

Title (en)  
ENGINE VALVE TIMING CONTROL SYSTEM

Publication  
**EP 0156996 B1 19880518 (EN)**

Application  
**EP 84115936 A 19841220**

Priority  
US 57535584 A 19840130

Abstract (en)  
[origin: EP0156996A1] An engine valve timing control system using electrohydraulic valve lifters or adjusters (51, 52, 53, 54, 55, 56, 57, 58) operatively connected to a microprocessor based electronic control unit (32) will provide real time charges in engine valve timing. As a result, engine performance will be improved over the mechanically controlled engine valves which at best are compromises between engine operating extremes. Each lifter is "homed" to the base circle of the cam through the use of check valves (67, 69, 69a) and high pressure pulses generated in the oil lines (60) supplying the lifters.

IPC 1-7  
**F01L 31/22; F01L 9/02**

IPC 8 full level  
**F01L 9/02** (2006.01); **F01L 9/10** (2021.01); **F01L 13/00** (2006.01); **F02D 13/02** (2006.01)

CPC (source: EP)  
**F01L 9/10** (2021.01); **F01L 13/0021** (2013.01); **F01L 13/0031** (2013.01)

Citation (examination)  

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Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0156996 A1 19851009; EP 0156996 B1 19880518**; CA 1237034 A 19880524; DE 3471342 D1 19880623; JP H0514082 B2 19930224; JP S60184936 A 19850920; KR 850007842 A 19851209; KR 910003261 B1 19910525

DOCDB simple family (application)  
**EP 84115936 A 19841220**; CA 471678 A 19850108; DE 3471342 T 19841220; JP 1367785 A 19850129; KR 840008478 A 19841228