

Title (en)

PROCESS TO PREPARE FISCHER-TROPSCH DERIVED MIDDLE DISTILLATES AND BASE OILS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON AUS FISCHER-TROPSCH-ABGELEITETEN MITTELDESTILLATEN UND BASISÖLEN

Title (fr)

PROCÉDÉ DE PRÉPARATION DE DISTILLATS INTERMÉDIAIRES ET D'HUILES DE BASE DÉRIVÉS DE FISCHER-TROPSCH

Publication

**EP 4001380 A1 20220525 (EN)**

Application

**EP 20208595 A 20201119**

Priority

EP 20208595 A 20201119

Abstract (en)

The invention provides a process to prepare at least middle distillates and base oils from a Fischer-Tropsch derived feedstock, by (a) providing a Fischer-Tropsch derived feedstock containing nitrogen through addition of a nitrogen containing compound selected from ammonia, HCN, NO, amines, nitriles and a heterocyclic compound containing at least one nitrogen atom as ring member of a heterocyclic ring to a Fischer-Tropsch reactor; (b) subjecting the feedstock of step (a) to a hydroprocessing step in the presence of one or more catalysts to obtain a first mixture comprising one or more middle distillate fractions and a first residual fraction and naphtha fraction; (c) separating the first mixture as obtained in step (b) by means of atmospheric distillation into one or more middle distillate fractions, a first residual fraction and a naphtha fraction; (d) separating the first residual fraction by means of vacuum distillation into at least a distillate base oil fraction and a second residual fraction.

IPC 8 full level

**C10G 45/58** (2006.01); **C10G 47/00** (2006.01); **C10G 65/12** (2006.01)

CPC (source: EP)

**C10G 45/58** (2013.01); **C10G 47/00** (2013.01); **C10G 65/12** (2013.01); **C10G 2300/1022** (2013.01)

Citation (applicant)

- US 6635171 B2 20031021 - ROSENBAUM JOHN M [US], et al
- WO 03070857 A1 20030828 - SHELL INT RESEARCH [NL], et al
- WO 2011064236 A1 20110603 - SHELL INT RESEARCH [NL], et al
- WO 2015063213 A1 20150507 - SHELL INT RESEARCH [NL], et al
- JULIUS SCHERZERA. J. CRUIA: "Hydrocracking Science and Technology", 1996, MARCEL DEKKER, INC

Citation (search report)

- [X1] WO 2017037176 A1 20170309 - SHELL INT RESEARCH [NL], et al
- [X1] WO 2017037177 A1 20170309 - SHELL INT RESEARCH [NL], et al
- [X1] GB 2394721 A 20040505 - CHEVRON USA INC [US]
- [X1] US 2004256286 A1 20041223 - MILLER STEPHEN J [US], et al
- [XDI] WO 2015063213 A1 20150507 - SHELL INT RESEARCH [NL], et al

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)

**EP 4001380 A1 20220525**

DOCDB simple family (application)

**EP 20208595 A 20201119**