

Title (en)

DEVICE AND METHOD FOR AMPLIFYING PULSED RF SIGNALS

Title (de)

EINRICHTUNG UND VERFAHREN ZUR VERSTÄRKUNG GEPULSTER HF-SIGNALE

Title (fr)

DISPOSITIF ET PROCEDE POUR AMPLIFIER DES SIGNAUX RF IMPULSIONNELS

Publication

EP 1938451 A1 20080702 (FR)

Application

EP 06793081 A 20060830

Priority

- EP 2006065837 W 20060830
- FR 0508876 A 20050830

Abstract (en)

[origin: FR2890258A1] The device has a laterally mused metal oxide semiconductor (LDMOS) transistor whose gate (G) receives a frequency modulated signal and supplied by a gate voltage. A drain (D) of the transistor is connected to a DC supply by a low power switch (10) of an amplifier. The switch is controlled by a modulated signal transmission synchronizing signal. A rapid bidirectional surge suppressor (12) suppresses voltage value comprised between a peak supply of the drain and a drain source breakdown voltage. A control device controls opening and closing of the switch. An independent claim is also included for a method of amplifying pulsed radio frequency signals.

IPC 8 full level

H03F 1/02 (2006.01); **H03F 3/193** (2006.01)

CPC (source: EP US)

H03F 1/025 (2013.01 - EP US); **H03F 3/189** (2013.01 - EP US); **H03F 3/1935** (2013.01 - EP US); **H03F 3/72** (2013.01 - EP US); **H03F 2200/451** (2013.01 - EP US); **H03F 2200/504** (2013.01 - EP US); **H03F 2200/507** (2013.01 - EP US)

Citation (search report)

See references of WO 2007025995A1

Citation (examination)

- JP 2003243948 A 20030829 - TOSHIBA CORP
- EP 1538743 A1 20050608 - TOSHIBA KK [JP]
- JP H02268008 A 19901101 - TOYO COMMUNICATION EQUIP

Designated contracting state (EPC)

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DOCDB simple family (publication)

FR 2890258 A1 20070302; **FR 2890258 B1 20071012**; CN 101297476 A 20081029; EP 1938451 A1 20080702; JP 2009506696 A 20090212; US 2009195314 A1 20090806; US 8044714 B2 20111025; WO 2007025995 A1 20070308

DOCDB simple family (application)

FR 0508876 A 20050830; CN 200680040235 A 20060830; EP 06793081 A 20060830; EP 2006065837 W 20060830; JP 2008528519 A 20060830; US 6531806 A 20060830