

Title (en)

Process for the reduction of the content of NO_x in the exhaust gas of an internal combustion engine

Title (de)

Verfahren zur NO_x-Reduzierung an gemischverdichtenden Brennkraftmaschinen

Title (fr)

Procédé pour la réduction de la teneur en NO_x des gaz d'échappement d'un moteur à combustion interne.

Publication

EP 0922846 A3 20020515 (DE)

Application

EP 98120906 A 19981104

Priority

DE 19755299 A 19971212

Abstract (en)

[origin: EP0922846A2] In an internal combustion engine NO_x reduction process, the lambda value is reduced at a low mean combustion space temperature and increased at a high mean temperature so that the engine can run near the cut-out limit under any operating conditions. In a NO_x reduction process for a mixture-compression internal combustion engine running in lean burn mode with a fuel/air ratio lambda of greater than 1, the lambda value is smoothly regulated by an engine control unit in accordance with the mean engine combustion space temperature such that the lambda value is reduced at a low mean temperature and increased at a high mean temperature so that the engine can be operated near the cut-out limit under any operating conditions.

IPC 1-7

F02D 41/14; F02D 33/02; F02D 41/02

IPC 8 full level

C12N 15/90 (2006.01); **F02D 33/02** (2006.01); **F02D 41/14** (2006.01)

CPC (source: EP)

F02D 41/1475 (2013.01); **F02D 41/1498** (2013.01); **F02D 41/1446** (2013.01); **F02D 2200/1015** (2013.01); **F02D 2250/36** (2013.01)

Citation (search report)

- [X] EP 0288056 A2 19881026 - HITACHI LTD [JP]
- [X] EP 0440211 A2 19910807 - TOYOTA MOTOR CO LTD [JP]
- [A] DE 3204842 A1 19830818 - VOLKSWAGENWERK AG [DE]
- [A] DE 3410930 A1 19851003 - MOTOREN WERKE MANNHEIM AG [DE]
- [A] DE 3733052 A1 19880407 - MITSUBISHI ELECTRIC CORP [JP]

Cited by

WO2010070199A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0922846 A2 19990616; **EP 0922846 A3 20020515**; **EP 0922846 B1 20040526**; AU 9705398 A 19990701; CA 2255462 A1 19990612; DE 19755299 A1 19990617; DE 59811462 D1 20040701

DOCDB simple family (application)

EP 98120906 A 19981104; AU 9705398 A 19981210; CA 2255462 A 19981211; DE 19755299 A 19971212; DE 59811462 T 19981104