

Title (en)  
SECURITY SYSTEM FOR AN ACCUMULATOR BATTERY MODULE AND CORRESPONDING METHOD FOR BALANCING A BATTERY MODULE

Title (de)  
SICHERHEITSSYSTEM FÜR EIN AKKUMULATORBATTERIEMODUL UND ENTSPRECHENDES VERFAHREN ZUM AUSWUCHTEN EINES BATTERIEMODULS

Title (fr)  
SYSTÈME DE SÉCURISATION POUR MODULE DE BATTERIE D'ACCUMULATEURS ET PROCÉDÉ D'ÉQUILIBRAGE D'UN MODULE DE BATTERIE CORRESPONDANT

Publication  
**EP 2994341 A1 20160316 (FR)**

Application  
**EP 14723765 A 20140507**

Priority  
• FR 1354217 A 20130509  
• EP 2014059399 W 20140507

Abstract (en)  
[origin: WO2014180935A1] The invention concerns a security system for a battery module (1), said system comprising: - at least one battery module (1) having a positive pole (P) and a negative pole (N) and defined by a matrix comprising a first predefined number n of columns, n being greater than or equal to two, and a second predefined number m of lines, m being greater than or equal to two, the matrix being such that: • each column defines an accumulator branch (Brj (j= 1.. n)) having m accumulators (Aij) in series, the accumulator branches (Brj) being linked by the ends of same in parallel and to the poles (P, N) of the battery module (1), and such that • each line of the matrix defines an accumulator stage (Eti), and at least one charge control device (2, 5, 3) connected to the poles (P, N) of the battery module (1), characterised in that: - the battery module (1) further comprises: • a plurality of resistors (Rt) respectively electrically linked to the intermediate point between two accumulators (Aij, Ai+1j) of two adjacent accumulator stages (Eti, Eti+1) and • a third predefined number p of connection nodes (NCi) respectively connected to a set of n resistors (Rt) connected to the intermediate points of the accumulators (Aij, Ai+1j) of the two adjacent accumulator stages (Eti, Eti+1), and in that the charge control device (2, 5, 3) is connected to the set of connection nodes (NCi).

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Citation (search report)  
See references of WO 2014180935A1

Cited by  
WO2018060179A1; US10981451B2

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