

Title (en)

Production of fuel components

Title (de)

Herstellung von Kraftstoffkomponenten

Title (fr)

Préparation de composants de carburant

Publication

EP 1640437 A1 20060329 (EN)

Application

EP 05396013 A 20050405

Priority

- US 63931204 P 20041228
- US 95329304 A 20040928

Abstract (en)

A process for producing alkyl ethers, by etherification of tertiary C 4-7 olefins with an alkanol, comprising carrying out the etherification in reactor train system primarily configured for dimerization of isoolefins. In the etherification, the ratio of alkanol-to-olefin is 0.5 to 2, calculated from the amount of tertiary C 4-7 olefins of the fresh feedstock. The invention makes it possible to change the product of the process from dimer to ether and vice versa merely by adjusting specific flows within the process. The present kind of process is therefore readily adaptable to fluctuating market demands for various gasoline octane-boosters (isooctane or MTBE).

IPC 8 full level

C10L 1/02 (2006.01); **C07C 2/08** (2006.01); **C07C 2/28** (2006.01); **C07C 41/06** (2006.01); **C10G 50/00** (2006.01)

CPC (source: EP)

C10L 1/023 (2013.01)

Citation (search report)

- [XDY] EP 0994088 A1 20000419 - FORTUM OIL & GAS OY [FI]
- [X] US 3979461 A 19760907 - ANCILLOTTI FRANCESCO, et al
- [XY] EP 0590632 A1 19940406 - PHILLIPS PETROLEUM CO [US]
- [Y] GB 1173128 A 19691203 - SHELL INT RESEARCH [NL]

Cited by

WO2014120829A1; WO2015051319A2; US8551327B2; US9783836B2; US10557114B2; EP4056549A1; WO2015001141A1; WO2014198988A1; US10125382B2; WO2014176515A2; WO2016164495A1; WO2012106560A1; US9765368B2; US9816079B2; US10246728B2; US10570428B2; EP3643774A1; US10760106B2; WO2013158938A1; US8853474B2; EP3550025A1; WO2011150410A2; WO2011150411A1; EP2351845A1; US8632675B2; EP3546588A2; WO2008151149A2; WO2022189216A1; WO2010063031A2; WO2010063032A2; EP3098321A2; EP3517622A1

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)

EP 1640437 A1 20060329; ES 2689290 T3 20181113

DOCDB simple family (application)

EP 05396013 A 20050405; ES 07115819 T 20050405