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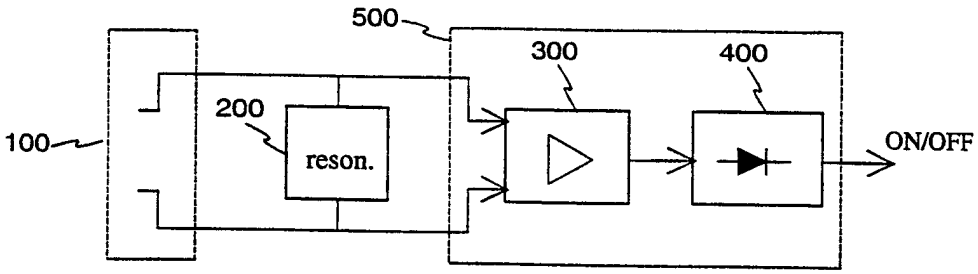
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(54) Title: METHOD AND APPARATUS FOR INDICATING AN ALTERNATING VOLTAGE



(57) Abstract

The invention pertains to an alternating voltage indicator placed next to an electrical conductor. Indication is based on the detection of an electric field around a live conductor. Energy is taken capacitively (100) from an alternating electric field in order to bring a resonant circuit (200) tuned to the frequency of the alternating voltage into oscillating state. The voltage of the resonant circuit (200) is amplified (300) and converted into an on/off type (400) signal indicating the presence of an alternating voltage. The indicator according to the invention is electrically safe and it indicates the presence of an alternating voltage regardless of whether the alternating voltage source is loaded at that particular point or not.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 98/00507

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: G01R 19/155
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)

IPC6: G01R

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

SE,DK,FI,NO classes as above

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

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4719415 A (W. MEHNERT), 12 January 1988 (12.01.88), abstract ---	1-6
A	GB 2049205 A (HUGH MEDINE), 17 December 1980 (17.12.80), figure 1, abstract ---	1-6
A	DE 2849529 A1 (IPA INTERNATIONALE PATENT- UND LIZENZ ANSTALT), 29 May 1980 (29.05.80), claims 1-5 ---	1-6
A	DE 2814488 A1 (KüHNE, BERND ET AL.), 11 October 1979 (11.10.79), claims 1-7 ---	1-6

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

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Date of the actual completion of the international search	Date of mailing of the international search report
17 December 1998	17 -12- 1998
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International application No.
PCT/FI 98/00507

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5274324 A (E.O. SCHWEITZER, JR.), 28 December 1993 (28.12.93), abstract -- --------	1-6

INTERNATIONAL SEARCH REPORT

Information on patent family members

01/12/98

International application No.
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