

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)
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Citation (search report)
See references of WO 2018118440A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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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