

CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau



(10) International Publication Number WO 2013/144696 A8

(43) International Publication Date 3 October 2013 (03.10.2013)

(51) International Patent Classification: F02D 41/14 (2006.01) F02D 41/00 (2006.01) F02D 41/34 (2006.01) F02D 19/08 (2006.01)

(21) International Application Number: PCT/IB2013/000357

(22) International Filing Date: 11 March 2013 (11.03.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 2012-080962 30 March 2012 (30.03.2012) JP

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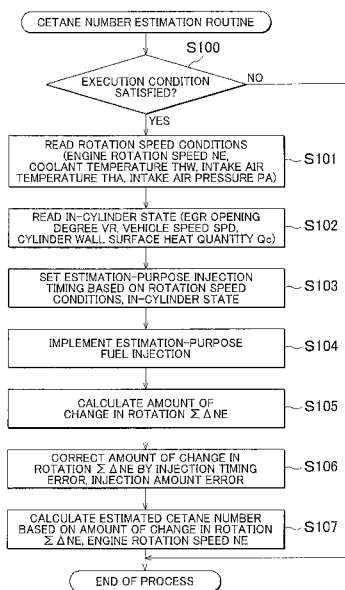
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: ENGINE FUEL PROPERTY ESTIMATION APPARATUS

FIG. 4



(57) Abstract: An engine fuel property estimation apparatus according to the invention estimates the ignition quality (cetane number) of fuel based on torque produced after fuel injection. By variably setting the timing of the fuel injection for estimating the cetane number (cetane number estimation-purpose injection timing) according to the EGR opening degree VR, the vehicle speed SPD and the cylinder wall surface heat quantity Qc (SI 03), the influence that change in the ignition delay that is caused by a factor other than the ignition property of the fuel has the results of estimation of the cetane number is restrained.



WO 2013/144696 A8



Published:

— *with international search report (Art. 21(3))*

(15) Information about Correction:

see Notice of 5 December 2013

(48) Date of publication of this corrected version:

5 December 2013