Title: PROCESS FOR PRODUCING FIBERS AND THEIR USES

Abstract: The present invention is directed to the use and production of fibers from one or more polymers or polymer composites. In one embodiment, the fibers of the present invention are nanofibers. In another embodiment, the fibers of the present invention are polymer nanofibers that further include at least one active agent or additive contained on, in, or about the polymer nanofibers of the present invention. In still another embodiment, the fibers of the present invention can be used to yield carbon and/or ceramic fibers/nanofibers.
before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
21 December 2006
**INTERNATIONAL SEARCH REPORT**

**International application No.**

PCT/US06/14977

A. **CLASSIFICATION OF SUBJECT MATTER**

IPC: B06B 5/00(2006.01), 1/28(2006.01)

USPC: 264/6, 12; 425/7

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)

U.S.: 264/6, 12; 425/7

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

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

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>
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</thead>
<tbody>
<tr>
<td>X</td>
<td>US 6,382,526 B1 (RENEKER et al) 07 May 2002 (07.05.2002), entire document.</td>
<td>1-5</td>
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<td>US 6,520,425 B1 (RENEKER) 18 February 2003 (18.02.2003), entire document.</td>
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<tr>
<td>Y</td>
<td>US 6,753,454 B1 (SMITH et al) 22 June 2004 (22.06.2004), entire document</td>
<td>7,8, 10, 11, 18-20</td>
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</tbody>
</table>

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

See patent family annex.

* Special categories of cited documents:

**A** document defining the general state of the art which is not considered to be of particular relevance

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**&** document member of the same patent family

Date of the actual completion of the international search

15 September 2006 (15.09.2006)

Date of mailing of the international search report

26 OCT 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Mary Lynn F. Thelen

Telephone No. 571-272-1700

Form PCT/ISA/210 (second sheet) (April 2005)