

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

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Application

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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 standard 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 gasifying 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.

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