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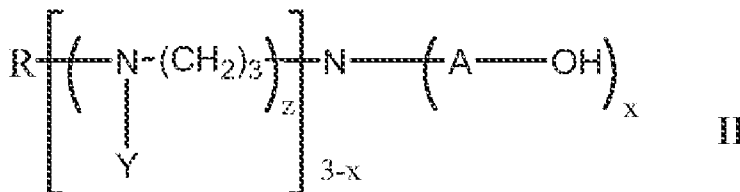
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(54) Title: LUBRICATING COMPOSITION CONTAINING MULTIFUNCTIONAL BORATED HYDROXYLATED AMINE
SALT OF A HINDERED PHENOLIC ACID



(57) Abstract: Multi-functional additives which impart improved antioxidancy to lubricating oil compositions and frictional properties resulting in improved fuel economy in an internal combustion engine are disclosed. More particularly disclosed is a boron containing salt of an oil soluble hydroxylated amine and a hindered phenolic acid product prepared by: a) reacting an oil soluble hydroxylated amine of the general formula II: wherein A at each occurrence is each independently C₂-C₆ alkylene group; R is methyl or an alkyl or alkenyl group having C₂-C₂₄ carbon atoms; Y is hydrogen, C₁-C₆ alkyl group or A-OH; x is an integer of 1 or 2; and z is an integer of 0 or 1; with a boron containing compound under reactive conditions; and b) mixing the reaction product of step a) with a hindered phenolic acid.

