

Title (en)
COMPOSITION FOR CLEANING AND COATING THE INTERIOR OF AN INTERNAL COMBUSTION ENGINE AND METHOD FOR CLEANING AND COATING THE INTERIOR OF AN INTERNAL COMBUSTION ENGINE THEREWITH

Title (de)
ZUSAMMENSETZUNG ZUR REINIGUNG UND ZUR BESCHICHTUNG VOM INNENRAUM EINER BRENNKRAFTMASCHINE UND METHODE ZUR REINIGUNG UND BESCHICHTUNG VOM INNENRAUM EINER BRENNKRAFTMASCHINE DAMIT

Title (fr)
COMPOSITION DE NETTOYAGE ET D'ENDUCTION DE L'INTERIEUR D'UN MOTEUR A COMBUSTION INTERNE ET PROCEDE DE NETTOYAGE ET D'ENDUCTION DE L'INTERIEUR D'UN MOTEUR A COMBUSTION INTERNE AVEC LADITE COMPOSITION

Publication
EP 0811676 A4 19980902 (EN)

Application
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Priority
JP 9500281 W 19950224

Abstract (en)
[origin: EP0811676A1] Provided is a composition for cleaning and coating of the inside of internal combustion engines and cleaning and coating metallic surface of rotating parts and sliding parts of the engines which contains a zinc phosphate, a solvent, a surface active agent, a natural vegetable oil and a mineral oil as components. This composition diminishes friction applied to rotating parts and sliding parts of internal combustion engines and diminishes friction loss by cleaning and coating and, in addition, reduces causes for incomplete combustion in combustion chamber to improve performance of engines and inherent performance of internal combustion engines. Further provided is a method for cleaning and coating of engines using said composition.

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IPC 8 full level
C11D 3/02 (2006.01); **C11D 3/06** (2006.01); **C11D 3/18** (2006.01); **C11D 3/382** (2006.01); **C11D 3/43** (2006.01); **C23C 22/03** (2006.01); **C23G 5/06** (2006.01); **F02B 77/02** (2006.01); **F02B 77/04** (2006.01)

CPC (source: EP KR)
C10M 173/00 (2013.01 - KR); **C11D 3/046** (2013.01 - EP); **C11D 3/06** (2013.01 - EP KR); **C11D 3/18** (2013.01 - EP); **C11D 3/382** (2013.01 - EP); **C11D 3/43** (2013.01 - EP KR); **C11D 17/00** (2013.01 - KR); **C23C 22/03** (2013.01 - EP); **C23G 5/06** (2013.01 - EP); **F02B 77/02** (2013.01 - EP); **F02B 77/04** (2013.01 - EP); **C11D 2111/20** (2024.01 - EP)

Citation (search report)

- [A] DE 3708909 A1 19871015 - WERNER DREISOERNER GMBH [DE]
- [A] DE 4129529 A1 19930311 - HENKEL KGAA [DE]
- [A] US 2626225 A 19530120 - BRANDES OLIVER L, et al
- [A] FR 2388899 A1 19781124 - PARKER STE CONTINENTALE [FR]
- [A] FR 1138382 A 19570613 - PARKER STE CONTINENTALE
- [A] FR 1191662 A 19591021
- [L] PATENT ABSTRACTS OF JAPAN vol. 095, no. 009 31 October 1995 (1995-10-31)
- See references of WO 9626256A1

Cited by
EP1905817A1; EP1600492A1; CN105733859A

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