



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 90 21 61

Classification of the application (IPC):
H01Q 1/24, H01Q 5/328, H01Q 5/335, H01Q 9/42, H01Q 21/28

Technical fields searched (IPC):
H01Q

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y A	US 2019181553 A1 (LEE CHENG-HAN [TW] ET AL) 13 June 2019 (2019-06-13) * paragraphs [0006], [0031] - [0045], [0058] - [0065], [0077] - [0080]; figures 1,3,5,12 *	1-4, 9-15 5 6-8
X A	US 2019044218 A1 (YE WEI-XUAN [TW] ET AL) 07 February 2019 (2019-02-07) * paragraphs [0043] - [0057], [0098] - [0102]; figures 4,7,16,17,19 *	1, 2, 4, 11, 12 6-8
Y	CN 111029749 A (VIVO COMM TECHNOLOGY CO LTD) 17 April 2020 (2020-04-17) * paragraph [0025]; figure 2 *	5
A	US 2020373650 A1 (NASU TAKAFUMI [JP]) 26 November 2020 (2020-11-26) * paragraphs [0068] - [0069]; figure 8 *	2, 3
X A	US 2020036820 A1 (LEE HYUNG JOO [KR] ET AL) 30 January 2020 (2020-01-30) * paragraphs [0224] - [0230]; figure 20A *	1, 4, 6, 8, 12 7

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 The Hague	Date of completion of the search 19 April 2024	Examiner Georgiadis, A
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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
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& : 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 19-04-2024.
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