

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
07 December 2023 (07.12.2023)



(10) International Publication Number
WO 2023/234878 A1

(51) International Patent Classification:

G01S 7/495 (2006.01) F41G 7/00 (2006.01)
F41H 11/02 (2006.01) F41G 7/22 (2006.01)

(SI). ZUPANČIČ, Luka; CARBOTEH TECHNOLOGIES d.o.o., Podjunska ulica 13, 1000 Ljubljana (SI). KOSMAČ, Jure; CARBOTEH TECHNOLOGIES d.o.o., Podjunska ulica 13, 1000 Ljubljana (SI).

(21) International Application Number:

PCT/SI2023/050008

(74) Agent: ITEM D.O.O.; Resljeva cesta 16, 1000 Ljubljana (SI).

(22) International Filing Date:

02 June 2023 (02.06.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/SI2022/050018

02 June 2022 (02.06.2022)

SI

(71) Applicant: CARBOTEH TECHNOLOGIES D.O.O.
[SI/SI]; Podjunska ulica 13, 1000 Ljubljana (SI).

(72) Inventors: KNEŽEVIĆ, Srečko; CARBOTEH TECHNOLOGIES d.o.o., Podjunska ulica 13, 1000 Ljubljana (SI). PETERCA, Primož; CARBOTEH TECHNOLOGIES d.o.o., Podjunska ulica 13, 1000 Ljubljana (SI). SERNEC, Radovan; CARBOTEH TECHNOLOGIES d.o.o., Podjunska ulica 13, 1000 Ljubljana

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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,

(54) Title: DEVICE FOR ANTI-AIRCRAFT SPOOFING AND JAMMING AND AN AIR DEFENSE SYSTEM COMPRISING SAID DEVICE

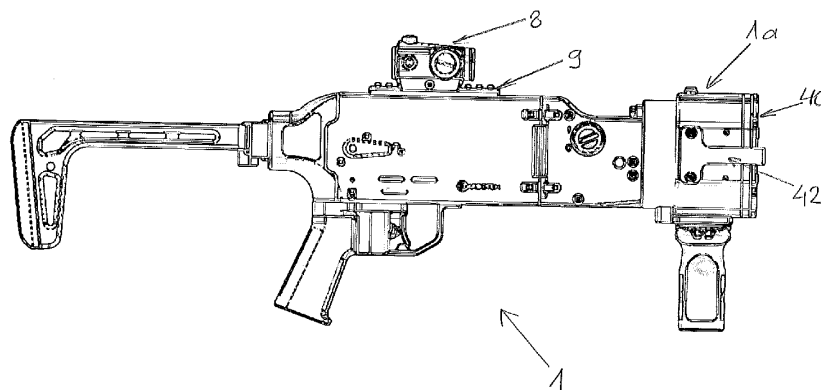


Fig. 4

(57) Abstract: The invention refers to a counter countermeasures device, for use in an anti - aircraft combat. In one embodiment the CCM device together with an anti-aircraft weapon system forms an air defense system. The counter countermeasures device is configured for generating and emitting electromagnetic radiation of appropriate wavelengths and is capable of operating in spoof and jam mode and switching between both modes. The mode of operation is dependent on the selection of the output power of the EM source unit and the distance to the target. The selection of the output power may be done with a mechanical cover or with an electronic solution, decreasing driving current of the EM sources. With the CCM device the anti-aircraft missile launch warning and detection system installed on aircrafts are deceived and the countermeasures are released. With the use of the CCM device the efficiency of the anti-aircraft combat is highly improved, i.e. the probability of the target hit is highly improved.

[Continued on next page]

DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, ME, 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).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*