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(54) Title: DELTA CONNECTED RESONANT TURN OFF CIRCUITS

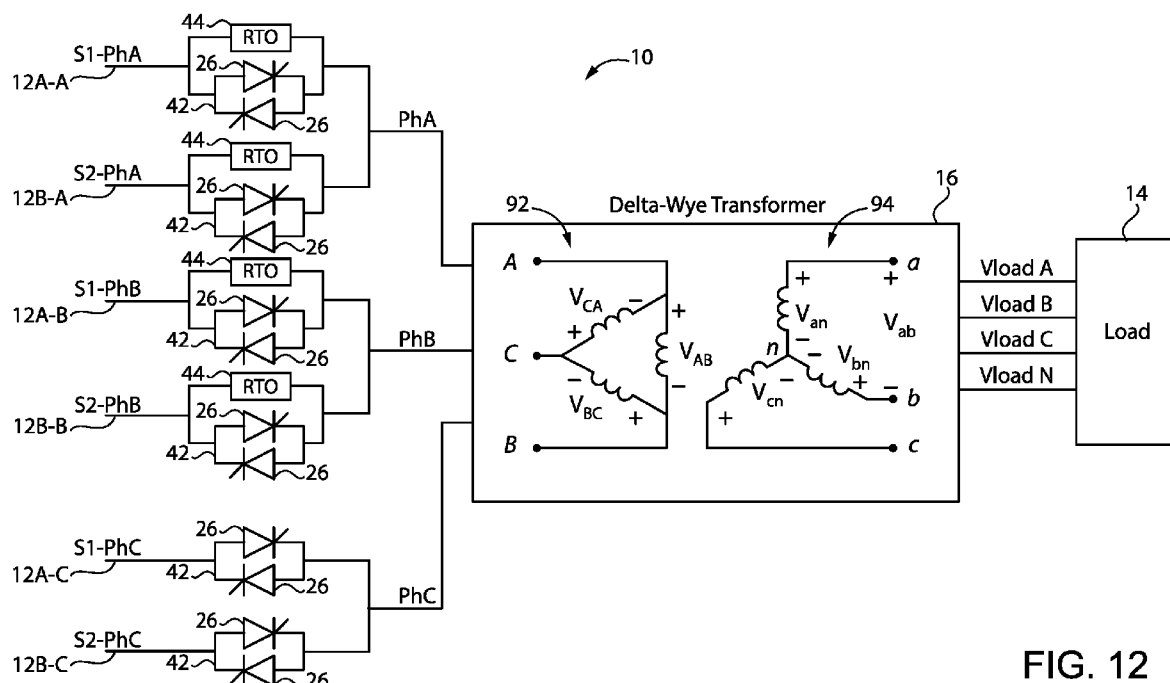


FIG. 12

(57) Abstract: A static transfer switch is provided for supplying power to a load alternately from two different power sources. Switching between the two power sources may occur within a fraction of one electrical cycle. In response to sensing degraded performance in the power source supplying the load, resonant turn off circuits connected directly to the main switches of two phases of the power source are actuated to commutate the respective main switches. The main switch of the third phase is commutated with one or more of the resonant turn off circuits through the delta side of a transformer connected to the three phases of the power source.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PO-TAI CHENG ET AL: "Design of an Impulse Commutation Bridge for the Solid-State Transfer Switch", IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 44, no. 4, 1 July 2008 (2008-07-01), pages 1249-1258, XP011231794, ISSN: 0093-9994, DOI: 10.1109/TIA.2008.926311 abstract figures 1,3 page 1250 - page 1252 -----	1-21
A	WO 00/48287 A1 (INVERPOWER CONTROLS LTD [CA]; RAJDA JANOS [CA]; DEWAN SHASHI [CA]) 17 August 2000 (2000-08-17) abstract figure 4 -----	1-21

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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