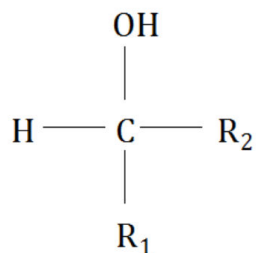


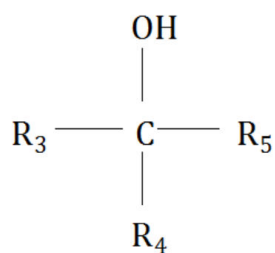
MULTIFUNCTIONAL BRANCHED POLYMERS WITH IMPROVED LOW-TEMPERATURE PERFORMANCE

ABSTRACT

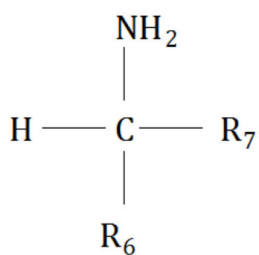
5 A viscosity index improver comprising a reaction product of (i) an acylated copolymer obtainable by acylating a copolymer of ethylene and one or more C₃-C₁₀ alpha-olefins having an Mn of 3,000 to 250,000 g/mol; and (ii) a compound of the formulae (I)-(V):



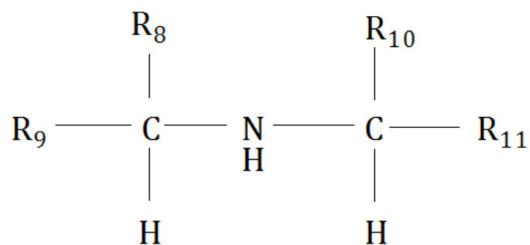
(I);



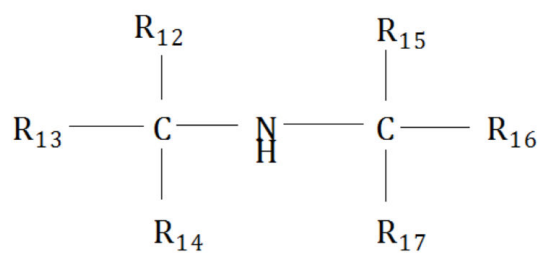
(II);



(III);



(IV);



(V);

wherein R₁, R₆, R₈, R₉, R₁₀, R₁₂ and R₁₅ are independently selected from a hydrogen and an optionally substituted linear or branched alkyl or alkenyl group, and R₂, R₃, R₄, and R₅ R₇, R₁₁, R₁₃,

- 5 R₁₄, R₁₆, and R₁₇ are independent selected from an optionally substituted linear or branched alkyl or alkenyl group, and a sum of the number of carbon atoms in each compound of the formulae (I)-(V) is from 6 to 31.

[Figure 1]