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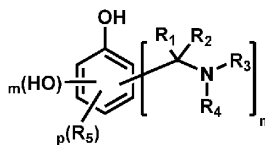
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(54) Title: FUEL ADDITIVES FOR REDUCING LOW SPEED PRE-IGNITION EVENTS



(I)

(57) Abstract: Method for preventing or reducing low speed pre-ignition events in a spark- ignited internal combustion engine is provided. The method includes supplying to the engine the lubricant composition comprising a primary additive having a structure given by (I) or a salt thereof. R₁ and R₂ are independently H, C₁ -C₂₀ hydrocarbyl group, carboxyl group, ester, amide, ketone, ether, or hydroxyl group. R₃ and R₄ are independently H, C₁ -C₂₀ hydrocarbyl group, carboxyl group, ester, amide, ketone, ether, amino, or hydroxyl group or wherein R₃ and R₄ are part of a cyclic group. R₅ is C₁ -C₁₀₀ hydrocarbyl group, carboxyl group, ether, or hydroxyl group. Lastly, p is 0 to 2, n is 1 to 5, m is 0 to 2, and p+n+m is less than 6.

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