

Title (en)

Dual-band antenna for a wireless local area network device

Title (de)

Zweibandantenne für eine drahtlose lokale Netzwerkvorrichtung

Title (fr)

Antenne à double bande pour un réseau local sans fil de type LAN

Publication

EP 1764862 A1 20070321 (EN)

Application

EP 06076899 A 20040506

Priority

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- US 46846003 P 20030507
- US 69685203 A 20031030

Abstract (en)

A dual-band antenna (100), a method of manufacturing the same and a wireless networking card incorporating the antenna. In one embodiment, the antenna includes: a substrate (110), an inverted F antenna printed circuit (130) supported by the substrate and tuned to resonate in a first frequency band and a monopole antenna printed circuit (170) supported by the substrate, connected to the inverted F antenna printed circuit and tuned to resonate in a second frequency band.

IPC 8 full level

H01Q 1/24 (2006.01); **H01Q 1/38** (2006.01); **H01Q 5/01** (2006.01); **H01Q 5/10** (2015.01); **H01Q 9/04** (2006.01); **H01Q 9/42** (2006.01); **H01Q 13/08** (2006.01); **H01Q 21/30** (2006.01)

CPC (source: EP)

H01Q 1/243 (2013.01); **H01Q 9/0421** (2013.01); **H01Q 9/42** (2013.01); **H01Q 21/30** (2013.01)

Citation (search report)

- [XY] US 6091366 A 20000718 - ZHANG XIN [JP], et al
- [YD] US 5420599 A 19950530 - ERKOCEVIC NEDIM [NL]
- [Y] EP 0986130 A2 20000315 - SIEMENS AG [DE]
- [A] EP 1033821 A2 20000906 - FRAUNHOFER GES FORSCHUNG [DE]

Cited by

CN107968252A; CN109361054A; CN111162381A

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