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RAMSAUER et al.(10) **Pub. No.: US 2022/0352705 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **VEHICLE ELECTRICAL SYSTEM,
PARTICULARLY FOR A MOTOR VEHICLE****H02H 1/00** (2006.01)**B60R 16/023** (2006.01)**B60L 3/00** (2006.01)(71) Applicant: **CONTINENTAL AUTOMOTIVE
GMBH, Hannover (DE)**(52) **U.S. Cl.**CPC **H02H 3/00** (2013.01); **H02H 9/04**
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16/0232 (2013.01); **B60L 3/0023** (2013.01)(72) Inventors: **Ludwig RAMSAUER, München (DE);
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A vehicle electrical system, particularly for a motor vehicle. The vehicle electrical system has at least two electrical system branches, a disconnecting switch device between the two electrical system branches, wherein the disconnecting switch device has a first controllable switch unit and a series circuit having a second controllable switch unit and an overcurrent protection unit, wherein the first switch unit and the series circuit are electrically connected to each other in parallel between the two electrical system branches, and a control unit which in an idle mode of the vehicle electrical system, is equipped to switch the first switch unit into an open, current-disconnecting switching state and to keep it in the current-disconnecting switching state and to switch the second switch unit into a closed, current-carrying switching state and to keep it in this current-carrying switching state. A motor vehicle with the above-mentioned vehicle electrical system is also disclosed.

