

Title (en)
CLEANING INTERNAL COMBUSTION ENGINES

Title (de)
REINIGUNG VON BRENNKRAFTMASCHINEN

Title (fr)
NETTOYAGE DE MOTEURS A COMBUSTION INTERNE

Publication
EP 0738188 A1 19961023 (EN)

Application
EP 95906721 A 19941222

Priority
• US 9414921 W 19941222
• US 17305793 A 19931227

Abstract (en)
[origin: WO9517979A1] Cleaning internal combustion engines (16) includes drawing cleaning fluid from a reservoir (22) by a pump (74), flushing through the block of the internal combustion engine (16), and returning the fluid to the reservoir (22) by the pump (74). Prior to cleaning, flushing and soaking the engine (16), lubricant is withdrawn under a pressure differential from the engine block. A vacuum can be applied to the oil drain (20) for the engine block for effecting this withdrawal. Additionally or alternatively, pressure can be applied to the oil filter opening (18) to the engine block for facilitating the withdrawal of the lubricant.

IPC 1-7
B08B 9/00

IPC 8 full level
B08B 9/08 (2006.01); **B01D 35/02** (2006.01); **B08B 9/02** (2006.01); **F01M 11/04** (2006.01); **F02B 77/04** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)
B08B 9/0325 (2013.01); **F02B 77/04** (2013.01); **F02B 3/06** (2013.01); **F02F 2007/0092** (2013.01)

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 9517979 A1 19950706; AU 1519295 A 19950717; CA 2179997 A1 19950706; EP 0738188 A1 19961023; EP 0738188 A4 19961227; JP 3220157 B2 20011022; JP H09510521 A 19971021

DOCDB simple family (application)
US 9414921 W 19941222; AU 1519295 A 19941222; CA 2179997 A 19941222; EP 95906721 A 19941222; JP 51817195 A 19941222