Title (en)

PROCESS AND SYSTEM FOR REDUCING THE OLEFIN CONTENT OF A FISCHER-TROPSCH PRODUCT STREAM

Title (de)

VERFAHREN UND SYSTEM ZUR VERRINGERUNG DES OLEFINANTEILS IN EINEM FISCHER-TROPSCH-PRODUKTSTROM

Title (fr)

PROCÉDÉ ET SYSTÈME PERMETTANT DE RÉDUIRE LA TENEUR EN OLÉFINES D'UN FLUX DE PRODUIT DE FISCHER-TROPSCH

Publication

EP 2726573 A1 20140507 (EN)

Application

EP 12805361 A 20120323

Priority

- US 201113172563 A 20110629
- US 2012030319 W 20120323

Abstract (en)

[origin: US2013001128A1] A method is provided for converting synthesis gas to liquid hydrocarbon mixtures useful as distillate fuel and/or lube base oil. The synthesis gas is contacted with a synthesis gas conversion catalyst comprising a Fischer-Tropsch synthesis component in an upstream catalyst bed thereby producing an intermediate hydrocarbon mixture containing olefins and C21+ normal paraffins. The intermediate hydrocarbon mixture is subsequently contacted with a hydroisomerization catalyst and an olefin saturation catalyst, thereby resulting in a product containing no greater than about 25 wt % olefins and containing no greater than about 5 wt % C21+ normal paraffins. The hydroisomerization and olefin saturation catalysts may be in separate beds or mixed in a single bed downstream of the synthesis gas conversion catalyst.

IPC 8 full level

C10G 2/00 (2006.01); **B01J 29/04** (2006.01); **C07C 2/00** (2006.01); **C07C 5/00** (2006.01)

CPC (source: EP US)

C10G 2/332 (2013.01 - EP US); **C10G 2/333** (2013.01 - EP US); **C10G 33/00** (2013.01 - EP US); **C10G 45/62** (2013.01 - EP US); **C10G 45/64** (2013.01 - EP US); **C10G 47/12** (2013.01 - EP US); **C10G 47/14** (2013.01 - EP US); **C10G 47/16** (2013.01 - EP US); **C10G 47/18** (2013.01 - EP US); **C10G 49/06** (2013.01 - EP US); **C10G 49/08** (2013.01 - EP US); **C10G 65/043** (2013.01 - EP US); **C10G 65/12** (2013.01 - EP US); **C10G 67/02** (2013.01 - EP US); C10G 2300/1022 (2013.01 - EP US)

Citation (search report)

See references of WO 2013002853A1

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DOCDB simple family (publication)

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