



(51) International Patent Classification:

F41J 2/00 (2006.01) *F41J 9/10* (2006.01)
F41J 9/08 (2006.01)

(21) International Application Number:

PCT/IL2009/000484

(22) International Filing Date:

13 May 2009 (13.05.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

191445 14 May 2008 (14.05.2008) IL

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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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, 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:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: AIRCRAFT DECOY ARRANGEMENT

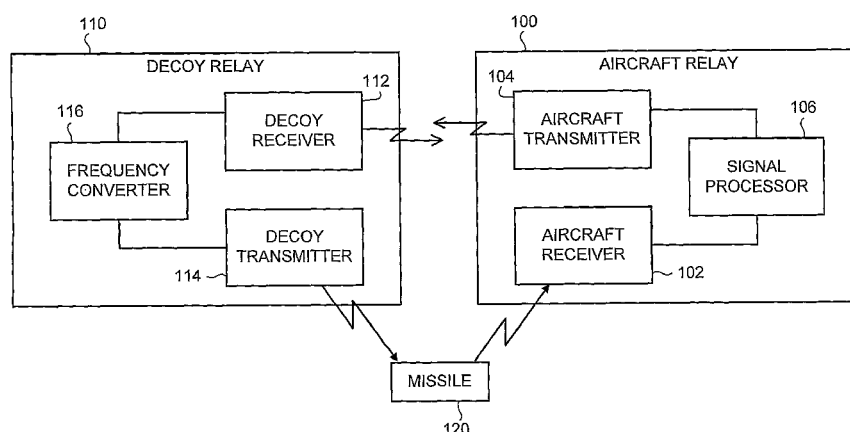


FIG. 2

(57) Abstract: Aircraft decoy arrangement and method for generating a decoy signal from an aircraft having an isolated decoy. An aircraft receiver detects a threat signal from a threat source targeting the aircraft. An aircraft signal processor produces a decoy relay signal based on the threat signal, where the decoy relay signal frequency is significantly lower than the threat signal frequency and is slowly attenuated through air, the signal processor calibrating the decoy relay signal in accordance with a received test signal to compensate for inaccuracies. An aircraft transmitter transmits the decoy relay signal and an optional reference signal to the decoy, where it is received by a decoy receiver, converted back to a decoy signal by a decoy frequency converter, and transmitted by a decoy transmitter, causing the threat source to detect the decoy signal and lock onto the decoy rather than the aircraft.