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Tatcho et al.

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(54) **METHOD OF LOCATING A FAULT IN A POWER DISTRIBUTION SYSTEM COMPRISING AT LEAST ONE DC VOLTAGE DISTRIBUTED RESOURCE HAVING A CONTROLLABLE VOLTAGE SOURCE CONVERTER**

31/088 (2013.01); H02J 1/00 (2013.01); H02J 2001/002 (2013.01); H02J 2001/004 (2013.01); H02J 2001/006 (2013.01); H02J 2001/008 (2013.01)

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See application file for complete search history.

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This patent is subject to a terminal disclaimer.

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(57) **ABSTRACT**

The present invention provides a method to ensure that distributed resources of a power distribution system remain connected to the circuitry of the power distribution system when a fault occurs at a distributed resource node to assist in identifying the location of the fault by continuing to inject current from the distributed resources into the distribution system, wherein at least one of the distributed resources is a DC voltage distributed resource comprising a controllable voltage source converter.

5 Claims, 5 Drawing Sheets

