

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 July 2024 (04.07.2024)



(10) International Publication Number
WO 2024/144952 A9

(51) International Patent Classification:

B64D 27/359 (2024.01) B64C 29/00 (2006.01)
B64D 31/16 (2024.01) B64D 27/357 (2024.01)
B64D 35/021 (2024.01) B64D 27/33 (2024.01)

(21) International Application Number:

PCT/US2023/080798

(22) International Filing Date:

21 November 2023 (21.11.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/427,043 21 November 2022 (21.11.2022) US

(71) Applicant: JETOPTERA, INC. [US/US]; 123 Second Avenue, Suite 200, Edmonds, WA 98020 (US).

(72) Inventor: EVULET, Andrei; 123 Second Avenue S, Suite 200, Edmonds, WA 98020 (US).

(74) Agent: BLACK, Richard Thomas; Fisherbroyles LLP, 19410 Hwy 99, Suite A208, Lynnwood, WA 98036 (US).

(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, 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,

(54) Title: VERTICAL AND SHORT TAKE OFF AND LANDING LIFT BOOSTER SYSTEM

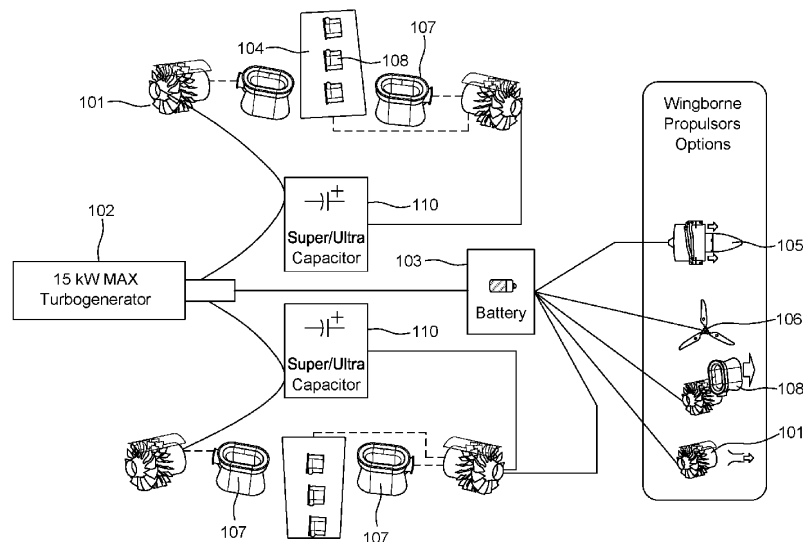


FIGURE 1

(57) Abstract: A propulsion system for a vehicle includes at least one generator; at least one ultracapacitor coupled to the at least one generator; at least one battery coupled to the at least one generator; at least one compressor coupled to the at least one generator, the at least one ultracapacitor and the at least one battery; and at least one propulsive element coupled to the compressor.

[Continued on next page]

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:

02 August 2024 (02.08.2024)

(48) Date of publication of this corrected version:

12 September 2024 (12.09.2024)

(15) Information about Correction:

see Notice of 12 September 2024 (12.09.2024)