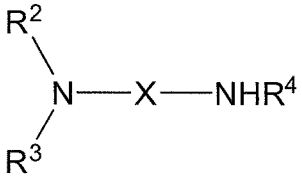
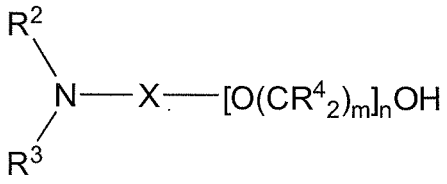


(A)

and a compound formed by the reaction of a hydrocarbyl-substituted acylating agent and an amine of formula (B1) or (B2):



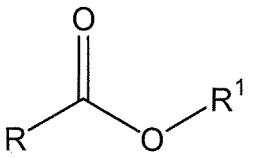
(B1)



(B2)

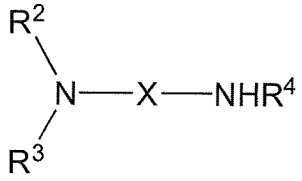
wherein R is an optionally substituted alkyl, alkenyl, aryl or alkylaryl group; R^1 is an alkyl, aryl or alkylaryl group having up to 36 carbon atoms; R^2 and R^3 are the same or different alkyl groups having from 1 to 36 carbon atoms; X is an alkylene group having from 1 to 20 carbon atoms; n is from 0 to 20; m is from 1 to 5; and R^4 is hydrogen or a C_1 to C_{36} alkyl group, wherein the compound of formula (A) is an ester of a carboxylic acid selected from a substituted aromatic carboxylic acid, an α-hydroxycarboxylic acid and a polycarboxylic acid.

13. The use of a quaternary ammonium additive in a gasoline composition to control deposits in a gasoline engine when using said gasoline composition, wherein the quaternary ammonium additive comprises one or more quaternary ammonium salt(s) formed by the reaction of a compound of formula (A):

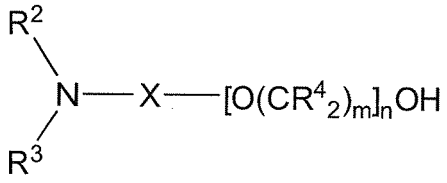


(A)

and a compound formed by the reaction of a hydrocarbyl-substituted acylating agent and an amine of formula (B1) or (B2):



(B1)



(B2)

wherein R is an optionally substituted alkyl, alkenyl, aryl or alkylaryl group; R^1 is an alkyl, aryl or alkylaryl group having up to 36 carbon atoms; R^2 and R^3 are the same or different alkyl groups having from 1 to 36 carbon atoms; X is an alkylene group having from 1 to 20 carbon atoms; n is from 0 to 20; m is from 1 to 5; and R^4 is hydrogen or a C_1 to C_{36} alkyl group, wherein the compound of formula (A) is an ester of a carboxylic acid selected from a substituted aromatic carboxylic acid, an α-hydroxycarboxylic acid and a polycarboxylic acid.

14. Use according to claim 12 or 13, to reduce existing deposits ("clean-up") or to reduce deposit formation ("keep clean").

15. Use according to one or more of claims 12, 13 and 14, where the gasoline engine is a direct injection spark ignition gasoline engine.

16. A method of controlling deposits and/or of improving the efficiency in a spark ignition gasoline engine, the method comprising adding into the gasoline to be combusted:

(i) one or more quaternary ammonium salt(s) as defined in any of claims 1 to 7, and

(ii) optionally, one or more additional components selected from a) – e) as defined in claim 8, 9 or 10.