

[19] Patents Registry
The Hong Kong Special Administrative Region
香港特別行政區
專利註冊處

[11] 30088739 A

[12] **SHORT-TERM PATENT SPECIFICATION**
短期專利說明書

[21] Application no. 申請編號
32023076854.3

[51] Int. Cl.
H01M 10/48 (2006.01)

[22] Date of filing 提交日期
01.08.2023

[45] Date of publication of grant of patent 批予專利的發表日期
29.09.2023

[73] Proprietor 專利所有人
Centre for Advances in Reliability and Safety Limited
產品可靠性暨系統安全研發中心有限公司
Units 1212-1213, 12/F., BLDG 19W
Hong Kong Science Park, Pak Shek Kok, N.T.
HONG KONG

The Hong Kong Polytechnic University
香港理工大學
Hung Hom, Kowloon
HONG KONG

[72] Inventor 發明人
Steven Tyler BOLES
TAM Hwa Yaw 譚華耀
Julien BONEFACINO
CHEUNG Yin Nee 張燕妮
Sasan GHASHGHAIE

[74] Agent and / or address for service 代理人及/或送達地址
RLA IP PROFESSIONAL SERVICES LIMITED
Unit 328, Building 16W, Phase Three
Hong Kong Science Park
Shatin
HONG KONG

[54] A SYSTEM AND METHOD TO MONITOR LITHIUM-ION BATTERY FOR DEGRADATION ESTIMATION AND FAULT DETECTION

一種監測鋰離子電池以進行退化估算及故障檢測的系統及方法

[57] The present invention relates to a battery monitoring and fault detection method and system 10 for a lithium-ion battery, the system comprising: a first sensor 12 coupled to a second sensor 14 parallel to each other on a surface of the lithium-ion battery configured to measure variations in temperature and volumetric changes in the lithium-ion battery; and a test module.

本發明涉及一種鋰離子電池的電池監測及故障檢測方法及系統 10，該系統包括：第一傳感器 12 與第二傳感器 14 相互平行地耦合在鋰離子電池的表面上，配置為用於測量鋰離子電池的溫度變化和體積變化；以及測試模塊。

