

Title (en)  
MULTI-HIT CAPABLE TRANSPARENT, MULTI-STACK ARMOR SYSTEM

Title (de)  
MULTI-HIT-FÄHIGES, TRANSPARENTES UND MEHRSCICHTIGES PANZERUNGSSYSTEM

Title (fr)  
SYSTÈME DE BLINDAGE À EMPILEMENT MULTIPLE, TRANSPARENT ET SUSCEPTIBLE DE SUBIR DES IMPACTS MULTIPLES

Publication  
**EP 2188123 A1 20100526 (EN)**

Application  
**EP 08872012 A 20080827**

Priority  
• US 2008010158 W 20080827  
• US 96723207 P 20070831

Abstract (en)  
[origin: WO2009096930A1] A transparent armor laminate system includes a plurality of sub-stacks separated by an interlayer. The sub-stacks include a plurality of layers including a glass ceramic front strike-face layer, a backing layer comprising a spall-resistant material, and at least one glass layer laminated between the strike-face and backing layers. The interlayer isolates cracks between sub-stacks, and may include an isolating material such as a polymer, gas, or liquid. The laminate system offers improved performance with reduced weight over conventional all-glass or all-glass-ceramic transparent armors.

IPC 8 full level  
**B32B 17/06** (2006.01)

CPC (source: EP US)  
**B32B 17/10009** (2013.01 - EP US); **B32B 17/10045** (2013.01 - EP US); **B32B 17/10055** (2013.01 - EP US); **B32B 17/10119** (2013.01 - EP US); **F41H 5/0407** (2013.01 - EP US); **B32B 2369/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009096930A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
**US 2008010158 W 20080827**; EP 08872012 A 20080827; JP 2010522941 A 20080827; US 67517108 A 20080827