

Title (en)  
Engine control apparatus

Title (de)  
Apparat zur Steuerung eines Motors

Title (fr)  
Appareil de commande de moteur

Publication  
**EP 1369572 A3 20060503 (EN)**

Application  
**EP 03011170 A 20030527**

Priority  
JP 2002163881 A 20020605

Abstract (en)  
[origin: EP1369572A2] In an air-cooled engine, the temperature of the engine is detected with high accuracy to control fuel injection in optimal conditions. In order to detect the temperature of the engine, a first temperature sensor (21) and second temperature sensor (22) are provided at two spaced portions respectively on a cylinder block (11), and based on the function of a temperature difference between temperatures T 1 and T 2 respectively detected by the first temperature sensor (21) and second temperature sensor (22) and the thermal resistance specific to the engine, a calculating circuit (34) calculates the engine temperature T 0 inside the engine. In this way, the detection (estimation) accuracy of the engine temperature is improved and the optimal engine control is performed.

IPC 8 full level  
**F02D 41/32** (2006.01); **F02D 45/00** (2006.01); **F01P 11/16** (2006.01); **F02B 61/02** (2006.01); **F02D 35/00** (2006.01); **F02D 41/04** (2006.01); **F02F 1/06** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)  
**F02B 61/02** (2013.01); **F02D 35/025** (2013.01); **F02D 41/32** (2013.01); **F02F 1/06** (2013.01); **F02B 2075/027** (2013.01); **F02B 2275/18** (2013.01); **F02D 2400/04** (2013.01); **F02D 2400/06** (2013.01); **F02D 2400/08** (2013.01)

Citation (search report)  
• [A] US 4493304 A 19850115 - NAKAJIMA TETSUO [JP], et al  
• [X] PATENT ABSTRACTS OF JAPAN vol. 016, no. 141 (M - 1232) 9 April 1992 (1992-04-09)  
• [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 357 (P - 1568) 6 July 1993 (1993-07-06)  
• [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05 30 June 1995 (1995-06-30)

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