METHOD AND APPARATUS FOR LOCATING A DISCHARGE IN A STATOR OF AN ELECTRICAL MACHINE

The invention relates to a method for locating a source of discharge of at least one partial discharge in a stator of an electrical machine, wherein the stator is provided on various positions with sensors for detecting electric pulses generated by the discharge, whereby at least one time delay is determined between the electrical pulses detected by the sensors, and based on this at least one time delay the location of the source of discharge is calculated, wherein the calculated location of the source of discharge is carried out by optimising a differential function to a minimum value.
A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01R31/06 G01R31/34

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)

IPC 7 G01R

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<th>Category</th>
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<th>Relevant to claim No.</th>
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<td>US 6 452 416 B1 (URAKAWA NOBUO ET AL) 17 September 2002 (2002-09-17) column 7, line 21 - column 13, line 34; figures 1-4</td>
<td>1-11</td>
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Further documents are listed in the continuation of box C. Patent family members are listed in annex.

*Special categories of cited documents:

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Date of the actual completion of the international search
17 August 2004

Date of mailing of the international search report
02/09/2004

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