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(54) **RULE BASED SMART CHARGING**

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(57) **ABSTRACT**

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**Related U.S. Application Data**

(63) Continuation of application No. 17/479,967, filed on Sep. 20, 2021, now Pat. No. 11,955,827, which is a continuation of application No. 15/985,395, filed on May 21, 2018, now Pat. No. 11,152,810.

Smart battery charging solutions are disclosed. The smart charging solutions of the disclosure enable a user to configure a mobile device with individualized battery charging settings. The user specific settings may be combined with system settings to generate rules on battery charging. Context awareness is achieved through various sensors and through information sharing within and among the systems of the mobile device. The battery charging rules and the context awareness information are used together in controlling the charging of a battery.

