

Title (en)  
DECOUPLING ANTENNA AND DECOUPLING METHOD THEREFOR

Title (de)  
ENTKOPPLUNGSANTENNE UND ENTKOPPLUNGSVERFAHREN DAFÜR

Title (fr)  
ANTENNE DE DÉCOUPLAGE ET PROCÉDÉ DE DÉCOUPLAGE ASSOCIÉ

Publication  
**EP 3567676 A4 20200805 (EN)**

Application  
**EP 17890173 A 20171229**

Priority  
• CN 201710008113 A 20170105  
• CN 2017120320 W 20171229

Abstract (en)  
[origin: EP3567676A1] Provided are a decoupling antenna and decoupling method. The decoupling antenna includes an antenna port, a decoupling network, a feed network, a phase-shift network, and at least two antenna arrays. The phase-shift network is connected to the at least two antenna arrays separately. An input end of the feed network is connected to the decoupling network, and an output end of the feed network is connected to the phase-shift network. The decoupling network is disposed between the antenna port and the feed network and configured to eliminate a mutually-coupled signal generated between the at least two antenna arrays.

IPC 8 full level  
**H01Q 1/52** (2006.01); **H01P 1/18** (2006.01); **H01P 1/208** (2006.01); **H01P 5/04** (2006.01); **H01Q 21/28** (2006.01)

CPC (source: CN EP KR)  
**H01P 1/182** (2013.01 - EP); **H01P 1/2084** (2013.01 - EP); **H01P 5/04** (2013.01 - EP); **H01Q 1/52** (2013.01 - KR); **H01Q 1/521** (2013.01 - EP); **H01Q 1/523** (2013.01 - CN); **H01Q 21/28** (2013.01 - EP)

Citation (search report)  
• [X] US 2007085540 A1 20070419 - DU JIAN J [CN], et al  
• [X] US 2014300431 A1 20141009 - LYNCH JONATHAN J [US], et al  
• [Y] US 2015195001 A1 20150709 - BARKER DAVID EDWIN [GB], et al  
• [Y] US 2015263420 A1 20150917 - WU KE-LI [CN], et al  
• See references of WO 2018127023A1

Cited by  
CN113659338A

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 3567676 A1 20191113; EP 3567676 A4 20200805**; CN 108281786 A 20180713; JP 2020504543 A 20200206; JP 6876807 B2 20210526; KR 102197172 B1 20210105; KR 20190088549 A 20190726; WO 2018127023 A1 20180712

DOCDB simple family (application)  
**EP 17890173 A 20171229**; CN 201710008113 A 20170105; CN 2017120320 W 20171229; JP 2019536909 A 20171229; KR 20197019252 A 20171229