Title (en)

Composite armor panel and manufacturing method therefor

Title (de)

Verbundpanzerplatte und Verfahren zur Herstellung

Title (fr)

Plaque de blindage composite et son procédé de fabrication

Publication

EP 0843149 B1 19980826 (EN)

Application

EP 96308166 A 19961112

Priority

EP 96308166 A 19961112

Abstract (en)

[origin: EP0843149A1] The invention provides a composite armor material for absorbing and dissipating kinetic energy from high velocity, armor-piercing projectiles, comprising a panel consisting essentially of a single internal layer of high density ceramic pellets having an Al203 content of at least 85% and a specific gravity of at least 2.5, said pellets being directly bound and retained in panel form by a solidified material which is elastic at a temperature below 250 DEG C, the majority of said pellets each having a major axis in the range of about 3-12 mm, and being bound by said solidified material in a plurality of superposed rows, wherein a majority of each of said pellets is in contact with at least 4 adjacent pellets, and the total weight of said panel does not exceed 45 kg/m<2>. <IMAGE>

IPC 1-7

F41H 5/04

IPC 8 full level

F41H 5/04 (2006.01)

CPC (source: EP)

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Cited by

EP0959321A1; EP2146178A3; US6624106B2; DE102005013660A1; EP1737653A4; EP2023072A1; US7543523B2; US7603939B2; WO9960327A1; WO9950612A1; WO9953260A1; EP2426454A2; US8438963B2; US7383762B2; WO0229351A1; EP2071272A2; EP1705453A1; US7117780B2; US8281700B2; EP0942255B1; WO2006103431A1; US8833229B2; EP1080337B2; EP1166031A1

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