

Title (en)

DEVICE FOR CLEANING EXHAUST GAS CONTAINING NOX

Title (de)

VORRICHTUNG ZUR REINIGUNG VON NOX HALTIGEN ABGASEN

Title (fr)

DISPOSITIF POUR LA PURIFICATION DE GAZ D'ÉCHAPPEMENT CONTENANT DES OXYDES D'AZOTE

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Application

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Abstract (en)

[origin: WO2011000685A1] The invention relates to a device (1) for cleaning an exhaust gas stream (2) containing NO_x, comprising a channel (3) through which a reactant (4) containing NH₃ can flow, wherein the channel (3) comprises a shell element (5), which surrounds the channel (3) and has an inlet opening (6) for feeding the reactant (4) containing NH₃ and an outlet opening (7). The exhaust gas stream (2) containing the NO_x can flow around the shell element (5). A distribution element (8) for distributing the reactant (4) containing the NH₃ can be connected to the shell element (5) such that, by means of the distribution element (8), the reactant (4) containing the NH₃ can be introduced into the exhaust gas stream (2) and mixed with the exhaust gas stream (2). The distribution element (8) comprises an opening (9), through which the reactant (4) containing the NH₃ can be introduced into the exhaust gas stream (2) as a gas phase, wherein the reactant (4) containing the NH₃ can be evaporated inside the shell element (5). The shell element (5) comprises a heat transmitting element (10), so that the shell element (5) can be heated by means of the exhaust gas stream (2).

IPC 8 full level

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