

Title (en)

DEVICE FOR REDUCING THE QUANTITY OF EMITTED NITROGEN OXIDES OF A DIESEL ENGINE

Title (de)

VORRICHTUNG ZUR REDUZIERUNG DER MENGE DER EMITTIERTEN STICKOXIDE EINES DIESELMOTORS

Title (fr)

DISPOSITIF POUR REDUIRE LA QUANTITE D'OXYDES D'AZOTE EMIS D'UN MOTEUR DIESEL

Publication

EP 3721069 A1 20201014 (FR)

Application

EP 17835486 A 20171208

Priority

FR 2017053478 W 20171208

Abstract (en)

[origin: WO2019110877A1] A device for reducing the quantity of nitrogen oxides emitted in the exhaust fumes of a diesel engine, said diesel engine comprising a combustion chamber (34) and an air compressor (29), said device comprising: - a water treatment system, for demineralising the water to be injected, - a water injection system, for injecting the demineralised water into said diesel engine, said water injection being carried out after said air compressor (29) and before said combustion chamber (34), said water injection into the combustion air enabling a lowering of the combustion temperature and thus of the emissions of nitrogen oxides, - safety means, such as probes and solenoids, for limiting and/or preventing the risks of malfunction of said diesel engine because of said device, and - a control system, comprising control means for determining the water injection parameters and/or for managing said safety means.

IPC 8 full level

F02M 25/028 (2006.01); **F02B 47/02** (2006.01); **F02M 25/022** (2006.01); **F02M 43/00** (2006.01)

CPC (source: EP)

F02B 47/02 (2013.01); **F02M 25/0222** (2013.01); **F02M 25/0224** (2013.01); **F02M 25/0225** (2013.01); **F02M 25/0227** (2013.01); **F02M 25/028** (2013.01); **F02M 43/00** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

See references of WO 2019110877A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019110877 A1 20190613; EP 3721069 A1 20201014

DOCDB simple family (application)

FR 2017053478 W 20171208; EP 17835486 A 20171208