Title (en)

NOVEL HYDROCARBON FUEL, ITS PREPARATION AND USE

Title (de)

NEUER KOHLENWASSERSTOFF-BRENNSTOFF, METHODE ZUR HERSTELLUNG UND VERWENDUNG

Title (fr)

NOUVEAU CARBURANT AUX HYDROCARBURES, METHODE DE PREPARATION ET UTILISATION

Publication

EP 0541547 B1 20000329 (EN)

Application

EP 90916967 A 19900731

Priority

US 9004201 W 19900731

Abstract (en)

[origin: WO9202600A1] A liquid hydrocarbon gasoline is provided by removing both the volatile and non-volatile components from C4-C12 gasoline to yield either a C6-C9 or a C6-C10 intermediate gasoline. The intermediate gasoline of this invention can be combusted in a stndard carbureted engine with less C4 and/or C5 priming than is required in standard C4-C12 gasoline, and thus provides adequate cold engine starting ability with lower Reid Vapor Pressure. The C6-C9 and C6-C10 fuel can be combusted in a modified engine without any priming by gasiying the fuel. The fuel is gasified by heating it in a chamber in the absence of air; mixing the gas with air and then combusting the mixture. The gasified fuel is advantageous because it doesn't condense into droplets and thereby is combusted more completely in the gaseous state enhancing combustion efficiency. The fuels of this invention better facilitate alcohol addition than current gasolines because of their lower Reid Vapor Pressures.

IPC 1-7

C10L 1/06; C10L 1/18; C10L 1/02

IPC 8 full level

C10L 1/16 (2006.01); **C10L 1/02** (2006.01); **C10L 1/06** (2006.01); **C10L 1/18** (2006.01); **C10L 1/182** (2006.01); **C10L 10/14** (2006.01); **F02B 41/00** (2006.01)

CPC (source: EP)

C10L 1/023 (2013.01); **F02B 41/00** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

WO 9202600 A1 19920220; AT E191233 T1 20000415; AU 657467 B2 19950316; AU 6729690 A 19920302; BR 9008035 A 19930629; CA 2088044 A1 19920201; CA 2088044 C 20030211; DE 69033497 D1 20000504; DE 69033497 T2 20010118; DE 69033497 T3 20050630; EP 0541547 A1 19930519; EP 0541547 A4 19930728; EP 0541547 B1 20000329; EP 0541547 B2 20041103; ES 2146575 T3 20000816; ES 2146575 T5 20050601; HU T66537 A 19941228; JP 3202747 B2 20010827; JP H06501966 A 19940303

DOCDB simple family (application)

US 9004201 W 19900731; AT 90916967 T 19900731; AU 6729690 A 19900731; BR 9008035 A 19900731; CA 2088044 A 19900731; DE 69033497 T 19900731; EP 90916967 A 19900731; ES 90916967 T 19900731; HU 9300216 A 19900731; JP 51548290 A 19900731