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Patent Owner Demonstratives
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Overview

Background

"System Operational State of Said Load"

"Power Converter Operational State"

Power Converter "Controller"

Dependent Claims

Overview

Background

"System Operational State of Said Load"

"Power Converter Operational State"

Power Converter "Controller"

Dependent Claims

U.S Patent No. 7675759

ted States Patent

ER SYSTEM WITH POWER

US 7,675,759 B2 (10) Patent No.: (45) Date of Patent: Mar. 9, 2010

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ERTERS HAVING AN ADAPTIVE

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Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 248 days.

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Prior Publication Data

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Related U.S. Application Data

uation-in-part of application No. 11/607,325, n Dec. 1, 2006.

3/335 363/21.01 of Classification Search 363/35 363/37, 40, 41, 47, 48, 95, 97, 131, 132, 363/21.01; 323/355, 362 plication file for complete search history.

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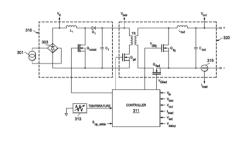
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A power system having a power converter with an adaptive controller. The power system is coupled to a load and includes a power system controller that receives a signal indicating a system operational state of the load and selects a power converter operational state as a function thereof. The power system also includes a power converter with a power switch that conducts for a duty cycle to provide a regulated output characteristic at an output thereof. The power converter also includes a controller that receives a command from the power system controller to enter the power converter operational state and provides a signal to control the duty cycle of the power switch as a function of the output characteristic and in accordance with the command, thereby regulating an internal operating characteristic of the power converter to improve an operating efficiency thereof as a function of the system operational state.

20 Claims, 9 Drawing Sheets



Ex. 1001 ['514 Patent]

Effective Filing Date: December 1, 2006

Ground	Claims	Statutory Basis (35 U.S.C. §)	Prior Art
1A	1-3, 5-13, 15-20	102	Hirst
1B	1-3, 5-13, 15-20	103	Hirst
2A	1-2, 4-6, 11, 14-16, 20	102	Chagny
2B	1-2, 4-6, 11, 14-16, 20	103	Chagny
2C	3, 12-13, 19	103	Chagny, Clark
3	1-2, 4-6, 11, 14-16, 20	103	Hwang

See Pet., 5, 10.

'759 Patent: Representative Claim 6

- **6**. A power system coupled to a load, comprising:
- a power system controller configured to receive a signal indicating a system operational state of said load and to select a power converter operational state as a function thereof; and
- a power converter, including:
 - a power switch configured to conduct for a duty cycle to provide a regulated output characteristic at an output thereof, and
 - a controller configured to receive a command from said power system controller to enter said power converter operational state and to provide a signal to control said duty cycle of said power switch as a function of said output characteristic and in accordance with said command, thereby regulating an internal operating characteristic of said power converter to improve an operating efficiency thereof as a function of said system operational state.

Ex. 1001 ['759 Patent] 23:7-24

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