

Title (en)  
METHOD FOR CONTROLLING OIL FLOW RATE IN A TWO-STROKE ENGINE WITH SEPARATE LUBRICATION AND RELATED ENGINE

Title (de)  
DURCHFLUSSSTEUERUNGSVERFAHREN DER SCHMIERÖL EINER ZWEITAKT BRENNKRAFTMASCHINE MIT GETRENNTER SCHMIERUNG

Title (fr)  
PROCEDE DE CONTROLE DU DEBIT D'HUILE DANS UN MOTEUR DEUX TEMPS A GRAISSAGE SEPRE ET UN MOTEUR ASSOCIE

Publication  
**EP 0958448 B1 20030903 (FR)**

Application  
**EP 98955711 A 19981120**

Priority

- FR 9802488 W 19981120
- FR 9714752 A 19971121

Abstract (en)  
[origin: FR2771448A1] The oil reservoir (4) is connected through a pump (5) and solenoid-controlled valve (3) to the engine (1). A non-return valve (11) in the delivery pipe (2) prevents oil bleeding into the engine when idle. A by-pass pipe (10), also with non-return valve (6), returns some of the pumped oil to the reservoir side of the pump from the control valve. The delivery and by-pass pipe dimensions are chosen to ensure the minimum delivery needed by the engine when the valve opens the by-pass, and the maximum when it closes it. Opt., the valve is arranged to vary the by-pass flow by intermediate displacement, or oscillatory operation at variable frequency. The valve is controlled by an electronic unit (7) with input from a thermal sensor (8) on the engine, e.g. included in the sparking-plug gasket (12), on the engine, e.g. included in the sparking-plug gasket (12), in air-cooled engines, or immersed in the coolant of liquid-cooled engines. Opt., supplementary control is derived from throttle action (applied (9) direct to the pump this provides an alternative control should the electronic system fail).

IPC 1-7  
**F01M 3/02**

IPC 8 full level  
**F01M 1/16** (2006.01); **F01M 3/02** (2006.01)

CPC (source: EP US)  
**F01M 3/02** (2013.01 - EP US)

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**FR 2771448 A1 19990528; FR 2771448 B1 19991231**; AR 017656 A1 20010912; BR 9807109 A 20000425; DE 69817767 D1 20031009; DE 69817767 T2 20040318; EP 0958448 A1 19991124; EP 0958448 B1 20030903; ES 2207009 T3 20040516; JP 2001513164 A 20010828; TW 432154 B 20010501; US 6283072 B1 20010904; WO 9927236 A1 19990603

DOCDB simple family (application)  
**FR 9714752 A 19971121**; AR P980105929 A 19981120; BR 9807109 A 19981120; DE 69817767 T 19981120; EP 98955711 A 19981120; ES 98955711 T 19981120; FR 9802488 W 19981120; JP 52781299 A 19981120; TW 87119338 A 19990225; US 34194999 A 19991013