

Title (en)

METHOD FOR IMPROVING THE OUTPUT POWER OF A NON-LINEAR POWER AMPLIFIER

Title (de)

VERFAHREN ZUR VERBESSERUNG DER AUSGANGSLEISTUNG EINES NICHTLINEAREN LEISTUNGSVERSTÄRKERS

Title (fr)

PROCEDE POUR AMELIORER LA PUISSANCE DE SORTIE D'UN AMPLIFICATEUR DE PUISSANCE NON LINEAIRE

Publication

EP 1590887 A1 20051102 (DE)

Application

EP 03750296 A 20030828

Priority

- DE 0302867 W 20030828
- DE 10304456 A 20030204

Abstract (en)

[origin: WO2004070943A1] The invention relates to a method for improving the output power of a non-linear power amplifier (1), according to which signal amplitudes of a digital baseband are predistorted and then fed at the input of the power amplifier (1) that is provided with a non-linear characteristic curve in order to linearize the characteristic curve. The invention is characterized by the fact that the signal amplitudes are fed to the input of the power amplifier (1) in a predistorted manner up to a predetermined transition power (8) while being fed to the input of the power amplifier (1) in a non-predistorted manner from said predetermined transition power (8) on.

IPC 1-7

H03F 1/32

IPC 8 full level

H03F 1/32 (2006.01)

CPC (source: EP US)

H03F 1/3241 (2013.01 - EP US)

Citation (search report)

See references of WO 2004070943A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2004070943 A1 20040819; EP 1590887 A1 20051102; US 2006145759 A1 20060706; US 7315208 B2 20080101

DOCDB simple family (application)

DE 0302867 W 20030828; EP 03750296 A 20030828; US 54459505 A 20050804