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Josypenko

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(54) **LOW ANGLE, HIGH ANGLE QUADRIFILAR HELIX ANTENNA**

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(57) **ABSTRACT**

(21) Appl. No.: **09/553,146**

An antenna is provided that can switch from generating a low radiation angle to a high radiation angle. The antenna comprises a quadrifilar helix antenna in which the helical antenna elements have a first pitch at one end of the antenna and a second pitch at the other end of the antenna. Controlling the phase of a driving signal and isolating one section of the antenna are steps that facilitate switching the antenna from generating a pattern with a low elevation angle or high elevation angle.

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(52) **U.S. Cl.** **343/895**

(58) **Field of Search** 343/895, 749, 343/722, 853; H01Q 1/36

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11 Claims, 8 Drawing Sheets

