

Title (en)

ADAPTIVE IMPEDANCE MISMATCH DETECTOR SYSTEM.

Title (de)

FEHLANPASSUNGSETEKTOR EINER IMPEDANZANPASSUNG.

Title (fr)

SYSTEME DE DETECTION D'INADAPTATIONS D'IMPEDANCE ADAPTATIF.

Publication

**EP 0247157 A4 19880418 (EN)**

Application

**EP 86907199 A 19861114**

Priority

- US 80083285 A 19851122
- US 80118185 A 19851122

Abstract (en)

[origin: WO8703378A1] An adaptive impedance mismatch detector system (10) for determining whether or not a particular load impedance (30) is matched or mismatched to the characteristic impedance of a transmission line (at 20). The detector system is capable of determining if a particular load impedance has a value outside of an impedance threshold circle (24) having a center (22) at a location other than at the center of the Smith Chart (Fig. 2). The system changes the radius and/or center of the threshold circle in response to changes in circuit operating conditions or parameters. This flexibility enables the detector to be more selective in determining improper load conditions.

IPC 1-7

**G01R 27/00**; **G01R 27/04**; **H03C 1/62**

IPC 8 full level

**G01R 27/04** (2006.01); **G01R 27/06** (2006.01); **H03F 1/52** (2006.01); **H03F 1/56** (2006.01); **H03H 7/38** (2006.01)

CPC (source: EP KR)

**G01R 27/00** (2013.01 - KR); **G01R 27/06** (2013.01 - EP); **H03F 1/52** (2013.01 - EP); **H03F 1/565** (2013.01 - EP); **H03H 7/38** (2013.01 - EP); **H03F 2200/486** (2013.01 - EP); **H03F 2200/78** (2013.01 - EP)

Citation (search report)

- [A] AU 521165 A
- [A] US 4350958 A 19820921 - PAGNAMENTA ANTONIO
- [AD] US 4493112 A 19850108 - BRUENE WARREN B [US]
- [AD] WO 8400258 A1 19840119 - MOTOROLA INC [US]
- See references of WO 8703378A1

Cited by

US7016660B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

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**WO 8703378 A1 19870604**; CA 1261002 A 19890926; EP 0247157 A1 19871202; EP 0247157 A4 19880418; JP H0827309 B2 19960321; JP S63501447 A 19880602; KR 880700939 A 19880413

DOCDB simple family (application)

**US 8602484 W 19861114**; CA 522853 A 19861113; EP 86907199 A 19861114; JP 50618186 A 19861114; KR 870700636 A 19870722