

Title (en)
MICROSTRIP ANTENNA STRUCTURE AND COMMUNICATION DEVICE

Title (de)
MIKROSTREIFENANTENNENSTRUKTUR UND KOMMUNIKATIONSVORRICHTUNG

Title (fr)
STRUCTURE D'ANTENNE MICRORUBAN ET DISPOSITIF DE COMMUNICATION

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Abstract (en)
The present disclosure provides a microstrip antenna structure and a communication device, which relate to the technical field of microwave communications. In the present disclosure, an antenna feed assembly and a coupling patch in an antenna radiation assembly are mutually communicatively provided on a side surface of a second dielectric plate, and an antenna ground is provided on the other side surface of the second dielectric plate; then, a radiation patch in the antenna radiation assembly is provided on a side surface of a first dielectric plate, and the other side surface of the first dielectric plate is laminated over the second dielectric plate and spaced by the coupling patch and the antenna feed assembly; the radiation patch has on the second dielectric plate a patch projection area that at least partially overlaps with the coupling patch, and the antenna feed assembly is distributed outside of the patch projection area of the radiation patch. Therefore, while the communication function of the antenna structure is realized, the feed assembly and the antenna radiation assembly are integrally arranged on a same layer of physical structure, which decreases the overall height of the antenna structure, reduces the space occupied thereby, and facilitates its use.

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