

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P-WO106167V	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/FI2017/050628	International filing date (<i>day/month/year</i>) 06 September 2017 (06.09.2017)	(Earliest) Priority date (<i>day/month/year</i>) NONE
Applicant ROCSOLE LTD		

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 6 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 43.6bis(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. 6

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/FI2017/050628

A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

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)

IPC: G01N, G01R, G01V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

FI, SE, NO, DK

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

EPODOC, EPO-Internal full-text databases, Full-text translation databases from Asian languages, WPIAP, PRH-Internal, XP3GPP, XPAIP, XPESP, XPETSI, XPI3E, XPIEE, XPIETF, XPIOP, XPIPCOM, XPJPEG, XPMISC, XPOAC, XPRD, XPTK, COMPDX, INSPEC, TDB, NPL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0062100 A2 (PROCESS TOMOGRAPHY FORESIGHT T [GB]) 19 October 2000 (19.10.2000) page 1, first, sixth, seventh par.; page 2, third par.; page 3, second, third par.; page 4, fourth par.; page 5, second, third par.; claims 1, 7; figs. 1, 4, 7-9	1-14
X	JP 2013195343 A (IHI CORP) 30 September 2013 (30.09.2013) figs. 1a-2e, 5a-6d & machine translation into English by ThomsonReuters [online] EPOQUENET TXPJPEA par. [0007], [0014]-[0015], [0020], [0025]-[0028], [0049]; claim 1	1-3, 7-14
X	US 2011025336 A1 (FORGANG STANISLAV WILHELM [US] et al.) 03 February 2011 (03.02.2011) par. [0014]-[0015], [0023], [0025]-[0026], [0036]-[0040], [0042]-[0043]; claims 1-2; figs. 1-4	1-14

 Further documents are listed in the continuation of Box C.
 See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 07 February 2018 (07.02.2018)	Date of mailing of the international search report 16 February 2018 (16.02.2018)
Name and mailing address of the ISA/FI Finnish Patent and Registration Office FI-00091 PRH, FINLAND Facsimile No. +358 29 509 5328	Authorized officer Ville Möttönen Telephone No. +358 29 509 5000

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI2017/050628

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2014013830 A1 (WANG QIMING [CN] et al.) 16 January 2014 (16.01.2014) par. [0026], [0030], [0033]-[0037], [0040], [0059], [0063]; figs. 1-6	1, 6, 8
X	ES 2211336 A1 (ANGOSTO MARTINEZ DIEGO [ES]) 01 July 2004 (01.07.2004) figs. 1A-1B, 2B & machine translation into English by EPO [online] EPOQUENET TXPMTEA page 1, first par.; page 2, second-third par.; page 3, first-third par.; claim 1	1, 3-4, 6, 8
A	WO 2017105432 A1 (HALLIBURTON ENERGY SERVICES INC [US]) 22 June 2017 (22.06.2017) page 1, third par.; page 5, fourth par.-page 8, first par.; figs. 1-5	1-5, 8-14
A	US 2002093348 A1 (BUHLER ERNST [CH] et al.) 18 July 2002 (18.07.2002) par. [0013], [0032]; claim 30; figs. 1	9-10

INTERNATIONAL SEARCH REPORT
Information on Patent Family Members

International application No.
PCT/FI2017/050628

Patent document cited in search report	Publication date	Patent family members(s)	Publication date
WO 0062100 A2	19/10/2000	AU 4416500 A GB 0126074 D0 GB 2363851 A GB 9908406 D0	14/11/2000 19/12/2001 09/01/2002 09/06/1999
JP 2013195343 A	30/09/2013	None	
US 2011025336 A1	03/02/2011	US 8299797 B2 PI 1011788 GB 201114290 D0 GB 2484174 A GB 2484174 B NO 20111309 A1 WO 2011014270 A1	30/10/2012 22/03/2016 05/10/2011 04/04/2012 09/10/2013 27/09/2011 03/02/2011
US 2014013830 A1	16/01/2014	US 9395349 B2 CA 2831645 A1 CN 102706401 A CN 102809588 A CN 102959366 A CN 102959366 B CN 102959391 A CN 102959391 B CN 202126424 U WO 2012129972 A1 WO 2012130112 A1	19/07/2016 04/10/2012 03/10/2012 05/12/2012 06/03/2013 11/06/2014 06/03/2013 29/10/2014 25/01/2012 04/10/2012 04/10/2012
ES 2211336 A1	01/07/2004	ES 2211336 B1 AU 2003294985 A1 WO 2004057320 A1	16/09/2005 14/07/2004 08/07/2004
WO 2017105432 A1	22/06/2017	None	
US 2002093348 A1	18/07/2002	US 6707304 B2 DE 10061691 A1 DE 10061691 B4 JP 2002187022 A	16/03/2004 20/06/2002 30/12/2004 02/07/2002

INTERNATIONAL SEARCH REPORT
Information on Patent Family Members

International application No.
PCT/FI2017/050628

Patent document cited in search report	Publication date	Patent family members(s)	Publication date
		JP 3963715 B2	22/08/2007
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CLASSIFICATION OF SUBJECT MATTER

IPC

G01N 27/07 (2006.01)**G01N 27/22** (2006.01)**G01N 33/28** (2006.01)**G01R 27/26** (2006.01)**G01R 27/22** (2006.01)**G01N 33/02** (2006.01)**G01N 33/34** (2006.01)