

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PC-21096832	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2018/064039	International filing date (<i>day/month/year</i>) 29 May 2018 (29-05-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 2 June 2017 (02-06-2017)
Applicant ROSEMOUNT TANK RADAR AB		

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/EP2018/064039

A. CLASSIFICATION OF SUBJECT MATTER
INV. G01F23/284 G01S13/88
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)
G01F G01S G11C G06F

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	Brian Ginsburg ET AL: "Fluid-level sensing using 77-GHz millimeter wave", 3 May 2017 (2017-05-03), XP055499812, Retrieved from the Internet: URL:http://www.ti.com/lit/wp/spyy004/spyy004.pdf [retrieved on 2018-08-14] the whole document	1-19
X	US 2008/278145 A1 (WENGER FABIAN [SE]) 13 November 2008 (2008-11-13) paragraphs [0028] - [0041]; figures 1, 2, 3 ----- -/--	1,4,9, 10,14, 15,19

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 August 2018	Date of mailing of the international search report 23/08/2018
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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 Myrillas, K
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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/064039

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Anonymous: "MSP Low-Power Microcontrollers", 23 March 2016 (2016-03-23), XP055500341, Retrieved from the Internet: URL: http://www.ti.com/lit/sg/slab034ad/slab034ad.pdf [retrieved on 2018-08-16] page 2 - page 5	1-3, 15-18
A	----- US 2004/143769 A1 (DENG XIAOWEI [US] ET AL) 22 July 2004 (2004-07-22) abstract	3,15,16, 18
A	----- US 2006/268648 A1 (DANG LUAN A [US] ET AL) 30 November 2006 (2006-11-30) abstract	3,6,15, 16,18
A	----- US 2015/092477 A1 (CHIOU LIH-YIH [TW] ET AL) 2 April 2015 (2015-04-02) abstract	2,3, 15-18
A	----- US 2016/018511 A1 (NAYYAR JASBIR SINGH [IN] ET AL) 21 January 2016 (2016-01-21) paragraph [0044]; figure 5	1,4,15
A	----- DAN WANG ET AL: "Synthetic Aperture Radar on low power multi-core Digital Signal Processor", HIGH PERFORMANCE EXTREME COMPUTING (HPEC), 2012 IEEE CONFERENCE ON, IEEE, 10 September 2012 (2012-09-10), pages 1-6, XP032301800, DOI: 10.1109/HPEC.2012.6408665 ISBN: 978-1-4673-1577-7 the whole document	1,4,15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2018/064039

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008278145	A1	13-11-2008	CN 101681552 A
			EP 2153428 A1
			US 2008278145 A1
			WO 2008136752 A1

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			TW 201513114 A
			US 2015092477 A1

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			EP 3198297 A1
			JP 2017521669 A
			US 2016018511 A1
			WO 2016011407 A1
