

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2023/0231210 A1 Joos et al.

Jul. 20, 2023 (43) **Pub. Date:**

(54) BATTERY AND ENERGY SYSTEM INCLUDING SUCH A BATTERY

(71) Applicant: Robert Bosch GmbH, Stuttgart (DE)

(72) Inventors: Joachim Joos, Gerlingen (DE); Walter Von Emden, Eningen Unter Achalm (DE)

(21) Appl. No.: 18/154,265

(22)Filed: Jan. 13, 2023

(30)Foreign Application Priority Data

Jan. 14, 2022 (DE) 10 2022 200 344.6

Publication Classification

(51) **Int. Cl.** H01M 10/48 (2006.01)H02J 7/00 (2006.01)

G01R 31/3842 (2006.01)H01M 50/51 (2006.01)

(52) U.S. Cl.

CPC H01M 10/482 (2013.01); H02J 7/0024 (2013.01); G01R 31/3842 (2019.01); H01M 50/51 (2021.01)

(57)ABSTRACT

A battery and a battery system including such a battery. The battery includes: a first and a second battery cell arrangement, each including at least one battery cell, a first switch, and a second switch, and an evaluation unit. In each battery cell arrangement, the first switch is connected in series to the battery cell of the battery cell arrangement and the second switch is connected in parallel to the series connection made up of the battery cell and its associated first switch. The battery cell arrangements are connected in series. The evaluation unit is configured to activate the switches of a particular battery cell arrangement independently of the switches of particular other battery cell arrangements.

