

Title (en)

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

Title (de)

VORSPANNUNGSSCHALTUNG MIT EINSTELLBAREM AUSGANG, CHIP UND KOMMUNIKATIONSENDGERÄT

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)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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