

Title (en)

Apparatus for the regulation of an internal combustion engine

Title (de)

Einrichtung zur Regelung einer Brennkraftmaschine

Title (fr)

Dispositif pour la régulation d'un moteur à combustion interne

Publication

EP 0684375 B1 19990825 (DE)

Application

EP 95107650 A 19950519

Priority

DE 4418577 A 19940527

Abstract (en)

[origin: EP0684375A1] The regulation system uses a sensor for detecting the position of the engine crankshaft, with simultaneous monitoring of the crankshaft revs by evaluating the crankshaft position signal, to control the fuel injection and ignition timing pulses supplied to the engine. The phase of the engine is determined by adjusting the ignition timing angle in successive steps and evaluating the corresponding variation in the crankshaft revs. Each determined crankshaft angle and phase are stored for comparison with the next set of values, to provide a validity check.

IPC 1-7

F02D 41/34; **F02D 41/06**

IPC 8 full level

F02D 41/06 (2006.01); **F02D 41/34** (2006.01); **F02D 41/04** (2006.01)

CPC (source: EP)

F02D 41/009 (2013.01); **F02D 41/062** (2013.01); **F02D 41/042** (2013.01); **F02D 2041/0092** (2013.01)

Citation (examination)

- US 4616617 A 19861014 - GEIGER ISTVAN [DE], et al
- US 4843556 A 19890627 - WAKEMAN ANTHONY C [GB], et al

Cited by

JP2009523956A; EP1533508A1; EP0846852A1; US5758625A; FR2888885A1; EP0942163A3; GB2446349A; GB2446349B; US7392790B2; US7370635B2; US7783412B2; WO2005010337A1; WO2007087165A1; WO2007010129A1; WO2006012026A1; US6595193B2; US6536410B1; WO0179679A1; WO0065219A1

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