

Title (en)

FABRIC ARCHITECTURES FOR IMPROVED BALLISTIC IMPACT PERFORMANCE

Title (de)

GEWEBEKONSTRUKTIONEN FÜR VERBESSERTE BALLISTISCHE AUFPRALLEISTUNG

Title (fr)

ARCHITECTURES DE TISSU POUR PERFORMANCE AMÉLIORÉE VIS-À-VIS D'UN IMPACT BALISTIQUE

Publication

EP 2238282 A2 20101013 (EN)

Application

EP 08870292 A 20081022

Priority

- US 2008080675 W 20081022
- US 589007 A 20071228

Abstract (en)

[origin: WO2009088551A2] A woven fabric from yarn for use in the manufacture of ballistic projectile or puncture resistant articles where the fabric has a first plurality of parallel oriented yarns within the plane of the fabric interwoven with a second plurality of parallel oriented yarns within the plane of the fabric having a direction/orientation within the plane of the fabric different from that of the first plurality and where the crossing of any fiber yarn from the first plurality with a fiber yarn from the second plurality forms a pair of acute vertical angles having an angular measurement less than 90 degrees.

IPC 8 full level

D03D 1/00 (2006.01); **B32B 5/22** (2006.01); **B32B 5/26** (2006.01); **D03D 13/00** (2006.01); **D03D 15/00** (2006.01)

CPC (source: EP US)

B32B 5/022 (2013.01 - EP US); **B32B 5/024** (2013.01 - EP US); **B32B 5/04** (2013.01 - EP US); **B32B 5/06** (2013.01 - EP US); **B32B 5/12** (2013.01 - EP US); **B32B 5/26** (2013.01 - EP US); **B32B 7/12** (2013.01 - EP US); **B32B 27/12** (2013.01 - EP US); **D03D 1/0052** (2013.01 - EP US); **D03D 13/002** (2013.01 - EP US); **D03D 15/00** (2013.01 - EP US); **D03D 15/267** (2021.01 - EP US); **D03D 15/283** (2021.01 - EP US); **B32B 2262/02** (2013.01 - EP US); **B32B 2262/0253** (2013.01 - EP US); **B32B 2262/0269** (2013.01 - EP US); **B32B 2262/0284** (2013.01 - EP US); **B32B 2262/101** (2013.01 - EP US); **B32B 2262/105** (2013.01 - EP US); **B32B 2262/106** (2013.01 - EP US); **B32B 2262/14** (2013.01 - EP US); **B32B 2307/50** (2013.01 - EP US); **B32B 2307/54** (2013.01 - EP US); **B32B 2307/558** (2013.01 - EP US); **B32B 2307/58** (2013.01 - EP US); **B32B 2307/718** (2013.01 - EP US); **B32B 2307/72** (2013.01 - EP US); **B32B 2571/02** (2013.01 - EP US); **D10B 2101/06** (2013.01 - EP US); **D10B 2101/08** (2013.01 - EP US); **D10B 2101/12** (2013.01 - EP US); **D10B 2201/24** (2013.01 - EP US); **D10B 2321/02** (2013.01 - EP US); **D10B 2321/06** (2013.01 - EP US); **D10B 2321/10** (2013.01 - EP US); **D10B 2331/04** (2013.01 - EP US); **D10B 2501/04** (2013.01 - EP US); **Y10T 442/3179** (2015.04 - EP US)

Citation (search report)

See references of WO 2009088551A2

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)

AL BA MK RS

DOCDB simple family (publication)

WO 2009088551 A2 20090716; **WO 2009088551 A3 20090911**; BR PI0819487 A2 20160823; CA 2710526 A1 20090716; CN 101960062 A 20110126; EP 2238282 A2 20101013; JP 2011508829 A 20110317; US 2010275764 A1 20101104

DOCDB simple family (application)

US 2008080675 W 20081022; BR PI0819487 A 20081022; CA 2710526 A 20081022; CN 200880127612 A 20081022; EP 08870292 A 20081022; JP 2010540684 A 20081022; US 589007 A 20071228