

Title (en)
ELECTROMAGNETIC WAVE TRANSMITTER/RECEIVER

Title (de)
SENDER/EMPFÄNGER FÜR ELEKTROMAGNETISCHE WELLEN

Title (fr)
EMETTEUR/RECEPTEUR D'ONDES ELECTROMAGNETIQUES

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Application
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Abstract (en)
[origin: FR2773271A1] The invention concerns an electromagnetic wave transmitter/receiver device, comprising a body (18), characterised in that it comprises in combination: a receiver plate (16) incorporated in the body (18) including a first array of n radiating elements (301, 302, 303, 304) with a microstrip structure for receiving electromagnetic waves; means for transmitting (19, 20, 22, 23, 24) electromagnetic waves with longitudinal radiation defining a radiation axis for transmitting electromagnetic waves, said means including excitation means (24) for exciting the longitudinal radiation means (19, 20, 22, 23); said radiation means being substantially of constant cross-section in the body (18), perpendicularly intersecting the receiver plate (16) in a circular aperture around which are symmetrically arranged said radiating elements (301, 302, 303, 304), said receiving and transmitting means being arranged such that their respective phase centres are substantially arranged in a so-called focusing zone. The invention is particularly applicable to the field of microwave frequency transmission exchanged between a station and a residence or between a satellite and a residence, in the context of satellite telecommunication.

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