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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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,

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Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

(54) **Title:** COUNTERMEASURE DEPLOYMENT SYSTEM FACILITATING NEUTRALIZATION OF TARGET AERIAL VEHICLES

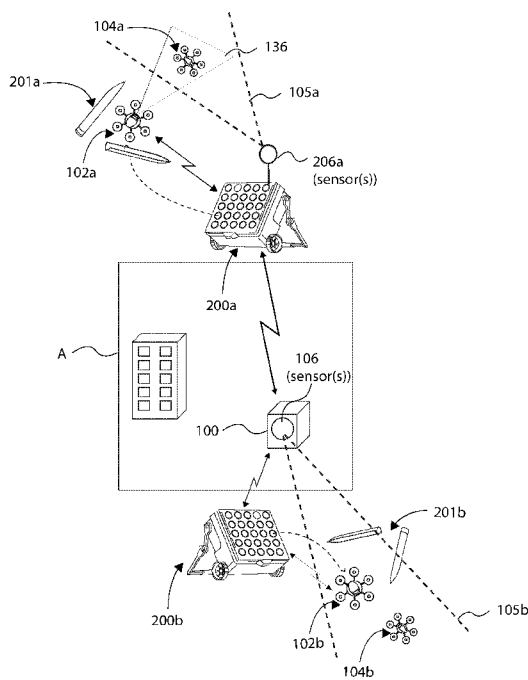


FIG. 1

(57) **Abstract:** A system for neutralizing target aerial vehicles (104a, 104b) comprises a projectile launching mechanism (200a, 200b) that launches a projectile that supports a counter-attack unmanned aerial vehicle (UAV, 102a, 102b) having an aerial vehicle countermeasure (134). The counter-attack UAV can be folded in the projectile (201a, 201b), and operable to unfold when separated from the projectile. The system comprises an aerial vehicle detection system (100) comprising a detection sensor (106a) that detects a target aerial vehicle. Upon detection, the projectile launching mechanisms launches the projectile, and the counter-attack UAV is thereafter separated from the projectile to operate in flight to neutralize the detected target aerial vehicle with the aerial vehicle countermeasure. The projectile launching mechanism can comprise a movable platform (203) comprising a plurality of projectiles and counter-attack UAVs, and can comprise a detection sensor to detect target aerial vehicles.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/114761 A1 (SELLS II HAROLD R [US]) 7 May 2009 (2009-05-07)	1,3-8, 13,16, 18, 22-26, 28,33, 35-37, 39,40,42
Y	paragraph [0003] - paragraph [0035]; claims 1, 16; figures 1-8	2,9-11, 14,15, 19,20, 27,29, 34,38
A	----- -/--	12,17, 21, 30-32,41

Further documents are listed in the continuation of Box C.

See patent family annex.

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Date of the actual completion of the international search 15 July 2020	Date of mailing of the international search report 24/07/2020
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Kirchmayr, Sara
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	FR 2 965 908 A1 (THALES SA [FR]) 13 April 2012 (2012-04-13) claim 1; figures 1-3	10,11, 14,15, 20,29,38 1-9,12, 13, 16-19, 21-28, 30-37, 39-42
Y A	----- US 2017/261292 A1 (ARMSTRONG MICHAEL J [US] ET AL) 14 September 2017 (2017-09-14) figure 1	14,29,38 1-13, 15-28, 30-37, 39-42
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INTERNATIONAL SEARCH REPORT

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