

Title (en)

Process and apparatus for feed contacting with immediate catalyst separation

Title (de)

Verfahren und Apparat zum Zusammenbringen von Einsatz mit sofortiger Trennung von Katalysator

Title (fr)

Procédé et appareillage pour contacter la charge avec séparation immédiat du catalyseur

Publication

**EP 1146106 A1 20011017 (EN)**

Application

**EP 00303093 A 20000412**

Priority

EP 00303093 A 20000412

Abstract (en)

A particular arrangement of an FCC unit creates an immediate and sustained gravity separation of catalyst and hydrocarbon vapors in short contact time cracking operation. A transverse feed contactor ejects the mixture of catalyst and hydrocarbon vapors transversely into a central portion of a separation vessel for vertical disengagement of catalyst from vapors. The vapors travel upwardly in the vessel into an inertial separator that quickly segregates entrained catalyst from the hydrocarbon vapors and collects separated catalyst at a higher elevation for stripping of adsorbed hydrocarbons from the catalyst. <IMAGE>

IPC 1-7

**C10G 11/18**

IPC 8 full level

**C10G 11/18** (2006.01)

CPC (source: EP)

**C10G 11/18** (2013.01)

Citation (search report)

- [E] US 6063263 A 20000516 - PALMAS PAOLO [US]
- [DA] US 4435272 A 19840306 - BARTHOLIC DAVID B [US], et al
- [DA] US 4944845 A 19900731 - BARTHOLIC DAVID B [US]
- [DA] US 2935466 A 19600503 - SCHOENMAKERS PIETER J
- [A] EP 0315179 A1 19890510 - BARTHOLIC DAVID B
- [DA] US 5462652 A 19951031 - WEGERER DAVID A [US]
- [A] GB 767312 A 19570130 - EXXON RESEARCH ENGINEERING CO

Cited by

US7601304B1

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**EP 1146106 A1 20011017; EP 1146106 B1 20051019**; AT E307180 T1 20051115; DE 60023267 D1 20051124; DE 60023267 T2 20060713; ES 2246808 T3 20060301

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