

Title (en)

Production of gasoline using new method, blending of petroleum material cuts

Title (de)

Herstellung von Benzin mit einem neuen Verfahren, Gemisch aus Petroleum-Materialschnitten

Title (fr)

Production d'essence selon un nouveau procédé mélangeant des découpes de matériaux de pétrole

Publication

EP 2149594 A1 20100203 (EN)

Application

EP 09251755 A 20090708

Priority

IR 1387050932 A 20080728

Abstract (en)

A method of producing a reformat suitable for use in the production of gasoline, comprising the steps of: obtaining naphtha heart cut (C5-C10 +) from the distillation of gas condensate; removing undesired impurities from said naphtha heart cut (C5-C10 +) by a hydrotreating step to produce hydrotreated naphtha heart cut (C5-C10 +); and subjecting said hydrotreated naphtha heart cut (C5-C10 +) to a catalytic reforming step to produce said reformat, wherein the temperature of said catalytic reforming step is selected to be in the range 485-510 °C; and/or an amount of hydrotreated naphtha heart cut (C5-C10 +) is mixed with said reformat such that said reformat contains up to 45 %volume of hydrotreated naphtha heart cut (C5-C10 +), so as to reduce the %volume of aromatics in said reformat. In addition, the invention comprises a method of producing a gasoline using such a reformat and also a gasoline comprising such a reformat.

IPC 8 full level

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CPC (source: EP)

C10G 35/04 (2013.01); **C10G 61/02** (2013.01); **C10G 69/08** (2013.01); **C10L 1/06** (2013.01)

Citation (search report)

- [X] US 3172841 A 19650309
- [X] GB 2386904 A 20031001 - CHEVRON USA INC [US]
- [A] US 2004218547 A1 20041104 - RHODEY WILLIAM GEORGE [CA]
- [X] ALIEV V S ET AL: "High-octane reformed gasolines and the selective adsorption of normal paraffinic hydrocarbons", CHEM TECHNOLOGY FUELS OILS; CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS FEB 1965 NEW YORK, NY, UNITED STATES, no. 2, February 1965 (1965-02-01), pages 97 - 100, XP002557760
- [X] PROKOPYUK S G ET AL: "Experience in processing naphtha from Karachaganak condensate in catalytic reformer", CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 1989 JAN, vol. 24, no. 5-6, January 1989 (1989-01-01), pages 237 - 239, XP002557761
- [A] KULIEV A M ET AL: "UTILIZATION OF GAS CONDENSATE FROM MASTAKH FIELD (YAKUTSK ASSR)", CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 1981 NOV-DEC, vol. 17, no. 11-12, November 1981 (1981-11-01), pages 603 - 606, XP002557762
- [A] EMEL'YANOV V E ET AL: "Use of natural gasoline as a motor fuel", CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 1979 NOV-DEC, vol. 15, no. 11-12, November 1979 (1979-11-01), pages 886 - 888, XP002557763
- [A] PROKOPYUK S G ET AL: "Experience in hydrotreating naphtha from Karachaganak gas condensate", CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 1989 JAN, vol. 24, no. 5-6, January 1989 (1989-01-01), pages 239 - 242, XP002557764

Cited by

CN107001951A; JP2017534719A; CN107109252A; JP2017534718A; US9957451B2; US9657238B2; WO2016054316A1; WO2016054323A1

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