

Title (en)

Slurry hydrotreating process.

Title (de)

Suspensionshydrierungsverfahren.

Title (fr)

Procédé d'hydrotraitement en suspension.

Publication

EP 0420652 A1 19910403 (EN)

Application

EP 90310611 A 19900927

Priority

US 41416689 A 19890928

Abstract (en)

A slurry hydrotreating process is described in which a hydrotreating catalyst of small particle size is contacted with a heavy fossil fuel. High catalyst activity is maintained by circulating the catalyst between a hydrotreating zone and a reactivating zone where the catalyst is hydrogen-stripped.

IPC 1-7

C10G 45/46

IPC 8 full level

B01J 27/049 (2006.01); **B01J 27/051** (2006.01); **C10G 45/46** (2006.01); **C10G 45/50** (2006.01); **C10G 45/56** (2006.01); **C10G 65/08** (2006.01)

CPC (source: EP)

C10G 45/46 (2013.01); **C10G 45/56** (2013.01)

Citation (search report)

- [A] DE 3629631 A1 19880303 - BASF AG [DE]
- [A] US 3812028 A 19740521 - WENNERBERG A, et al
- [A] US 2649419 A 19530818 - JOHNSON HERBERT L, et al
- [A] US 4610779 A 19860909 - MARKLEY GERALD E [US], et al

Cited by

US11624030B2; US11981869B2; US11499104B2; US11427782B2; US11655422B2; EP3824053B1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0420652 A1 19910403; CA 2025220 A1 19910329; JP H03131685 A 19910605

DOCDB simple family (application)

EP 90310611 A 19900927; CA 2025220 A 19900912; JP 26031090 A 19900928