

Title (en)
RADIO FREQUENCY POWER DELIVERY SYSTEM

Title (de)
HOCHFREQUENZ-LEISTUNGSABLIEFERSYSTEM

Title (fr)
SYSTEME D'ALIMENTATION RADIOFREQUENCE

Publication
EP 1952533 A1 20080806 (EN)

Application
EP 06827108 A 20061031

Priority
• US 2006042360 W 20061031
• US 73179705 P 20051031

Abstract (en)
[origin: WO2007053569A1] A system (200) and method are provided for delivering power to a dynamic load (260). The system includes a power supply (210) providing DC power having a substantially constant power open loop response, a power amplifier (220) for converting the DC power to RF power, a sensor (240) for measuring voltage, current and phase angle between voltage and current vectors associated with the RF power, an electrically controllable impedance matching system (250, 252) to modify the impedance of the power amplifier to at least a substantially matched impedance of the dynamic load (260), and a controller (230) for controlling the electrically controllable impedance matching system (200). The system (200) further includes a sensor calibration measuring module for determining power delivered by the power amplifier, an electronic matching system calibration module (252) for determining power delivered to the dynamic load, (260) and a power dissipation module for calculating power dissipated in the electrically controllable impedance matching system.

IPC 8 full level
H03H 7/40 (2006.01)

CPC (source: EP KR)
H03H 7/40 (2013.01 - EP KR); **H05H 1/46** (2013.01 - KR)

Citation (search report)
See references of WO 2007053569A1

Citation (examination)
US 6781317 B1 20040824 - GOODMAN DANIEL [US]

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
WO 2007053569 A1 20070510; CN 101297480 A 20081029; CN 101297480 B 20120808; EP 1952533 A1 20080806; JP 2009514176 A 20090402; JP 5512127 B2 20140604; KR 200476063 Y1 20150123; KR 20080072642 A 20080806; KR 20130139377 A 20131220; KR 20140005091 U 20140925

DOCDB simple family (application)
US 2006042360 W 20061031; CN 200680040216 A 20061031; EP 06827108 A 20061031; JP 2008538090 A 20061031; KR 20087010467 A 20080430; KR 20137031679 A 20061031; KR 20147000034 U 20061031