

Title (en)

Motor fuels of enhanced properties.

Title (de)

Motorreibstoffe mit erhöhten Eigenschaften.

Title (fr)

Carburants à propriétés augmentées.

Publication

EP 0466511 B1 19950111 (EN)

Application

EP 91306359 A 19910712

Priority

US 55244690 A 19900713

Abstract (en)

[origin: EP0466511A1] Environmentally-friendly fuels are provided comprising a gasoline fuel composition having a Reid vapor pressure (ASTM test method D-323) of 8.5 psi (58.6 kPa) or less, and preferably 8.0 psi (55.2 kPa) or less, containing up to 1/32 gram of manganese per gallon (0.008 g/liter) as at least one fuel-soluble cyclopentadienyl manganese tricarbonyl compound. Such motor fuels have improved octane quality as compared to the clear base fuel, and thus do not require the use of increased proportions of aromatics in the fuel. In addition, the motor fuels contribute to clean air by resulting in less evaporation into the atmosphere during such operations as storage and dispensing to vehicles and by resulting during engine operation in reduced emission of carbon monoxide (CO) and oxides of nitrogen (NOx) while having little effect on the level of tailpipe hydrocarbon emissions. The fuels exhibit virtually no adverse effect upon exhaust gas catalysts of the type commonly used in present-day vehicles. Because the base fuels can contain reduced volumes of aromatics, the antiknock response of the fuels to the addition of the cyclopentadienyl manganese tricarbonyl compounds remains high.

IPC 1-7

C10L 1/30; **C10L 1/14**; **C10L 1/02**

IPC 8 full level

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CPC (source: EP)

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Cited by

US5511517A; US5551957A; EP0748364A4; EP0529942A1; EP0507510A1; AU2005201102B2; EP0540297A1; AU656237B2; WO2012023872A2; US6786939B2; US6187064B1; WO0151592A1; WO0036055A1; WO02055636A1; WO0107540A3; WO9533022A1; WO9404636A1; US11193077B1; US11485923B1; WO9640844A1; WO2005087901A3

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