

Title (en)  
MULTILAYERED COMPOSITE BALLISTIC ARTICLE

Title (de)  
MEHRSCHICHTIGER BESCHUSSSICHERER VERBUNDARTIKEL

Title (fr)  
ARTICLE BALISTIQUE COMPOSITE MULTI-COUCHES

Publication  
**EP 3328635 A1 20180606 (EN)**

Application  
**EP 16830961 A 20160506**

Priority

- US 201514810360 A 20150727
- US 201514810309 A 20150727
- US 2016031297 W 20160506

Abstract (en)  
[origin: WO2017019144A1] A multi-paneled penetration resistant composite comprises a layered panel configuration that mitigates transmission of impact stress between adjacent, or proximate, penetration resistant composite panels. For example, areas of reduced density, provided by an intermediate stress mitigation panel positioned between adjacent composite panels and varying densities of composite layers within a composite panel, can mitigate transmission of stress between adjacent, or proximate, composite panels. For example, areas of varying density within a multi-layer panel are configured to can mitigate transmission of stress between adjacent, or proximate, composite layers within a panel.

IPC 8 full level  
**B32B 5/02** (2006.01); **B32B 5/26** (2006.01); **B32B 7/022** (2019.01)

CPC (source: EP US)  
**B32B 1/00** (2013.01 - EP); **B32B 3/12** (2013.01 - EP); **B32B 5/024** (2013.01 - EP); **B32B 5/18** (2013.01 - EP); **B32B 5/245** (2013.01 - EP); **B32B 5/26** (2013.01 - EP); **B32B 7/022** (2018.12 - EP US); **B32B 9/005** (2013.01 - EP); **F41H 5/04** (2013.01 - EP); **F41H 5/0428** (2013.01 - EP); **F41H 5/0471** (2013.01 - EP); **B32B 2250/20** (2013.01 - EP); **B32B 2250/40** (2013.01 - EP); **B32B 2255/02** (2013.01 - EP); **B32B 2255/205** (2013.01 - EP); **B32B 2255/26** (2013.01 - EP); **B32B 2260/021** (2013.01 - EP); **B32B 2260/023** (2013.01 - EP); **B32B 2260/04** (2013.01 - EP); **B32B 2262/0253** (2013.01 - EP); **B32B 2262/0261** (2013.01 - EP); **B32B 2262/101** (2013.01 - EP); **B32B 2262/105** (2013.01 - EP); **B32B 2262/106** (2013.01 - EP); **B32B 2264/10** (2013.01 - EP); **B32B 2264/107** (2013.01 - EP); **B32B 2307/72** (2013.01 - EP); **B32B 2307/7265** (2013.01 - EP); **B32B 2307/732** (2013.01 - EP); **B32B 2437/00** (2013.01 - EP); **B32B 2439/00** (2013.01 - EP); **B32B 2471/02** (2013.01 - EP); **B32B 2571/00** (2013.01 - EP); **B32B 2571/02** (2013.01 - EP); **B32B 2607/00** (2013.01 - EP)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2017019144 A1 20170202**; AU 2016301140 A1 20180201; AU 2016301140 B2 20201001; CA 2993507 A1 20170202; EP 3328635 A1 20180606; EP 3328635 A4 20190227; HK 1251521 A1 20190201; JP 2018523083 A 20180816; JP 2021185334 A 20211209; JP 6926062 B2 20210825; MX 2018001086 A 20180523

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**US 2016031297 W 20160506**; AU 2016301140 A 20160506; CA 2993507 A 20160506; EP 16830961 A 20160506; HK 18111037 A 20180828; JP 2018504222 A 20160506; JP 2021127569 A 20210803; MX 2018001086 A 20160506