

US 20240237302A9

## (19) United States

# (12) Patent Application Publication Duncan et al.

### (10) Pub. No.: US 2024/0237302 A9

# (48) **Pub. Date: Jul. 11, 2024 CORRECTED PUBLICATION**

## (54) SYSTEM AND METHOD FOR THERMAL MANAGEMENT USING LIQUID COOLING

- (71) Applicant: **Dell Products L.P.**, Round Rock, TX (US)
- (72) Inventors: Tyler Baxter Duncan, Austin, TX (US); Anthony Middleton, Cedar Park, TX (US); Ty Robert Schmitt, Round Rock, TX (US)
- (21) Appl. No.: 17/971,161
- (22) Filed: Oct. 21, 2022

### **Prior Publication Data**

- (15) Correction of US 2024/0138123 A1 Apr. 25, 2024 See (22) Filed.
- (65) US 2024/0138123 A1 Apr. 25, 2024

#### **Publication Classification**

- (51) **Int. Cl. H05K** 7/20 (2006.01)
- (52) **U.S. CI.** CPC ..... *H05K 7/20781* (2013.01); *H05K 7/20272* (2013.01)

### (57) ABSTRACT

An information handling system includes a chassis that includes a chassis inlet and a chassis outlet and a liquid cooling system that includes a first manifold. The first manifold includes a first chassis outlet configured to provide a first inlet coolant flow to the chassis inlet and a first chassis inlet configured to receive a first outlet coolant flow from the chassis outlet. The liquid cooling system also includes a second manifold that includes a second chassis outlet configured to provide the first inlet coolant flow to the chassis inlet, and a second chassis inlet configured to receive the first outlet coolant flow from the chassis outlet.

