

Title (en)

ARRANGEMENT FOR DETERMINING THE OPERATIONAL CHARACTERISTICS OF A HIGH-FREQUENCY POWER AMPLIFIER

Title (de)

ANORDNUNG ZUM BESTIMMEN DER BETRIEBSKENNGRÖßEN EINES HOCHFREQUENZ-LEISTUNGSVERSTÄRKERS

Title (fr)

DISPOSITIF DESTINÉ À DÉTERMINER LES PARAMÈTRES CARACTÉRISTIQUES DE FONCTIONNEMENT D'UN AMPLIFICATEUR DE PUISSANCE HAUTE FRÉQUENCE

Publication

**EP 2035839 A1 20090318 (DE)**

Application

**EP 07725767 A 20070601**

Priority

- EP 2007004887 W 20070601
- DE 102006031046 A 20060705

Abstract (en)

[origin: US2009210180A1] In order to determine the operational parameters of a high-frequency power amplifier (1) (for example, complex forward and return voltage or power, complex load impedance, reflection or voltage standing wave ratio) on the connecting line (3) between the output of the high-frequency power amplifier (1) and a complex load, in particular, an antenna (4), an analog measured voltage  $U_u$  proportional to the complex voltage  $\{ \text{right arrow over (U)} \}$  on the connecting line and an analog measured voltage  $U_i$  proportional to the complex current  $\{ \text{right arrow over (I)} \}$  on the line (3) is determined by a Buschbeck coupling device. These measured voltages are digitized, and the required operational parameters can then be calculated in a computing unit (7) from these digital values.

IPC 8 full level

**G01R 27/04** (2006.01); **G01R 31/28** (2006.01)

CPC (source: EP NO US)

**G01R 27/04** (2013.01 - EP NO US); **G01R 31/2822** (2013.01 - EP NO US)

Citation (search report)

See references of WO 2008003376A1

Citation (examination)

- DE 2710752 A1 19780914 - ROHDE & SCHWARZ
- EP 0401545 A1 19901212 - TELEFUNKEN SYSTEMTECHNIK [DE]
- EP 1079233 A1 20010228 - THOMSON CSF [FR]
- DE 4239740 C1 19940623 - ROHDE & SCHWARZ [DE]

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

**US 30751307 A 20070601;** AU 2007271484 A 20070601; CN 200780021681 A 20070601; DE 102006031046 A 20060705; EP 07725767 A 20070601; EP 2007004887 W 20070601; IL 19623808 A 20081228; NO 20085177 A 20081211