

Title (en)

DESULFURIZATION OF OLEFINIC GASOLINE WITH A DUAL FUNCTIONAL CATALYST AT LOW PRESSURE

Title (de)

ENTSCHWEFELUNG VON OLEFINISCHEM BENZIN MIT DOPPELFUNKTIONSKATALYSATOR BEI NIEDRIGEM DRUCK

Title (fr)

DESULFURATION D'ESSENCE OLEFINIQUE AVEC CATALYSEUR FONCTIONNEL DOUBLE A BASSE PRESSION

Publication

EP 1047753 A1 20001102 (EN)

Application

EP 99958671 A 19991025

Priority

- US 9924976 W 19991025
- US 19268398 A 19981116

Abstract (en)

[origin: WO0029509A1] A dual functional catalyst is used to produce low sulfur gasoline from olefinic naphthas at relatively low pressure with minimal loss in road octane number. The dual functional catalyst uses a Group VI and/or a Group VIII metal on a suitable substrate for hydrodesulfurization and a zeolite for cracking. One such combination is a Cobalt Molybdenum/ZSM-5 catalyst. At low pressure, the catalytic reaction favors olefin cracking instead of olefin saturation from metals to improve product yields and enhance the octane number.

IPC 1-7

C10G 45/00; **C10G 45/04**; **C10G 45/06**; **C10G 45/08**; **C10G 45/12**

IPC 8 full level

B01J 29/076 (2006.01); **B01J 29/48** (2006.01); **C10G 45/08** (2006.01); **C10G 45/12** (2006.01)

CPC (source: EP)

B01J 29/076 (2013.01); **C10G 45/12** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0029509 A1 20000525; EP 1047753 A1 20001102; EP 1047753 A4 20020417; JP 2002530468 A 20020917

DOCDB simple family (application)

US 9924976 W 19991025; EP 99958671 A 19991025; JP 2000582496 A 19991025