

Title (en)

Fuel composition

Title (de)

Kraftstoffzusammensetzung

Title (fr)

Composition de combustible

Publication

EP 1612257 A2 20060104 (DE)

Application

EP 05019565 A 20000205

Priority

- EP 00912452 A 20000205
- DE 19905211 A 19990209

Abstract (en)

Fuel composition contains an Otto fuel and a small amount of an Otto fuel additive containing a hydrophobic hydrocarbon residue and a specified polar group. Fuel composition comprises an Otto fuel containing a maximum of 42 vol.% aromatics and a sulfur content of a maximum of 150 wt. ppm, and a small amount of an Otto fuel additive with effective detergency and valve seat antiwear properties. The additive comprises a hydrophobic hydrocarbon residue and a specified polar group selected from: (a) mono- and polyamino groups with up to 6 nitrogen atoms, (b) nitro groups optionally in combination with hydroxyl groups, (c) hydroxyl groups in combination with mono- and polyamino groups, (d) carboxyl groups or their alkali metal or alkaline earth metal salts, (e) sulfonic acid groups or their alkali metal or alkaline earth metal salts, (f) polyoxy 2-4C alkylene groups, (g) carboxylic acid ester groups, (h) groups derived from succinic acid anhydride with hydroxy and/or amino and/or amido and/or imido groups, and (i) groups obtained by Mannich conversion of phenolic hydroxyl groups with aldehydes and mono- and polyamines.

IPC 8 full level

C10L 1/22 (2006.01); **C10L 1/14** (2006.01); **C10L 1/234** (2006.01); **C10L 1/18** (2006.01); **C10L 1/182** (2006.01); **C10L 1/185** (2006.01); **C10L 1/188** (2006.01); **C10L 1/19** (2006.01); **C10L 1/192** (2006.01); **C10L 1/195** (2006.01); **C10L 1/196** (2006.01); **C10L 1/198** (2006.01); **C10L 1/222** (2006.01); **C10L 1/224** (2006.01); **C10L 1/23** (2006.01); **C10L 1/236** (2006.01); **C10L 1/238** (2006.01); **C10L 1/2383** (2006.01); **C10L 1/24** (2006.01); **C10L 1/30** (2006.01); **C10L 10/00** (2006.01); **C10L 10/04** (2006.01); **C10L 10/18** (2006.01); **C10L 1/16** (2006.01)

CPC (source: EP KR)

C10L 1/143 (2013.01 - EP); **C10L 1/19** (2013.01 - EP); **C10L 1/1966** (2013.01 - EP); **C10L 1/198** (2013.01 - EP); **C10L 1/1985** (2013.01 - EP); **C10L 1/22** (2013.01 - KR); **C10L 1/231** (2013.01 - EP); **C10L 1/2364** (2013.01 - EP); **C10L 1/238** (2013.01 - EP); **C10L 1/2383** (2013.01 - EP); **C10L 1/2437** (2013.01 - EP); **C10L 10/08** (2013.01 - EP); **C10L 1/1616** (2013.01 - EP); **C10L 1/1641** (2013.01 - EP); **C10L 1/188** (2013.01 - EP); **C10L 1/1881** (2013.01 - EP); **C10L 1/1905** (2013.01 - EP); **C10L 1/191** (2013.01 - EP); **C10L 1/2222** (2013.01 - EP); **C10L 1/2225** (2013.01 - EP); **C10L 1/224** (2013.01 - EP)

Cited by

US9085740B2; US9394499B2

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DOCDB simple family (publication)

DE 19905211 A1 20000810; AR 022534 A1 20020904; AU 3422000 A 20000829; AU 766424 B2 20031016; BR 0008087 A 20011106; CA 2359723 A1 20000817; CZ 20012854 A3 20020515; EE 200100420 A 20021216; EP 1155102 A1 20011121; EP 1277828 A2 20030122; EP 1277828 A3 20030702; EP 1612257 A2 20060104; HR P20010661 A2 20030430; HU P0200270 A2 20020529; HU P0200270 A3 20030828; IL 144375 A0 20020523; IL 144375 A 20040831; JP 2002536531 A 20021029; KR 100663774 B1 20070103; KR 20010111491 A 20011219; MY 121511 A 20060128; NO 20013864 D0 20010808; NO 20013864 L 20010808; NZ 513306 A 20030131; PL 191309 B1 20060428; PL 349860 A1 20020923; RU 2238300 C2 20041020; SK 10852001 A3 20020604; TR 200102283 T2 20011221; WO 0047698 A1 20000817; ZA 200107409 B 20030129

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