

Title (en)

Method of operating a combustion engine in an innocuous manner

Title (de)

Verfahren zum schadstoffarmen Betrieb eines Verbrennungsmotors

Title (fr)

Procédé pour faire fonctionner un moteur à combustion interne de façon non nuisible

Publication

EP 0864735 B1 20011219 (DE)

Application

EP 98103226 A 19980225

Priority

DE 19710833 A 19970315

Abstract (en)

[origin: EP0864735A1] A procedure for operating an IC engine to be free of toxic emissions has at least one operating mode with a lean air/fuel ratio and one operating mode with a stoichiometric air/fuel ratio. Measures for reducing the NOx emissions are provided. The NOx reduction is effected during the operation in the stoichiometric mode in a previously given speed/torque range by timing adjustment from the point of optimum efficiency in the direction of retard. In the operating mode with a lean mixture, the timing is adjusted for optimum efficiency. The engine is run in a second speed/torque range with a lean mixture with a lower speed or torque than the first range and the two ranges are chosen so that the engine during normal operation is run more frequently in the second than in the first range.

IPC 1-7

F02B 17/00; **F02B 31/06**

IPC 8 full level

F02B 17/00 (2006.01); **F02B 31/06** (2006.01)

CPC (source: EP)

F02B 17/00 (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0864735 A1 19980916; **EP 0864735 B1 20011219**; DE 19710833 A1 19980917; DE 59802490 D1 20020131

DOCDB simple family (application)

EP 98103226 A 19980225; DE 19710833 A 19970315; DE 59802490 T 19980225