



(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 72

(51) Int Cl.:
B60W 10/08 ^(2006.01) **B60K 6/365** ^(2007.10)
B60K 6/44 ^(2007.10) **B60K 6/442** ^(2007.10)
B60K 6/48 ^(2007.10) **B60K 6/52** ^(2007.10)
B60K 6/54 ^(2007.10) **B60W 10/06** ^(2006.01)
B60W 20/00 ^(2006.01)

(48) Corrigendum issued on:
13.11.2013 Bulletin 2013/46

(86) International application number:
PCT/JP2010/069587

(43) Date of publication:
11.09.2013 Bulletin 2013/37

(87) International publication number:
WO 2012/059999 (10.05.2012 Gazette 2012/19)

(21) Application number: **10859256.9**

(22) Date of filing: **04.11.2010**

(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

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

(72) Inventors:
• **IL, Ryoki**
Toyota-shi, Aichi-ken, 471-8571 (JP)
• **SATO, Akihiro**
Toyota-shi, Aichi-ken, 471-8571 (JP)
• **YAMAMURA, Norihiro**
Toyota-shi, Aichi-ken, 471-8571 (JP)
• **NISHIMINE, Akiko**
Toyota-shi, Aichi-ken, 471-8571 (JP)

- **MARUYAMA, Tomoyuki**
Toyota-shi, Aichi-ken, 471-8571 (JP)
- **MIYAGAWA, Takeshi**
Toyota-shi, Aichi-ken, 471-8571 (JP)
- **FURUKAWA, Tomoaki**
Toyota-shi, Aichi-ken, 471-8571 (JP)
- **KANAYAMA, Takeshi**
Toyota-shi, Aichi-ken, 471-8571 (JP)
- **HORI, Tetsuo**
Toyota-shi, Aichi-ken, 471-8571 (JP)
- **HAYASHI, Koji**
Toyota-shi, Aichi-ken, 471-8571 (JP)

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

(54) **CONTROL DEVICE OF HYBRID VEHICLE**

(57) A vehicle control apparatus configured to selectively establish one of a first drive state in which a vehicle drive force is generated primarily by a second motor/generator MG2 operated with an electric energy supplied from an electric-energy storage device 60 while an engine 12 is placed in a rest state, and a second drive state in which a first motor/generator MG1 is operated with a drive force of the engine 12, to generate an electric energy and in which the vehicle drive force is generated primarily by the second motor/generator MG2 operated with at least the electric energy generated by the first motor/generator MG1. The vehicle control apparatus is further configured such that the vehicle drive force gen-

erated in the second drive state at a given value of an accelerator pedal operation amount θ_{acc} is larger than that generated in the first drive state. Thus, the output characteristic is set such that the vehicle drive force generated primarily by the electric motor in the drive state in which the engine 12 is placed in the operated state is larger than that generated in the drive state in which the vehicle drive force is generated by only the electric motor, so that the vehicle operator hearing an operating sound of the engine 12 can feel drivability of the vehicle as expected from the operating sound.

FIG.5

