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Chin et al.(10) **Pub. No.: US 2022/0376686 A1**(43) **Pub. Date: Nov. 24, 2022**(54) **PIN STATE CONFIGURATION CIRCUIT AND
CONFIGURATION METHOD, AND
ELECTRONIC DEVICE**(52) **U.S. Cl.**CPC **H03K 5/24** (2013.01)(71) Applicant: **HUAWEI DIGITAL POWER
TECHNOLOGIES CO., LTD.**,
Shenzhen (CN)

(57)

ABSTRACT(72) Inventors: **Ken Chin**, Shenzhen (CN); **Yuanjun
Liu**, Shenzhen (CN); **Guiping Zhang**,
Dongguan (CN); **Shanglin Mo**,
Dongguan (CN)(21) Appl. No.: **17/717,265**(22) Filed: **Apr. 11, 2022**(30) **Foreign Application Priority Data**

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A pin state configuration circuit, a method for configuring pin states and an electronic device for configuring pin states are provided. The pin state configuration circuit includes a configured resistor load, a voltage sampling unit, and a comparator. The voltage sampling unit supplies a reference voltage to the configured resistor load by using a first or second configuration pin, and respectively samples voltages of the first and second configuration pins. The comparator calculates a first voltage ratio based on the voltage of the first configuration pin and the voltage of the second configuration pin, calculates a second voltage ratio based on the voltage of the first configuration pin and the voltage of the second configuration pin, and determines a corresponding pin configuration state based on the first and second voltage ratios. In this way, N×N pin configuration states may be obtained by configuring two configuration pins.

