

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 August 2022 (04.08.2022)



(10) International Publication Number
WO 2022/162658 A1

- (51) **International Patent Classification:**
H04B 15/02 (2022.01) *H04W 72/04* (2022.01)
- (21) **International Application Number:**
PCT/IL2022/050101
- (22) **International Filing Date:**
25 January 2022 (25.01.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
280438 26 January 2021 (26.01.2021) IL
- (71) **Applicant:** **RAFAEL ADVANCED DEFENSE SYSTEMS LTD.** [IL/IL]; P.O.B. 2250, 3102102 Haifa (IL).
- (72) **Inventors:** **BRILLANT, Avigdor**; 39 HaTeena Street, 3092779 Zichron Yaakov (IL). **PEZO, David**; 49 Sderot Ben Avi, 4230865 Netanya (IL). **AZOULAY, Rafael**; 31 Argaman Street, 1790600 Shimshit (IL). **CAHANA, David**; 21 Raul Wallenberg Street, 3499024 Haifa (IL).
- (74) **Agent:** **LUZZATTO, Kfir** et al.; LUZZATTO & LUZZATTO, P.O. BOX 5352, 8415202 BEER SHEVA (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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

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

(54) **Title:** METHOD AND SYSTEM FOR COEXISTENCE AND SPURIOUS MITIGATION IN MULTICOM PLATFORMS

(57) **Abstract:** A multi-communication (MC) system supporting mitigation plan for interfering spurious products, comprising: a) at least one first client that is configured to perform wireless communication; b) at least one second client that is capable of generating spurious product that potentially interferes with said first client communication; c) a Clock-Frequency-Base Band Management Unit (CF-BBMU) module configured to repeatedly: i. generates a spurious map based on data collected from one or more of said clients; and ii. utilizes said generated spurious map to mitigate clients' interference.

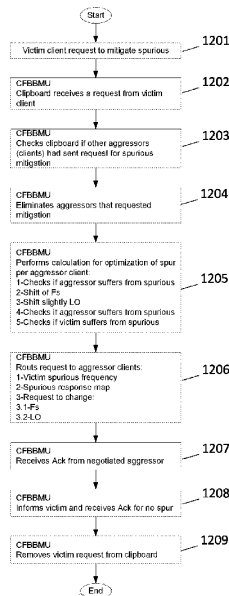


Figure 12: Example client discussion via CFBBMU for spurious mitigation

WO 2022/162658 A1