



(51) International Patent Classification:
B64C 31/036 (2006.01) **B64D 1/22** (2006.01)

(21) International Application Number:
PCT/IL2010/000468

(22) International Filing Date:
14 June 2010 (14.06.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/223,130 6 July 2009 (06.07.2009) 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, 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, JP, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

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))

(54) Title: POWERED PARAFOIL CARGO DELIVERY DEVICE AND METHOD

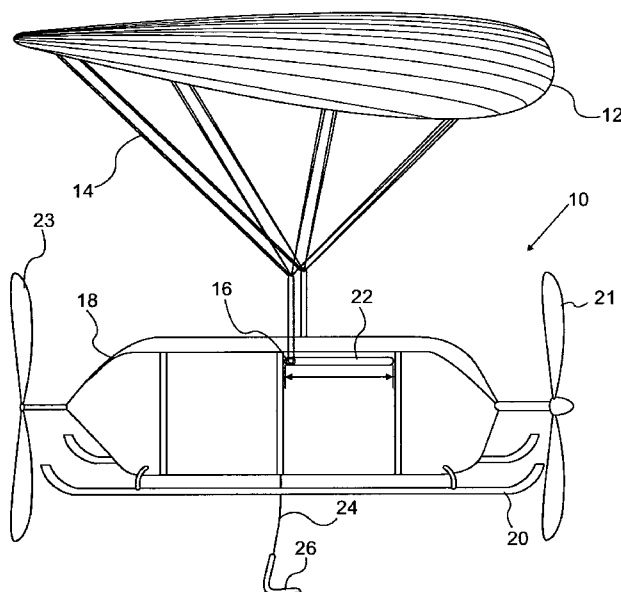


FIG. 1A

(57) Abstract: A powered parafoil device (10) is disclosed. The device includes a main body (18) provided with at least one thrust generator for imparting the main body- thrust (21, 23) in a determined direction. The device is also includes a parafoil (12) connected to the main body by cords (14) attached to the main body at attachment positions (16), and a tilting mechanism for tilting the main body with respect to the parafoil, when airborne. The tilting mechanism is capable of tilting the main body between at least two states: in the first state the determined direction of the thrust is substantially parallel to the direction of flight of the device when airborne, and in the second state the determined direction of the thrust is tilted with respect to the direction of flight of the device when airborne, imparting the main body a thrust vector component in the vertical direction. A method for increasing lift of a powered parafoil device and methods for cargo delivery are also disclosed.