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(71) Applicants: **SAUDI ARABIAN OIL COMPANY** [SA/SA]; Box 5000, Dhahran, 31311 (SA). **ARAMCO SERVICES COMPANY** [US/US]; 9009 West Loop South, Houston, TX 77096 (US).

(72) Inventors; and

(71) Applicants (for US only): **BOURANE, Abdennour** [FR/SA]; P.O. Box 1634, Saudi Aramco, Ras Tanura, 31311 (SA). **SHAFI, Raheel** [GB/SA]; P.O. Box 8925, Saudi Aramco, Dhahran, 31311 (SA). **SAYED, Essam** [SA/SA]; P.O. Box 12474, Saudi Aramco, Dhahran, 31311 (SA). **ABBA, Ibrahim, A.** [CA/SA]; P.O. Box 14043, Saudi Aramco, Dhahran, 31311 (SA). **AKHRAS, Abdul**

Rahman, Zafer [FR/SA]; P.O. box 11217, Saudi Aramco, Dhahran, 31311 (SA).

(74) Agent: **CRISPINO, Ralph, J.**; Abelman, Frayne & Schwab, 666 Third Avenue, New York, NY 10017-5621 (US).

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(54) Title: INTEGRATED SOLVENT DEASPHALTING AND STEAM PYROLYSIS PROCESS FOR DIRECT PROCESSING OF A CRUDE OIL

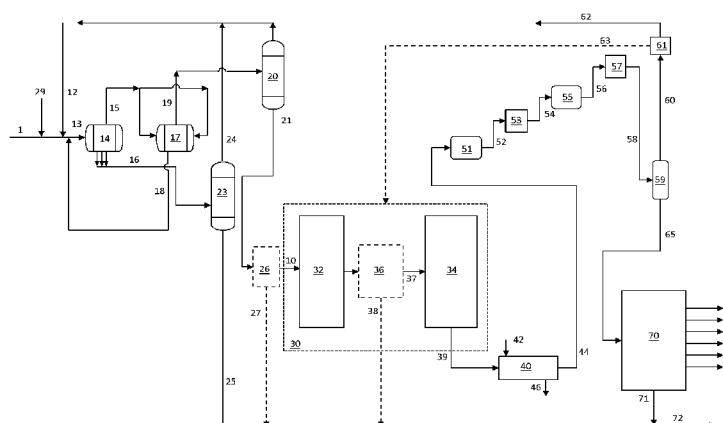


FIG. 1

(57) Abstract: A process is provided that is directed to a steam pyrolysis zone integrated with a solvent deasphalting zone to permit direct processing of crude oil feedstocks to produce petrochemicals including olefins and aromatics. The integrated solvent deasphalting and steam pyrolysis process for the direct processing of a crude oil to produce olefinic and aromatic petrochemicals comprises charging the crude oil to a solvent deasphalting zone with an effective amount of solvent to produce a deasphalted and demetalized oil stream and a bottom asphalt phase; thermally cracking the deasphalted and demetalized oil stream in the presence of steam to produce a mixed product stream; separating the mixed product stream; recovering olefins and aromatics from the separated mixed product stream; and recovering pyrolysis fuel oil from the separated mixed product stream.



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