

Title (en)
CALCULATION OF EXHAUST EMISSIONS FROM A MOTOR VEHICLE

Title (de)
BERECHNUNG VON ABGASEMISSIONEN EINES KRAFTFAHRZEUGS

Title (fr)
CALCUL D'ÉMISSIONS DE GAZ D'ÉCHAPPEMENT D'UN VÉHICULE À MOTEUR

Publication
EP 3698036 A1 20200826 (DE)

Application
EP 18793567 A 20181009

Priority
• DE 102017218476 A 20171016
• EP 2018077474 W 20181009

Abstract (en)
[origin: WO2019076685A1] The invention relates to a method for determining emissions (50) from a motor vehicle (10) driven by means of an internal combustion engine (20) during actual driving (real driving emissions), in which method a machine learning system is trained, using measured time curves of operating variables of the motor vehicle (10) and/or of the internal combustion engine (20), to generate time curves of the operating variables and then to determine the emissions depending on these generated time curves.

IPC 8 full level
F02D 41/24 (2006.01); **F01N 11/00** (2006.01); **F02D 41/14** (2006.01); **F02D 41/26** (2006.01); **F02D 41/28** (2006.01); **G05B 13/02** (2006.01); **G06N 20/00** (2019.01)

CPC (source: EP KR US)
F01N 11/007 (2013.01 - US); **F02B 77/086** (2013.01 - US); **F02D 41/1405** (2013.01 - US); **F02D 41/1439** (2013.01 - US); **F02D 41/1444** (2013.01 - US); **F02D 41/1452** (2013.01 - US); **F02D 41/1453** (2013.01 - US); **F02D 41/1458** (2013.01 - US); **F02D 41/1462** (2013.01 - US); **F02D 41/1465** (2013.01 - US); **F02D 41/2429** (2013.01 - EP KR); **F02D 41/26** (2013.01 - EP KR); **F02D 41/28** (2013.01 - US); **G01M 15/05** (2013.01 - US); **G01M 15/102** (2013.01 - US); **G05B 13/027** (2013.01 - US); **G05B 13/029** (2013.01 - US); **G06N 3/045** (2023.01 - EP KR); **G06N 3/088** (2013.01 - US); **G06N 7/01** (2023.01 - EP KR); **G06N 20/10** (2018.12 - EP KR); **F01N 11/00** (2013.01 - EP); **F01N 2900/0402** (2013.01 - EP KR); **F02D 41/1401** (2013.01 - EP KR); **F02D 41/1444** (2013.01 - EP KR); **F02D 2041/1433** (2013.01 - US); **F02D 2041/1437** (2013.01 - EP KR US); **F02D 2041/286** (2013.01 - EP KR); **G05B 13/027** (2013.01 - EP KR)

Citation (search report)
See references of WO 2019076685A1

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)
DE 102017218476 A1 20190418; CN 111201374 A 20200526; CN 111201374 B 20230512; EP 3698036 A1 20200826; JP 2020537087 A 20201217; JP 7119101 B2 20220816; KR 102538418 B1 20230602; KR 20200066348 A 20200609; US 11078857 B2 20210803; US 2020240346 A1 20200730; WO 2019076685 A1 20190425

DOCDB simple family (application)
DE 102017218476 A 20171016; CN 201880067313 A 20181009; EP 18793567 A 20181009; EP 2018077474 W 20181009; JP 2020541858 A 20181009; KR 20207013631 A 20181009; US 201816754321 A 20181009