

Title (en)

TWO-STEP METHOD FOR MIDDLE DISTILLATE HYDROTREATMENT COMPRISING TWO HYDROGEN RECYCLING LOOPS

Title (de)

ZWEISTUFIGES VERFAHREN ZUR HYDRIERBEHANDLUNG VON MITTELDESTILLATEN MIT ZWEI WASSERSTOFFRÜCKFÜHRUNGSSCHLEIFEN

Title (fr)

PROCEDE D'HYDROTRAITEMENT DE DISTILLATS MOYENS EN DEUX ETAPES COMPRENANT DEUX BOUCLES DE RECYCLAGE D'HYDROGENE

Publication

EP 1451269 B1 20070815 (FR)

Application

EP 01274749 A 20011122

Priority

FR 0103685 W 20011122

Abstract (en)

[origin: WO03044132A1] The invention concerns a method for hydrotreating of a hydrocarbon feedstock, comprising at least two steps with intermediate stripping of the effluent of the first step with pressurized hydrogen substantially free of unwanted impurities for the second step catalyst, to eliminate in particular part of the H₂S formed, each step being performed with a hydrogen recycling loop particular to said step.

IPC 8 full level

C10G 65/04 (2006.01); **C10G 65/08** (2006.01); **C10G 45/10** (2006.01); **C10G 45/52** (2006.01); **C10G 67/02** (2006.01)

CPC (source: EP KR US)

C10G 65/08 (2013.01 - EP KR US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03044132 A1 20030530; AT E370213 T1 20070915; AU 2002222019 A1 20030610; DE 60130045 D1 20070927; DE 60130045 T2 20071122; EP 1451269 A1 20040901; EP 1451269 B1 20070815; ES 2292537 T3 20080316; JP 2005509728 A 20050414; KR 100813773 B1 20080313; KR 20040096494 A 20041116; US 2005167334 A1 20050804; US 7384540 B2 20080610

DOCDB simple family (application)

FR 0103685 W 20011122; AT 01274749 T 20011122; AU 2002222019 A 20011122; DE 60130045 T 20011122; EP 01274749 A 20011122; ES 01274749 T 20011122; JP 2003545758 A 20011122; KR 20047007845 A 20011122; US 49656804 A 20041122