

Title (en)

ENERGY EXTRACTION AND UTILIZATION CIRCUITS

Title (de)

ENERGIEEXTRAKTIONS- UND -VERWENDUNGSKREISLÄUFE

Title (fr)

CIRCUITS D'EXTRACTION ET D'UTILISATION D'ÉNERGIE

Publication

EP 3111457 A1 20170104 (EN)

Application

EP 15755670 A 20150302

Priority

- US 201461945887 P 20140228
- US 2015018368 W 20150302

Abstract (en)

[origin: WO2015131205A1] A system for extracting energy from an energy storage device configured to supply direct current (DC) energy at a nominal voltage rating comprises a first node dimensioned and arranged to receive direct current energy from the energy storage device. Embodiments include a self-oscillating circuit having primary and secondary windings wound around a ferrite core, wherein a positive terminal of the primary winding is tied to the negative terminal of the secondary winding at the first node, and wherein a positive terminal of the secondary winding is coupled to a second node, the second node being coupled to a load requiring power to be supplied at one of a voltage less than, equal to, or higher than the nominal voltage. Some embodiments further include a transistor having a base resistively coupled to a negative terminal of the primary winding and a collector coupled to the second node.

IPC 8 full level

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CPC (source: EP US)

H02J 7/00 (2013.01 - US); **H02J 7/0032** (2013.01 - EP); **H02J 7/0063** (2013.01 - EP US); **H02J 7/007182** (2020.01 - EP US);
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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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