Title: MULTIL-LOBAL FIBER CONTAINING NONWOVEN MATERIALS AND ARTICLES MADE THEREFROM

Abstract: Nonwoven polymer materials and articles made therefrom. Materials of the invention include at least one nonwoven polymer web with at least one layer of at least about 50% by weight of a multi-lobal fiber. Materials and articles of the invention have improved properties, such as particle retention capacity, acoustic absorption, stiffness, crop color uniformity, and crop yield, when compared with nonwoven polymer materials and articles made with round fiber in place of all of the multi-lobal fiber.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/03745

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) ... H β lpdesk 571-272-4300
USPC - 428/221, 36.1

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)
USPC 428/221, 36.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 428/221, 36.1

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PUBWEST (PGPB.USPT.USOCEPAB.JPAB); DialogPro (General Research), Google Scholar
Nonwoven, fiber, lobal, barrier, polymer, light transmit, crop, agriculture, fruit, vegetable, yield, polyolefin, polyester, color, wipe, retain, lobe, cleanroom, package, stiffness, sound absorption, hertz

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2006/0012072 A1 (HAGEWOOD et al) 19 January 2006 (19.01.2006), abstract, Fig 3A-3D, and 16, para [0004], [0040]-[0042], [0051], [0058]-[0065], [0076], [0141], [0142] and Tables 1-4.</td>
<td>1, 3-6 and 8</td>
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<tr>
<td>Y</td>
<td>US 4,401,454 A (FRITZ et al) 30 August 1983 (30.08.1983), col 14, ln 5-50</td>
<td>2, 7 and 9-33</td>
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<tr>
<td>Y</td>
<td>US 2005/0026527 A1 (SCHMIDT et al) 03 February 2005 (03.02.2005), Fig. 2A, para [0009], [0101] and [0106].</td>
<td>27-33</td>
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</tbody>
</table>

1 1 Further documents are listed in the continuation of Box C.

Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
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"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
10 August 2007 (10.08.2007)

Date of mailing of the international search report
24 SEP 2007

Authorized officer
Lee W Young

For/In PCT/ISA/210 (second sheet) (April 2007)