

Title (en)

METHOD FOR CARRYING OUT THE SELECTIVE CATALYTIC REDUCTION OF NITROGEN OXIDES WITH AMMONIA IN THE LEAN EXHAUST GAS OF A COMBUSTION PROCESS

Title (de)

VERFAHREN ZUR SELEKTIVEN KATALYTISCHEN REDUKTION VON STICKOXIDEN MIT AMMONIAK IM MAGEREN ABGAS EINES VERBRENNUNGSPROZESSES

Title (fr)

PROCEDE POUR LA REDUCTION CATALYTIQUE SELECTIVE D'OXYDES D'AZOTE AVEC DE L'AMMONIAC DANS DES EFFLUENTS GAZEUX MAIGRES DEGAGES PAR UN PROCESSUS DE COMBUSTION

Publication

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Application

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Abstract (en)

[origin: WO02094420A1] The invention relates to a method for carrying out the selective catalytic reduction of nitrogen oxides with ammonia in the lean exhaust gas of a combustion process executed using a first lean air/fuel mixture. According to the invention, the ammonia required for the selective reduction is obtained from a second rich air/fuel mixture, which contains nitrogen monoxide, by reducing the nitrogen monoxide in a  $\text{NH}_3$  synthesis stage to ammonia while forming a product gas stream. The ammonia produced thereby is separated out from the product gas stream and is stored in a storage medium for the requirement-orientated use during the selective catalytic reduction.

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