



- (51) **International Patent Classification:**
B64C 1/00 (2006.01) *B64D 11/00* (2006.01)
- (21) **International Application Number:**
PCT/IB2015/054086
- (22) **International Filing Date:**
29 May 2015 (29.05.2015)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/005,271 30 May 2014 (30.05.2014) US
62/109,898 30 January 2015 (30.01.2015) US
- (71) **Applicant:** ZODIAC AEROSPACE [FR/FR]; 61, Rue Pierre Curie, F-78373 Plaisir Cedex (FR).
- (72) **Inventors:** BRUNAUX, Yannick; 1, Place Charcot, F-59170 Croix (FR). SIVIGNON, Sebastien; 27, Chemin Du Moulin, F-31490 Brax (FR). GILL, Alison; 178, Rue Henri Desbals, F-31100 Toulouse (FR). APPOLT, Britta; Hohenstein 94, 51515 Kuerten (DE). MARTIN, Claude; 1, Route De Chanterenard, F-18120 Lury Sur Arnon (FR). BLAUWHOFF, Ramon; Noordeinde 5, NL-2451AE Leimuiden (NL).
- (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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, 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, SA, 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.

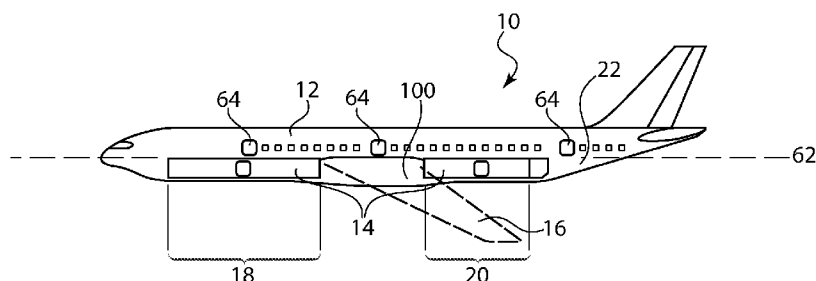
- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**
17 March 2016

(54) **Title:** LOWER DECK COMMERCIAL CABIN

**FIG. 1**

(57) **Abstract:** Embodiments of the present invention provide systems and methods for allowing use of what has traditionally been a cargo area of a passenger aircraft to be used as a lower deck passenger cabin. Various modifications to the aircraft are described, as well as various features to be added in order to enhance the passenger experience. For example, there may be provided a lowered technical floor (32), stairs or other passageways (50) provided at both ends of the lower deck cabin, a window replacement technique, an alternative way of storing cabin luggage, or any combination thereof.

