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(12) **United States Patent**
Graham

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(45) **Date of Patent:** **Jul. 5, 2005**

(54) **CIRCUIT FOR MEASUREMENT OF ELECTRICAL POLLUTION ON POWER LINE**

(75) **Inventor:** **Martin H. Graham**, Berkeley, CA (US)

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** **10/677,973**

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(65) **Prior Publication Data**

US 2005/0073316 A1 Apr. 7, 2005

(51) **Int. Cl.⁷** **G01R 31/00**

(52) **U.S. Cl.** **324/500; 324/522**

(58) **Field of Search** **324/500, 522, 324/537, 158; 340/566; 379/100.01**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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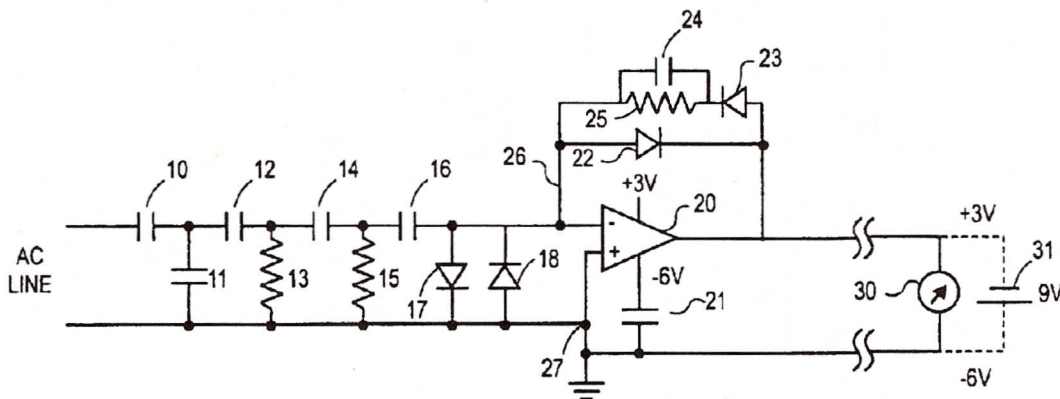
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(57) **ABSTRACT**

A circuit and method for measuring pollution on an AC power line is described. After attenuation of the AC power signal, the remaining signal is differentiated, rectified and smoothed to provide a DC signal representative of the pollution which can be viewed on an ordinary meter.

15 Claims, 1 Drawing Sheet



TEST REPORT

Client: Stetzer Electric Inc
520 W Broadway Street
BLAIR
WI 54616
USA



FAO: Jessica Peterson

Sample: **UK FILTER**

Laboratory No: S0803976/SJG

Reference No: GS-F240-G

Order No: 5298

Date received: 15/05/2008

Description: Plug-in mains filter unit. Input 250Vac, max load 13A. The unit consists of a potted filter unit mounted in a plastic enclosure with a moulded BS1363 plug and socket.

Test conducted: Test for compliance with BS 5733 : 1995.

Conclusion The sample **complied** with the standard.



Andy Scott
Senior Electrical Technician

23rd May 2008

All results relate only to the sample(s) received for testing.
Tests marked "Not UKAS Accredited" in this report/certificate are not included in the UKAS Accreditation Schedule for our laboratory.

TEST REPORT

Client: Stetzer Electric Inc.
520 W Broadway Street
PO Box 25
Blair Wisconsin 54616
U.S.A

FAO: Jessica Peterson



Sample: **EUROPEAN FILTER**

Laboratory No: S0803975/LS

Reference No: GS - F240 - EF

Order No: 5298

Date received: 15/05/2008

Description: Plug-in mains filter unit. Input: 250Vac, max load 15A. The unit consists of a potted filter unit mounted in a plastic enclosure with a moulded EU IEC CEE7 plug and socket.

Test conducted: Test for compliance with BS 5733 : 1995.

Conclusion The sample **complied** with the standard.



Andy Scott
Senior Electrical Technician

1st July 2008

All results relate only to the sample(s) received for testing.
Tests marked "Not UKAS Accredited" in this report/certificate are not included in the UKAS Accreditation Schedule for our laboratory.