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**GAO**(10) **Pub. No.: US 2022/0369518 A1**(43) **Pub. Date: Nov. 17, 2022**(54) **SERVER LIQUID COOLING FLUID CUTOFF SYSTEM**(52) **U.S. Cl.**CPC ..... **H05K 7/20781** (2013.01); **H05K 7/2072** (2013.01); **H01R 12/71** (2013.01)(71) Applicant: **Baidu USA LLC**, Sunnyvale, CA (US)

(57)

**ABSTRACT**

A server liquid cooling fluid cutoff system including a server connector module, a leaking sensor, and an electromagnet device is proposed in the current application. In one embodiment, a server connector module is to be mounted on a server chassis, and the server connector module has at least a pair of server blind mating connectors capable of being engaged with or disengaged from at least a pair of rack blind mating connectors of a rack manifold of the electronic rack coupled to an external cooling fluid source. In an embodiment, a leaking sensor is configured to detect leakage of the cooling fluid within the server chassis. In an embodiment, an electromagnet device is coupled to the server connector module and the leaking sensor. In an embodiment, an elastic structure is coupled to the connector module for pushing the connector away.

(72) Inventor: **TIANYI GAO**, Sunnyvale, CA (US)(21) Appl. No.: **17/302,719**(22) Filed: **May 11, 2021****Publication Classification**(51) **Int. Cl.****H05K 7/20** (2006.01)**H01R 12/71** (2006.01)