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(54) Title: HIGH PERFORMANCE LAMINATED TAPES & RELATED PRODUCTS FOR BALLISTIC APPLICATIONS

(57) Abstract: Highly uniform woven fibrous structures formed from fibrous tapes, wherein the tapes constitute the warp and weft tapes of a woven fabric. The individual fibrous tapes may be woven or non-woven, and may be formed as narrow tapes or may be cut from a wider fabric web.



**A. CLASSIFICATION OF SUBJECT MATTER****D03D 15/00(2006.01)i, D04H 3/12(2006.01)i, D04H 3/04(2006.01)i, D03D 1/00(2006.01)i, F41H 1/02(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)

D03D 15/00; D04H 13/00; B32B 27/04; B32B 5/12; D03D 1508; D03D 13/00; F41H 5/04; D04H 3/12; D04H 3/04; D03D 1/00; F41H 1/02

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: ballistic, resistant, fiber, tape, binder, woven fabric.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7964518 B1 (BHATNAGAR, A. et al.) 21 June 2011 See abstract; column 2, line 66 - column 3, line 10; column 4, lines 1-56; claims 1, 9, 10.	1-10
A	US 6642159 B1 (BHATNAGAR, A. et al) 4 November 2003 See abstract; column 4, lines 24-62; column 7, lines 27-35; column 9, line 57- column 10, line 30; figure 1b; claims 1, 5, 7, 8.	1-10
A	US 6841492 B2 (BHATNAGAR, A. et al.) 11 January 2005 See abstract; claim 1.	1-10
A	US 4748064 A (HARPELL, G. A. et al.) 31 May 1988 See abstract; claims 1, 4.	1-10
A	US 2010-0275764 A1 (EGRES, JR., R. G.) 4 November 2010 See abstract; claim 1.	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


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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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