

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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EP1564395A3; FR2996168A1; US2013054121A1; US9371786B2; US11280291B2; US9765724B2; US10947918B1

Designated contracting state (EPC)
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