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(74) Agents: ROURK, Christopher, J. et al.; Jackson Walker L.L.P., 2323 Ross Avenue, Suite 600, Dallas, TX 75201 (US).

(54) Title: POWER SHARING SOLID-STATE RELAY

(57) Abstract: A solid-state switch, comprising at least one switch controller. At least one switch having a first terminal coupled to a power source, a second terminal coupled to the power source and a control terminal coupled to the switch controller and configured to selectively conduct and block current flow from the first terminal to the second terminal. At least one power converter coupled to the first terminal and the second terminal and configured to convert power from the power source from a first voltage level to a second voltage level and to provide power at the second voltage level to the switch controller.

FIG. 1

[Continued on next page]
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

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H03K 17/00 (2006.01)

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)

H02J 4/00, H03K 17/00, 17/08, 17/08 1, 17/08 12, H02M 1/00, 1/08-1/12, 3/00-3/24, G05F 1/00, 1/10, G05B 11/00, 11/01, H05B 37/00, 37/02, H02P 23/00, H02H 900-908, G01R 7/00

Documentation searched other than to 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)

PatSearch (RUPTO internal), USPTO, PAJ, Esp@cenet, DWPI, EAPATIS, PATENTSCOPE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<td>WO 2013/095809 A1 (GENERAL ELECTRIC COMPANY) 27.06.2013, abstract, par. [0008], [0019], [0020], [0022], [0024]-[0026], [0028], [0034], [0063]</td>
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Name and mailing address of the ISA/RU:

Federal Institute of Industrial Property,
Berezhkovskaya nab., 30-1, Moscow, G-59,
GSP-3, Russia, 125993

Facsimile No.: (8-495) 531-63-18, (8-499) 243-33-37

Authorized officer

P. Volkov

Telephone No. 499-240-25-91

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