Title (en)

POWER CONTROL FOR NON-CONSTANT ENVELOPE MODULATION

Title (de)

LEISTUNGSREGELUNG FÜR MODULATION MIT NICHT KONSTANTER HÜLLKURVE

Title (fr)

COMMANDE DE PUISSANCE POUR MODULATION A ENVELOPPE NON CONSTANTE

Publication

EP 1110308 A1 20010627 (EN)

Application

EP 00945072 A 20000630

Priority

- US 0018151 W 20000630
- US 34681999 A 19990702

Abstract (en)

[origin: WO0103292A1] A system and a method for handling power ramping and AM in wireless transmissions using NCE modulation schemes. A closed loop power control loop (304) with two modes is used for the power ramping and AM burst portions of a wireless transmission. During key-up (ramping) no AM transmission takes place. The power control loop (304) is in a conventional normal mode of operation during key-up, that is, it acts as a conventional power loop. Normal operation mode for the power control loop (304) is in a fast (high speed) closed loop. During ramping, the variable gain amplifier (or VGA) (336) of the AM Control Loop (306) is adjusted such that the baseband signal level matches the reference voltage used for ramping. Thus, prior to an AM burst transmission, the sampled IF voltage, xV, is made equal to the sampled output voltage of the power amplifier (302). When ramping up is complete and AM begins, the control voltage to the VGA (336) of the AM Control Loop (306) is held constant for the duration of the AM burst. During AM, the power control loop (304) is set to a slow control loop mode. Control of the power control loop (304) is achieved by comparing the power amplifier detector output with the calibrated baseband signal converted from IF.

IPC 1-7

H03G 3/30

IPC 8 full level

H03G 3/30 (2006.01)

CPC (source: EP)

H03G 3/3047 (2013.01)

Citation (search report)

See references of WO 0103292A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0103292 A1 20010111; AU 5906400 A 20010122; EP 1110308 A1 20010627

DOCDB simple family (application)

US 0018151 W 20000630; AU 5906400 A 20000630; EP 00945072 A 20000630