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[Continued on next page]

(54) Title: DETECTING ISLANDING CONDITIONS IN POWER NETWORKS

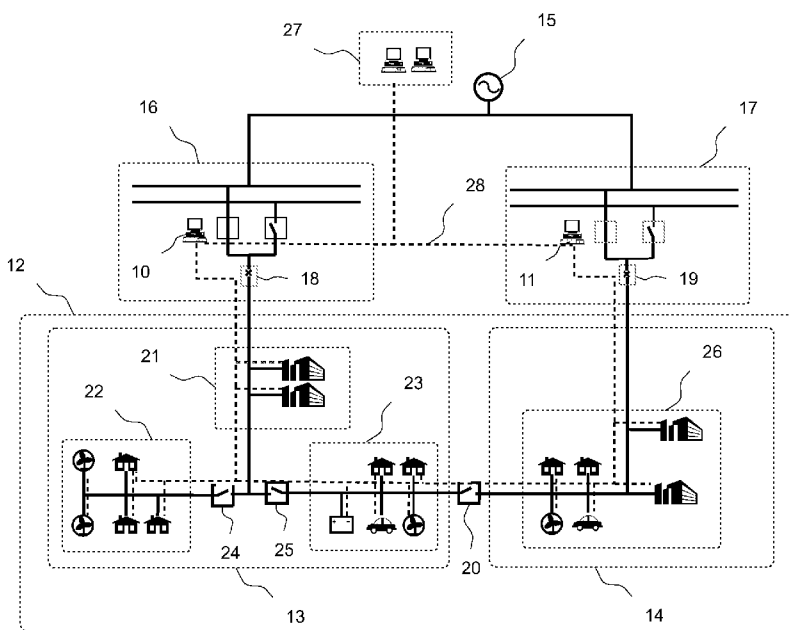


Figure 3

(57) Abstract: A method for detecting islanding conditions in a low voltage (LV) electric power network, wherein the electrical power network comprises a plurality of sub-networks. The sub-networks comprise at least one power electrical unit and are separable from each other and a main grid supplying the network by switching devices. The method comprises determining topological information of at least one sub-network of interest, detecting islanding conditions in at least one sub-network of interest on the basis of the topological information by using separate detecting means for each sub-network of interest, and sending, on the basis of the islanding conditions detected by using the detecting means, a disconnect signal to at least one power electrical unit in at least one sub-network of interest.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
 H02J
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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.
Y	WO 2009/053668 A2 (ROLLS ROYCE PLC; BRIGHT CHRISTOPHER GRAHAM [GB] ROLLS ROYCE PLC [GB];) 30 April 2009 (2009-04-30) the whole document	1-10
Y	WO 2009/053309 A1 (ABB RESEARCH LTD [CH]; KIRRMANN HUBERT [CH]; OBRIST MICHAEL [CH]; WIMM) 30 April 2009 (2009-04-30) abstract page 4, line 3 - page 5, line 8 page 6, line 9 - page 8, line 12 page 8, line 25 - page 9, line 26 figure 1	1-10

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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Date of the actual completion of the international search 12 November 2012	Date of mailing of the international search report 20/11/2012
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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 Hurtado-Albir, F
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International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MA C ET AL: "An agent brokering-based scheme for anti-islanding protection of distributed generation", POWER&ENERGY SOCIETY GENERAL MEETING, 2009. PES '09. IEEE, IEEE, PISCATAWAY, NJ, USA, 26 July 2009 (2009-07-26), pages 1-8, XP031538615, ISBN: 978-1-4244-4241-6 the whole document</p>	1-10
A	<p>-----</p> <p>EDMUND O SCHWEITZER ET AL: "Real-world synchrophasor solutions", PROTECTIVE RELAY ENGINEERS, 2009 62ND ANNUAL CONFERENCE FOR, IEEE, PISCATAWAY, NJ, USA, 30 March 2009 (2009-03-30), pages 536-547, XP031461770, ISBN: 978-1-4244-4182-2 abstract page 543, left-hand column, paragraph 7 - right-hand column, last paragraph</p> <p>-----</p>	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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