Title: PROCESS FOR OBTAINING A COMPOSITE

Abstract: The process for obtaining a micro- or nano-particulated composite comprises: adding at least two Compounds C to a fluid A, with one of said compounds being insoluble in said fluid A; adding a fluid B, such that said fluid B at working pressure Pw is miscible with said mixture A and acts as a co-solvent to form a solution AB, in which said pressure Pw is greater than atmospheric pressure but lower than the critical pressure Pc of the solution AB, and the working temperature Tw is lower than the critical temperature of the solution AB; and reducing the pressure Pw of said solution AB to atmospheric pressure, so that there occurs an increase of supersaturation that is ideally homogeneous throughout the solution AB and causes precipitation of the Compounds C. It also relates to the composite obtained.

---

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
25 January 2007 (25.01.2007)

(10) International Publication Number
WO 2007/009986 A3

(51) International Patent Classification:
A61K 9/14 (2006.01) A61H 9/00 (2006.01)

(21) International Application Number:
PCT/EP2006/064361

(22) International Filing Date:
18 July 2006 (18.07.2006)

(25) Filing Language:
English

(26) Publication Language:
English

(30) Priority Data:
60/716,113 12 September 2005 (12.09.2005) US


(72) Inventors; and

(75) Inventors/Applicants (for US only): VENTOSA RULL, Nora [ES/ES]; INSTITUT DE CIENCIA DE MATERIALES DE BARCELONA (CSIC), Campus De La Uab, E-08193 Bellaterra (ES). VECIANA MIRO,


(84) Designated States (unless otherwise indicated, for every kind of regional protection available): EPC (A1), ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, TG, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

Declarations under Rule 4.17:
— as to the identity of the inventor (Rule 4.17(i))
— as to applicant’s entitlement to apply for and be granted a patent (Rule 4.17(ii))
— as to the applicant’s entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 5 April 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2006/064361

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K9/14 A61H9/00

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)
A61K

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

Electronic database consulted during the international search (name of database and, where practical, search terms used)
EPO-Internal, WPI Data, EMBASE

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>WO 2004/056443 A (GLAXO GROUP LTD [GB]; COOPER SIMON MURRAY [GB]; MERRIFIELD DAVID ROY []) 8 July 2004 (2004-07-08) the whole document</td>
<td>1-36</td>
</tr>
</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

*E*: earlier document but published on or after the international filing date

*L*: document which may throw doubts on novelty claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

*O*: document referring to an oral disclosure, use, exhibition or other means

*P*: document published prior to the international filing date but later than the priority date claimed

"**": later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"*X": document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"*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.

"*S": document member of the same patent family

Date of the actual completion of the international search
1 February 2007

Date of mailing of the international search report
12/02/2007

Name and mailing address of the ISA/
European Patent Office, P.B. 5818 Patentlaan 2
NL – 2280 HV Rijswijk
Tel: (+31-70) 340-2040, Tlx: 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer
Felder, Christian
<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>
</table>
the whole document | 1-36 |
the whole document | 1-36 |
| E        | WO 2006/079889 A (ES DE CARBUROS METALICOS S A S [ES]; VENTOSA NORA [ES]; VECIANA JAUME) 3 August 2006 (2006-08-03)  
the whole document | 1-36 |
the whole document | 1-36 |
the whole document | 1-36 |
<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
</tr>
</thead>
<tbody>
<tr>
<td>WO 2004056443 A</td>
<td>08-07-2004</td>
<td>AU 2003292258 A1</td>
<td>14-07-2004</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EP 1572315 A1</td>
<td>14-09-2005</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JP 2006510480 T</td>
<td>30-03-2006</td>
</tr>
<tr>
<td></td>
<td></td>
<td>US 2006153757 A1</td>
<td>13-07-2006</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA 2426449 A1</td>
<td>28-02-2002</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WO 0216003 A1</td>
<td>28-02-2002</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ES 2170008 A1</td>
<td>16-07-2002</td>
</tr>
<tr>
<td>WO 9965469 A2</td>
<td>23-12-1999</td>
<td>AT 233549 T</td>
<td>15-03-2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AU 755993 B2</td>
<td>02-01-2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AU 4693899 A</td>
<td>05-01-2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA 2335472 A1</td>
<td>23-12-1999</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CN 1312708 A</td>
<td>12-09-2001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 69905716 D1</td>
<td>10-04-2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DE 69905716 T2</td>
<td>05-02-2004</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EP 1089714 A2</td>
<td>11-04-2001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ES 2194477 T3</td>
<td>16-11-2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JP 2002518318 T</td>
<td>25-06-2002</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SE 521255 C2</td>
<td>14-10-2003</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SE 0004620 A</td>
<td>08-02-2001</td>
</tr>
<tr>
<td>WO 2006079889 A</td>
<td>03-08-2006</td>
<td>CA 2566960 A1</td>
<td>03-08-2006</td>
</tr>
</tbody>
</table>