

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0178639 A1 ZHANG et al.

May 30, 2024 (43) **Pub. Date:**

(54) POWER DISTRIBUTION ROOM AND REFRIGERATION SYSTEM

(71) Applicant: Hebei Qinhuai Data Co., Limited.,

Zhangjiakou City (CN)

Inventors: Binghua ZHANG, Zhangjiakou City

(CN); Mingjiang LI, Zhangjiakou City (CN); Shun WANG, Zhangjiakou City

(CN)

(21) Appl. No.: 18/510,509

(22)Filed: Nov. 15, 2023

(30)Foreign Application Priority Data

Nov. 25, 2022 (CN) 202211493733.4

Publication Classification

(51) Int. Cl. H02B 1/56 (2006.01)H05K 7/20 (2006.01) (52) U.S. Cl. CPC H02B 1/56 (2013.01); H05K 7/20354 (2013.01)

(57)ABSTRACT

The present disclosure discloses a power distribution room and a refrigeration system. The power distribution room has an accommodation space internally provided with a first heat generating device. The first heat generating device has a vent, and a refrigeration device is connected to the vent of the first heat generating device. The refrigeration device includes a heat exchange apparatus and an induced draft apparatus, where the heat exchange apparatus is positioned between the induced draft apparatus and the vent. The induced draft apparatus is configured to generate an airflow flowing through the first heat generating device to generate hot air transmitted to the heat exchange apparatus, such that the heat exchange apparatus carries out heat exchange to convert the hot air into cold air and discharges the cold air into the accommodation space.

