

Title (en)  
MULTIBEAM ANTENNA FOR MOBILE TELEPHONE BASE STATION

Title (de)  
MEHRSTRAHLANTENNE FÜR MOBILTELEFONBASISSTATION

Title (fr)  
ANTENNE À FAISCEAUX MULTIPLES POUR STATION DE BASE DE TÉLÉPHONIE MOBILE

Publication  
**EP 3116060 A1 20170111 (EN)**

Application  
**EP 16178138 A 20160706**

Priority  
ES 201530973 A 20150707

Abstract (en)  
A multibeam antenna for a mobile telephone base station which comprises, basically: a two-dimensional matrix of radiating elements (2) with double polarization, in which the radiating elements (2) are grouped in one-dimensional or multi-dimensional arrays (3a, 3b, ..) and where both the different arrays (3a, 3b, ..) of radiating elements (2) and the distribution networks are completely independent of each other in radioelectric terms, and in which the vertical and horizontal beam widths in each array of radiating elements can be personalised and optimised independently of the other beams, in such a way that each distribution network or phase shifter (5) has moving parts which change the phase given to the radiating elements (2), allowing dynamic variation in the azimuth angle of each array (3a, 3b, ..) in a completely independent manner.

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 3/32** (2006.01); **H01Q 21/28** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP ES)  
**H01Q 1/246** (2013.01 - EP); **H01Q 3/30** (2013.01 - ES); **H01Q 3/32** (2013.01 - EP); **H01Q 21/24** (2013.01 - ES); **H01Q 21/28** (2013.01 - EP); **H01Q 25/00** (2013.01 - EP); **H01Q 25/002** (2013.01 - EP); **H01Q 3/005** (2013.01 - EP); **H01Q 21/061** (2013.01 - EP)

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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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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**EP 16178138 A 20160706**; ES 16178138 T 20160706; ES 201530973 A 20150707; PT 16178138 T 20160706