

Title (en)
ASPHALT SEPARATION AND HEAVY OIL EXTRACTION/TREATMENT

Publication
EP 0173574 A3 19861001 (EN)

Application
EP 85306158 A 19850830

Priority
• GB 8422101 A 19840831
• GB 8424554 A 19840928

Abstract (en)
[origin: EP0173574A2] The removal of asphalt from heavy oil is accomplished by delivering the heavy oil, mixed with pentane, to the interior of a drum (10) provided with screw flights (38). The asphalt precipitates and rotation of the drum effects separation by progressive decantation. Delivery of washing solvent (at 52) and steam (at 54) to different regions of the drum (10) leads to discharge of asphalt which is well separated from traces of the crude oil. The process is advantageously utilised in connection with enhanced oil recovery. Coal and limestone area added (at 58, 60) to the discharged asphalt and briquetted (at 68) to a solid fuel used to provide process heat for enhanced oil recovery operations with an advantageous financial economy.

IPC 1-7
C10G 21/00; C10L 5/16; C10L 5/06

IPC 8 full level
C10G 21/00 (2006.01); **C10L 5/16** (2006.01)

CPC (source: EP)
C10G 21/003 (2013.01); **C10L 5/16** (2013.01)

Citation (search report)
• [Y] FR 1088324 A 19550307 - RAFFINAGE CIE FRANCAISE
• [YD] US 4226601 A 19801007 - SMITH ROBERT H
• [AP] FR 2552445 A1 19850329 - LABOFINA SA [BE]
• [AD] US 4098648 A 19780704 - KRAEMER PHILIPP, et al

Cited by
US8518243B2; WO2006039714A1; TWI497024B

Designated contracting state (EPC)
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