

Title (en)

PRODUCTION OF LOW COLOR MIDDLE DISTILLATE FUELS

Title (de)

HERSTELLUNG VON MITTELDESTILLATBRENNSTOFFEN MIT GERINGER FARBE

Title (fr)

PRODUCTION DE COMBUSTIBLES FAIBLEMENT COLORÉS À BASE D'UN DISTILLAT MOYEN

Publication

**EP 2588226 A4 20150128 (EN)**

Application

**EP 11801346 A 20110628**

Priority

- US 36063710 P 20100701
- US 201113169170 A 20110627
- US 2011042099 W 20110628

Abstract (en)

[origin: US2012000817A1] In a process for producing a low color diesel and/or kerosene fuel, a middle distillate feed can be supplied to a reactor having at least one first catalyst bed containing a first desulfurization and/or isomerization catalyst and at least one second catalyst bed containing a decolorization catalyst downstream from the first catalyst bed(s). The feed can be reacted with the hydrogen in the presence of the first catalyst at a temperature from about 290° C. to about 430° C. to produce a first liquid effluent, which can be cooled by about 10° C. to about 40° C. with a quench medium and cascaded to the at least one second catalyst bed. The cooled first liquid effluent can then be reacted with hydrogen in the presence of the decolorization catalyst at a temperature from about 280° C. to about 415° C. to produce a second effluent having an ASTM color less than 2.5.

IPC 8 full level

**C10G 45/10** (2006.01); **C10G 45/12** (2006.01); **C10G 65/04** (2006.01)

CPC (source: EP US)

**C10G 45/10** (2013.01 - EP US); **C10G 45/12** (2013.01 - EP US); **C10G 65/04** (2013.01 - EP US); **C10G 2300/1048** (2013.01 - EP US); **C10G 2300/202** (2013.01 - EP US); **C10G 2300/301** (2013.01 - EP US); **C10G 2300/304** (2013.01 - EP US); **C10G 2300/4006** (2013.01 - EP US); **C10G 2300/4018** (2013.01 - EP US); **C10G 2400/04** (2013.01 - EP US); **C10G 2400/08** (2013.01 - EP US)

Citation (search report)

- [X] US 6103104 A 20000815 - GUPTA RAMESH [US]
- [X] US 5403470 A 19950404 - KOKAYEFF PETER [US], et al
- [X] KR 20060094675 A 20060830 - SK CORP [KR]
- [E] WO 2011143396 A2 20111117 - EXXONMOBIL RES & ENG CO [US], et al
- [A] US 5183556 A 19930202 - REILLY JAMES W [US], et al
- [A] US 2004004021 A1 20040108 - BENAZZI ERIC [FR], et al
- [A] EP 0523679 A2 19930120 - NIPPON OIL CO LTD [JP]
- See references of WO 2012003168A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2012000817 A1 20120105**; AU 2011271545 A1 20130124; AU 2011271545 B2 20150514; CA 2803605 A1 20120105; CN 103068478 A 20130424; CN 103068478 B 20160907; EP 2588226 A1 20130508; EP 2588226 A4 20150128; SG 186461 A1 20130130; WO 2012003168 A1 20120105

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