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- (71) **Applicant:** GENERAL ELECTRIC TECHNOLOGY GMBH [CH/CH]; Brown Boveri Strasse 7, CH-5400 Baden (CH).
- (72) **Inventors:** DE-PREVILLE, Guillaume; 34 Rue du Sagittaire, F78990 Elancourt (FR). BREHAUT, Stephane; 16 Essex House, 25-27 Temple Street, Birmingham B2 5DB (GB).
- (74) **Agent:** MARSHALL, Caroline; Potter Clarkson LLP, The Belgrave Centre, Talbot Street, Nottingham NG1 5GG (GB).

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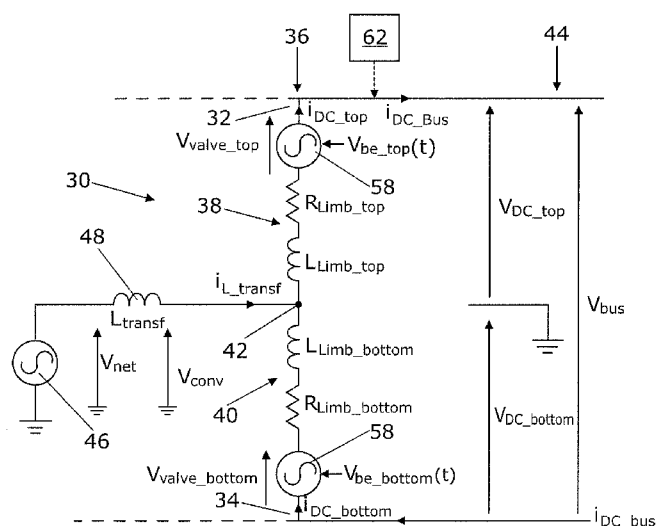
(54) **Title:** VOLTAGE SOURCE CONVERTER WITH CURRENT LIMITATION

Figure 1

(57) **Abstract:** A voltage source converter (30) comprises: a converter arm (38,40) extending between two terminals (32,34,42), each terminal (32,34,42) being connectable to a or a respective electrical network (44,46), the converter arm (52,54) including a valve (58) that includes at least one module, the or each module being operable to selectively provide a voltage source; and a controller (62) programmed to selectively operate the valve (58) to clamp a voltage at either or both of the two terminals (32,34,42) and thereby operate the valve (58) as a current limiter to limit a selected current flowing in the converter arm (38,40) at or below a fixed or variable current threshold.



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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)

H02M

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.
X	WO 2011/029480 A1 (ABB RESEARCH LTD [CH]; BREGGREN BERTIL [SE]; NORRGA STAFFAN [SE]; JONS) 17 March 2011 (2011-03-17) page 19, line 8 - page 23, line 27 -----	1-13
X	WO 2007/033852 A2 (SIEMENS AG [DE]; HILLER MARC [DE]) 29 March 2007 (2007-03-29) page 13, lines 13-28 ----- -/--	1-13



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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Hanisch, Thomas

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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