

Title (en)

ANTENNA FEED FOR A TRANSMITTING-RECEIVING ANTENNA

Publication

EP 0045682 B1 19840919 (FR)

Application

EP 81401188 A 19810724

Priority

FR 8016920 A 19800731

Abstract (en)

[origin: US4410866A] A transducer for coupling to an antenna with a first polarizing duplexer for working in a low-frequency band, a between-guide transition element formed from a variable-section guide and a second polarizing duplexer for working in a high-frequency band. In the polarizing openings of the first duplexer are placed dipoles resonating at the mean frequency of the high band which cause a short-circuit for the high frequencies and let the low frequencies pass. A set of quasioptical filters, situated in the body of the first duplexer, between the polarizing openings of this first duplexer and the transition element, causes a short-circuit for the low frequencies and lets the high frequencies pass.

IPC 1-7

H01P 1/213; **H01P 1/161**

IPC 8 full level

H01P 1/161 (2006.01); **H01P 1/213** (2006.01); **H01P 5/16** (2006.01); **H01Q 19/18** (2006.01)

CPC (source: EP US)

H01P 1/161 (2013.01 - EP US); **H01P 1/2131** (2013.01 - EP US)

Citation (examination)

"Tables of Elements Values for the Distributed Low Pass Prototype Filter", IEEE Transactions on Microwave Theory and Techniques, septembre 1965 - MTT 13, no. 5, pp. 514-517

Cited by

FR2603742A1; EP0468620A3; EP0243888A1; FR2598034A1; US4757281A; EP0096461A3; EP0098192A1; FR2529392A1; US4546471A; FR2524209A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0045682 A1 19820210; **EP 0045682 B1 19840919**; AT E9521 T1 19841015; DE 3166182 D1 19841025; FR 2488055 A1 19820205; FR 2488055 B1 19840713; JP S5753103 A 19820330; JP S6355801 B2 19881104; US 4410866 A 19831018

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