

Title (en)

USE FOR REDUCING INTAKE VALVE DEPOSITS

Title (de)

VERWENDUNG ZUR VERMINDERUNG DER EINLASSVENTILABLAGERUNGEN

Title (fr)

UTILISATION POUR REDUIRE LES DEPÔTS DANS LES SOUPAPES D'ADMISSION

Publication

EP 1820841 A1 20070822 (EN)

Application

EP 06125006 A 20061129

Priority

- EP 06101638 A 20060214
- EP 06125006 A 20061129

Abstract (en)

Intake valve deposits in a direct injection internal combustion engine are reduced by lubricating the engine with a lubricant that is substantially free of ashless organic friction modifiers and whose base oil has a Noack volatility of less than 12 mass %.

IPC 8 full level

C10M 171/00 (2006.01)

CPC (source: EP)

C10M 171/00 (2013.01); **C10M 2207/289** (2013.01); **C10M 2215/08** (2013.01); **C10N 2020/02** (2013.01); **C10N 2020/085** (2020.05); **C10N 2030/04** (2013.01); **C10N 2030/42** (2020.05); **C10N 2030/43** (2020.05); **C10N 2030/45** (2020.05); **C10N 2040/25** (2013.01); **C10N 2040/252** (2020.05); **C10N 2040/253** (2020.05); **C10N 2040/255** (2020.05); **C10N 2070/02** (2020.05)

Citation (applicant)

WO 2004094573 A1 20041104 - LUBRIZOL CORP [US], et al

Citation (search report)

- [X] EP 1318189 A1 20030611 - INFINEUM INT LTD [GB]
- [X] EP 1505144 A1 20050209 - INFINEUM INT LTD [GB]
- [X] US 2002137636 A1 20020926 - HARTLEY ROLFE J [US], et al
- [X] WO 2004003113 A1 20040108 - SHELL INT RESEARCH [NL], et al

Cited by

EP3415589A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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DOCDB simple family (application)

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