

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 VERSCHLEISSCHUTZ 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

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Application

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Priority

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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.

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