

Title (en)

Lubricating oil supplying system for engine.

Title (de)

Schmierölaufuhrsystem für eine Brennkraftmaschine.

Title (fr)

Système de prélèvement de l'huile de lubrification pour un moteur à combustion interne.

Publication

**EP 0543423 A1 19930526 (EN)**

Application

**EP 92119901 A 19921123**

Priority

- JP 8929792 A 19920316
- JP 33278191 A 19911122

Abstract (en)

A lubricating system and method of operating the system for an internal combustion engine (21) wherein the amount of lubricant supplied to the engine (21) from a positive displacement engine driven pump (24) is varied by selectively delivering lubricant from the pump (24) to the engine or bypassing the lubricant back to the return of the pump (24). The amount of lubricant supplied is varied by changing both the duty ratio of the lubricant supply and the duration of engine supply in response to a map of engine conditions. Various control routines are disclosed and in each the lubricant supplied to the engine (21) is monitored so that once a finite amount of lubricant is supplied, lubricant is not supplied again to the engine until that amount previously supplied has been consumed. <IMAGE>

IPC 1-7

**F01M 3/02**

IPC 8 full level

**F01M 1/16** (2006.01); **F01M 3/02** (2006.01)

CPC (source: EP)

**F01M 3/02** (2013.01)

Citation (search report)

- [A] US 4904163 A 19900227 - TACHI KOZI [JP], et al
- [A] DE 2411513 A1 19750925 - AUDI AG
- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 121 (M-686)(2968) 15 April 1988 & JP-A-62 248 812 ( NIPPON SOKEN INC ) 29 October 1987
- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 204 (M-499)(2260) 17 July 1986 & JP-A-61 46 409 ( MAZDA MOTOR CORP ) 6 March 1986

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US5632241A; EP0756070A2

Designated contracting state (EPC)

DE FR

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**EP 0543423 A1 19930526; EP 0543423 B1 19961023**; DE 69214774 D1 19961128; DE 69214774 T2 19970220; JP 3172954 B2 20010604; JP H05321628 A 19931207

DOCDB simple family (application)

**EP 92119901 A 19921123**; DE 69214774 T 19921123; JP 27766892 A 19920924