

Title (en)  
ANTENNA ELEMENT AND ANTENNA ARRAY

Title (de)  
ANTENNENELEMENT UND ANTENNENARRAY

Title (fr)  
ÉLÉMENT D'ANTENNE ET RÉSEAU D'ANTENNES

Publication  
**EP 3741007 B1 20230215 (DE)**

Application  
**EP 18808307 A 20181122**

Priority  
• DE 102018200758 A 20180118  
• EP 2018082296 W 20181122

Abstract (en)  
[origin: WO201914142A1] The invention relates to an antenna element (1a; 1b; 1c), having: a feed line (2) for feeding electric power; and a first multiplicity (3; 5; 8) of radiating elements, arranged on a first side of the feed line (2), and a second multiplicity (4; 6; 9) of radiating elements, arranged on a second side of the feed line (2), wherein the radiating elements are coupled to the feed line (2) in series, are fed with electric power by the feed line (2) and are designed to transmit electromagnetic radiation; wherein the first multiplicity (3; 5; 8) of radiating elements differs from the second multiplicity (4; 6; 9) of radiating elements in a distribution of spatial dimensions of the radiating elements and/or in a distribution of distances (x) between adjacent radiating elements.

IPC 8 full level  
**H01Q 11/14** (2006.01); **H01Q 1/32** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP KR US)  
**H01Q 1/3233** (2013.01 - EP KR); **H01Q 1/38** (2013.01 - KR); **H01Q 3/00** (2013.01 - KR); **H01Q 9/0407** (2013.01 - US); **H01Q 9/16** (2013.01 - US); **H01Q 11/14** (2013.01 - KR); **H01Q 21/0075** (2013.01 - EP KR US); **H01Q 21/065** (2013.01 - EP KR US); **H01Q 1/3233** (2013.01 - US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102018200758 A1 20190718**; CN 111615776 A 20200901; CN 111615776 B 20231215; EP 3741007 A1 20201125;  
EP 3741007 B1 20230215; JP 2021510986 A 20210430; JP 7022218 B2 20220217; KR 102528126 B1 20230503; KR 20200103842 A 20200902;  
US 11476589 B2 20221018; US 2021005978 A1 20210107; WO 2019141412 A1 20190725

DOCDB simple family (application)  
**DE 102018200758 A 20180118**; CN 201880086873 A 20181122; EP 18808307 A 20181122; EP 2018082296 W 20181122;  
JP 2020539805 A 20181122; KR 20207023387 A 20181122; US 201816766770 A 20181122