

Title (en)

A method and system for alternating current regulation

Title (de)

Verfahren und Vorrichtung zur Wechselstromregelung

Title (fr)

Procédé et système de régulation de courant alternatif

Publication

EP 1465037 A3 20050112 (EN)

Application

EP 04076919 A 19991229

Priority

- EP 99967731 A 19991229
- US 11419598 P 19981230

Abstract (en)

[origin: EP1465037A2] Circuitry and methods for regulating alternating current regulation uses energy storage and release principles to boost or buck voltage to permit regulated ac operation with parallel and series bi-directional switch elements (12) and (13) operated at either variable duty cycles or frequencies to accommodate bipolar ac operation. Each bi-directional switch element may include a diode bridge (8) or (10) and directionally limited switches such as semiconductor switches. The system can be used to regulate ac even during sub-cycle dips, can be used to simulate controlled dips, can be used to correct power factor for loads, and can be applied in multiphase operations. <IMAGE>

IPC 1-7

G05F 1/12

IPC 8 full level

G05F 1/12 (2006.01)

CPC (source: EP)

G05F 1/12 (2013.01)

Citation (search report)

- [X] US 4651265 A 19870317 - STACEY ERIC J [US], et al
- [A] US 3825815 A 19740723 - GYUGYI L, et al

Cited by

CN101866191A; EP1998241A1; US2015280596A1; US9787208B2; EP1645235A1; EP2221018A3; US9833287B2; US9848932B2; US8795270B2; US7467075B2; US9700366B2; US9877769B2; US10524850B2

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