

Title (en)
Residual oil fluid catalytic cracking process

Title (de)
Fluidkatalytisches Crackverfahren von Rückstandsöl

Title (fr)
Procédé de craquage catalytique fluidisé d'huile résiduelle

Publication
EP 1050572 A3 20010606 (EN)

Application
EP 00610042 A 20000426

Priority
US 30532299 A 19990505

Abstract (en)
[origin: EP1050572A2] A process for converting higher molecular weight hydrocarbons to lower molecular weight hydrocarbons, which process includes the steps of (a) introducing a hydrocarbon feedstock selected from the group consisting of gas oils, residual oils and combinations thereof into a first cracking reactor to contact therein a fluidized cracking catalyst under cracking conditions effective to convert the feedstocks into lower molecular weight products, (b) withdrawing from the first reactor a product stream containing a light fraction composed of a distillate and lighter hydrocarbons and a heavy fraction composed of hydrocarbons boiling above the boiling point of the distillate hydrocarbons and containing aromatic hydrocarbons; (c) separating the lighter product fraction and the heavy product fraction, (d) introducing at least a portion of the resulting separated heavy product fraction into a hydrotreating reactor to contact therein a hydrotreating catalyst under conditions effective to saturate or partially saturate the aromatic hydrocarbons in the heavy fraction so as to produce a hydrotreated product, and (e) introducing at least a portion of the hydrotreated product into a cracking reactor to contact therein a fluidized cracking catalyst under cracking conditions effective to convert the hydrotreated product into lower molecular weight products.

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C10G 69/04

IPC 8 full level
C10G 11/18 (2006.01); **C10G 7/00** (2006.01); **C10G 45/46** (2006.01); **C10G 67/02** (2006.01); **C10G 69/04** (2006.01)

CPC (source: EP)
C10G 69/04 (2013.01)

Citation (search report)
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• [X] US 3755141 A 19730828 - YOUNGBLOOD D, et al
• [A] US 5152883 A 19921006 - MELIN MICHEL [BE], et al
• [A] US 4388175 A 19830614 - LIONETTI THOMAS A, et al
• [A] US 3489673 A 19700113 - STINE LAURENCE O, et al
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