

Title (en)  
Process for preparing naphtha and middle distillate fractions

Title (de)  
Verfahren zur Herstellung von NAPHTHA und Mitteldestillatfraktionen

Title (fr)  
Procédé de préparation de naphta et de fractions de distillat moyen

Publication  
**EP 3040404 A1 20160706 (EN)**

Application  
**EP 14200721 A 20141231**

Priority  
EP 14200721 A 20141231

Abstract (en)  
The invention provides a process for preparing one or more naphtha fractions and one or more middle distillate fractions, the process comprising the steps of: (a) providing a Fischer-Tropsch hydrocarbons stream; (b) subjecting the Fischer-Tropsch hydrocarbons stream as provided in step (a) to a thermal conversion step to obtain a converted hydrocarbon stream comprising paraffins and olefins; (c) separating at least part of the converted hydrocarbon stream as obtained in step (b) into a first fraction having a boiling point below 380 °C and a second fraction having a boiling point which is higher than 300 °C; (d) hydrogenating at least part of the first fraction having a boiling point below 380 °C as obtained in step (c) to obtain a hydrogenated fraction having a boiling point below 380 °C; (e) catalytic dewaxing at least part of the hydrogenated fraction having a boiling point below 380 °C as obtained in step (d) to obtain an at least partially isomerised product; and (f) separating at least part of the at least partially isomerised product as obtained in step (e) into one or more naphtha fractions and one or more middle distillate fractions.

IPC 8 full level  
**C10G 45/02** (2006.01); **C10G 9/00** (2006.01); **C10G 45/58** (2006.01); **C10G 69/06** (2006.01)

CPC (source: EP)  
**C10G 9/00** (2013.01); **C10G 45/02** (2013.01); **C10G 45/58** (2013.01); **C10G 69/06** (2013.01); **C10G 2300/1022** (2013.01)

Citation (applicant)  
• EP 0776959 A2 19970604 - SHELL INT RESEARCH [NL]  
• EP 0668342 A1 19950823 - SHELL INT RESEARCH [NL]  
• US 4943672 A 19900724 - HAMNER GLEN P [US], et al  
• US 5059299 A 19911022 - CODY IAN A [CA], et al  
• WO 9934917 A1 19990715 - SHELL INT RESEARCH [NL]  
• WO 9920720 A1 19990429 - MOBIL OIL CORP [US]  
• AU 698392 B2 19981029 - IMPERIAL COLLEGE

Citation (search report)  
• [Y] US 2005098476 A1 20050512 - MILLER STEPHEN J [US]  
• [Y] US 2004178118 A1 20040916 - ROSENBAUM JOHN [US], 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 3040404 A1 20160706**

DOCDB simple family (application)  
**EP 14200721 A 20141231**