

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/066138

A. CLASSIFICATION OF SUBJECT MATTER*G06F 3/01*(2006.01)i

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)

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, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2014168061 A1 (KIM SUNG UN [KR]) 19 June 2014 (2014-06-19)	1-5,13-15
Y	paragraphs [0010] - [0020], [0029] - [0049]	6-12
Y	US 2012068917 A1 (HUANG KUANG-MAN [US] ET AL) 22 March 2012 (2012-03-22)	6-12
A	paragraphs [0011] - [0017], [0038] - [0041], [0057] - [0091], [0107] claims 1,4,8,11,12,15,18-20	1-5,13-15

 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

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“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

07 August 2018

Date of mailing of the international search report

16 August 2018

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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/EP2018/066138

Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
US 2014168061 A1	19 June 2014	CN 103870802 A	18 June 2014
		DE 102013220203 A1	18 June 2014
		KR 20140079162 A	26 June 2014
		US 2014168061 A1	19 June 2014
US 2012068917 A1	22 March 2012	NONE	