



(43) International Publication Date
11 July 2013 (11.07.2013)

(51) International Patent Classification:

B64D 39/00 (2006.01) **B64D 39/06** (2006.01)
B64D 39/04 (2006.01)

(21) International Application Number:

PCT/IL2013/050013

(22) International Filing Date:

3 January 2013 (03.01.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

217364	4 January 2012 (04.01.2012)	IL
217365	4 January 2012 (04.01.2012)	IL
61/728,985	21 November 2012 (21.11.2012)	US

(71) Applicant: **ISRAEL AEROSPACE INDUSTRIES LTD.**
[IL/IL]; Ben Gurion International Airport, 70100 Lod (IL).

(72) Inventors: **RIX, Ohad**; 1 Teper Street, 74042 Nes Ziona (IL). **GUR, Joshua**; 1 Mishmar Hagvul Street, 97752 Jerusalem (IL). **LITVAK, Michael**; 28 Yelin Mor Natan Street, 67015 Tel Aviv (IL). **KOSKAS, Elie**; Hey Be'Iyar 117/1, 48056 Rosh Haayin (IL).

(74) Agent: **REINHOLD COHN & PARTNERS**; P.O.B. 13239, 61131 Tel-Aviv (IL).

(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, 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, 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).

Published:

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

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

27 February 2014

(54) Title: DEVICES, SYSTEMS AND METHODS FOR REFUELING AIR VEHICLES

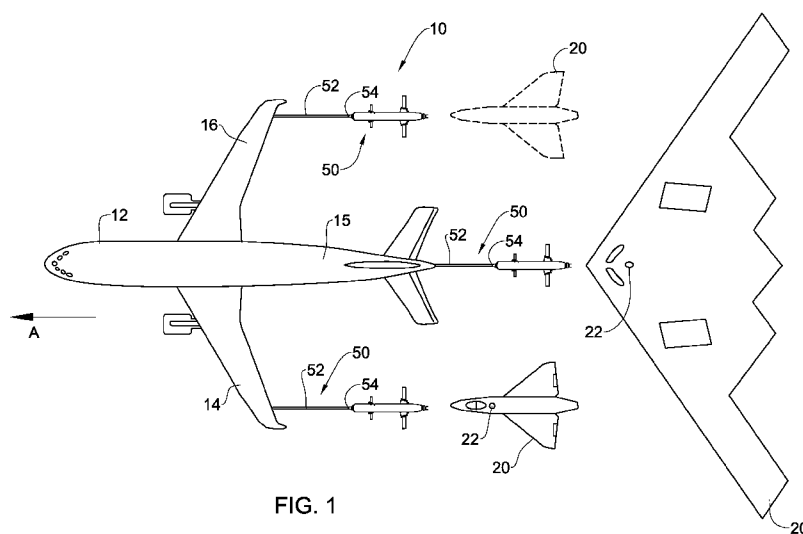


FIG. 1

(57) Abstract: A variety of refueling devices, systems and methods are disclosed for use in in-flight refueling. In one example one such device is towed by a tanker aircraft via a fuel hose at least during in-flight refueling, and has a boom member with a boom axis. The boom member enables fuel to be transferred from the fuel hose to a receiver aircraft along the boom axis during in-flight refueling. The device maintains a desired non-zero angular disposition between the boom axis and a forward direction at least when the refueling device is towed by the tanker aircraft in the forward direction via the fuel hose.

