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XU et al.(10) **Pub. No.: US 2024/0178668 A1**(43) **Pub. Date: May 30, 2024**(54) **INVERTER AND CONTROL METHOD FOR INVERTER****Publication Classification**(71) Applicant: **Huawei Digital Power Technologies Co., Ltd.**, Futian District, Shenzhen (CN)(72) Inventors: **Fei XU**, Shenzhen (CN); **Xinyu YU**, Shanghai (CN); **Mingquan ZHAO**, Shanghai (CN); **Zisen QU**, Shanghai (CN); **Kai XIN**, Shanghai (CN)(73) Assignee: **Huawei Digital Power Technologies Co., Ltd.**, Futian District, Shenzhen (CN)(21) Appl. No.: **18/522,758**(22) Filed: **Nov. 29, 2023**(30) **Foreign Application Priority Data**

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(57)

**ABSTRACT**

An inverter and a control method for the inverter. The inverter includes a direct current conversion circuit, a direct current bus, an inverter circuit, and a controller. An input end of the direct current conversion circuit is connected to an input end of the inverter, an output end of the direct current conversion circuit is connected to an input end of the inverter circuit through the direct current bus, and an output end of the inverter circuit is connected to an output end of the inverter. The controller obtains a reactive voltage control amount based on actual output active power and reference output active power of the inverter circuit and adjusts an output voltage of the inverter circuit based on the reactive voltage control amount and a reference output voltage.

