

Title (en)

Process for the production of an internal combustion engine fuel by hydrotreatment and extraction

Title (de)

Verfahren zur Erzeugung eines Brennstoffes für innere Verbrennungsmotoren durch Wasserstoffbehandlung und Extraktion

Title (fr)

Procédé d'obtention d'une base pour carburant pour moteur à combustion interne par hydrotraitement et extraction

Publication

EP 0661371 B1 20030820 (FR)

Application

EP 94403024 A 19941226

Priority

FR 9315857 A 19931228

Abstract (en)

[origin: EP0661371A1] Petroleum product and process for obtaining the said petroleum product which can optionally be used for the formulation of an internal combustion engine fuel, including a stage a) of hydrotreatment in which a hydrocarbon feedstock is treated in hydrocarbon conditions under a partial pressure of hydrogen leaving the reactor of approximately 0.5 MPa to approximately 6 MPa, a stage b) of separation of the product (P) originating from stage a) into a product (P1) of initial boiling point lower than approximately 300 DEG C and a product (P2) of final boiling point higher than the final boiling point of product (P1), a stage c) of liquid/liquid extraction with the aid of a solvent (S1), in which an extract (E1) and a raffinate (R1) are obtained from the product (P2), a stage d) of recovery of the solvent (S1) from the raffinate (R1) making it possible to obtain a product (Q1) depleted in solvent (S1), having improved properties and containing less than 500 ppm by weight of sulphur. According to a particular embodiment the extract (E1) is distilled so as to obtain a tail product (Q2) which is subsequently conveyed into a hydrotreatment zone so as to obtain a product (P3) preferably containing less than 0.3 % by weight of sulphur. The solvent (S1) recovered at the head of the distillation is recycled to the extraction stage c). This solvent is chosen from the group consisting of dimethylformamide, dimethylacetamide, furfural, N-methylpyrrolidone and dimethyl sulphoxide.

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C10G 67/04

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- EP 0621334 A1 19941026 - INST FRANCAIS DU PETROLE [FR], et al
- Procédés de pétrochimie, Edition Technip, Paris, 1985, A. Chauvel, G. Lefebvre, L. Castex, p. 198.

Cited by

US6483003B1; WO9958625A1; WO2017200640A1

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