

## **SYSTEMS AND METHODS FOR BATTERY CAPACITY ESTIMATION**

### **Abstract of the Disclosure**

Systems and methods are disclosed for estimating a full-charge battery cell capacity without a coulomb counting device. First and second measured voltages of the battery cell are measured during a charging or discharging period. The first and second measured voltages of the battery cell are converted to percentages of remaining battery life. The amount of charge delivered to the battery cell and/or delivered from the battery cell during charging/discharging is calculated. The change in the percentage of remaining battery life is compared to the amount of charge delivered to the battery cell and/or delivered from the battery cell to calculate various battery cell evaluation calculations, including a full-charge battery cell capacity.

Fig. 1