

Title (en)  
A METHOD AND SYSTEM FOR ALTERNATING CURRENT REGULATION

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR WECHSELSTROMREGELUNG

Title (fr)  
PROCEDE ET SYSTEME DE REGULATION DE COURANT ALTERNATIF

Publication  
**EP 1155358 B1 20040908 (EN)**

Application  
**EP 99967731 A 19991229**

Priority  
• US 9931154 W 19991229  
• US 11419598 P 19981230

Abstract (en)  
[origin: WO0039653A1] 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.

IPC 1-7  
**G05F 1/12**

IPC 8 full level  
**H02M 5/293** (2006.01); **G05F 1/12** (2006.01)

CPC (source: EP)  
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**WO 0039653 A1 20000706**; AU 2396300 A 20000731; DE 69920052 D1 20041014; DE 69920052 T2 20050922; EP 1155358 A1 20011121; EP 1155358 A4 20020320; EP 1155358 B1 20040908; JP 2002534051 A 20021008

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