

Title (en)
UPGRADING ETHANE-CONTAINING LIGHT PARAFFINS STREAMS

Title (de)
VERBESSERUNG VON ETHANHALTIGEN LEICHTPARAFFINSTROMEN

Title (fr)
VALORISATION DE FLUX DE PARAFFINES LÉGÈRES CONTENANT DE L'ÉTHANE

Publication
EP 3559169 A1 20191030 (EN)

Application
EP 17822859 A 20171207

Priority

- US 201662436542 P 20161220
- US 2017065007 W 20171207

Abstract (en)
[origin: WO2018118439A1] A process for upgrading an ethane-containing C5- paraffin stream comprises contacting the paraffin stream with an oxygen containing gas in the presence of a selective oxidation catalyst under conditions to selectively oxidize at least part of the ethane in the paraffin stream and produce a first product stream comprising ethylene. At least part of the first product stream may then be contacted with an isoparaffin-containing feed in the presence of a solid alkylation catalyst and under conditions to alkylate at least part of the isoparaffin with at least part of the ethylene and produce a second product stream comprising C6+ alkylate. Alternatively, at least part of the ethylene in the first product stream may be dimerized before the alkylation step.

IPC 8 full level
C10G 57/00 (2006.01); **C07C 2/08** (2006.01); **C07C 2/58** (2006.01); **C07C 5/48** (2006.01); **C10G 57/02** (2006.01)

CPC (source: EP)
C07C 2/24 (2013.01); **C07C 2/58** (2013.01); **C07C 5/48** (2013.01); **C10G 57/005** (2013.01); **C10G 57/02** (2013.01); **C10G 2300/1081** (2013.01); **Y02P 20/52** (2015.11)

Citation (search report)
See references of WO 2018118439A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018118439 A1 20180628; CA 3044680 A1 20180628; EP 3559169 A1 20191030

DOCDB simple family (application)
US 2017065007 W 20171207; CA 3044680 A 20171207; EP 17822859 A 20171207