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(54) **METHOD AND APPARATUS FOR AN AUTOMATIC BATTERY HEAT SINKING OPERATION CONTROL MECHANISM**

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(57) **ABSTRACT**

An information handling system includes a processor, a memory device, a PMU to provide power to the processor and memory device, and a battery operatively coupled to the PMU. The information handling system also includes a controlled battery heat sink cooling system, the battery heat sink cooling system including a heat distribution plate thermally coupled to a surface of the battery, a heat pipe operatively coupled to a first side of the heat distribution plate, the heat pipe operatively coupled to heat generating hardware component within the information handling system to conduct heat from the heat generating hardware component to the heat distribution plate, a spring operatively coupled to the heat distribution plate to produce a force to urge the heat distribution plate to thermally couple to the battery, and a thermal switch operatively coupled to a second side of the heat distribution plate to, when heated to a temperature threshold, expand to thermally de-couple the heat distribution plate from the battery.