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(74) Agent: DANA PATENT LAW FIRM; 5th Floor BYC Bldg., 648-1, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

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(71) Applicant (for all designated States except US): KCC CORPORATION [KR/KR]; 1301-4, Seocho-dong, Seocho-gu, Seoul 137-070 (KR).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): KANG, Kyung Hoon [KR/KR]; 249-1602, Ssangyong Apt., Hwanggol Maeul, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-470 (KR). KIM, Yoon Jun [KR/KR]; 738-1903, Best Town, Bidan Maeul, 511, Cheoncheon-dong, Jangan-gu, Suwon-si, Gyeonggi-do 440-330 (KR). HUR, Kyong Bok [KR/KR]; 2-312, Taepyeong Apt., Gyesan 3-dong, Gyeyang-gu, Incheon 407-053 (KR). JUN, Moon Gue [KR/KR]; 355-3, Yanggeun 2-ri, Yangpyeong-eup, Yangpyeong-gun, Gyeonggi-do 476-805 (KR).

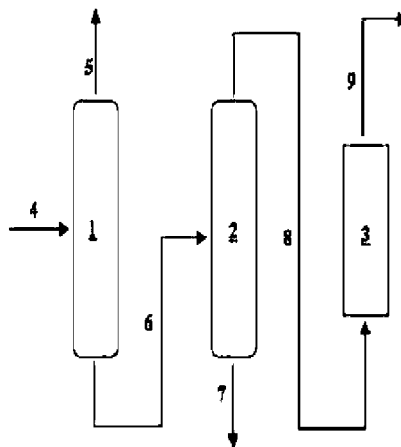
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(54) Title: PROCESS FOR PURIFICATION OF MONOSILANE

[Fig. 1]



(57) Abstract: Provided is a method of purifying monosilane. More particularly, the method includes removing impurities from a crude material containing monosilane and ethylene by fractional distillation (operation 1), and removing ethylene and residual impurities by passing the crude material purified in operation 1 through activated carbon (operation 2). According to the method, high-purity monosilane may be more simply and effectively obtained without additional production of byproducts by selectively adsorbing ethylene, which is difficult to separate by fractional distillation, using an activated carbon.

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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/KR2010/007838****A. CLASSIFICATION OF SUBJECT MATTER***C01B 33/04(2006.01)i, C01B 33/039(2006.01)i*

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)

C01B 33/04; C07C 29/12; C01B 33/12; C01B 33/107

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) &amp; Keywords: purification, activated carbon, pore diameter, monosilane, ethylene, impurity

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 04676967A A (WILLIAM C. BRENEMAN) 30 June 1987 See column 6, line 55 - column 7, line 7; column 12, line 18-31	1-10
A	US 06103942A A (Y. SIMON TSUO et al.) 15 August 2000 See abstract, example 1	1-10
A	US 2004-0184980 A1 (HITOSHI ATOBE et al.) 23 September 2004 See claims 19-20	1-10
A	JP 62-070217 A (SHIN ETSU CHEM. CO., LTD.) 31 March 1987 See claims 1-4	1-10

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

\* Special categories of cited documents:

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Date of the actual completion of the international search

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Korean Intellectual Property Office  
Government Complex-Daejeon, 189 Cheongsu-ro,  
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Facsimile No. 82-42-472-7140

Authorized officer

LEE, Young Wan

Telephone No. 82-42-481-5560



**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 04676967A A	30.06.1987	JP 58-217422 A JP 63-000367 B JP 63-079718 A	17.12.1983 06.01.1988 09.04.1988
US 06103942A A	15.08.2000	None	
US 2004-0184980 A1	23.09.2004	CN 100478276 C CN 1527796 A CN 1527796 C0 EP 1406837 A1 EP 1406837 B1 JP 03-909385 B2 JP 2003-095636 A KR 10-0636659 B1 US 7074377 B2 WO 03-006374 A1	15.04.2009 08.09.2004 08.09.2004 14.04.2004 05.05.2010 25.04.2007 03.04.2003 19.10.2006 11.07.2006 23.01.2003
JP 62-070217 A	31.03.1987	None	