

Title (en)  
Internal combustion engine

Title (de)  
Brennkraftmaschine

Title (fr)  
Moteur à combustion interne

Publication  
**EP 0992669 A3 20010919 (EN)**

Application  
**EP 99118823 A 19990923**

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• JP 28121398 A 19981002  
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Abstract (en)  
[origin: EP0992669A2] At a time of executing a low temperature combustion in which an amount of an EGR gas supplied within a combustion chamber (5) is more than an amount of the EGR gas when a generation amount of a soot becomes peak and the soot is hardly generated and changing a speed of an automatic transmission (60), in order to reduce a generated torque, an injection amount of a fuel injected from a fuel injection valve (6) is corrected to be increased so as to reduce an air fuel ratio, or a fuel injection timing is delayed, or an opening degree of an EGR control valve (31) is corrected to be increased so as to correct an amount of the EGR gas to increase, and further at a time of executing a combustion in which the amount of the EGR gas supplied within a combustion chamber (5) is less than the amount of the EGR gas when a generation amount of a soot becomes peak and the soot is hardly generated and changing a speed of an automatic transmission (60), in order to reduce a generated torque, the injection amount of the fuel injected from the fuel injection valve (6) is corrected to be reduced. <IMAGE>

IPC 1-7  
**F02D 43/00**; F02D 21/08; F02D 41/14

IPC 8 full level  
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Citation (search report)  
• [A] DE 4333424 A1 19940414 - NISSAN MOTOR [JP]  
• [A] EP 0732485 A2 19960918 - TOYOTA MOTOR CO LTD [JP]  
• [A] US 4148230 A 19790410 - KODAMA MASAYUKI, et al  
• [A] US 4467673 A 19840828 - HAMADA HIDEO [JP], et al  
• [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 09 30 September 1997 (1997-09-30)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11 26 December 1995 (1995-12-26)

Cited by  
EP1515033A3; CN109782742A; GB2502835A

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