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(54) Title: LITHIUM POLYMER BATTERY CHARGER AND METHODS THEREFOR

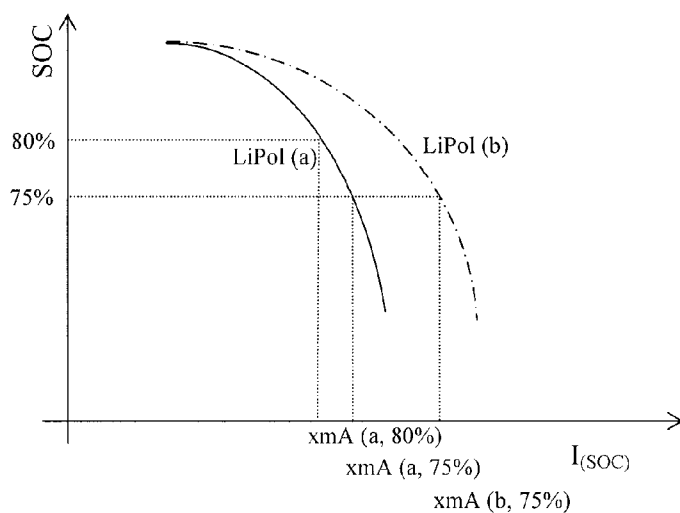


Figure 1A

(57) Abstract: Lithium polymer battery are charged from any point of discharge using methods and devices in which the lithium polymer battery is operated during the charge operation as a variable current sink. Most preferably, charging above a threshold voltage is performed such that the charge current is based on a pre-determined charge current profile and measured virtual back current resistance.



WO 2012/019185 A3



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/046925**A. CLASSIFICATION OF SUBJECT MATTER****H01M 10/44(2006.01)i, H02J 7/04(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01M 10/44; H02J 7/04; H02J 7/00; G05F 3/16; H01M 2/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: variable charge current, threshold voltage, lithium polymer battery

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2006-115562 A (MATSUSHITA ELECTRIC IND CO LTD) 27 April 2006 See paragraphs [0058]-[0060],[0075]-[0078], figures 4.	1-20
A	US 2009-0309547 A1 (NAKATSUJI TOSHIYUKI) 17 December 2009 See paragraphs [0060],[0061],[0072]	1-20
A	US 6522118 B1 (BARCELO; TREVOR W. et al.) 18 February 2003 See column 2, lines 60-65, column 3, lines 1-16, claims 1,2	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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