

Title (en)

PROCESS AND CATALYSTS FOR THE OPENING OF NAPHTHENE RINGS

Title (de)

VERFAHREN UND KATALYSATOREN ZUR ÖFFNUNG VON NAPHTHENRINGEN

Title (fr)

PROCEDE ET CATALYSEURS DESTINES A L'OUVERTURE DE CYCLES DE NAPHTALENE

Publication

EP 1737935 A1 20070103 (EN)

Application

EP 05733114 A 20050419

Priority

- EP 2005004157 W 20050419
- IT MI20040798 A 20040423

Abstract (en)

[origin: WO2005103207A1] A process is described for the upgrading of distillates having a boiling point ranging from 100 to 450°C, which comprises the opening of the ring of the naphthene compounds contained in these distillates to obtain paraffinic compounds, rich in branched paraffins, having for the most part the same number of carbon atoms as the starting naphthene. The process is carried out in the presence of a bifunctional catalytic system comprising one or more metals selected from Pt, Pd, Ir, Ru, Rh and Re, and a silicoaluminate of an acidic nature, selected from a microporous silico-alumina and a zeolite belonging to the MTW group.

IPC 8 full level

C10G 45/64 (2006.01); **B01J 21/12** (2006.01); **B01J 23/36** (2006.01); **B01J 23/40** (2006.01); **B01J 23/42** (2006.01); **B01J 23/44** (2006.01); **B01J 23/46** (2006.01); **B01J 23/656** (2006.01); **B01J 29/04** (2006.01); **B01J 29/70** (2006.01); **B01J 29/74** (2006.01); **B01J 35/10** (2006.01); **C10G 45/62** (2006.01)

CPC (source: EP US)

B01J 23/42 (2013.01 - EP US); **B01J 23/468** (2013.01 - EP US); **B01J 29/043** (2013.01 - EP US); **B01J 29/7469** (2013.01 - EP US); **B01J 29/7869** (2013.01 - EP US); **C10G 45/62** (2013.01 - EP US); **C10G 45/64** (2013.01 - EP US)

Citation (search report)

See references of WO 2005103207A1

Citation (examination)

US 2002050466 A1 20020502 - BAIRD WILLIAM C [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005103207 A1 20051103; BR PI0509983 A 20071016; CA 2562492 A1 20051103; EP 1737935 A1 20070103; IT MI20040798 A1 20040723; JP 2007533807 A 20071122; MX PA06012223 A 20070412; US 2008035529 A1 20080214

DOCDB simple family (application)

EP 2005004157 W 20050419; BR PI0509983 A 20050419; CA 2562492 A 20050419; EP 05733114 A 20050419; IT MI20040798 A 20040423; JP 2007508822 A 20050419; MX PA06012223 A 20050419; US 58721407 A 20070622