

Title (en)

ANTENNA SYSTEM AND METHOD OF FEEDING ANTENNA ARRAY OF DUAL-POLARIZED RADIATING ELEMENTS

Title (de)

ANTENNENSYSTEM UND VERFAHREN ZUR SPEISUNG EINER GRUPPENANTENNE AUS DUALPOLARISIERTEN STRAHLUNGSELEMENTEN

Title (fr)

SYSTÈME D'ANTENNE ET PROCÉDÉ D'ALIMENTATION D'UN RÉSEAU D'ANTENNES D'ÉLÉMENTS RAYONNANTS À DOUBLE POLARISATION

Publication

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Application

EP 20775248 A 20200917

Priority

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Abstract (en)

[origin: WO2022058009A1] An antenna system includes antenna array of at least three dual-polarized radiating elements, where each dual-polarized radiating elements comprises first radiating part of first polarization state and second radiating part of second polarization state orthogonal to the first polarization state. The antenna system further includes feeding structure connected with the dual-polarized radiating elements of each polarization state. The feeding structure includes first feeding network for feeding first subarray of the dual-polarized radiating elements of the first polarization state, and second feeding network for feeding second subarray of the dual-polarized radiating elements of the second polarization state. The second subarray is at least partially different from the first subarray. The antenna system provides an improved structure in which coupling is reduced by increasing distance between feed lines and thereby improving the system performance.

IPC 8 full level

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