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NAKAYAMA(10) **Pub. No.: US 2024/0224462 A1**(43) **Pub. Date: Jul. 4, 2024**(54) **POWER CONVERSION DEVICE**(71) Applicant: **Mitsubishi Electric Corporation**,
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ABSTRACT

A power conversion device includes a power conversion circuit, a housing, at least one heat pipe and a controller. The power conversion circuit includes switching elements, converts electric power inputted thereto into electric power to be supplied to load equipment and supplies to the load equipment the electric power resulting from the conversion. The at least one heat pipe is exposed to air outside of the housing and releases, to the air, heat transferred from the switching elements. The controller controls switching operations of the plurality of switching elements such that a target voltage is outputted from the power conversion circuit and an amount of heat generation of the plurality of switching elements is obtained that is based on an operational status of the load equipment and a temperature of the air.

