



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 17 87 56 10

Classification of the application (IPC):  
H04W 8/20, H04W 8/18

Technical fields searched (IPC):  
H04W

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2016283216 A1 (GAO LINYI [CN]) 29 September 2016 (2016-09-29) * Paragraphs 0357, 0362, 0364, 0365, 0369 and 0377-0382 *	1, 2, 5, 6, 9, 10, 12, 13
Y		3, 4, 7, 8, 11, 14, 15
A	US 2016301529 A1 (PARK JONGHAN [KR] ET AL) 13 October 2016 (2016-10-13) * Paragraphs 0246-0250 *	2, 6, 10, 13
A	US 2016286380 A1 (LONG SHUIPING [CN]) 29 September 2016 (2016-09-29) * Paragraphs 0112-0113 *	2, 6, 10, 13
Y	WO 2016178548 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 10 November 2016 (2016-11-10) * Paragraph 85 *	3, 7, 14
E	& EP 3293993 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 14 March 2018 (2018-03-14) * Paragraph 0069 *	3, 7, 14
Y	US 2016006728 A1 (PARK JONGHAN [KR] ET AL) 07 January 2016 (2016-01-07) * Paragraphs 0116-0119 *	4, 8, 11, 15
E	EP 3605995 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 05 February 2020 (2020-02-05) * Paragraphs 0012, 0013, 0015, 0019, 0035-0040, 0044, 0053 and 0105 *	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 21 February 2020	Examiner Moreno-Solana, S
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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**

 Application number:  
EP 17 87 56 10

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 21-02-2020  
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