

Title (en)  
METHOD FOR DETERMINING A CORRECTED NITROGEN OXIDE VALUE AND AMMONIA VALUE IN AN INTERNAL COMBUSTION ENGINE

Title (de)  
VERFAHREN ZUM ERMITTELN EINES KORRIGIERTEN STICKOXIDWERTS UND AMMONIAKWERTS IN EINER BRENNKRAFTMASCHINE

Title (fr)  
PROCÉDÉ DE DÉTERMINATION D'UNE VALEUR D'OXYDE D'AZOTE ET D'UNE VALEUR D'AMMONIAC CORRIGÉES DANS UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 3430249 A1 20190123 (DE)**

Application  
**EP 17703718 A 20170202**

Priority  
• DE 102016204323 A 20160316  
• EP 2017052307 W 20170202

Abstract (en)  
[origin: WO2017157569A1] The invention relates to a method for determining a corrected nitrogen oxide value or corrected ammonia value in an internal combustion engine which has an SCR catalytic converter (20), a nitrogen oxide sensor (22), a urea injection device (26) and an ammonia sensor (24). The method comprises determining that the internal combustion engine is in an overrun cut-off phase, interrupting the urea injection, determining a nitrogen oxide reference value from a nitrogen oxide reference signal generated by the nitrogen oxide sensor (22) or determining an ammonia reference value from an ammonia reference signal generated by the ammonia sensor (24) and detecting a corrected nitrogen oxide value from a nitrogen oxide signal generated by the nitrogen oxide sensor (22) during normal operation of the internal combustion engine, taking into account the nitrogen oxide reference value or determining a corrected ammonia value from an ammonia signal generated by the ammonia sensor (24) during normal operation of the internal combustion engine, taking into account the ammonia reference value.

IPC 8 full level  
**F01N 3/20** (2006.01); **F01N 9/00** (2006.01)

CPC (source: EP US)  
**F01N 3/208** (2013.01 - EP US); **F01N 9/00** (2013.01 - EP US); **F02D 41/1463** (2013.01 - US); **F01N 2560/021** (2013.01 - EP US); **F01N 2560/026** (2013.01 - EP US); **F01N 2560/14** (2013.01 - EP US); **F01N 2610/02** (2013.01 - EP US); **F01N 2900/1402** (2013.01 - EP US); **F02D 2041/1468** (2013.01 - US); **Y02T 10/12** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)  
See references of WO 2017157569A1

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 2017157569 A1 20170921**; CN 108779696 A 20181109; CN 108779696 B 20210511; DE 102016204323 A1 20170921; DE 102016204323 B4 20180308; EP 3430249 A1 20190123; US 10738677 B2 20200811; US 2019112955 A1 20190418

DOCDB simple family (application)  
**EP 2017052307 W 20170202**; CN 201780017570 A 20170202; DE 102016204323 A 20160316; EP 17703718 A 20170202; US 201716085512 A 20170202