

Title (en)  
ELECTRIC POWER SUPPLY SYSTEM

Title (de)  
ELEKTRISCHES STROMVERSORGUNGSSYSTEM

Title (fr)  
SYSTÈME D'ALIMENTATION ÉLECTRIQUE

Publication  
**EP 4237273 A1 20230906 (FR)**

Application  
**EP 21805889 A 20211102**

Priority  
• FR 2011226 A 20201102  
• EP 2021080311 W 20211102

Abstract (en)  
[origin: WO2022090558A1] The invention relates to an electric power supply system for an electrical device, which comprises: - A DC power supply bus, - A first battery (BATT1) and a second battery (BATT2) that are connected in parallel and each able to supply a first DC voltage on said DC power supply bus, - An auxiliary battery (B\_AUX) configured to supply a second DC voltage (U\_AUX), - A control unit (UC) configured to: select at least one battery out of the first battery and the second battery to set said voltage on the DC power supply bus by connecting it to the DC power supply bus, command connection of the non-selected battery to the DC power supply bus, and charge said auxiliary battery (B\_AUX) by placing it in series with the non-selected battery and by switching the cells of said non-selected battery so as to drive a charge current (I\_aux) for charging said auxiliary battery.

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