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(54) **ANTENNA MODULE AND COMMUNICATION DEVICE EQUIPPED WITH THE SAME**

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(57) **ABSTRACT**

An antenna module includes a radiation element having feeding points, feeding wiring lines, and directional couplers. The feeding wiring line transmits a radio frequency signal from the RFIC to the feeding point. The feeding wiring line transmits a radio frequency signal from the RFIC to the feeding point. The directional coupler detects a radio frequency signal to be supplied to the radiation element through the feeding wiring line. The directional coupler detects a radio frequency signal to be supplied to the radiation element through the feeding wiring line. A polarization direction of a radio wave to be radiated with the radio frequency signal supplied to the feeding point is different from a polarization direction of a radio wave to be radiated with the radio frequency signal supplied to the feeding point.

16 Claims, 22 Drawing Sheets