

Title (en)  
Compact diversity antenna

Title (de)  
Kompakte Diversity-Antenne

Title (fr)  
Antenne-diversité compacte

Publication  
**EP 1460713 A1 20040922 (EN)**

Application  
**EP 03075785 A 20030318**

Priority  
EP 03075785 A 20030318

Abstract (en)  
A diversity radio antenna, comprising a ground substrate (1), first and second elongated antenna elements (2,3), each extending between respective first (5,6) and second opposing ends (7,8) in a plane parallel to and spaced from said ground substrate, and an excitation electrode (4) interposed between said respective first ends. Ground connector switch means (9,10) are devised to selectively connect and disconnect said ground substrate to said antenna elements, for controlling radiation beam pattern and polarisation diversity of the antenna. This way, said ground connector switch means are devised to selectively connect said first and second antenna elements to ground for adapting the antenna to a circularly-polarised radio wave, or disconnect one of said first and second antenna elements from ground for adapting the antenna to a linearly-polarised radio wave.  
<IMAGE>

IPC 1-7  
**H01Q 1/24**; **H01Q 21/24**; **H01Q 9/04**; **H01Q 1/38**

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/04** (2006.01); **H01Q 21/24** (2006.01)

CPC (source: EP)  
**H01Q 1/243** (2013.01); **H01Q 1/38** (2013.01); **H01Q 9/0442** (2013.01); **H01Q 21/245** (2013.01)

Citation (search report)  
• [DY] US 6369762 B1 20020409 - YANAGISAWA WASUKE [JP], et al  
• [Y] US 4367474 A 19830104 - SCHAUBERT DANIEL H, et al  
• [A] WO 02071535 A1 20020912 - KONINKL PHILIPS ELECTRONICS NV [NL]  
• [A] EP 0872912 A2 19981021 - MURATA MANUFACTURING CO [JP]

Cited by  
EP1804335A4; EP4213300A4; EP2490297A4; CN110649368A; EP1925167A4; EP3179556A4; US7773035B2; US7768463B2; US7825860B2; WO2009127266A1

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