

Title (en)

POWER SUPPLY CIRCUIT FOR A MOTOR VEHICLE ELECTRIC SYSTEM

Title (de)

ENERGIEVERSORGUNGSSCHALTUNG FÜR EIN KRAFTFAHRZEUG-BORDNETZ

Title (fr)

CIRCUIT D'ALIMENTATION EN ENERGIE POUR RESEAU DE BORD D'AUTOMOBILE

Publication

**EP 1590870 A1 20051102 (DE)**

Application

**EP 03815693 A 20031213**

Priority

- EP 0314219 W 20031213
- DE 10305058 A 20030207

Abstract (en)

[origin: DE10305058B3] The circuit has a starter/generator, power electronics, battery, dynamic energy storage device and dc/dc converter. The starter/generator is connected to the electrical system via a branch containing the dc/dc converter and a second branch. The battery is connected to the system between the second branch and earth. Switches in the branches are controlled depending on the battery and energy storage device charge and a vehicle operating state. The circuit has a starter/generator (1), power electronics (LE), at least one battery (B), at least one dynamic energy storage device (3) and a dc/dc converter (2). The starter generator is connected to the in-board electrical system via a branch containing the dc/dc converter and via a second branch, whereby both branches contain a switch (S1,S2) and the battery is connected to the system between the second branch and earth. The switches are controlled by a controller (5) depending on the state of charge of the battery and energy storage device and an operating state of the motor vehicle.

IPC 1-7

**H02J 7/14**

IPC 8 full level

**H02J 7/14** (2006.01); **H02J 7/34** (2006.01)

CPC (source: EP US)

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Citation (search report)

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