Title (en)
SUBSAMPLED LINEARIZATION SYSTEM

Title (de)
UNTERABGETASTETES LINEARISATIONSSYSTEM

Title (fr)
SYSTÈME DE LINÉARISATION SOUS-ÉCHANTILLONNÉE

Publication
EP 3635886 A1 20200415 (EN)

Application
EP 18812672 A 20180608

Priority
• US 201762517434 P 20170609
• US 2018036665 W 20180608

Abstract (en)
[origin: WO2018227093A1] Disclosed are implementations that include a method comprising applying at least one input signal to a power amplification system, that includes a transmit chain with a power amplifier (PA) producing output with non-linear distortions, to produce at least one output signal, and measuring at least one observed signal of the output signal using an observation receiver coupled to an output of the transmit chain, the observation receiver having a receive bandwidth smaller than a transmit chain bandwidth of the transmit chain. Measuring the at least one observed signal includes measuring multiple frequency segments of output signal. The method further includes determining one or more sets of digital predistortion coefficients based on the measured multiple frequency segments of the at least one output signal, with each of the sets of digital predistortion coefficients being associated with a respective set of operating conditions of the power amplification system.

IPC 8 full level
H04B 17/13 (2015.01); **H03F 1/30** (2006.01); **H03F 1/32** (2006.01)

CPC (source: EP KR)
H03F 1/30 (2013.01 - EP); **H03F 1/3247** (2013.01 - EP KR); **H03F 1/3258** (2013.01 - EP); **H03F 3/189** (2013.01 - EP KR);
H03F 3/24 (2013.01 - EP KR); **H04B 1/04** (2013.01 - KR); **H04B 1/62** (2013.01 - KR); **H04B 17/13** (2015.01 - EP KR);
H03F 2200/447 (2013.01 - EP); H04B 2001/0425 (2013.01 - KR)

Cited by
US11770145B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018227093 A1 20181213; CN 111066265 A 20200424; EP 3635886 A1 20200415; EP 3635886 A4 20200415; JP 2020523834 A 20200806;
KR 20200015736 A 20200212

DOCDB simple family (application)
US 2018036665 W 20180608; CN 201880051323 A 20180608; EP 18812672 A 20180608; JP 2019566911 A 20180608;
KR 20207000651 A 20180608