

## (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2023/0231387 A1

#### Jul. 20, 2023 (43) Pub. Date:

### (54) SERVER AND POWER MANAGEMENT **SYSTEM**

(71) Applicant: TOYOTA JIDOSHA KABUSHIKI KAISHA, Toyota-shi (JP)

Tomoya TAKAHASHI, Ebina-shi (JP) Inventor:

Assignee: TOYOTA JIDOSHA KABUSHIKI KAISHA, Toyota-shi (JP)

Appl. No.: 18/054,975

(22)Filed: Nov. 14, 2022

(30)Foreign Application Priority Data

Jan. 19, 2022 (JP) ...... 2022-006372

#### **Publication Classification**

(51) Int. Cl. H02J 3/32 (2006.01)H02J 3/14 (2006.01)H02J 3/00 (2006.01)

(52)U.S. Cl. H02J 3/322 (2020.01); H02J 3/144 CPC ..... (2020.01); H02J 3/003 (2020.01)

#### (57)**ABSTRACT**

A server includes a processing device. The server manages a plurality of vehicles. The processing device sets priority levels for the vehicles. The processing device sets the priority level of a vehicle in which its switching device is in a closed state to be higher than the priority level of a vehicle in which its switching device is in an open state. The processing device selects, based on the priority levels, a participating vehicle to be used for demand-increasing demand response from among the vehicles.

