

Title (en)

MODULAR POWER QUALITY MONITORING DEVICE

Title (de)

MODULARE ÜBERWACHUNGSVORRICHTUNG DER NETZSTROMQUALITÄT

Title (fr)

DISPOSITIF MODULAIRE DE CONTROLE DE LA QUALITE DE L'ELECTRICITE

Publication

**EP 1153379 A4 20030820 (EN)**

Application

**EP 99906960 A 19990211**

Priority

US 9903042 W 19990211

Abstract (en)

[origin: WO0048149A1] A modular power quality monitoring device, adaptable to an electrical anomaly detection circuit, such as a surge protection device (16), comprises an electrical connection to an AC power line, voltage surge detection circuitry (12), a neuron microprocessor (10), a DC power source (38) and a transmission circuit (42, 44, 46, 48 or 50). The modular device is capable of detecting a plurality of electrical anomalies, such as voltage levels, current draw, power surges, phase outages, phase shifting, power factor, harmonic distortion and panel load. A plurality of the modular devices can be employed about a facility to create a power quality control network. A user interface (14) permits data stored by the modular device to be retrieved and/or viewed on a display (32). Various means of transmission can be employed, such as modulated power line transmission (42) or free topology - twisted pair (44), RS485 (46), fiber optics (48), RF carrier or computer modem connection (50).

IPC 1-7

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IPC 8 full level

**G01R 19/25** (2006.01); **H02H 1/00** (2006.01); **H02J 3/18** (2006.01); **H02H 3/04** (2006.01); **H02H 3/253** (2006.01)

CPC (source: EP)

**G01R 19/2513** (2013.01); **H02H 1/0061** (2013.01); **H02J 3/18** (2013.01); **H02H 1/0076** (2013.01); **H02H 3/04** (2013.01); **H02H 3/253** (2013.01); **Y02E 40/30** (2013.01)

Citation (search report)

- [XY] US 4758962 A 19880719 - FERNANDES ROOSEVELT A [US]
- [Y] EP 0718948 A2 19960626 - EATON CORP [US]
- [Y] US 5796631 A 19980818 - IANCU DANIEL S [US], et al
- See references of WO 0048149A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0048149 A1 20000817**; AU 2674999 A 20000829; EP 1153379 A1 20011114; EP 1153379 A4 20030820

DOCDB simple family (application)

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