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Rembach

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(54) **RAPID DEPLOYMENT MOBILE DATA CENTER**

(76) Inventor: **Paul F. Rembach**, Houston, TX (US)

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See application file for complete search history.

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Primary Examiner — Robert J Hoffberg
(74) *Attorney, Agent, or Firm* — Buskop Law Group, PC;
Wendy Buskop

(57) **ABSTRACT**

A portable air cooled data center can include interior fans, a heat sink integrally serving as part of a wall or ceiling, and an outer heat pipe assembly in thermal communication with the heat sink allowing for heat dissipation. External fans can pull external air over the outer heat pipe assembly. A first transducer can monitor inner air temperature within the data center, a second transducer can monitor the outer heat pipe assembly, and a third transducer can be secured proximate to a fin side of the heat sink. A controller can be connected to the transducers, fans, and a power supply. Computer instructions can be used to monitor temperatures from the transducers, compare the temperatures to preset limits, and individually or simultaneously actuate, regulate, or turn off the fans when monitored temperatures meet or exceed preset limits.

20 Claims, 11 Drawing Sheets

