Sweden

(12) Patent specification (10) SE 540 087 C2

(21) Patent application number:	1651061-2	(51) Int.Cl.:	
(45) Grant of patent:	2018-03-20	***F01N 3/20***	(2006.01)
(41) Available to the public:	2018-01-15	***B01D 53/94***	(2006.01)
(22) Filing date:	2016-07-14	***F01N 11/00***	(2006.01)
(24) Effective date:	2016-07-14		
(30) Priority data:	---		

(73) Patentee: Scania CV AB, , 151 87 Södertälje SE
(72) Inventor: Joakim Sommansson, Grödinge SE
Fredrik Stråat, Stockholm SE
(74) Agent: Scania CV AB, , 151 87, Södertälje SE

(54) Title: A system and a method for diagnosing the performance of two NOx sensors in an exhaust gas processing configuration comprising two SCR units

(56) Cited documents: ---

(57) Abstract:

The invention relates to a method for diagnosing an exhaust gas processing configuration for a combustion engine (231) of a vehicle (100), said configuration comprising two SCR-units (240, 250), two NO_x-sensors (243, 253) and two reducing agent dosing units (237, 247) suitably arranged, comprising the steps of:

- performing a series of reducing agent dosing operations by a first reducing agent dosing unit;

- comparing measured NO_x-contents (NOx1, NOx2) measured by a first NO_x-sensor (243) and a second NO_x-sensor (253) related to said operations; and

- if the respective NO_x-content measured by the respective NO_x-sensors during the performed reducing agent dosing operations are substantially equal, considering that the respective NO_x-sensors provide a proper performance.

The invention relates also to a computer program product comprising program code (P) for a computer (200; 210; 500) for implementing a method according to the invention. The invention relates also to a system for diagnosing an exhaust gas processing configuration for a combustion engine (231) of a vehicle (100) and a motor vehicle (100) equipped with the system.

