

Title (en)

VOLTAGE BIAS CIRCUIT WITH ADJUSTABLE OUTPUT, AND CHIP AND COMMUNICATION TERMINAL

Title (de)

VORSPANNUNGSSCHALTUNG MIT EINSTELLBAREM AUSGANG, CHIP UND KOMMUNIKATIONSSENDGERÄT

Title (fr)

CIRCUIT DE POLARISATION DE TENSION À SORTIE RÉGLABLE, ET PUCE ET TERMINAL DE COMMUNICATION

Publication

EP 4250054 A1 20230927 (EN)

Application

EP 21894037 A 20211119

Priority

- CN 202011314855 A 20201120
- CN 2021131898 W 20211119

Abstract (en)

Provided are a voltage bias circuit with an adjustable output, and a chip and a communication terminal. The bias circuit comprises a bandgap voltage reference unit, a low-dropout linear voltage regulation unit, a first transmission gate switch unit, a logic encoding control unit and a second transmission gate switch unit. In the bias circuit, a resistance voltage-dividing network and a feedback resistance network are correspondingly arranged in a bandgap voltage reference unit and a low-dropout linear voltage regulation unit, so as to generate a plurality of voltages with different temperature coefficients and different values, and different gain coefficients; a logic encoding control unit is used to control a corresponding transmission gate switch unit to select an input reference voltage with a required value and temperature coefficient, and a required gain coefficient, so as to output a voltage with a required value and temperature coefficient; and a suitable bias state is provided for a radio frequency front-end module, such that the radio frequency front-end module realizes better performance, and a communication terminal has better flexibility and adaptability in a complicated environment.

IPC 8 full level

G05F 1/567 (2006.01)

CPC (source: CN EP)

G05F 1/468 (2013.01 - EP); **G05F 1/567** (2013.01 - CN EP); **G05F 3/30** (2013.01 - EP)

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)

EP 4250054 A1 20230927; CN 112327992 A 20210205; WO 2022105890 A1 20220527

DOCDB simple family (application)

EP 21894037 A 20211119; CN 202011314855 A 20201120; CN 2021131898 W 20211119