

Title (en)

HIGH-STRENGTH PLANAR STRUCTURES FOR END-BALLISTIC PROTECTION AND PROTECTION AGAINST WEAR AND METHOD FOR PRODUCING THE SAME

Title (de)

HOCHFESTE FLÄCHENGEBILDE FÜR ENDBALLISTISCHEN SCHUTZ UND VERSCHLEISSSCHUTZ UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

STRUCTURE PLATE HAUTEMENT RESISTANTE POUR LA PROTECTION BALISTIQUE ET LA PROTECTION CONTRE L'USURE ET PROCEDE DE FABRICATION DE LADITE STRUCTURE

Publication

EP 1606572 B1 20080702 (DE)

Application

EP 04720579 A 20040315

Priority

- DE 2004000586 W 20040315
- DE 10313231 A 20030319

Abstract (en)

[origin: WO2004083768A1] The invention relates to the field of materials science and to high-strength planar structures for the protection of vehicles and people. The aim of the invention is to provide high-strength planar structures which are characterized in that the planar structure is only destroyed in the immediate vicinity of an impact. This aim is achieved by a high-strength planar structure that consists of individual elements that give, applied to a backing material, the high-strength planar structure. The individual elements have the shape of regular pyramids and tetrahedrons or irregular pentahedrons and/or hexahedrons and/or the individual elements consist of combined and interlinked shapes (compound shapes) of regular pyramids and tetrahedrons or irregular pentahedrons and/or hexahedrons. The aim is also achieved by a method which is characterized in that individual elements and/or shapes (compound shapes) combined from such individual elements and interlinked are combined to give a planar structure and are non-positively linked with a backing material at least on one side.

IPC 8 full level

F41H 5/04 (2006.01)

CPC (source: EP)

F41H 5/0492 (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004083768 A1 20040930; AT E399973 T1 20080715; DE 10313231 A1 20041007; DE 10313231 B4 20071031; DE 502004007489 D1 20080814; EP 1606572 A1 20051221; EP 1606572 B1 20080702; ES 2309510 T3 20081216; IL 170927 A 20100630

DOCDB simple family (application)

DE 2004000586 W 20040315; AT 04720579 T 20040315; DE 10313231 A 20030319; DE 502004007489 T 20040315; EP 04720579 A 20040315; ES 04720579 T 20040315; IL 17092705 A 20050918