

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 2 416 449 A1 (ALCATEL LUCENT [FR]) 8 February 2012 (2012-02-08) * paragraphs [0005], [0017] * * paragraph [0018] * * paragraph [0022] * * paragraph [0025] * * paragraph [0028] * * paragraphs [0030], [0031] * * figures 2, 3, 5, 6, 8 *	1-9, 12-15	INV. H01Q19/02 H01Q19/13 H01Q15/16 H01Q1/12 H01Q1/42 H01Q17/00
X	US 2013/002515 A1 (HILLS CHRIS [GB] ET AL) 3 January 2013 (2013-01-03) * paragraph [0048] * * paragraphs [0060] - [0065] * * paragraph [0074] * * figures 2, 3, 4, 7, 36 *	1-9, 13-15	
X	JP S54 95157 A (MITSUBISHI ELECTRIC CORP) 27 July 1979 (1979-07-27) * figures 1(a), 3(b), 4(c) *	1,3-11	
A	US 2014/218255 A1 (SANFORD JOHN R [US] ET AL) 7 August 2014 (2014-08-07) * paragraphs [0263], [0264] * * figures 5A-5I * * paragraphs [0269] - [0271] * * figures 6A-6J *	1-15	
			TECHNICAL FIELDS SEARCHED (IPC)
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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 13 April 2018	Examiner Culhaoglu, Ali
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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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
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13-04-2018

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