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(54) Title: LITHIUM RECHARGEABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING

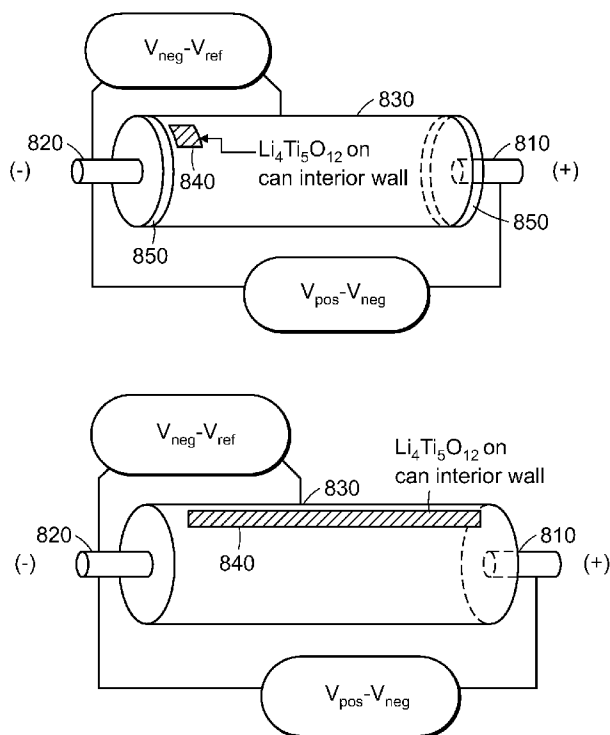


FIG. 8

(57) Abstract: A battery management system includes one or more lithium ion cells in electrical connection, each said cell comprising: first and second working electrodes and one or more reference electrodes, each reference electrode electronically isolated from the working electrodes and having a separate tab or current collector exiting the cell and providing an additional terminal for electrical measurement; and a battery management system comprising a battery state-of-charge monitor, said monitor being operable for receiving information relating to the potential difference of the working electrodes and the potential of one or more of the working electrodes versus the reference electrode.



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INTERNATIONAL SEARCH REPORT

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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)

IPC H01M 10/42

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korea Utility Models and applications for Utility Models since 1975

Japanese Utility Models and applications for Utility Models since 1975

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

eKIPASS (KIPO internal) "reference", "electrode", "BMS"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 1020050028798A(SANYO ELECTRIC CO., LTD.) 23 March 2005 See abstract, pages 1-7, claims 1-6, figures 1-14.	1-61
A	JP 61245471A(JAPAN STORAGE BATTERY CO., LTD.) 31 October 1986 See abstract, pages 1-3, claim 1, figures 1-2.	1-61
A	US 5304433A(JING-YIH CHERNG, et al.) 19 April 1994 See abstract, columns 1-8, claims 1-14, figures 1-12.	1-61
A	KR 1019970060561A(SAMSUNG SDI CO., LTD.) 12 August 1997 See abstract, pages 1, claims 1-9, figures 1-4.	1-61
A	KR 1019960027027A(SAMSUNG SDI CO., LTD.) 22 July 1996 See abstract, pages 1, claims 1-3, figures 1-5.	1-61



Further documents are listed in the continuation of Box C.



See patent family annex.

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Information on patent family members

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KR 1019960027027A	22.07.1996	None	