

Title (en)
IMPROVED FLEXIBLE PROTECTION STRUCTURE

Title (de)
VERBESSERTE FLEXIBLE SCHUTZSTRUKTUR

Title (fr)
STRUCTURE DE PROTECTION SOUPLE AMÉLIORÉE

Publication
EP 2682707 A4 20140709 (EN)

Application
EP 11860007 A 20111219

Priority
• ES 201130217 U 20110301
• ES 2011070881 W 20111219

Abstract (en)
[origin: ES1076265U] Improved flexible protection structure, in particular for the manufacture of protection panels for land, naval or aerial vehicles and/or protective garments for personal use from bullet impacts, fragments explosions, stab weapon or the like, comprising: a first block (A) having a first outer layer for receiving an impact received on the structure, a second layer arranged internally to the first outer layer formed by a plurality of pieces of ceramic material joined together and a third innermost layer of ballistic material that acts as a support for the second layer; and a second block (B) suitable for retaining the impact element and preventing penetration thereof, provided with a plurality of sheets of ballistic material, characterized by the fact that each of the sheets of the second block is coated on its front and rear sides with a layer or covering of flexible and sliding plastic material, such that in a flexing action of the structure, each sheet is slides relative to an adjacent sheet. (Machine-translation by Google Translate, not legally binding)

IPC 8 full level
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CPC (source: EP)
F41H 5/0435 (2013.01); **F41H 5/0492** (2013.01)

Citation (search report)
• [Y] ES 1065400 U 20070801 - FEDUR SA [ES]
• [Y] US 2007194490 A1 20070823 - BHATNAGAR ASHOK [US], et al
• [Y] US 2009114083 A1 20090507 - MOORE III DAN T [US], et al
• [A] WO 2009113120 A1 20090917 - TEC INN S R L [IT], et al
• [A] WO 2008054867 A2 20080508 - WARWICK MILLS INC [US], et al
• See references of WO 2012117126A1

Cited by
EP3098560A1; ITUB20151170A1; US10473433B2; WO2022112312A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
FR 2972247 A3 20120907; FR 2972247 B3 20130308; DE 202011110753 U1 20160203; EP 2682707 A1 20140108; EP 2682707 A4 20140709; ES 1076265 U 20120221; ES 1076265 Y 20120523; IT UD20120007 U1 20120902; WO 2012117126 A1 20120907

DOCDB simple family (application)
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