



- (51) **International Patent Classification:**  
*G01N 27/12* (2006.01) *G01N 33/00* (2006.01)
- (21) **International Application Number:**  
PCT/IB2015/001129
- (22) **International Filing Date:**  
26 March 2015 (26.03.2015)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
61/970,564 26 March 2014 (26.03.2014) US
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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,

KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**  
14 January 2016

(54) **Title:** GAS SENSOR BEING OZONE INTERFERENCE-FREE

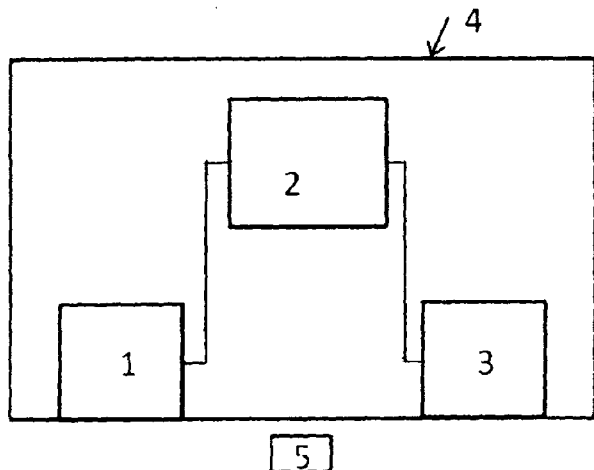


FIG 1

(57) **Abstract:** One or more inexpensive electrochemical gas sensors are paired with a selective ozone sensor. Ozone in ambient air influences the output signals of the electrochemical gas sensors. The unwanted ozone effects are removed from the output signals of the electrochemical gas sensors by comparing them with the selective ozone sensor output signals. The selective ozone sensor signals are removed from and/or added to output signals from the electrochemical gas sensors. True indications of concentrations of the sensed gases in the ambient air result from the compensation for ozone interference.



**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/IB2015/001129

**A. CLASSIFICATION OF SUBJECT MATTER**  
 INV. G01N27/12 G01N33/00  
 ADD.

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)  
 G01N

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 practicable, search terms used)  
 EPO-Internal, WPI Data

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 249 403 A (BECKMAN INSTRUMENTS INC [US]) 13 October 1971 (1971-10-13)	1,2,5-10
Y	page p, lines 68-115 Fig. 1 and corresponding text passages -----	3,4
Y	SAUTER D ET AL: "Development of Modular Ozone Sensor System for application in practical use", SENSORS AND ACTUATORS B: CHEMICAL: INTERNATIONAL JOURNAL DEVOTED TO RESEARCH AND DEVELOPMENT OF PHYSICAL AND CHEMICAL TRANSDUCERS, ELSEVIER S.A, CH, vol. 69, no. 1-2, 10 September 2000 (2000-09-10), pages 1-9, XP004208551, ISSN: 0925-4005, DOI: 10.1016/S0925-4005(00)00295-1 abstract ----- -/--	3,4

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search  28 October 2015	Date of mailing of the international search report  11/11/2015
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Klein, Marc-Oliver

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/IB2015/001129

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KROON D J: "Analysis of ambient air", JOURNAL OF PHYSICS E. SCIENTIFIC INSTRUMENTS, IOP PUBLISHING, BRISTOL, GB, vol. 11, no. 6, 1 June 1978 (1978-06-01), pages 497-507, XP001340318, ISSN: 0022-3735 the whole document</p> <p style="text-align: center;">-----</p>	1-10
A	<p>ALEXY M ET AL: "Disposable optochemical sensor chip for nitrogen dioxide detection based on oxidation of N,N'-diphenyl-1,4-phenylenediamine", SENSORS AND ACTUATORS B: CHEMICAL: INTERNATIONAL JOURNAL DEVOTED TO RESEARCH AND DEVELOPMENT OF PHYSICAL AND CHEMICAL TRANSDUCERS, ELSEVIER S.A, CH, vol. 114, no. 2, 26 April 2006 (2006-04-26), pages 916-927, XP027971181, ISSN: 0925-4005 [retrieved on 2006-04-26] the whole document</p> <p style="text-align: center;">-----</p>	1-10
A	<p>US 2013/278427 A1 (SETTON MICHAEL [FR]) 24 October 2013 (2013-10-24) the whole document</p> <p style="text-align: center;">-----</p>	1-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2015/001129

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
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			GB 1249403 A	13-10-1971
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