

Title (en)
WAVEGUIDE DEVICE

Publication
EP 0218549 A3 19881005 (DE)

Application
EP 86810392 A 19860901

Priority
CH 439785 A 19851011

Abstract (en)
[origin: EP0218549A2] For the receipt of satellite television programmes, a primary radiator is provided in which the circular-polarised wave is converted, depending on the direction of rotation, into two waves in the TE01 and TE10 mode. To this end, the square waveguide (Q) is split into two rectangular waveguides by means of a stepped septum (5). Each of these rectangular waveguides (R1, R2) is bent in the plane of the H-field, so that two parallel cavity sides are produced which are arranged offset with respect to each other. By using identical shells (1, 2), the device can be produced very cost-effectively. <IMAGE>

IPC 1-7
H01P 1/17

IPC 8 full level
H01P 1/17 (2006.01)

CPC (source: EP)
H01P 1/173 (2013.01)

Citation (search report)

- [A] EP 0059927 A1 19820915 - ANT NACHRICHTENTECH [DE]
- [A] EP 0060762 A1 19820922 - PORTENSEIGNE [FR]
- [A] DE 963358 C 19570509 - TELEFUNKEN GMBH
- [AP] EP 0178259 A2 19860416 - HUBER+SUHNER AG [CH]
- [A] IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, Band AP-21, Nr. 3, Mai 1973, Seiten 389-391; M.H. CHEN et al.: "A wide-band square-waveguide array polarizer"

Cited by
EP0349842A3; EP0577320A1; US4515803A; US4624962A; EP0472483A1; FR2666186A1; US5247269A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0218549 A2 19870415; EP 0218549 A3 19881005; CH 667552 A5 19881014

DOCDB simple family (application)
EP 86810392 A 19860901; CH 439785 A 19851011