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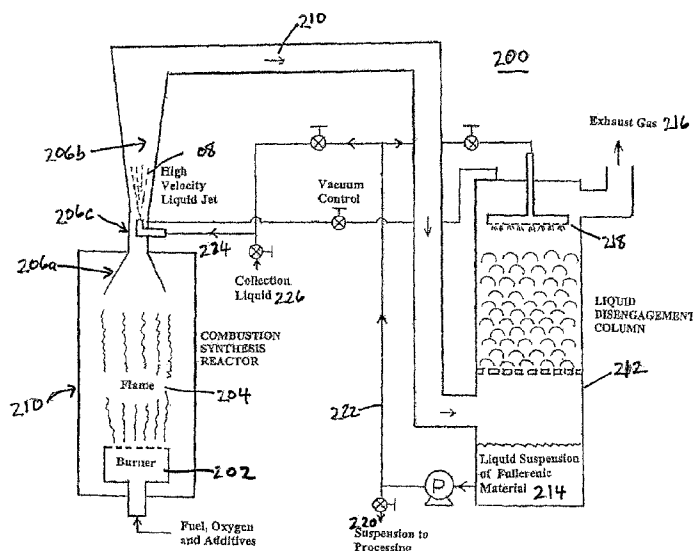
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(54) Title: DIRECT LIQUID-PHASE COLLECTION AND PROCESSING OF FULLERENIC MATERIALS

Schematic Illustration of an Example of Direct-Liquid Collection of Fullerene Material from a Synthesis Reactor



(57) Abstract: An in-situ method and system of collecting, in a liquid, non-agglomerated fullerene material from a gaseous suspension is provided. The method and system collects non-agglomerated fullerene material by contacting a gaseous suspension comprising fullerene material with a suspension liquid, so as to capture the fullerene material in the suspension liquid; and collecting the liquid suspension as a suspension liquid containing the fullerene material. This method and system may be particularly useful for collecting fullerenes or nanotubes and maintaining them in solution in non-agglomerated states.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/77465

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B82B 3/00 (2007.10)

USPC - 977/845, 842

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-977/845, 842

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)
WEST:terms-IPC(8)-B82B 3/00 (2007.10); USPC-977/845, 842; fullerene, liquid extraction, gas extraction, gas-liquid extraction, liquid disengagement column
Google: terms-fullerene, liquid extraction, gas extraction, gas-liquid extraction, liquid disengagement column

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X		1-8, 10-11, 16, 19-21
Y	US 5,985,232 A (HOWARD et al.) 16 November 1999 (16.11.1999), especially col 2, ln 21-25, 54-59; col 5, ln 26-38; col 6, ln 42-45; col 7, ln 47-51, 59-62; col 8, ln 66-67.	9, 12-15, 17-18, 22-34
Y	US 2003/0044341 A1 (ALFORD et al.) 06 March 2003 (06.03.2003), especially para [0013], [0059].	9, 12-15, 17-18, 22-34
Y	BRITZ et al. "Noncovalent interactions of molecules with single walled carbon nanotubes", 23 March 2006 (23.03.2006), Chem. Soc Rev., vol 35, pp 637-659, especially p 643, 3.2. Solution phase.	13
Y	WO 2003/050040 A1 (DIENER et al.) 19 June 2003 (19.06.2003), especially Abstract; p 10, para 2; p 12, para 2; p 17, para 2.	17-18, 23-34
Y	US 3,493,595 A (STRASSNER et al.) 03 February 1970 (03.02.1970), especially col 3, ln 55-65.	22
Y	WO 2002/072510 A1 (ROGGEMAN et al.) 19 September 2002 (19.09.2002), especially Abstract; p 4.	29-34

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