

Title (en)
SYSTEM AND METHOD FOR ADJUSTING AMPLIFIER BIAS CURRENT BASED ON INPUT SIGNAL ENVELOPE TRACKING

Title (de)
SYSTEM UND VERFAHREN ZUR EINSTELLUNG DES VERSTÄRKERVORSPANNUNGSSTROMS AUF BASIS VON
EINGANGSSIGNALHÜLLKURVENNACHFÜHRUNG

Title (fr)
SYSTÈME ET PROCÉDÉ POUR AJUSTER UN COURANT DE POLARISATION D'AMPLIFICATEUR SUR LA BASE D'UN SUIVI D'ENVELOPPE
DE SIGNAL D'ENTRÉE

Publication
EP 4292214 A1 20231220 (EN)

Application
EP 22705976 A 20220209

Priority
• US 202163147668 P 20210209
• US 2022015863 W 20220209

Abstract (en)
[origin: CN116941180A] A system and method includes receiving an input signal having an envelope and generating an envelope detection signal corresponding to the envelope. A bias current (IDD) provided to an amplifier circuit (308) including amplifiers (M1, M2) and transformers (L1, L2) is adjusted based on the envelope detection signal. The transformer (L1, L2) is configured to establish a magnetically coupled feedback loop from the output of the amplifier (M1, M2) to the input of the amplifier (M1, M2). An output signal is provided by an amplifier circuit (308) in response to an input signal.

IPC 8 full level
H03F 1/02 (2006.01); **H03F 1/22** (2006.01); **H03F 1/34** (2006.01); **H03F 3/19** (2006.01); **H03F 3/24** (2006.01)

CPC (source: EP IL KR)
H03F 1/0222 (2013.01 - EP IL KR); **H03F 1/0266** (2013.01 - EP IL KR); **H03F 1/223** (2013.01 - EP IL KR); **H03F 1/347** (2013.01 - EP IL KR); **H03F 3/19** (2013.01 - EP IL); **H03F 3/195** (2013.01 - IL KR); **H03F 3/245** (2013.01 - EP IL KR); **H03F 2200/09** (2013.01 - EP IL KR); **H03F 2200/102** (2013.01 - EP IL KR); **H03F 2200/15** (2013.01 - EP IL KR); **H03F 2200/18** (2013.01 - EP IL KR); **H03F 2200/451** (2013.01 - EP IL KR); **H03F 2200/537** (2013.01 - IL KR)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
CN 116941180 A 20231024; EP 4292214 A1 20231220; IL 304984 A 20231001; JP 2024510536 A 20240307; KR 20230156061 A 20231113

DOCDB simple family (application)
CN 202280020138 A 20220209; EP 22705976 A 20220209; IL 30498423 A 20230806; JP 2023573016 A 20220209;
KR 20237030814 A 20220209