

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 158502WO/411 066	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2018/045825	International filing date (<i>day/month/year</i>) 8 August 2018 (08-08-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 9 August 2017 (09-08-2017)
Applicant RAYTHEON BLACKBIRD TECHNOLOGIES, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1
 as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2018/045825

A. CLASSIFICATION OF SUBJECT MATTER
INV. G01S3/20
ADD.

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)
G01S H04B

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, COMPENDEX, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>General Dynamics Mission Systems: "AN/PRC-155 Networking Manpack Radios 2-channel networking radio with embedded encryption and GPS Common Core Radio Approach",</p> <p>29 March 2016 (2016-03-29), XP055524140, Retrieved from the Internet: URL:https://gdmissionsystems.com/-/media/General-Dynamics/C4ISR-Technologies/Radios/PDF/radios-prc-155-manpack-radio-datasheet.ashx?la=en&hash=029E223AF85F550C00F45DE41315A3EB3F7E254A [retrieved on 2018-11-15] page 1, section Overview page 2, sections Technical Specifications and Features and Benefit ----- -/--</p>	1,3-12

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search 16 November 2018	Date of mailing of the international search report 11/12/2018
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 Tancredi, Urbano

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2018/045825

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
L	<p>General Dynamics Mission Systems: "How does the PRC-155 connect you?", ³ 29 March 2016 (2016-03-29), XP055524160, https://gdmissionsystems.com/radios/networking-radios/prc-155-manpack-radio/ Retrieved from the Internet: URL:https://gdmissionsystems.com/-/media/General-Dynamics/C4ISR-Technologies/Radios/Images/2016-manpack-prc-155-infographic.aspx [retrieved on 2018-11-15] the whole document</p>	1,3-12
Y	<p>----- WO 2016/082091 A1 (HUAWEI TECHNOLOGIES CO LTD) 2 June 2016 (2016-06-02) figures 1,6,8 & US 2017/332201 A1 (ZHANG XIAOPING [CN] ET AL) 16 November 2017 (2017-11-16) figures 1, 6, 8 paragraphs [0002] - [0003], [0085] - [0099], [0140] - [0141], [0159] - [0162]</p>	1-13
Y	<p>----- US 2004/070515 A1 (BURKLEY RAYMOND [US] ET AL) 15 April 2004 (2004-04-15) figures 1,2,5,6 paragraphs [0040] - [0046], [0053] - [0057], [0063] paragraphs [0071] - [0081], [0083] - [0091]</p>	1-5,8, 10-13
Y	<p>----- US 2007/060045 A1 (PRAUTZSCH FRANK R [US]) 15 March 2007 (2007-03-15) figures 1B, 1D, 1E, 2C, 6, 8 paragraphs [0003] - [0007], [0033] - [0049], [0053], [0057]</p>	1,3-8, 10-13
A	<p>----- US 2014/349626 A1 (BISHOP JR JAMES W [US] ET AL) 27 November 2014 (2014-11-27) figure 1 paragraphs [0019] - [0025]</p>	1,5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2018/045825

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2016082091 A1	02-06-2016	CN 106664575 A EP 3214863 A1 US 2017332201 A1 WO 2016082091 A1	10-05-2017 06-09-2017 16-11-2017 02-06-2016

US 2004070515 A1	15-04-2004	NONE	

US 2007060045 A1	15-03-2007	US 2007060045 A1 WO 2007084147 A2	15-03-2007 26-07-2007

US 2014349626 A1	27-11-2014	NONE	
