

Title (en)  
ANTI-BALLISTIC ARTICLE

Title (de)  
ANTIBALLISTISCH WIRKSAMER ARTIKEL

Title (fr)  
ARTICLE ANTI-BALISTIQUE ACTIF

Publication  
**EP 2294256 A1 20110316 (DE)**

Application  
**EP 09765700 A 20090520**

Priority  
• EP 2009056115 W 20090520  
• EP 08156909 A 20080526  
• EP 09765700 A 20090520

Abstract (en)  
[origin: US2009291280A1] An antiballistic article comprising a plurality of fabric layers of fibers with a strength of at least 1100 MPa according to ASTM D-885 is proposed, whereby there are at least two groups of areas with different textile densities within at least one fabric layer. Areas of a first group have a textile density of 8% to 31% according to Walz and areas of a second group have a textile density of 32% to 80% according to Walz.

IPC 8 full level  
**D03D 13/00** (2006.01); **A41D 31/00** (2006.01); **B32B 5/08** (2006.01); **B32B 5/14** (2006.01); **F41H 5/04** (2006.01)

CPC (source: EP KR US)  
**A41D 31/00** (2013.01 - KR); **D03D 1/0052** (2013.01 - EP KR US); **D03D 13/004** (2013.01 - EP KR US); **D03D 13/008** (2013.01 - EP KR US); **D03D 15/00** (2013.01 - KR); **F41H 1/02** (2013.01 - KR); **F41H 5/0485** (2013.01 - EP KR US); **Y10T 428/24992** (2015.01 - EP US); **Y10T 442/3179** (2015.04 - EP US); **Y10T 442/3472** (2015.04 - EP US); **Y10T 442/3528** (2015.04 - EP US); **Y10T 442/3602** (2015.04 - EP US)

Citation (search report)  
See references of WO 2009153120A1

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**US 2009291280 A1 20091126; US 8293665 B2 20121023**; AU 2009259524 A1 20091223; BR PI0913175 A2 20160112; CA 2725996 A1 20091223; CA 2725996 C 20160209; CN 102046863 A 20110504; CN 102046863 B 20130116; CO 6331320 A2 20111020; EP 2294256 A1 20110316; IL 209230 A0 20110131; IL 209230 A 20131128; JP 2011523011 A 20110804; JP 5291188 B2 20130918; KR 20110010615 A 20110201; MX 2010012885 A 20101220; RU 2010153214 A 20120710; RU 2490380 C2 20130820; TW 201000703 A 20100101; TW I487821 B 20150611; WO 2009153120 A1 20091223; ZA 201008101 B 20110727

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**US 45343409 A 20090511**; AU 2009259524 A 20090520; BR PI0913175 A 20090520; CA 2725996 A 20090520; CN 200980119259 A 20090520; CO 10149226 A 20101126; EP 09765700 A 20090520; EP 2009056115 W 20090520; IL 20923010 A 20101110; JP 2011510946 A 20090520; KR 20107026125 A 20090520; MX 2010012885 A 20090520; RU 2010153214 A 20090520; TW 98114163 A 20090429; ZA 201008101 A 20101111