

Title (en)

RADIO FREQUENCY EMISSIONS SENSING SYSTEM AND METHOD FOR THE CHARACTERIZATION OF SYSTEM OPERATION

Title (de)

HOCHFREQUENZEMISSIONSERFASSUNGSSYSTEM UND VERFAHREN ZUR CHARAKTERISIERUNG DES SYSTEMBETRIEBS

Title (fr)

SYSTÈME DE DÉTECTION D'ÉMISSIONS DE RADIOFRÉQUENCES (RF) ET PROCÉDÉ DE CARACTÉRISATION DE FONCTIONNEMENT DU SYSTÈME

Publication

EP 3504539 A1 20190703 (EN)

Application

EP 17778385 A 20170828

Priority

- US 201662380667 P 20160829
- US 2017048857 W 20170828

Abstract (en)

[origin: CN109891220A] An RF emissions sensing system including RF sensors for transmitting/receiving RF signals to and from engine system emission control components, a control unit for collecting/processing information from the RF signals and controlling system outputs. The RF emissions sensing system includes a means and method for the characterization of the operating state and/or performance of the engine system including the use of time-based or historical RF information and system outputs, the application/monitoring of perturbations to the engine system, the comparison of system outputs to baseline/reference system outputs, the periodic activation of the engine system after shut-down, the monitoring of changes in the electric or temperature profiles of the engine system emission control components, and communication with external sources to improve the accuracy of the system outputs.

IPC 8 full level

G01N 22/00 (2006.01); **F01N 11/00** (2006.01)

CPC (source: EP US)

F01N 3/021 (2013.01 - EP); **F01N 3/035** (2013.01 - EP); **F01N 3/101** (2013.01 - EP); **F01N 3/106** (2013.01 - EP); **F01N 3/2066** (2013.01 - EP); **F01N 11/00** (2013.01 - EP); **F01N 13/008** (2013.01 - EP); **G01N 22/00** (2013.01 - EP); **G07C 5/008** (2013.01 - US); **G07C 5/02** (2013.01 - US); **G07C 5/0808** (2013.01 - US); **G07C 5/085** (2013.01 - US); **H04L 67/12** (2013.01 - US); **B60W 2510/0676** (2013.01 - US); **B60W 2510/068** (2013.01 - US); **F01N 2550/02** (2013.01 - EP); **F01N 2550/04** (2013.01 - EP); **F01N 2560/12** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP); **Y02T 10/40** (2013.01 - EP)

Citation (search report)

See references of WO 2018044770A1

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)

CN 109891220 A 20190614; EP 3504539 A1 20190703

DOCDB simple family (application)

CN 201780066259 A 20170828; EP 17778385 A 20170828