



(51) International Patent Classification:

G05D 1/10 (2006.01) G08G 5/06 (2006.01)
B64F 5/60 (2017.01)

(21) International Application Number:

PCT/US2024/033778

(22) International Filing Date:

13 June 2024 (13.06.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/507,748 13 June 2023 (13.06.2023) US

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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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,

(54) Title: METHOD, SYSTEM, AND COMPUTER-READABLE MEDIUM FOR CALIBRATING PERFORMANCE PARAMETERS OF AN AIRCRAFT DURING A PHANTOM FUEL PROCEDURE

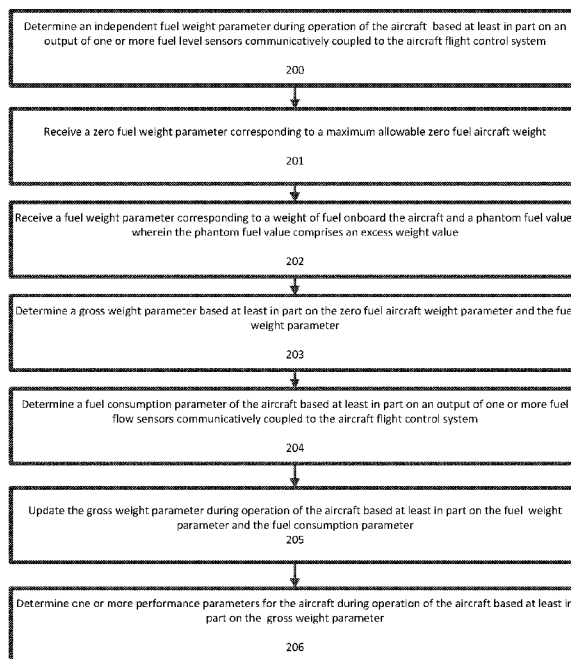


Fig. 2

(57) Abstract: A system, method, and computer-readable medium for calibrating performance parameters of an aircraft during a phantom fuel procedure, including determining an independent fuel weight parameter during operation of the aircraft value based on output of fuel level sensors of a fuel quantity subsystem coupled to the aircraft flight control system, receiving a zero fuel weight parameter, receiving a fuel weight parameter corresponding to a weight of fuel onboard the aircraft and a phantom fuel value, determining a gross weight parameter based on the zero fuel weight, determining a fuel consumption parameter value of the aircraft based on output of fuel flow sensors coupled to the aircraft flight control system, updating the gross weight parameter during operation of the aircraft based on the fuel weight parameter and the fuel consumption parameter value, and determining performance parameter for the aircraft during



RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

- (84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, 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, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

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

(88) Date of publication of the international search report:

27 February 2025 (27.02.2025)

operation of the aircraft based on the gross weight parameter.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2024/033778

A. CLASSIFICATION OF SUBJECT MATTER

IPC - INV. G05D 1/10; B64F 5/60 (2024.01)

ADD. G08G 5/06 (2024.01)

CPC - INV. G05D 1/10; B64F 5/60

ADD. G05D 1/852; G08G 5/0047; G08G 5/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History document

Electronic database consulted during the international search (name of database and, where practicable, search terms used)

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2021/0047054 A1 (FUEL MATRIX LTD.) 18 February 2021; the entire document	1-33
A	US 2019/0339111 A1 (THE BOEING COMPANY) 07 November 2019; the entire document	1-33
A	US 10,556,703 B1 (ROCKWELL COLLINS, INC.) 11 February 2020; the entire document	1-33

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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Date of the actual completion of the international search

23 August 2024 (23.08.2024)

Date of mailing of the international search report

SEP 12 2024

Name and mailing address of the ISA/

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

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