Title (en)

Control device of engine intake throttle valve

Title (de)

Steuervorrichtung für die Drosselklappe einer Brennkraftmaschine

Title (fr)

Appareil de commande pour le papillon de la soupape d'admission d'air dans un moteur à combustion

Publication

EP 0978642 A2 20000209 (EN)

Application

EP 99110641 A 19990602

Priority

JP 22088598 A 19980804

Abstract (en)

The present invention offers a control device of an engine intake throttle valve (25) which optimizes a combustion condition of a combustion chamber (12) when an internal combustion engine (11) starts. The shorter an elapsed time after starting the engine, the higher a target throttle angle of the intake throttle valve (25) is. The target throttle angle changes to be lower in response to swift rising of the temperature of the combustion chamber (12), just after the engine (11) starts. Therefore the combustion condition of the combustion chamber (12) is optimized in the operation of starting the engine (11). Furthermore, the target throttle angle LSTRG is controlled according to the elapsed time after starting the engine (11), even though the coolant temperature changes slowly. Then, the combustion condition of the combustion chamber (12) is reliably optimized. <IMAGE>

IPC 1-7

F02D 41/06

IPC 8 full level

F02D 9/02 (2006.01); **F02D 11/10** (2006.01); **F02D 41/06** (2006.01)

CPC (source: EP)

F02D 11/105 (2013.01); **F02D 41/064** (2013.01)

Citation (applicant)

JP 2519120 B2 19960731

Cited by

EP1314875A1; FR2832761A1; US6795360B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0978642 A2 20000209; **EP 0978642 A3 20011205**; **EP 0978642 B1 20040310**; DE 69915418 D1 20040415; DE 69915418 T2 20050224; JP 2000054893 A 20000222

DOCDB simple family (application)

EP 99110641 A 19990602; DE 69915418 T 19990602; JP 22088598 A 19980804