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(54) **IN-VEHICLE CHARGING APPARATUS THAT CHARGES A STORAGE BATTERY INSTALLED IN A VEHICLE FROM A POWER SUPPLY PROVIDED OUTSIDE THE VEHICLE**

USPC 320/104, 107, 109, 114, 132
See application file for complete search history.

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(57) **ABSTRACT**

(51) **Int. Cl.**
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(Continued)

An in-vehicle charging device is provided with: a recording unit (27) that accumulates vehicle information regarding a vehicle; a vehicle-side PLC communication control unit (26) that, when it is determined to be necessary to transmit vehicle information accumulated at the recording unit (27) to the outside of the vehicle, commands transmission of a control signal for closing an earth leakage circuit breaker (not shown in figure); and a charging control unit (25b) that transmits a control signal to the earth leakage circuit breaker on the basis of the command from the vehicle-side PLC communication control unit (26). When electrical energy is not being supplied to a storage battery (24), the vehicle-side PLC communication control unit (26) establishes PLC and batch transmits vehicle information when the earth leakage circuit breaker has been closed by the control signal transmitted from the charging control unit (25b).

(52) **U.S. Cl.**
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(2013.01); **B60L 3/0069** (2013.01); **B60L 3/04**
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H02J 7/0029; H02J 7/0026; H02J 7/0031

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