

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 March 2022 (17.03.2022)



(10) International Publication Number
WO 2022/054048 A1

(51) International Patent Classification:
G01S 19/42 (2010.01) G01S 5/02 (2010.01)

(21) International Application Number:
PCT/IL2021/051085

(22) International Filing Date:
05 September 2021 (05.09.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
277350 14 September 2020 (14.09.2020) IL

(71) Applicant: ISRAEL AEROSPACE INDUSTRIES LTD.
[IL/IL]; Ben-Gurion International Airport, 7010000 Lod
(IL).

(72) Inventors: ROZENBERG, Ohad; P.O. Box 453, 7681200
Yad Binyamin (IL). SAIDOV, Menachem; Nahal Yagur
15/1, 7174929 Modiin (IL).

(74) Agent: KRAVETZ, Yossi; REINHOLD COHN AND
PARTNERS, P.O. Box 13239, 6113102 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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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).

(54) Title: POSITIONING USING SATELLITE BEACON

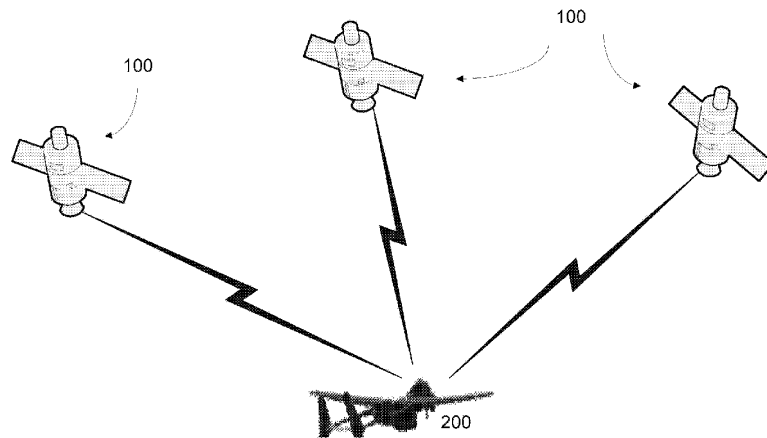


Fig. 1

(57) Abstract: According to the presently disclosed subject matter, it is suggested to use beacon signals as a navigational aid. More specifically, a platform equipped with a suitable communication antenna (e.g., beyond line of sight (BLOS) communication antenna) can search for a plurality of beacon signals, identify the signals, and determine the position of the platform using techniques such as triangulation.

[Continued on next page]

WO 2022/054048 A1

Published:

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