

Title (en)

Wireless communication antenna devices and method for heat dissipation in such devices

Title (de)

Drahtlose Kommunikationsantennenvorrichtung und Verfahren zur Wärmeableitung in solchen Vorrichtungen

Title (fr)

Dispositifs de communication sans fil et procédé pour la dissipation de chaleur dans de tels dispositifs

Publication

EP 2549589 A1 20130123 (EN)

Application

EP 11290332 A 20110720

Priority

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Abstract (en)

The invention proposes a wireless communication antenna device (10) comprising: a base element (12); at least one antenna unit (14) mounted on one side (16) of the base element (12), the antenna unit (14) comprising an antenna structure (18) and a transceiver and/or amplifier device; and at least one heat transfer element (26) assigned to the antenna unit (14) and extending from said assigned antenna unit (14) to the base element (12) being part of a heat sink (28) or to a heat sink (28) located on the opposite side of the base element. The invention further proposes a corresponding method for heat dissipation in a wireless communication antenna device (10).

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X1] EP 1328042 A1 20030716 - EADS DEUTSCHLAND GMBH [DE]
- [X1] US 6184832 B1 20010206 - GEYH EDWARD A [US], et al

Cited by

CN107834152A; KR20180098391A; CN108701888A; WO2021244153A1; US10693221B2; WO2017117360A1; US10084231B2; US10312581B2

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