

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference AB5070-PCT-PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2019/027659	International filing date (<i>day/month/year</i>) 16 April 2019 (16.04.2019)	(Earliest) Priority Date (<i>day/month/year</i>) 08 November 2018 (08.11.2018)
Applicant INTEL CORPORATION		

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. 4

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.

A. CLASSIFICATION OF SUBJECT MATTER**G06F 9/50(2006.01)i, G06F 11/30(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
G06F 9/50; G06F 11/36; G06F 17/30; H04L 12/911; H04L 29/06; H04L 29/08; G06F 11/30Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & keywords: Function as a Service (FaaS), subsystem, computing resource, parameter, analyze, security**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2018-0034924 A1 (POLYBIT INC.) 01 February 2018 See paragraphs [0011], [0014], [0042], [0048]; claim 20; and figure 2.	1-30
A	US 2018-0254998 A1 (ALCATEL LUCENT) 06 September 2018 See paragraphs [0018], [0067], [0070]; claims 1, 19; and figures 1-6.	1-30
A	US 2018-0115551 A1 (BRIAN COLE) 26 April 2018 See paragraphs [0091]-[0146]; and figure 4.	1-30
A	US 10121021 B1 (CAPITAL ONE SERVICES, LLC) 06 November 2018 See column 8, line 36 - column 10, line 23; and figure 3.	1-30
A	US 2018-0113793 A1 (INTERNATIONAL BUSINESS MACHINES CORPORATION) 26 April 2018 See paragraphs [0024]-[0042]; and figures 1-2.	1-30

 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

"D" document cited by the applicant in the international application

"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

25 September 2019 (25.09.2019)

Date of mailing of the international search report

25 September 2019 (25.09.2019)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2019/027659

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2018-0034924 A1	01/02/2018	None	
US 2018-0254998 A1	06/09/2018	None	
US 2018-0115551 A1	26/04/2018	None	
US 10121021 B1	06/11/2018	US 10242221 B1 US 10248809 B1	26/03/2019 02/04/2019
US 2018-0113793 A1	26/04/2018	JP 2018-073405 A US 10303582 B2 US 2018-0113791 A1 US 2019-0213111 A1	10/05/2018 28/05/2019 26/04/2018 11/07/2019