

Title (en)

HIGH-FREQUENCY PHASE SHIFTER UNIT

Title (de)

HOCHFREQUENZ-PHASENSCHIEBERBAUGRUPPE

Title (fr)

ENSEMBLE DEPHASEUR A HAUTE FREQUENCE

Publication

EP 1208614 A1 20020529 (DE)

Application

EP 00958304 A 20000727

Priority

- DE 19938862 A 19990817
- EP 0007236 W 20000727

Abstract (en)

[origin: WO0113459A1] The invention relates to an improved high-frequency phase shifter unit characterized by the following new features: at least another additional stripline section (21b, 21c, 21d) which is arranged concentrically in relation to the first stripline section (21a) is provided; additional connecting lines (31b; 31c, 31d) are provided, whereby an electrical connection exists at least indirectly from the supply line (13) to the pick-off section (27a - 27d) to which at least one corresponding stripline section (21a, 21b, 21c, 21d) is assigned; at least two different pairs of antenna radiators (1a, 1b, 1c, 1d, 1e, 1f) can be controlled with different phase angles (phi) in the pick-off sections (39a, 39b) which are misaligned in relation to one another on the at least two stripline sections (21a, 21b, 21c, 21d); the various connecting lines (31a - 31d) are mechanically connected to one another.

IPC 1-7

H01P 1/18

IPC 8 full level

H01P 1/18 (2006.01); **H01Q 3/26** (2006.01)

CPC (source: EP KR US)

H01P 1/18 (2013.01 - KR); **H01P 1/184** (2013.01 - EP US); **H01Q 3/32** (2013.01 - EP US); **H01Q 21/08** (2013.01 - EP US);
H01Q 19/108 (2013.01 - EP US)

Citation (search report)

See references of WO 0113459A1

Cited by

DE102007060083A1; DE102015003357A1; DE102009019557A1; DE102013012305A1; DE102015004658A1; DE102015006622B3;
DE102007047741B4; WO2012156543A1; US9431703B1; EP3096393A1; EP3070782A1; US10297891B2; DE102007047741A1;
WO2010124787A1; WO2015010760A1; US9160062B2; EP3082193A1; US9991594B2; US10056661B2; WO2009046886A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0113459 A1 20010222; AT E250808 T1 20031015; AU 6987400 A 20010313; AU 764242 B2 20030814; BR 0013376 A 20020507;
BR 0013376 B1 20150303; CA 2382258 A1 20010222; CA 2382258 C 20100504; CN 1214484 C 20050810; CN 1359548 A 20020717;
DE 19938862 C1 20010315; DE 50003848 D1 20031030; EP 1208614 A1 20020529; EP 1208614 B1 20030924; ES 2204679 T3 20040501;
ES 2204679 T4 20070601; HK 1047353 A1 20030214; HK 1047353 B 20060113; JP 2003507914 A 20030225; JP 4198355 B2 20081217;
KR 100480226 B1 20050406; KR 20020035574 A 20020511; NZ 516849 A 20030131; US 6850130 B1 20050201

DOCDB simple family (application)

EP 0007236 W 20000727; AT 00958304 T 20000727; AU 6987400 A 20000727; BR 0013376 A 20000727; CA 2382258 A 20000727;
CN 00802132 A 20000727; DE 19938862 A 19990817; DE 50003848 T 20000727; EP 00958304 A 20000727; ES 00958304 T 20000727;
HK 02108932 A 20021209; JP 2001517457 A 20000727; KR 20027001916 A 20020214; NZ 51684900 A 20000727; US 4980902 A 20020219