

Title (en)
DUAL-BAND DIPOLE ANTENNA AND ELECTRONIC SYSTEM

Title (de)
DUALBAND-DIPOLANTENNE UND ELEKTRONISCHES SYSTEM

Title (fr)
ANTENNE DIPÔLE BIBANDE ET SYSTÈME ÉLECTRONIQUE

Publication
EP 3349301 A1 20180718 (EN)

Application
EP 17170110 A 20170509

Priority
TW 106100860 A 20170111

Abstract (en)
The disclosure is related to a dual-band dipole antenna and an electronic device. The main body of the dual-band dipole antenna is a U-shaped or L-shaped first antenna member (31), and a square-shaped second antenna member (32). The first antenna member (31) is a printed radiator having at least one turning portion. The first antenna member (31) has a first electrical connection member (311), and the second antenna member (32) has a second electrical connection member (321). When a current source feeds signals to the antenna via the connection members (311, 321) respectively, the currents flowing through the first antenna member (31) and the second antenna member (32) have the same directions. The first antenna member (31) induces a first band electromagnetic wave, and the second antenna member (32) induces a second band electromagnetic wave with optimized induced frequency response when a coupling effect is formed between the first and the second antenna members (32).

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Citation (search report)

- [X] EP 3104458 A1 20161214 - ARCADYAN TECHNOLOGY CORP [TW]
- [X] EP 2752939 A1 20140709 - ACER INC [TW]
- [A] JP 2010193396 A 20100902 - ANTENNA TECHNOLOGY INC
- [A] US 2004178957 A1 20040916 - CHANG KUANG-YUAN [TW], et al

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

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EP 3349301 A1 20180718; CN 108306104 A 20180720; TW 201826619 A 20180716; TW I629836 B 20180711

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