

Title (en)

Variable timing device for independent intake and exhaust camshafts in an internal combustion engine

Title (de)

Drehwinkel-Verstellsystem für gesonderte Einlass- und Auslass-Nockenwellen einer Brennkraftmaschine

Title (fr)

Dispositif de réglage de l'angle de calage des arbres à cames d'admission et d'échappement d'un moteur à combustion interne

Publication

EP 0863297 B1 20011114 (DE)

Application

EP 98101111 A 19980123

Priority

DE 19708485 A 19970303

Abstract (en)

[origin: EP0863297A1] The system includes separate devices (5,6) for the relative turn angle setting of the camshafts (2,3) relative to a drive gear (7,8). The system further comprises a separate setting device (13, 14) on each side with coupling members (12,12'), hydraulic operating fittings (10,11) and provision for advanced and retarded settings of the exhaust camshaft (3). The hydraulic operating fittings are connected independently of each other to a lubricating oil supply (17) in parallel with the engine lubricating system. The exhaust camshaft advanced setting device (16) is in the form of a prestressed spring (18).

IPC 1-7

F01L 1/344

IPC 8 full level

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CPC (source: EP)

F01L 1/34406 (2013.01)

Cited by

EP1013899A3; EP1081341A3; US6367435B2; US6325031B1; US6247436B1; US6675752B1; WO0120135A1; WO9917002A1

Designated contracting state (EPC)

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