

Title (en)  
CONTROLLER WITH A LEARNING CAPABILITY AND AUTOMATIC EXPLORATION FUNCTION OF AN OPERATING PARAMETER SPACE

Title (de)  
LERNFÄHIGES STEUERGERÄT MIT SELBSTÄNDIGER EXPLORATION EINES BETRIEBSPARAMETERRAUMS

Title (fr)  
DISPOSITIF DE COMMANDE AYANT UNE CAPACITÉ D'APPRENTISSAGE ET UNE FONCTION D'EXPLORATION AUTOMATIQUE D'UN ESPACE DE PARAMÈTRES DE FONCTIONNEMENT

Publication  
**EP 4244476 A1 20230920 (DE)**

Application  
**EP 21810945 A 20211109**

Priority  
• DE 102020129873 A 20201112  
• EP 2021081083 W 20211109

Abstract (en)  
[origin: WO2022101185A1] The invention relates to a motor controller (1) for an internal combustion engine (2) of a vehicle, comprising a control unit (3) for setting one or more control variables (4) on the basis of one or more measured variables (4) according to a stored control scheme; wherein the control unit (3) is designed to modify the stored control scheme when the control unit is used as intended with the operational internal combustion engine (2), which is being controlled by the motor controller (1), according to a specified learning algorithm, namely using at least one feedback parameter (6) which is associated with an optimization criterion and is provided to the control unit (3), in order to provide an improved control of the internal combustion engine (2).

IPC 8 full level  
**F02D 35/02** (2006.01); **F02D 41/14** (2006.01); **F02D 41/24** (2006.01)

CPC (source: EP US)  
**F02D 35/023** (2013.01 - EP); **F02D 41/1402** (2013.01 - EP US); **F02D 41/1406** (2013.01 - EP US); **F02D 41/1448** (2013.01 - US); **F02D 41/1497** (2013.01 - EP); **F02D 41/2477** (2013.01 - US); **F02D 41/2483** (2013.01 - EP); **F02D 13/0215** (2013.01 - EP); **F02D 41/1438** (2013.01 - EP); **F02D 41/2477** (2013.01 - EP); **F02D 2041/1437** (2013.01 - EP US); **F02D 2200/021** (2013.01 - US); **F02D 2200/024** (2013.01 - US); **F02D 2200/0404** (2013.01 - US); **F02D 2200/0614** (2013.01 - US); **F02D 2200/0625** (2013.01 - EP); **F02D 2200/1002** (2013.01 - EP US); **F02D 2200/101** (2013.01 - US)

Citation (search report)  
See references of WO 2022101185A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102020129873 B3 20220303**; EP 4244476 A1 20230920; US 2023407805 A1 20231221; WO 2022101185 A1 20220519

DOCDB simple family (application)  
**DE 102020129873 A 20201112**; EP 2021081083 W 20211109; EP 21810945 A 20211109; US 202118252123 A 20211109