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(54) **LITHIUM BATTERY SUPPORTING SERIES-PARALLEL**

(71) Applicant: **ARI ENERGY (HUIZHOU) CO.,LTD**, Huizhou (CN)

(72) Inventor: **Yingqiang ZHENG**, Huizhou (CN)

(73) Assignee: **ARI ENERGY (HUIZHOU) CO.,LTD**, Huizhou (CN)

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(57) **ABSTRACT**

Disclosed is a lithium battery supporting series-parallel. The lithium battery includes: a battery cell assembly, a carrier communication assembly, a wake-up detection assembly, a charge-discharge control detection assembly, a battery management assembly and a battery output on/off execution assembly. The present application assigns a high-voltage group attribute to the battery at the highest voltage in series in a series-parallel battery system, and assigns a low-voltage group attribute to all batteries at other voltages other than the highest voltage in series. The battery management assembly controls the output on/off execution assembly of the battery based on its attribute, making it in different on, current-limiting on or off states. The battery management assembly controls the wake-up detection assembly to detect various wake-up signals according to the battery attributes, so as to realize the use of multiple lithium batteries in any series and parallel connection.