

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 10141/005405-WO0	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US 18/31368	International filing date (<i>day/month/year</i>) 07 May 2018 (07.05.2018)	(Earliest) Priority Date (<i>day/month/year</i>) 11 May 2017 (11.05.2017)
Applicant VERIDIUM IP LIMITED		

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 3 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/US 18/31368

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04L 29/06 (2018.01)

CPC - H04L 63/0861, H04L 63/0823, H04L 67/06, G06F 21/32, G06F 21/35, H04L 9/3268, H04L 63/0428, H04L 63/0815, H04L 63/102, H04L 9/3231, G06F 21/6218

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)

See Search History Document

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

See Search History Document

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

See Search History Document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y -- A	Aeri et al. "Vein Patterns as Bio-Metric Identifier using Euclidean Distance" In: International Journal of Computer Applications (0975 - 8887) Volume 89, No 20, March 2014 [online] [retrieved on 05 July 2018 (05.07.2018)] Retrieved from the Internet <URL: https://pdfs.semanticscholar.org/2914/a4e0ca6ae9709ca512f2e3e2802f057d23dd.pdf >, entire document, especially Abstract; pages 1-3	1-3, 6, 8-10, 12-15, 18, 20-22, 24 ----- 4-5, 7, 11, 16-17, 19, 23
Y -- A	US 2016/0373440 A1 (Hoyos Labs IP Ltd.), 22 December 2016 (22.12.2016), entire document, especially Abstract; para [0039], [0109]	1-3, 6, 8-10, 12-15, 18, 20-22, 24 ----- 4-5, 7, 11, 16-17, 19, 23
Y -- A	US 5,161,204 A (Hutcheson et al.), 03 November 1992 (03.11.1992), entire document, especially Abstract; col 26, ln 15 to col 27, ln 25; col 32, ln 25-61	2, 3, 6, 14, 15, 18 ----- 4-5, 7, 11, 16-17, 19, 23
Y -- A	US 2015/0278642 A1 (SUPERFISH LTD), 01 October 2015 (01.10.2015), entire document, especially Abstract; para [0016]-[0019], [0021]-[0024]	8-10, 12, 20-22, 24 ----- 4-5, 7, 11, 16-17, 19, 23
Y -- A	US 2012/0314974 A1 (Yang), 13 December 2012 (13.12.2012), entire document, especially Abstract; para [0117]-[0120], [0148]-[0152]	3, 15 ----- 4-5, 7, 11, 16-17, 19, 23

☒ 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

06 July 2018

Date of mailing of the international search report

23 JUL 2018

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

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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.
A	US 2009/0074259 A1 (Baltatu), 19 March 2009 (19.03.2009), entire document	1-24
A, P	US 2017/0140207 A1 (MorphoTrak, LLC), 18 May 2017 (18.05.2017), entire document	1-24