

Title (en)

DEVICE AND METHOD FOR EMITTING AND/OR RECEIVING ELECTROMAGNETIC RADIATION

Title (de)

VORRICHTUNG SOWIE VERFAHREN ZUM ABSTRAHLEN UND/ODER ZUM EMPFANGEN VON ELEKTROMAGNETISCHER STRAHLUNG

Title (fr)

DISPOSITIF ET PROCEDE PERMETTANT D'EMETTRE ET/OU DE RECEVOIR UN RAYONNEMENT ELECTROMAGNETIQUE

Publication

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Application

**EP 04787090 A 20040902**

Priority

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Abstract (en)

[origin: WO2005034288A1] The invention relates to a device (100) and a method for emitting and/or receiving electromagnetic radiation. The aim of the invention is to improve corresponding generic devices and methods so that the angle ( THETA ) of the ray beams of the device (100) in elevation (E) can be adjusted in a simple and economical manner. For this purpose, the phase shift ( DELTA <) between the electromagnetic radiation emitted and/or received by various antenna elements (32, 34, 36, 38) or the angle ( THETA ) of emission and/or receipt of the electromagnetic radiation in elevation (E) is adjusted by variation of the effective permittivity ( epsilon eff), especially the spreading coefficient, of the line (20) and/or by arranging at least one element (50, 52, 54) that consists at least partially of a conductive material, especially at least partially of a metal, at a variable distance to the line (20) and/or to the antenna elements (32, 34, 36, 38).

IPC 1-7

**H01Q 3/44**; **H01Q 9/04**; **H01Q 21/00**; **H01Q 1/32**; **H01Q 3/32**; **H01P 1/18**

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