

Title (en)
METHOD AND DEVICE FOR THE DOSED PROVISION OF A REDUCING AGENT, ESPECIALLY A SOLID REDUCING AGENT, FOR EXHAUST GAS SYSTEMS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR DOSIERTEN BEREITSTELLUNG EINES, INSBESONDERE ALS FESTSTOFF VORLIEGENDEN, REDUKTIONSMITTELS FÜR ABGASSYSTEME

Title (fr)
PROCEDE ET DISPOSITIF POUR DOSER UN AGENT DE REDUCTION, SE PRESENTANT NOTAMMENT SOUS FORME SOLIDE, POUR DES INSTALLATIONS DE GAZ D'ECHAPPEMENT

Publication
EP 1868707 A1 20071226 (DE)

Application
EP 06724118 A 20060407

Priority
• EP 2006003177 W 20060407
• DE 102005017402 A 20050415

Abstract (en)
[origin: WO2006108566A1] The invention relates to a device for use in the treatment of exhaust gases which comprises at least one exhaust gas line (1), through which an exhaust gas flows in a direction of flow (2), a supply (3) for a reducing agent (4) to the exhaust gas line (1), a control unit (5) for dosing the reducing agent (4) to be supplied, a support (6) that is positioned downstream of the supply (4), when seen in the direction of flow (2), and that comprises means for bringing about a chemical reaction of the reducing agent (4) with at least one component of the exhaust gas. The inventive device is characterized in that the support (6) includes at least one metallic base (7) which is at least partially coated with a coating (8) capable of accumulating the reducing agent (4). The invention also relates to two methods for the dosed provision of a reducing agent (4), especially a solid reducing agent. The inventive method and the device for carrying out the inventive method allow to economically use the reducing agent while guaranteeing an approximately 100 % reaction of the nitrogen oxides contained in the exhaust gas.

IPC 8 full level
B01D 53/94 (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP US)
B01D 53/56 (2013.01 - EP US); **B01D 53/79** (2013.01 - EP US); **B01D 53/90** (2013.01 - EP US); **B01D 53/9431** (2013.01 - EP US); **B01D 53/9495** (2013.01 - EP US); **F01N 3/2066** (2013.01 - EP US); **B01D 2251/2067** (2013.01 - EP US); **F01N 2570/18** (2013.01 - EP US); **F01N 2610/02** (2013.01 - EP US); **F01N 2610/12** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2006108566A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 2006108566 A1 20061019; DE 102005017402 A1 20061019; EP 1868707 A1 20071226; JP 2008536048 A 20080904; US 2008250779 A1 20081016

DOCDB simple family (application)
EP 2006003177 W 20060407; DE 102005017402 A 20050415; EP 06724118 A 20060407; JP 2008505782 A 20060407; US 87212107 A 20071015