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## (12) United States Patent

#### Baldwin et al.

#### (54) 380 VOLT DIRECT CURRENT POWER DISTRIBUTION SYSTEM FOR INFORMATION AND COMMUNICATION TECHNOLOGY SYSTEMS AND FACILITIES

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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 507 days.
- (21) Appl. No.: 12/976,383
- (22) Filed: Dec. 22, 2010

#### (65) **Prior Publication Data**

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#### **Related U.S. Application Data**

- (60) Provisional application No. 61/289,109, filed on Dec. 22, 2009.
- (51) Int. Cl. *H02J 9/00* (2006.01)
  (52) U.S. Cl.

### (10) Patent No.: US 8,638,008 B2

#### (45) **Date of Patent:** Jan. 28, 2014

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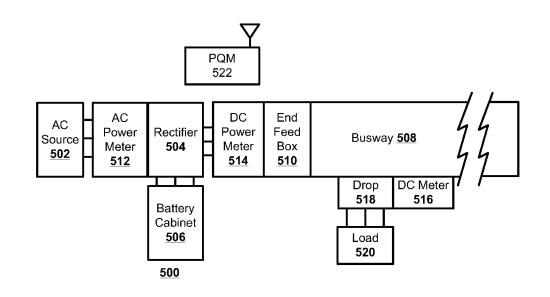
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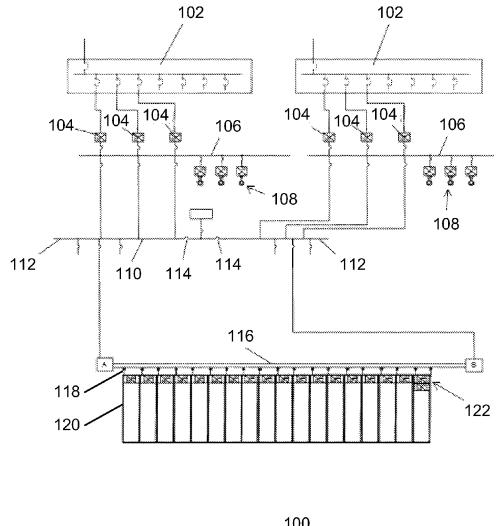
#### (57) ABSTRACT

A method and a modular direct current power distribution system. A distribution panel may receive alternating current power with a voltage range between 200 volts and 15000 volts. A modular rectifier may convert the alternating current power from the distribution panel to direct current power with a range of 250 volts to 600 volts. An end feed box may receive alternative energy power from an alternative energy power source. A power pathway module may distribute the direct current power from the modular rectifier to a set of information and communication technology equipment. An electrical protection system may guard against electrical damage.

#### 10 Claims, 9 Drawing Sheets



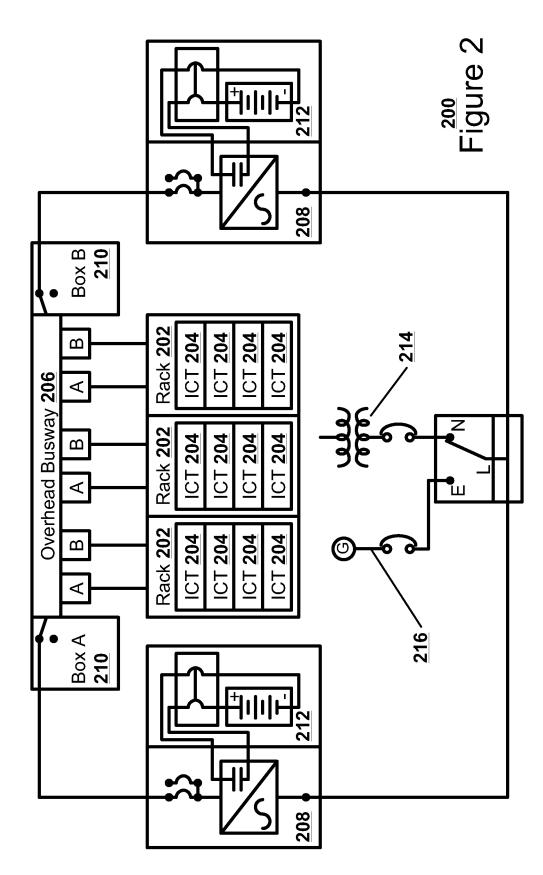
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<u>100</u> Figure 1

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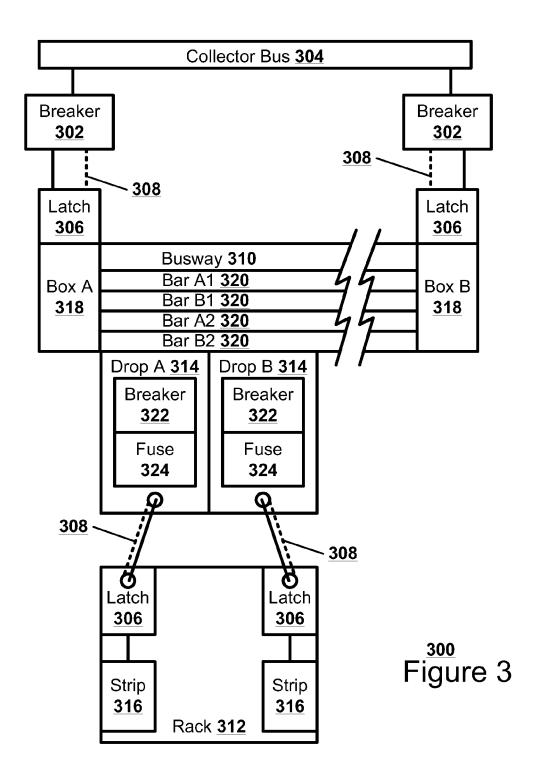
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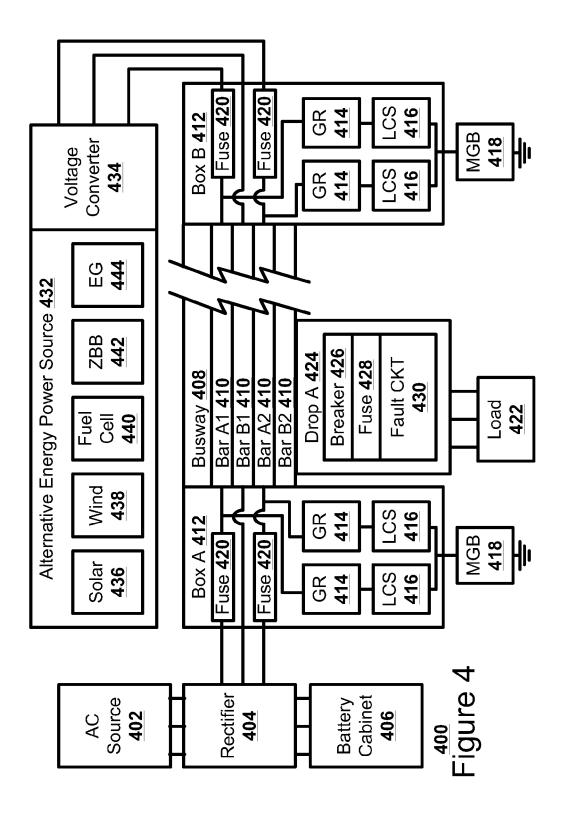


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