layer of prismatic elements. The armor is at least one of curved in at least one direction, configured to include a corner, and configured to include a prismatic element of the first layer of prismatic elements or the second layer of prismatic element having a metallic layer disposed thereon.

IPC 8 full level
F41H 5/04 (2006.01)

CPC (source: EP)
F41H 5/0492 (2013.01)

Citation (search report)
• [XI] WO 2009061539 A2 20090514 - UNIV VIRGINIA [US], et al
• [XI] DE 4005904 A1 19910829 - BAYERISCHE MOTOREN WERKE AG [DE]
• [XI] EP 1985961 A2 20081029 - KRAUSS MAFFEI WEGMANN GMBH & C [DE]
• [A] DE 102006050130 A1 20080430 - AUDI AG [DE]
• See references of WO 2011005274A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
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DOCDB simple family (application)
US 2009063887 W 20091110; EP 09847187 A 20091110; EP 09847188 A 20091110; US 2009063909 W 20091110