

Title (en)

Deposit control additives for hydrocarbon fuels and lubricants for use in internal combustion engines.

Title (de)

Schlammkontrollierende Zusätze in Kohlenwasserstoffbrennstoffen und Schmiermitteln für Innenverbrennungsmotoren.

Title (fr)

Additifs contrôlant des dépôts de carburants hydrocarbonés et de lubrifiants utilisés dans des moteurs à combustion interne.

Publication

EP 0100665 A2 19840215 (EN)

Application

EP 83304397 A 19830729

Priority

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Abstract (en)

Additives for use in internal combustion engines are provided which particularly in unleaded fuels maintain cleanliness of the intake system without contributing to combustion chamber deposits. The additives are hydrocarbyl-terminated poly(oxyalkylene) polyamine ethanes comprising a hydrocarbyl-terminated poly(oxyalkylene) chain formed from 1 to 30 2-5 carbon oxyalkylene units bonded to an ethane or branched ethane chain containing from 2 to 8 carbon atoms in turn bonded to a nitrogen atom of a polyamine having from 2 to 12 amine nitrogens and from 2 to 40 carbon atoms with a carbon:nitrogen ratio between 1:1 and 10:1. The terminal hydrocarbyl group contains from 1 to 30 carbon atoms and the additive has a molecular weight in the range from 300 to 2500. The additive may be formulated as a concentrate in an inert oleophilic organic solvent or may be formulated as a lubricant composition for use in an internal combustion engine by incorporation in a lubricating oil.

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IPC 8 full level

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CPC (source: EP)

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Cited by

FR2585032A1; US5814110A; US4778481A; US5354343A; EP0310875A1; EP0590770A1; EP1080166A4; EP0630959A1; EP0440248A1; US5089029A; US6346128B1; EP0356725A1; US5112364A; EP0700985A1; EP0353713A1; US5298038A; EP0596602A1; AU654170B2; EP0152455A4; EP1122295A4; WO9214805A1; US8100095B2

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