



- (51) International Patent Classification:  
B32B 27/06 (2006.01) B32B 37/02 (2006.01)  
B32B 27/32 (2006.01)
- (21) International Application Number:  
PCT/US2012/068671
- (22) International Filing Date:  
10 December 2012 (10.12.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
61/570,071 13 December 2011 (13.12.2011) US  
13/708,360 7 December 2012 (07.12.2012) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: LAMINATES MADE FROM ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE TAPE

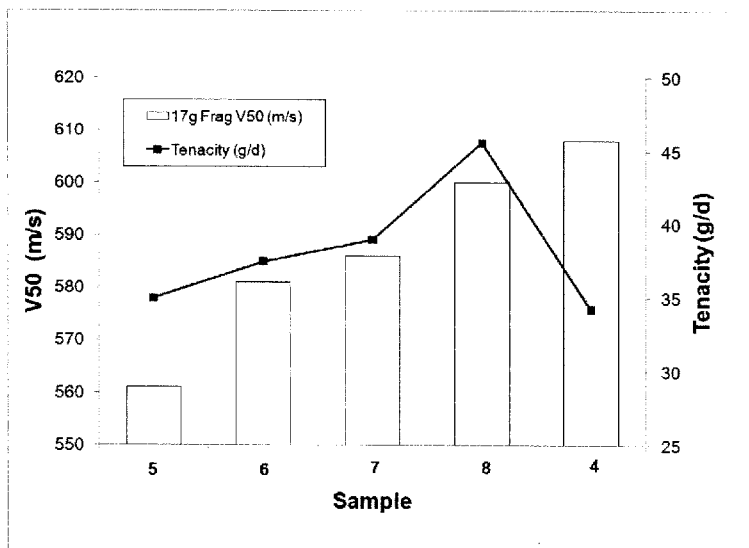


FIG. 1

(57) Abstract: Disclosed are laminates from multiple stacked plies of a uni-directional tape in which the tape formed from a plurality of ultra-high molecular weight polyethylene gel spun, multi-filament yarns. The resultant laminate contains not more than five percent resin by weight. Related methods of making a laminate of this type are also disclosed.





GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

**(88) Date of publication of the international search report:**  
31 October 2013

**Published:**

— *with international search report (Art. 21(3))*

**A. CLASSIFICATION OF SUBJECT MATTER****B32B 27/06(2006.01)i, B32B 27/32(2006.01)i, B32B 37/02(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

B32B 27/06; B32B 9/00; B32B 27/32; B32B 3/06; B29C 43/00; C08F 110/02; B29C 43/22; F41H 5/04; B32B 37/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; keywords: tape, ultra-high molecular weight polyethylene, filament, fiber, laminate, resin, ballistics

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1627719 A1 (FMS ENTERPRISES MIGUN LTD.) 22 February 2006 See abstract; paragraphs [0001],[0014]-[0016],[0019]-[0034],[0042]-[0047]; figs. 1-3.	1-10
A	US 2002-0037391 A1 (HARPELL et al.) 28 March 2002 See abstract; paragraphs [0002],[0011]-[0016],[0034]-[0038]; figs. 1,2.	1-10
A	US 2011-0162517 A1 (BOVENSCHEN et al.) 07 July 2011 See abstract; paragraphs [0001],[0009]-[0012],[0024],[0104]-[0106].	1-10
A	US 2011-0154980 A1 (VAN ELBURG, JOHANN) 30 June 2011 See abstract; paragraphs [0001],[0038]-[0045].	1-10
A	US 2011-0039058 A1 (TAM et al.) 17 February 2011 See abstract; paragraphs [0002],[0016]-[0025].	1-10

 Further documents are listed in the continuation of Box C. See patent family annex.

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"&amp;" document member of the same patent family


Date of the actual completion of the international search

23 August 2013 (23.08.2013)

Date of mailing of the international search report

**26 August 2013 (26.08.2013)**

Name and mailing address of the ISA/KR


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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.  
**PCT/US2012/068671**

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