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(19) **United States**(12) **Patent Application Publication****Lin et al.**(10) **Pub. No.: US 2024/0215207 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **COOLING SYSTEM**(71) Applicant: **Giga Computing Technology Co., Ltd.**, New Taipei City (TW)(72) Inventors: **Jian-Hung Lin**, New Taipei City (TW); **Ching-Chuan Huang**, New Taipei City (TW); **Nobuhiro Adachi**, New Taipei City (TW)(73) Assignee: **Giga Computing Technology Co., Ltd.**, New Taipei City (TW)(21) Appl. No.: **18/177,135**(22) Filed: **Mar. 2, 2023**(30) **Foreign Application Priority Data**

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(57)

ABSTRACT

A cooling system includes a compressor, a condenser, an evaporator, a first one-way valve, and a second one-way valve. The compressor includes a compressor inlet and a compressor outlet. The condenser includes a condenser inlet and a condenser outlet, and the compressor outlet communicates with the condenser inlet. The evaporator includes an evaporator inlet and an evaporator outlet, the condenser outlet communicates with the evaporator inlet, and the evaporator outlet communicates with the compressor inlet and the condenser inlet. The first one-way valve is disposed on a first flow path between the compressor outlet and the condenser inlet. The second one-way valve is disposed on a second flow path between the evaporator outlet and the condenser inlet.

