

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 3559159 A1 20191030 (EN)**

Application  
**EP 17822860 A 20171207**

Priority

- US 201662436534 P 20161220
- US 2017065008 W 20171207

Abstract (en)  
[origin: WO2018118440A1] In a process for upgrading an ethane-containing C5- paraffin stream, the paraffin stream is contacted 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 is then with an oligomerization catalyst under conditions to oligomerize at least part of the ethylene and produce a second product stream comprising gasoline and/or distillate boiling range hydrocarbons. Gasoline and/or distillate boiling range hydrocarbons are then recovered from the second product stream and at least a part of any residual C5- paraffin stream is recycled to the selective oxidation step.

IPC 8 full level  
**C10G 27/04** (2006.01); **C07C 2/12** (2006.01); **C07C 5/48** (2006.01); **C10G 57/02** (2006.01)

CPC (source: EP)  
**C07C 2/12** (2013.01); **C07C 2/24** (2013.01); **C07C 5/48** (2013.01); **C10G 27/04** (2013.01); **C10G 57/02** (2013.01); **C07C 2521/06** (2013.01); **C07C 2521/08** (2013.01); **C07C 2523/20** (2013.01); **C07C 2523/22** (2013.01); **C07C 2523/28** (2013.01); **C07C 2523/30** (2013.01); **C07C 2523/34** (2013.01); **C07C 2523/70** (2013.01); **C07C 2529/06** (2013.01); **C07C 2529/40** (2013.01); **C07C 2529/46** (2013.01); **C07C 2529/48** (2013.01); **C10G 2300/1025** (2013.01); **C10G 2300/1081** (2013.01); **C10G 2400/02** (2013.01); **Y02P 20/52** (2015.11)

Citation (search report)  
See references of WO 2018118440A1

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 2018118440 A1 20180628**; CA 3044683 A1 20180628; CA 3044683 C 20210928; EP 3559159 A1 20191030

DOCDB simple family (application)  
**US 2017065008 W 20171207**; CA 3044683 A 20171207; EP 17822860 A 20171207