

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

Title (de)  
DEASPHALTIERUNGS- UND DAMPPYROLYSEVERFAHREN MIT INTEGRIERTEM LÖSUNGSMITTEL ZUR DIREKTVERARBEITUNG VON ROHÖL

Title (fr)  
PROCÉDÉ INTÉGRÉ DE DÉSASPHALTAGE AU SOLVANT ET DE PYROLYSE À LA VAPEUR POUR LE TRAITEMENT DIRECT DE PÉTROLE BRUT

Publication  
**EP 2807234 B1 20210317 (EN)**

Application  
**EP 13705296 A 20130127**

Priority  
• US 201261591783 P 20120127  
• US 2013023333 W 20130127

Abstract (en)  
[origin: US2013197289A1] 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.

IPC 8 full level  
**C10G 67/04** (2006.01); **B01D 17/02** (2006.01); **B01D 19/00** (2006.01); **B01D 45/12** (2006.01); **B01D 53/24** (2006.01); **C10G 9/16** (2006.01); **C10G 21/00** (2006.01); **C10G 47/22** (2006.01); **C10G 47/34** (2006.01); **C10G 55/04** (2006.01)

CPC (source: EP US)  
**C10G 9/16** (2013.01 - EP US); **C10G 21/003** (2013.01 - EP US); **C10G 47/22** (2013.01 - EP US); **C10G 47/34** (2013.01 - EP US); **C10G 55/04** (2013.01 - EP US); **C10G 67/04** (2013.01 - EP US); **C10G 67/049** (2013.01 - EP US)

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