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(71) Applicant *(for all designated States except US)*: **GP BATTERIES INTERNATIONAL LIMITED** [SG/SG]; 50 Gul Crescent, Singapore 629543 (SG).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **WONG, Kin Pun** [SG/SG]; 5B Seraya Road, Singapore 437238 (SG). **NG, Sung On Andrew** [GB/CN]; 12 Cooper Road, Hong Kong (CN). **YEO, Che Wee** [MY/SG]; 369 Bukit Batok Street 31, #03-513, Singapore 650369 (SG).

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON (SINGAPORE) PTE LTD**; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

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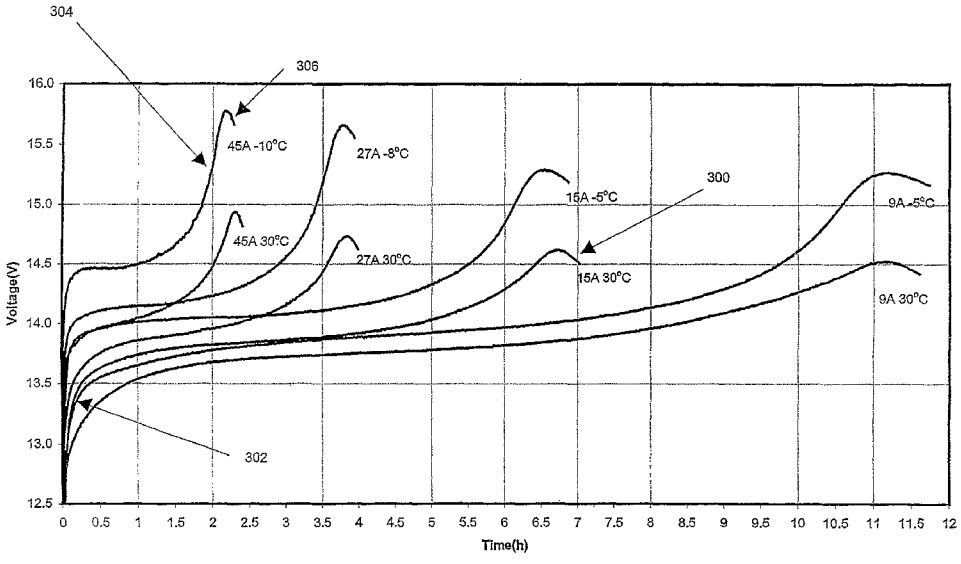
(54) **Title:** METHOD AND SYSTEM FOR DETERMINING THE SOC OF A RECHARGEABLE BATTERY



(57) **Abstract:** A method and a system for determining the state of charge of a rechargeable battery, such as a nickel metal hydride battery, a nickel cadmium battery, *etc.*, are disclosed. The method includes the steps of charging the battery using a substantially constant charge current, measuring the battery temperature, conducting a first measurement of the battery voltage at a time interval t_1 from the start of the charging and a second measurement of the battery voltage at a time interval t_2 from the first measurement where the first measurement is made after a substantially stable behaviour of the change in the battery voltage during charging is reached (after region 302) and the second measurement is made prior to reaching a substantially unstable behaviour of the change in the battery voltage (prior to region 306).

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