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(54) Title: DUAL-BAND HELICAL ANTENNA

(57) Abstract

A dual-band helical antenna provides operation in two frequency bands. The dual-band helical antenna includes two single-band antennas (1304, 1308), each having a feed network (1804, 1808), a ground plane (412) opposite the feed network, and a set of one or more radiators (104A to 104D) extending from feed network. A tab (1504) extends from the feed network of one of the antennas which provides a feed for that antenna. The tab (1504) also provides a path for current to flow from the radiators of the second antenna along the axis of the second antenna to thereby increase the energy radiated in the directions perpendicular to the axis. The ground plane of one antenna is used as a shorting ring for the other antenna.

