

Title (en)
Internal combustion engine with cylinder lubricating system

Title (de)
Brennkraftmaschine mit Zylinderschmierungsvorrichtung

Title (fr)
Moteur à combustion avec un dispositif de lubrification des cylindres

Publication
EP 1586751 A2 20051019 (EN)

Application
EP 05007869 A 20050411

Priority
JP 2004121098 A 20040416

Abstract (en)
An internal combustion engine having a plurality of lubricators (12a,12b,12c...12n) attached to one cylinder (11) for supplying lube oil in the common lube oil feeding section (15) to the inner surface of the cylinder (11), wherein are provided a plurality of electromagnetic valves (17a,17b,17c...17n) for opening or closing oil passages (16a,16b...16n) connecting to the lubricators independently; lube oil supply pressure detectors (21) for detecting the lube oil supply pressure of each of the lubricators; and a controller (19) which controls the timing and period of opening of each of said electromagnetic valves in accordance with loads and rotation speeds of the engine, compares the detected lube oil supply pressure of each of the lubricators with a permissible value of lube oil supply pressure, and judges that abnormality has occurred in lube oil supply when the detected lube oil supply pressure exceeds the permissible value.

IPC 1-7
F01M 1/16; **F01M 1/08**

IPC 8 full level
F01M 1/06 (2006.01); **F01M 1/08** (2006.01); **F01M 1/16** (2006.01); **F01M 1/20** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP KR)
F01M 1/06 (2013.01 - KR); **F01M 1/08** (2013.01 - EP KR); **F01M 1/16** (2013.01 - EP KR)

Citation (applicant)
JP S59175619 U 19841124

Cited by
DK178033B1; DK179182B1; DK201670585A1; CN101240725A; CN111479987A; EP2961951A4; KR20160134846A; US8911217B2; WO2019114902A1; WO2015144182A1; WO2019114905A1; WO2019114903A1; KR20200096304A; KR20200096291A; EP3910169A1; EP2961951B1; EP2961951B2

Designated contracting state (EPC)
CH DE DK LI

DOCDB simple family (publication)
EP 1586751 A2 20051019; **EP 1586751 A3 20100324**; CN 101054914 A 20071017; CN 101054914 B 20111123; CN 1690374 A 20051102; CN 1690374 B 20100616; JP 2005299616 A 20051027; JP 4031772 B2 20080109; KR 100628012 B1 20060926; KR 20060045690 A 20060517

DOCDB simple family (application)
EP 05007869 A 20050411; CN 200510076263 A 20050418; CN 200710102829 A 20050418; JP 2004121098 A 20040416; KR 20050030923 A 20050414