

Title (en)

A compression ignition type engine with a device for exhaust treatment

Title (de)

Selbstzündende Brennkraftmaschine mit einer Einrichtung zum Nachbehandeln von Abgasen

Title (fr)

Moteur à allumage par compression avec un dispositif de traitement du gaz d'échappement

Publication

**EP 0971103 B1 20021120 (DE)**

Application

**EP 99112535 A 19990701**

Priority

DE 19830275 A 19980707

Abstract (en)

[origin: EP0971103A1] A method for reducing nitrous oxides in the exhaust gases of IC engines, especially self igniting engines, has a jet (14) in the exhaust manifold to direct a narrow jet of diesel fuel into the cylinder, past the open exhaust valve. The additional diesel fuel mixes with the high temperature combustion gasses and is cracked to produce reduction gasses which enable the reduction catalyzer (10) to reduce the nitrous oxides. The diesel jet operates when the exhaust valve is open. At least one jet is required per group of cylinders.

IPC 1-7

**F01N 3/20**; **F01N 3/08**

IPC 8 full level

**F01N 3/08** (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP)

**F01N 3/0842** (2013.01); **F01N 3/0871** (2013.01); **F01N 2610/03** (2013.01)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0971103 A1 20000112**; **EP 0971103 B1 20021120**; DE 19830275 A1 20000113; DE 59903446 D1 20030102

DOCDB simple family (application)

**EP 99112535 A 19990701**; DE 19830275 A 19980707; DE 59903446 T 19990701