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(19) **United States**(12) **Patent Application Publication****KLINTBERG et al.**(10) **Pub. No.: US 2022/0352727 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **METHOD FOR OPERATING A SWITCHING ARRANGEMENT OF AN ENERGY STORAGE SYSTEM**(52) **U.S. CL.**CPC *H02J 7/0013* (2013.01); *H02J 7/0063* (2013.01); *H02J 7/0031* (2013.01); *B60L 58/18* (2019.02)(71) Applicant: **VOLVO TRUCK CORPORATION,**
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ABSTRACT

A method for operating a switching arrangement of an energy storage system, the energy storage system comprising a plurality of parallelly arranged battery packs and the switching arrangement comprising an associated contactor for each battery pack, the contactors being configured to connect and disconnect the battery packs relative a load by closing and opening, respectively. The method comprises disconnecting the battery packs from the load by means of the contactors such that the battery packs are disconnected in a sequence in which one contactor is opened last and thereby subject to increased disconnection wear, controlling the sequence in which the battery packs are disconnected in such a way that the increased disconnection wear is accounted for and used to distribute contactor wear among the contactors during subsequent disconnections of the battery packs from the load.

