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12/271,861 15 November 2008 (15.11.2008) US(71) Applicant (for all designated States except US): **UOP LLC** [US/US]; 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HAIZMANN, Robert S.** [US/US]; UOP LLC, 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US). **BAUER, Lorenz J.** [US/US]; UOP LLC, 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US). **SERBAN, Manuela** [US/US]; UOP LLC, 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US). **MCGEHEE, James F.** [US/US]; UOP LLC, 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US).(74) Common Representative: **UOP LLC**; 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

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(54) Title: INTEGRATED SOLVENT DEASPHALTING AND SLURRY HYDROCRACKING PROCESS

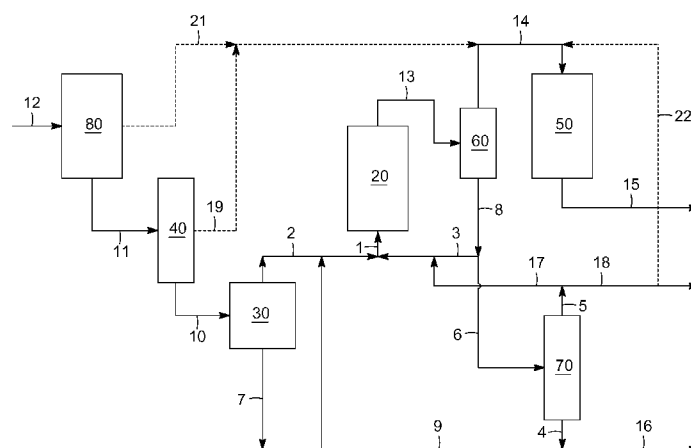


Fig. 1

(57) Abstract: Integrated slurry hydrocracking (SHC) and coking methods for making slurry hydrocracking (SHC) distillates are disclosed. Representative methods involve passing a slurry comprising a deasphalted oil (DAO) produced in a solvent deasphalting (SDA) process, optionally with recycled SHC gas oil and recycled SHC pitch, and a solid particulate through an SHC reaction zone in the presence of hydrogen to obtain the SHC distillate. Recovery and recycle of SHC gas oil and pitch from the SHC effluent improves the overall conversion to naphtha and distillate products and decreases catalyst requirements.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/059606**A. CLASSIFICATION OF SUBJECT MATTER*****C10G 69/02(2006.01)i, C10G 45/02(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)

C10G 69/02; C10C 3/06; C10G 65/02; C10G 67/04

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

(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) & Keywords: DAO, DEASPHALTED OIL, SHC, slurry hydrocracking

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006-0118463 A1 (JAMES COLYAR et al.) 08 June 2006 See the abstract, fig. 1, Paragraph [33] ~ Paragraph [91], whole claims	1-3
Y	See the abstract, fig. 1, Paragraph [33] ~ Paragraph [91], whole claims	4-10
Y	US 2006-0175229 A1 (MONTANARI et al.) 10 August 2006 See the abstract, fig. 1, Paragraph [18] ~ Paragraph [105]	4-10
A	See the abstract, fig. 1, Paragraph [18] ~ Paragraph [105]	1-3
A	US 2008-0210597 A1 (YOO IK SANG et al.) 04 September 2008 See the whole document	1-10



Further documents are listed in the continuation of Box C.



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Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
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Authorized officer

JO Soo Ik

Telephone No. 82-42-481-5893



INTERNATIONAL SEARCH REPORT

Information on patent family members

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