Title (en)

SYSTEM FOR TREATING NITROGEN OXIDES WHILE LIMITING AMMONIA EMISSIONS

Title (de)

SYSTEM ZUR BEHANDLUNG VON STICKOXIDEN UNTER BEGRENZUNG VON AMMONIAKEMISSIONEN

Title (fr)

SYSTÈME DE TRAITEMENT D'OXYDES D'AZOTE AVEC LIMITATION DES REJETS D'AMMONIAC

Publication

**EP 2074292 A2 20090701 (FR)**

Application

**EP 07858506 A 20071003**

Priority

- FR 2007052075 W 20071003
- FR 0654254 A 20061013

Abstract (en)

[origin: WO2008043937A2] The invention relates to a system for treating nitrogen oxides by selective catalytic reduction (SCR), intended to be installed in the engine exhaust system (10) of a vehicle. According to the invention, the nitrogen oxides are chemically reduced in an SCR catalytic converter (12) while injecting ammonia in the form of liquid urea (14), pure or in solution, said liquid urea (14) being stored in a special tank (16) intended to be installed in the vehicle. The system includes a return pipe (11) connecting an outlet of the tank (16) to the exhaust system (10) of the engine such as to direct the ammonia vapour emitted during the breakdown of the urea in the tank (16) towards the engine exhaust system (10) upstream of the SCR catalytic converter (12).

IPC 8 full level

**F01N 3/20** (2006.01)

CPC (source: EP)

**B01D 53/9431** (2013.01); **F01N 3/2066** (2013.01); B01D 2251/2067 (2013.01); B01D 2257/404 (2013.01); F01N 2610/02 (2013.01); F01N 2610/06 (2013.01); Y02A 50/20 (2017.12); Y02T 10/12 (2013.01)

Citation (search report)

See references of WO 2008043937A2

Citation (examination)

WO 2006011575 A1 20060202 - N E CHEMCAT CORP [JP], et al

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