



(11) **EP 3 594 481 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:  
**Corrected version no 1 (W1 B1)**  
**Corrections, see**  
**Bibliography INID code(s) 73**

(48) Corrigendum issued on:  
**22.03.2023 Bulletin 2023/12**

(45) Date of publication and mention  
of the grant of the patent:  
**15.02.2023 Bulletin 2023/07**

(21) Application number: **19182654.4**

(22) Date of filing: **26.06.2019**

(51) International Patent Classification (IPC):  
**F02D 41/18** <sup>(2006.01)</sup> **F02D 13/02** <sup>(2006.01)</sup>  
**F02D 41/00** <sup>(2006.01)</sup> **F02D 41/14** <sup>(2006.01)</sup>

(52) Cooperative Patent Classification (CPC):  
**F02D 41/182**; F02D 41/0077; F02D 2041/001;  
F02D 2041/1413; F02D 2041/1433;  
F02D 2200/0402; F02D 2200/0404;  
F02D 2200/0414; F02D 2200/703

(54) **ENGINE CONTROLLER AND ENGINE CONTROL METHOD**

MOTORSTEUERGERÄT UND MOTORSTEUERUNGSVERFAHREN

ORGANE DE COMMANDE DE MOTEUR ET PROCÉDÉ DE COMMANDE DE MOTEUR

(84) Designated Contracting States:  
**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**

(30) Priority: **13.07.2018 JP 2018133204**  
**12.10.2018 JP 2018193335**  
**12.10.2018 JP 2018193337**

(43) Date of publication of application:  
**15.01.2020 Bulletin 2020/03**

(73) Proprietor: **TOYOTA JIDOSHA KABUSHIKI**  
**KAISHA**  
**Toyota-shi,**  
**Aichi-ken, 471-8571 (JP)**

(72) Inventors:  
• **YAMADA, Takafumi**  
**Toyota-shi, Aichi-ken,, 471-8571 (JP)**

- **SHIBATA, Hiroyuki**  
**Toyota-shi, Aichi-ken,, 471-8571 (JP)**
- **KURITA, Shunsuke**  
**Toyota-shi, Aichi-ken,, 471-8571 (JP)**
- **ANAMI, Takahiro**  
**Toyota-shi, Aichi-ken,, 471-8571 (JP)**

(74) Representative: **Kuhnen & Wacker**  
**Patent- und Rechtsanwaltsbüro PartG mbB**  
**Prinz-Ludwig-Straße 40A**  
**85354 Freising (DE)**

(56) References cited:  
**JP-A- 2013 221 418 JP-B2- 4 404 354**  
**US-A- 4 773 375 US-A- 5 619 974**  
**US-A1- 2004 186 653**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).