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(54) Title: INTEGRATED DIRECTIONAL ANTENNA

(57) Abstract

An integrated directional antenna includes a radome, a resonant cavity within the radome, a microstrip radiator and a patch re-radiator positioned within the resonant cavity to provide a directed or focused beam. A first radiator can be provided for signal transmission and a second radiator for signal reception. A chassis member is located within the radome and defines the resonant cavity/ies and a rear cavity for electronic components. A rear cover can incorporate an integral heat sink for dissipating heat from electronic components within the rear cavity. An antenna mounting bracket has first and second spaced mounting points to allow a large range of mounting angles with a compact construction. The chassis member, the radio transmission and/or receiving elements and the electronic circuit elements can be sandwiched together in a desired configuration by fixing the rear cover to the radome. The antenna finds particular application in the field of radio telephony systems.

