



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 80 85 08

**Classification of the application (IPC):**  
H04W 36/06, H04W 16/14, H04W 24/02, H04W 72/04

**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	WO 2017186294 A1 (NOKIA SOLUTIONS & NETWORKS OY [FI]) 02 November 2017 (2017-11-02) * abstract * * pages 2,3,13 * * pages 14,16-20; figure 5 *	1-15
A	WO 2013096563 A1 (INTERDIGITAL PATENT HOLDINGS [US]) 27 June 2013 (2013-06-27) * abstract * * paragraphs [0003] - [0008], [0061] - [0067], [0080] - [0094] * * paragraphs [0103] - [0109], [0117] - [0127] * * paragraphs [0131] - [0139], [0143], [0149], [0151] * * paragraphs [0168], [0193], [0194] *	1-15
A	US 9681490 B1 (KAKINADA UMAMAHESWAR A [US] ET AL) 13 June 2017 (2017-06-13) * abstract * * columns 1-4,6 * * columns 10-16; claims 1,3-6 *	1-15
A	US 2009207800 A1 (SHAN CHENG [KR] ET AL) 20 August 2009 (2009-08-20) * abstract * * paragraphs [0006], [0008], [0011], [0015], [0031] - [0047], [0051] * * paragraphs [0059], [0072], [0073] *	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 Berlin	Date of completion of the search 18 January 2022	Examiner Alonso Maleta, J
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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 19 80 85 08

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 18-01-2022  
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