

Title (en)
METHOD OF OPERATING INTERNAL COMBUSTION ENGINE BY INTRODUCING DETERGENT INTO COMBUSTION CHAMBER

Title (de)
VERFAHREN ZUM BETRIEB EINER BRENNKRAFTMASCHINE DURCH EINFÜHRUNG VON DETERGENTEN IN DER BRENNKAMMER

Title (fr)
PROCEDE DE FONCTIONNEMENT D'UN MOTEUR A COMBUSTION INTERNE CONSISTANT A INTRODUIRE UN DETERGENT DANS UNE CHAMBRE DE COMBUSTION

Publication
EP 1490461 A2 20041229 (EN)

Application
EP 03721631 A 20030328

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Abstract (en)
[origin: WO03083020A2] In a method operating an internal combustion engine, a nitrogen-containing detergent composition is introduced into a combustion chamber of the engine wherein the detergent composition can improve the performance of both a fuel composition and a lubricating oil of the engine. The detergent composition contains (A) a reaction product of a hydrocarbyl-substituted acylating agent and an amine, (B) a hydrocarbyl-substituted amine, (C) a Mannich reaction product, (D) a high molecular weight polyetheramine, or (E) a mixture thereof.

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