

Title (en)

DEPOSIT-RESISTANT MOTOR FUEL COMPOSITION CONTAINING AN ADDITIVE WHICH LOWERS THE USE OF OCTANE BOOSTERS

Publication

EP 0303351 B1 19910619 (EN)

Application

EP 88306166 A 19880706

Priority

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- US 15842488 A 19880219

Abstract (en)

[origin: EP0303351A1] Motor fuel compositions, which are haze free and which show improved deposit resistance, Ori control and valve deposit control in comparison with typical commercial fuel compositions, include the reaction product obtained by reacting at a temperature of 30 DEG C-200 DEG C (a) about 1 mole of a dibasic acid anhydride of the formula <CHEM> where R1 is either H or a C1-C5 alkyl radical; (b) 1-2 moles of a polyoxyalkylene diamine of the formula <CHEM> where R5 and R6 are C1-C12 alkylene groups, q and r are integers having a value of 0 or 1, c has a value from about 5-150, b+d has a value from about 5-150, and a+e has a value from about 2-12; and (c) 1-2 moles of a hydrocarbyl polyamine which may be either (i) a hydrocarbyl polyamine of the formula R2(NH-R3)x - NH2 where R2 is n alkyl radical having from about 1-24 carbon atoms, R3 is an alkylene radical having from about 1-6 carbon atoms, and x has a value from about 1-10, or (ii) a n-alkyl-alkylene diamine of the formula R4-NH-(CH2)n-NH2 where R4 is an aliphatic hydrocarbon radical having from about 1-24 carbon atoms and n has a value from about 1-6; a

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