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Nestel(10) **Pub. No.: US 2022/0360078 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **AIRPORT ELECTRIC VEHICLE CHARGING SYSTEM**(71) Applicant: **JBT AEROTECH CORPORATION**,
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ABSTRACT

In an embodiment, an airport electric vehicle charging system includes a current transducer electrically coupled with a power source; a solid state converter electrically coupleable with an aircraft at or near an airport gate and configured to provide and maintain power to the aircraft; and a controller. The system further includes a first feedback loop between the controller and the current transducer; a second feedback loop between the controller and the solid state converter; and a battery charger electrically coupled with the power source and configured to charge one or more electric vehicles. The first feedback loop provides a first feedback signal generated by the current transducer to the controller. The second feedback loop provides a second feedback signal generated by the solid state converter to the controller. The battery charger is configured to consume power from the power source in accordance with the first and second feedback signals.

