



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 79 89 98

Classification of the application (IPC):  
G06F 8/33, G06K 1/12, G06F 8/41, G06K 19/06

Technical fields searched (IPC):  
G06K

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2015178721 A1 (PANDIARAJAN VIJAYAKUMAR [US] ET AL) 25 June 2015 (2015-06-25) * paragraph [0015] - paragraph [0022] * * claims 1-11 * * paragraph [0024] - paragraph [0032]; figure 1 * * paragraph [0033] - paragraph [0044]; figure 2 * * paragraph [0060] *	1-15
X	US 2012104084 A1 (WANG SHU [US] ET AL) 03 May 2012 (2012-05-03) * paragraph [0011] - paragraph [0012] * * paragraph [0041] - paragraph [0047]; figure 4 *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 19 May 2021	Examiner Lo Turco, Salvatore
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### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 19-05-2021  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2015178721 A1	25-06-2015	NONE	
US 2012104084 A1	03-05-2012	KR 20120044248 A US 2012104084 A1	07-05-2012 03-05-2012