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(71) Applicant (for all designated States except US): **SUD-CHEMIE INC.** [—/US]; 1600 West Hill Street, Louisville, KY 40210 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RATNASAMY, Chandra** [BE/US]; 558 Sunset Road, Louisville, KY 40206 (US). **WAGNER, Jon, P.** [US/US]; 9906 Wynclyff Court, Louisville, KY 40241 (US). **SPIVEY, R., Steve** [US/US]; 9315 Alex Court, Louisville, KY 40299 (US). **ANFANG, Hans-georg** [DE/DE]; Lindenstrasse 10, DE-83620 Vagen (DE).

(74) Agent: **COX, Scott, R.**; Lynch, Cox, Gilman & Goodman, PSC, 500 West Jefferson Street, Suite 2100, Louisville, KY 40202 (US).

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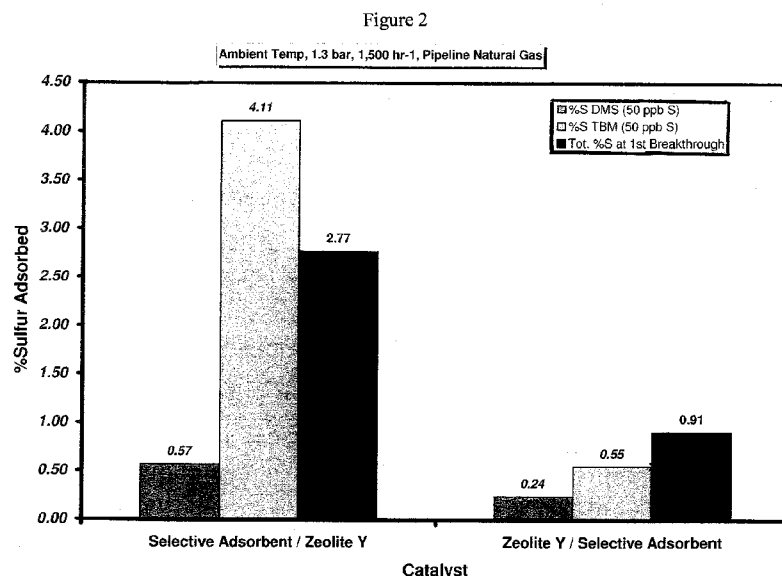
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(54) Title: A DESULFURIZATION SYSTEM AND METHOD FOR DESULFURIZING A FUEL STREAM



(57) Abstract: A method for producing a substantially desulfurized hydrocarbon fuel stream at temperatures less than 100°C. The method includes providing a nondesulfurized fuel cell hydrocarbon fuel stream that may include water and passing the fuel stream through a zeolite Y adsorbent and a selective sulfur adsorbent. The zeolite Y adsorbent may be exchanged with copper ions. The sequence of use depends on the particular sulfur compounds present in the fuel stream. The method produces a substantially desulfurized hydrocarbon fuel stream containing less than 50 ppb sulfur.



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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

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)

B01D

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CA 2 683 630 A1 (NIPPON OIL CORP [JP]) 11 December 2008 (2008-12-11) page 6, last paragraph - page 7, paragraph first page 13, last paragraph page 15, lines 6-13; claims 5,6 -----	1-15
X	US 2007/196258 A1 (LEE DOO-HWAN [KR] ET AL) 23 August 2007 (2007-08-23) claims 1,13,22; example 3 -----	1,7,10, 11,14,15
X	JP 2003 020489 A (TOKYO GAS CO LTD) 24 January 2003 (2003-01-24) claims -----	1-3,7, 12-15
A	US 2006/283780 A1 (SPIVEY R S [US] ET AL) 21 December 2006 (2006-12-21) the whole document -----	1-15



Further documents are listed in the continuation of Box C.



See patent family annex.

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European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Gruber, Marco

INTERNATIONAL SEARCH REPORT

Information on patent family members

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