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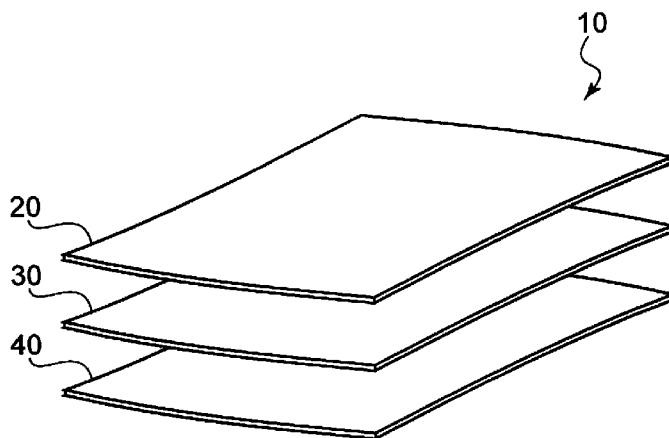


FIG. 1

(57) Abstract: A breathable composite barrier fabric for protective garments includes a high strength nonwoven web, a barrier layer and an aperture film layer, with the barrier layer between the high strength nonwoven web and the film layer. The different layers and webs may be bonded together to form the fabric using calendaring, thermal bonding and/or adhesives. The breathable composite barrier fabric is capable of blocking particles as small as 0.3 microns at greater than 99% efficiency while allowing air transmissions between 7 CFM and 9 CFM at 20 Pa. Protective garments may be constructed using the breathable composite barrier fabrics so that the high strength nonwoven web is on the body side of the garment and the film layer is on the exterior of the garment.



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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

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) & Keywords: breathable, barrier, fabric, nonwoven, film, garment

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 04828556A (BRAUN; RALPH V. et al.) 09 May 1989 See claims 1-70	1-16
A	US 06037281A (MATHIS; MICHAEL PETER et al.) 14 March 2000 See claims 1-21	1-16
A	US 05560974A (LANGLEY; JOHN D.) 01 October 1996 See claims 1-48	1-16
A	US 05855999A (MCCORMACK; ANN LOUISE) 05 January 1999 See claims 1-6	1-16

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

* Special categories of cited documents:

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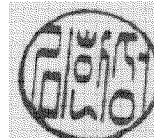
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 04828556A	09.05.1989	None	
US 06037281A	14.03.2000	AU 1998-56187 B2 CN 1241966 A0 EP 0948431 A1 EP 0948431 B1 JP 2001-508370 A KR 10-0531406 B1 WO 98-29247 A1	29.06.2000 19.01.2000 04.06.2003 23.08.2006 26.06.2001 28.11.2005 09.07.1998
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