

Title (en)
ANTENNA SYSTEM

Title (de)
ANTENNENANORDNUNG

Title (fr)
SYSTEME D'ANTENNE

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Application
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Abstract (en)
[origin: DE19722742A1] The invention relates to an enhanced dual polarized antenna system for transmitting and receiving electromagnetic waves whose cruciform transmitter module is directed at an angle of + 45 DEG and -45 DEG in relation to the vertical and consequently in relation to a preferably horizontal cross-section. Preferably, the inventive system is provided with a reflector which is arranged backwards in relation to the at least one transmitter module. The inventive system is characterized by the following features: a) two side wall sections (15) are provided in the horizontal cross-section (9) and arranged sideways from the at least one transmitter module (3); b) both sidewall sections (15) are arranged perpendicular to the horizontal cross-section (9), i.e. vertically mounted, and c) at least one slit (17) is included in the sidewall sections (15) on the horizontal cross-section (9) in relation to said transmitter module (3).

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Cited by
US7427966B2; DE102005005781A1; DE102004025904B4; DE102005061636A1; DE102006037518B3; WO2007023207A1; US7023398B2;
US7075498B2; US8350775B2; EP1689022A1; US7245267B2; US7679576B2; WO2007076963A1; US6930651B2

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