

Title (en)  
ANTENNA SYSTEM AND BASE STATION

Title (de)  
ANTENNENSYSTEM UND BASISSTATION

Title (fr)  
SYSTÈME D'ANTENNE ET STATION DE BASE

Publication  
**EP 3057179 B1 20190403 (EN)**

Application  
**EP 14852403 A 20140813**

Priority  
• CN 201310477365 A 20131012  
• CN 2014084275 W 20140813

Abstract (en)  
[origin: EP3057179A1] Embodiments of the present invention provide an antenna system and a base station. The antenna system according to the present invention includes a first antenna array configured to form wide beam coverage and a second antenna array configured to form narrow beam coverage. The first antenna array includes at least one column of antennas, where each column of antennas provide at least one wide beam port; the second antenna array includes at least two columns of antennas, and the second antenna array provides at least one narrow beam port. The embodiments of the present invention resolve a problem that close-spaced multi-column antennas can provide only a narrow beam, and satisfy a requirement that an antenna system should provide both a wide beam and a narrow beam.

IPC 8 full level  
**H01Q 25/00** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/52** (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01); **H01Q 21/08** (2006.01)

CPC (source: EP)  
**H01Q 1/246** (2013.01); **H01Q 1/521** (2013.01); **H01Q 21/0006** (2013.01); **H01Q 21/061** (2013.01); **H01Q 21/08** (2013.01); **H01Q 25/002** (2013.01)

Citation (examination)  
WO 9842150 A2 19980924 - AT & T CORP [US]

Cited by  
CN110612639A; EP4307574A1; US11108135B2; WO2023052855A1

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)  
**EP 3057179 A1 20160817**; **EP 3057179 A4 20161019**; **EP 3057179 B1 20190403**; CN 104577356 A 20150429; CN 104577356 B 20180529; WO 2015051668 A1 20150416

DOCDB simple family (application)  
**EP 14852403 A 20140813**; CN 201310477365 A 20131012; CN 2014084275 W 20140813