

Title (en)
FUEL COMPOSITIONS.

Title (de)
BRENNSTOFFZUSAMMENSETZUNG.

Title (fr)
COMPOSITIONS DE COMBUSTIBLES.

Publication
EP 0191033 A4 19861105 (EN)

Application
EP 85903551 A 19850626

Priority
US 62504584 A 19840627

Abstract (en)
[origin: WO8600333A1] Improved fuels having significantly increased combustion efficiencies, desirable octane ratings and lowered pollution emissions which are supplemented by a minor amount of a polyolefinic additive containing recurring C2-C10 monomer moieties therein. The fuels preferably include a liquid hydrocarbon such as a gasoline or diesel fuel, with up to about 2.5% by weight polyolefin, or in certain cases a polyolefin derivative. The most preferred additive for use in the fuel of the invention is polybutene. Stable emulsified fuels are also provided which comprise respective fractions of water, liquid combustible hydrocarbon, one or more surfactants, and a polyolefin additive. Test results demonstrate that the fuels of the invention exhibit greater work output per pound of fuel than straight unmodified comparative fuels. The presence of polyolefins in the fuel is believed to generate reactions analogous to cracking during combustion of the fuel compositions, with the resultant exothermic heats of reaction adding substantially to the caloric values obtained from the fuels; in the case of emulsified fuels for example, this factor is believed to compensate for the potential caloric loss represented by the presence of significant amounts of water.

IPC 1-7
C10L 1/18

IPC 8 full level
C09K 23/52 (2022.01); **C10L 1/14** (2006.01); **C10L 1/16** (2006.01); **C10L 1/18** (2006.01); **C10L 1/32** (2006.01); **C10L 10/08** (2006.01); **C10L 1/22** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)
C10L 1/143 (2013.01); **C10L 1/1641** (2013.01); **C10L 1/1608** (2013.01); **C10L 1/191** (2013.01); **C10L 1/1985** (2013.01); **C10L 1/2222** (2013.01); **F02B 3/06** (2013.01)

Citation (search report)

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Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 8600333 A1 19860116; AU 4608585 A 19860124; BR 8506797 A 19861125; DK 88886 A 19860424; DK 88886 D0 19860226; EP 0191033 A1 19860820; EP 0191033 A4 19861105; ES 544573 A0 19860901; ES 8609441 A1 19860901; FI 860839 A0 19860227; FI 860839 A 19860227; HU T40156 A 19861128; JP S62500525 A 19870305; MW 1186 A1 19870513; NO 860669 L 19860425; OA 08217 A 19871030; RO 95015 A 19880915

DOCDB simple family (application)
US 8501209 W 19850626; AU 4608585 A 19850626; BR 8506797 A 19850626; DK 88886 A 19860226; EP 85903551 A 19850626; ES 544573 A 19850626; FI 860839 A 19860227; HU 313585 A 19850626; JP 50302885 A 19850626; MW 1186 A 19860221; NO 860669 A 19860224; OA 58794 A 19860227; RO 12236385 A 19850626