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HARADA et al.(10) **Pub. No.: US 2023/0231738 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **VEHICLE COMMUNICATION SYSTEM**(52) **U.S. Cl.**(71) Applicant: **SUBARU CORPORATION**, Tokyo
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(57)

ABSTRACT

A vehicle communication system includes a gateway device. The gateway device is configured to receive electric power from a battery of a vehicle, relay communication among multiple communication lines coupled to respective electronic control units, perform, when receiving a signal through any of the communication lines, a sleep wake-up operation by transmitting a wake-up request signal to switch one or more of the electronic control units to be woken up from a sleep mode to a wake-up mode, and refrain from transmitting the wake-up request signal in a case where the gateway device determines in view of electric power consumption of the battery that transmission of the wake-up request signal is unacceptable.

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