

Title (en)

A feed structure for use in a wireless communication system.

Title (de)

Speisestruktur zur Verwendung in einem drahtlosen Kommunikationssystem.

Title (fr)

Structure de source pour utilisation dans un système de communication sans fil.

Publication

EP 0685901 A2 19951206 (EN)

Application

EP 95303494 A 19950524

Priority

US 25246294 A 19940601

Abstract (en)

A feed structure for use in a wireless communication system for transmitting and receiving a data signal. The feed structure (10) includes a dielectric substrate (12) having a lower surface (16) upon which a conductive material is disposed, an upper surface (14), and an edge (18). A plurality of slot radiators (20), each having a wide end (22) coterminous with the edge (18) and a narrow end (24), is etched into the conductive material. A switching mechanism is provided for connecting the narrow end of a selected slot radiator to an input bus containing a signal so that a relatively narrow beam is caused to propagate from the wide end of the selected slot radiator. <IMAGE>

IPC 1-7

H01Q 21/20; **H01Q 13/08**; **H01Q 3/24**; **H01Q 19/06**

IPC 8 full level

H01Q 3/24 (2006.01); **H01Q 13/08** (2006.01); **H01Q 19/06** (2006.01); **H01Q 21/20** (2006.01); **H01Q 25/00** (2006.01); **H04B 1/38** (2006.01)

CPC (source: EP)

H01Q 3/24 (2013.01); **H01Q 13/085** (2013.01); **H01Q 19/06** (2013.01); **H01Q 21/20** (2013.01)

Citation (applicant)

- KNORR: "Slot-Line Transitions", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, May 1974 (1974-05-01), pages 548 - 554, XP002199674, DOI: doi:10.1109/TMTT.1974.1128278
- MARIANI ET AL.: "Slot Line Characteristics", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, December 1969 (1969-12-01), pages 1091 - 1096

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Designated contracting state (EPC)

ES FR GB IT

DOCDB simple family (publication)

EP 0685901 A2 19951206; CA 2147399 A1 19951202; JP H07336134 A 19951222

DOCDB simple family (application)

EP 95303494 A 19950524; CA 2147399 A 19950420; JP 14975095 A 19950525