

Title (en)

Method and apparatus for identifying the location of a change in state of a part of an electrical circuit.

Title (de)

Verfahren und Vorrichtung zur Ortsbestimmung einer Zustandsänderung eines Teiles eines elektrischen Stromkreises.

Title (fr)

Méthode et dispositif pour déterminer le lieu de changement d'état d'une partie d'un circuit électrique.

Publication

**EP 0072187 A1 19830216 (EN)**

Application

**EP 82304097 A 19820803**

Priority

- IE 2082 A 19820107
- IE 22581 A 19810206

Abstract (en)

An electrical circuit arrangement including a plurality of bistate devices such as vibration detection devices (2 to 7) connected therein, each occupying a particular position in the circuit, and each having a resistor (R2 to R7) associated therewith, such that a predetermined value of resistance normally prevails and the value is changed when any device changes state, comparison means (13 to 17) for comparing a parameter such as the current in the circuit with a reference parameter to indicate the identity of any device which has changed state and the position in the circuit of any changed-state device. In a second embodiment the bistate devices (2 to 6; 30 to 34) and resistors (R1 to R6) are connected in a multiterminal network (1, 1 min ; 35, 36) and connected to monitoring means (39) such as a microprocessor via a switching unit (40), the monitoring means (39) being operable in a plurality of different modes to monitor the devices (2 to 6; 30 to 34) across different combinations of pairs of terminals (1, 1 min ; 35, 36) such as to identify the position of any changed-state device in the circuit and to identify any failed or faulty device and to allow the circuit to continue to operate despite any failed or faulty device.

IPC 1-7

**G08B 25/00**; **G08B 29/00**

IPC 8 full level

**G08B 25/01** (2006.01); **G08B 29/08** (2006.01)

CPC (source: EP)

**G08B 25/018** (2013.01); **G08B 29/08** (2013.01)

Citation (search report)

- [X] GB 2032666 A 19800508 - AMERICAN DISTRICT TELEGRAPH CO
- [A] EP 0026461 A2 19810408 - SIEMENS AG [DE]
- [A] EP 0026462 A2 19810408 - SIEMENS AG [DE]
- [A] DE 2716506 A1 19781019 - EBERHARD DIETER
- [A] US 3646552 A 19720229 - FUHR DAVID R
- [A] US 4118700 A 19781003 - LENIHAN THOMAS FRANCIS
- [P] GB 2082358 A 19820303 - DYNALARM LTD
- [A] DE 2632738 A1 19780126 - SECURITON AG
- [A] US 3832678 A 19740827 - NILSSON K, et al
- [A] DE 1766735 A1 19710819 - WERNER KARL HEINZ DIPL ING
- [A] GB 1484965 A 19770908 - NOHMI BOSAI KOGYO CO LTD

Cited by

DE102009053113B4

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0072187 A1 19830216**; CA 1194573 A 19851001; DK 346982 A 19830207

DOCDB simple family (application)

**EP 82304097 A 19820803**; CA 408770 A 19820805; DK 346982 A 19820803