

Title (en)
Waveguide slot antenna.

Title (de)
Hohlleiterschlitzz Antenne.

Title (fr)
Antenne guide d'ondes à fente.

Publication
EP 0501224 A1 19920902 (DE)

Application
EP 92102301 A 19920212

Priority
DE 4105764 A 19910223

Abstract (en)
A waveguide slot antenna having a plurality of waveguide emitters (15) which are operated in a non-resonant manner and each have two rows of slots (16) on the broad side, which are supplied by a supply waveguide (10) which is operated in a non-resonant manner. The phase shift which results because of the non-resonant dimensioning is compensated for by offsetting (20) the slots of adjacent waveguide emitters in a specific manner such that the antenna polar diagram has no squint angle in the azimuth direction. <IMAGE>

Abstract (de)
Hohlleiterschlitzz Antenne mit mehreren nichtresonant betriebenen Hohlleiterstrahlern (15) mit jeweils zwei Schlitzreihen (16) auf der Breitseite, die von einem nichtresonant betriebenen Speisehohlleiter (10) gespeist werden. Die sich wegen der nichtresonanten Dimensionierung ergebende Phasenverschiebung ist durch Versetzung (20) der Schlitze benachbarter Hohlleiterstrahler in bestimmter Weise kompensiert, derart, daß das Antennendiagramm keinen Schielwinkel in Azimutrichtung aufweist. <IMAGE>

IPC 1-7
H01Q 21/00; **H01Q 21/06**

IPC 8 full level
H01Q 13/22 (2006.01); **H01Q 21/00** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP)
H01Q 21/005 (2013.01); **H01Q 21/064** (2013.01)

Citation (search report)
• [A] EP 0159301 A1 19851023 - ERICSSON TELEFON AB L M [SE]
• [A] GB 2064876 A 19810617 - RAYTHEON CO
• [A] GB 997773 A 19650707 - HUGHES AIRCRAFT CO
• [A] 1979 INTERNATIONAL SYMPOSIUM DIGEST ANTENNAS AND PROPAGATION Bd. I, Juni 1979, SEATTLE,US Seiten 54 - 57; RULF ET AL.: 'ARRAYS OF BROADWALL SHUNT SLOTS IN RECTANGULAR WAVEGUIDES'

Cited by
US10263331B2; US11450955B2

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AT BE CH DE ES FR GB IT LI NL SE

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EP 0501224 A1 19920902; **EP 0501224 B1 19950524**; AT E123179 T1 19950615; CA 2061627 A1 19920824; DE 4105764 A1 19920827; DE 59202281 D1 19950629; ES 2075491 T3 19951001; FI 920757 A0 19920221; FI 920757 A 19920824; JP 2569244 B2 19970108; JP H0563436 A 19930312

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