

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
11 December 2003 (11.12.2003)

PCT

(10) International Publication Number
WO 2003/102509 A3

(51) International Patent Classification⁷: **B64D 37/00**

(21) International Application Number:
PCT/IL2002/000976

(22) International Filing Date: 4 December 2002 (04.12.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
149988 3 June 2002 (03.06.2002) IL

(71) Applicant and

(72) Inventor: PADAN, Nir [IL/IL]; Moshav Sade Yitzhak,
38840 Moshav Sade Yitzhak (IL).

(74) Agents: AGMON, Jonathan et al.; Soroker-Agmon, Ad-
vocates and Patent Attorneys, Nolton House, 14 Shenkar
Street, Herzliya Pituach 46725 (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

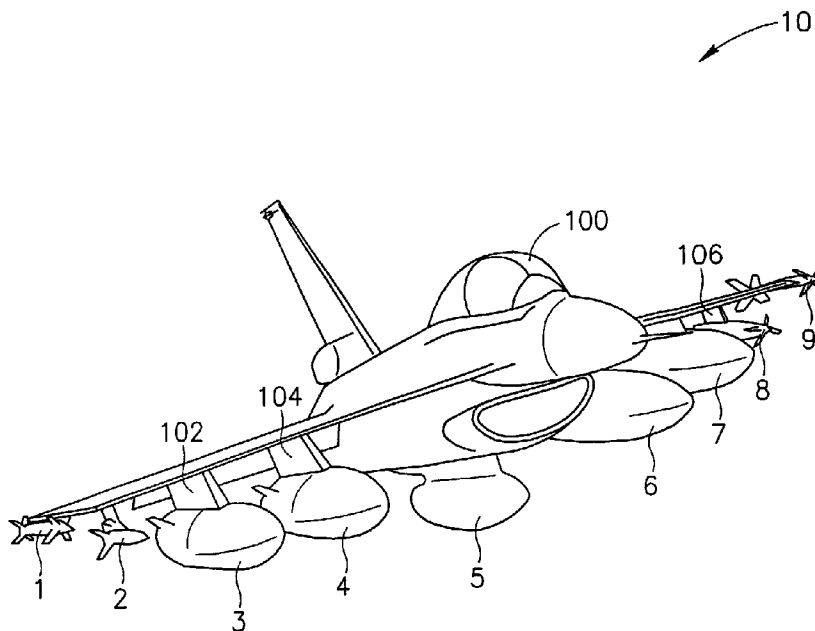
Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
29 April 2004

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ENHANCEMENTS TO FUEL STORAGE VOLUME AND FUEL CARRIAGE CAPACITY



(57) Abstract: A system and method for enhancing the fuel stores volume of an aerial vehicle (10) is disclosed. An extended external fuel stores configuration utilizes an alternative fuel transfer path. An external fuel tank (3, 7) is suspended on a external fuel tank carrier pylon (102) uploaded on a outboard wing "pseudo-wet" stores station. The pylon is linked to a dual functionality external fuel tank carrier pylon (104) uploaded on an inboard wing "wet" station. The pylon (104) is capable of transmitting, and controlling the fuel store in the auxiliary fuel container (3, 7) attached to the pylon (102) uploaded on a outboard wing "pseudo-wet" station. An externally mounted stores transfer kit links the inboard pylon (104) and the outboard pylon (102).

WO 2003/102509 A3