

Title (en)
METHOD OF OPERATING INTERMEDIATE-FRACTION HYDROFINING REACTOR AND INTERMEDIATE-FRACTION HYDROFINING REACTOR

Title (de)
BETRIEBSVERFAHREN FÜR EINEN REAKTOR ZUR HYDROVERFEINERUNG VON ZWISCHENPRODUKTFRAKTIONEN SOWIE REAKTOR ZUR HYDROVERFEINERUNG VON ZWISCHENPRODUKTFRAKTIONEN

Title (fr)
PROCÉDÉ DE FONCTIONNEMENT D'UN RÉACTEUR D'HYDRORAFFINAGE D'UNE FRACTION INTERMÉDIAIRE ET RÉACTEUR D'HYDRORAFFINAGE D'UNE FRACTION INTERMÉDIAIRE

Publication
EP 2392635 A4 20120627 (EN)

Application
EP 10735607 A 20100121

Priority
• JP 2010000340 W 20100121
• JP 2009020855 A 20090130

Abstract (en)
[origin: EP2392635A1] There is provided an operation method of a middle distillate hydrotreating reactor which hydrotreats and hydroisomerizes a middle distillate including components of a boiling point range equivalent to gas oil among FT synthesis hydrocarbons synthesized by the Fisher-Tropsch synthesis reaction, the operation method comprising the steps of: bringing the middle distillate into contact with a catalyst to hydrotreat and hydroisomerize the middle distillate to produce hydrotreated middle distillate; measuring the cloud point of the hydrotreated middle distillate flowing out from the middle distillate hydrotreating reactor; and controlling the operating conditions of the middle distillate hydrotreating reactor so that the cloud point comes to a predetermined target value.

IPC 8 full level
C10G 45/72 (2006.01); **C10G 45/58** (2006.01); **C10G 65/04** (2006.01)

CPC (source: EP US)
C10G 45/58 (2013.01 - EP US); **C10G 45/72** (2013.01 - EP US); **C10G 65/04** (2013.01 - EP US); **C10G 2300/1022** (2013.01 - EP US); **C10G 2300/1059** (2013.01 - EP US); **C10G 2300/304** (2013.01 - EP US); **C10G 2400/06** (2013.01 - EP US)

Citation (search report)
• [XY] EP 0316656 A1 19890524 - AGIP PETROLI [IT]
• [Y] US 3457772 A 19690729 - CHASSAGNE PIERRE C, et al
• [Y] US 4519717 A 19850528 - JONES HUGH D [US], et al
• [Y] WO 03014264 A1 20030220 - SHELL INT RESEARCH [NL], et al
• [Y] JP 2000235420 A 20000829 - IDEMITSU KOSAN CO
• [A] US 4347577 A 19820831 - GANSTER CHARLES A, et al
• [Y] JOAO A.P. COUTINHO: "THE LIMITATIONS OF CLOUD POINT MEASUREMENTS AND THE INFLUENCE OF THE OIL COMPOSITION ON ITS DETECTION", PETROLEUM SCIENCE AND TECHNOLOGY, vol. 23, 31 December 2005 (2005-12-31), pages 1113 - 1128, XP002676211
• [Y] DIETER LECKEL: "HYDROPROCESSING EURO 4-TYPE DIESEL FROM HIGH TEMPERATURE FISCHER TROPSCH VACUUM GAS OILS", ENERGY AND FUELS, vol. 23, 18 November 2008 (2008-11-18), pages 38 - 45, XP002676212
• See references of WO 2010087135A1

Designated contracting state (EPC)
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EP 2392635 A1 20111207; EP 2392635 A4 20120627; AU 2010209217 A1 20110908; BR PI1007530 A2 20160216; CA 2750088 A1 20100805; CA 2750088 C 20140311; CN 102300961 A 20111228; CN 102300961 B 20141015; EA 020717 B1 20150130; EA 201170972 A1 20120228; JP 5367727 B2 20131211; JP WO2010087135 A1 20120802; MY 162602 A 20170630; US 2012006721 A1 20120112; WO 2010087135 A1 20100805; ZA 201105353 B 20120926

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EP 10735607 A 20100121; AU 2010209217 A 20100121; BR PI1007530 A 20100121; CA 2750088 A 20100121; CN 201080005827 A 20100121; EA 201170972 A 20100121; JP 2010000340 W 20100121; JP 2010548403 A 20100121; MY PI2011003498 A 20100121; US 201013138236 A 20100121; ZA 201105353 A 20110720