

Title (en)

WAVEGUIDE JUNCTION FOR A FEEDING STRUCTURE

Title (de)

WELLENLEITERÜBERGANG FÜR EINE ZUFÜHRSTRUKTUR

Title (fr)

JONCTION DE GUIDE D'ONDES POUR UNE STRUCTURE D'ALIMENTATION

Publication

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Application

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Abstract (en)

[origin: WO2018171903A1] The present invention provides a waveguide junction (100) for a feeding structure (1100) of a slot antenna array (1700). The waveguide junction (100) comprises a first waveguide (101), and a second waveguide (102) above the first waveguide (101). Further, it comprises a slot waveguide (103) arranged between the first waveguide (101) and the second waveguide (102) to couple the first and second waveguides (101, 102). The longitudinal axis of the slot waveguide (103) is rotated by 40-50°, preferably by 45°, with respect to the longitudinal axis of the first waveguide (101) and with respect to the longitudinal axis of the second waveguide (102). Additionally, the first waveguide (101) is cut parallel to the longitudinal axis of the slot waveguide (103) at one of its ends.

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