

Title (en)  
MULTI RESONANT ANTENNA

Title (de)  
MULTIRESONANZANTENNE

Title (fr)  
ANTENNE MULTI-RÉSONANTE

Publication  
**EP 2087551 A4 20100106 (EN)**

Application  
**EP 07833611 A 20071026**

Priority  
• KR 2007005302 W 20071026  
• KR 20060104642 A 20061026  
• KR 20070107738 A 20071025

Abstract (en)  
[origin: WO2008051044A1] Provided is a small multi-resonant antenna, which includes an antenna element; a plurality of feeders for supplying power to the antenna element; a parasitic device disposed in a dielectric region between a board where an antenna circuit is positioned and the antenna element; a feed switch for selectively connecting any one among the feeders to the antenna element to supply power to the antenna element; and a parasitic device switch for controlling the parasitic device. Herein the feeders are disposed in such a manner that a total length of the antenna element is different individually. The present invention provides an antenna that can widely vary resonant frequency and delicately control frequency within a randomly selected resonant frequency, and a manufacturing method thereof.

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 5/00** (2015.01); **H01Q 5/357** (2015.01); **H01Q 5/378** (2015.01); **H01Q 9/42** (2006.01)

CPC (source: EP KR)  
**H01Q 1/24** (2013.01 - KR); **H01Q 1/243** (2013.01 - EP); **H01Q 1/38** (2013.01 - EP); **H01Q 3/24** (2013.01 - KR); **H01Q 5/00** (2013.01 - EP KR); **H01Q 5/357** (2015.01 - EP); **H01Q 5/378** (2015.01 - EP); **H01Q 9/14** (2013.01 - EP); **H01Q 9/145** (2013.01 - EP); **H01Q 9/42** (2013.01 - EP)

Citation (search report)  
• [Y] WO 0191235 A1 20011129 - ERICSSON TELEFON AB L M [SE], et al  
• [Y] US 2005099347 A1 20050512 - YAMAKI KAZUHISA [JP]  
• [Y] JP H06224618 A 19940812 - HITACHI LTD  
• [Y] JP H11163620 A 19990618 - SHARP KK  
• [Y] US 2003151555 A1 20030814 - HOLSHOUSER HOWARD E [US]  
• See references of WO 2008051044A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008051044 A1 20080502**; EP 2087551 A1 20090812; EP 2087551 A4 20100106; KR 100989064 B1 20101025;  
KR 20080038031 A 20080502

DOCDB simple family (application)  
**KR 2007005302 W 20071026**; EP 07833611 A 20071026; KR 20070107738 A 20071025