

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. claims: 1-17

Fluid sensor comprising an additional electrode.

2. claims: 18-37

Fluid sensor having a specific capacitance ratio  $K$  and a processing device which is designed to adjust the control potential  $P9$  at the substrate electrode in such a way that the control potential  $P9$  at the substrate electrode is the increased value of the potential  $P11$  at the sensor layer, with  $P9 = K * P11$ .

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/076189

**A. CLASSIFICATION OF SUBJECT MATTER****G01N 27/414**(2006.01)i; **H01L 29/78**(2006.01)i

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; H01L

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

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2015287781 A1 (EISELE IGNAZ [DE]) 08 October 2015 (2015-10-08) abstract figures 2,3 paragraphs [0011], [0012], [0013], [0014], [0046] - [0058]	1-37
Y	WO 03050526 A2 (EISELE IGNAZ [DE]; VOIGT WOLFGANG M [DE]; ZIMMER MARTIN [DE]) 19 June 2003 (2003-06-19) abstract page 9, line 30 - page 10, line 19; figures 7b, 8 page 16, line 7 - line 13 page 18, line 4 - page 19, line 12	1-17,22-25,27-29,31,33-37
Y	US 2017067849 A1 (COBIANU CORNEL P [RO] ET AL) 09 March 2017 (2017-03-09) paragraph [0022]	10-12
Y	EP 1715333 A2 (MICRONAS GMBH [DE]) 25 October 2006 (2006-10-25) abstract figure 4 paragraph [0024]	18-37

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

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"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)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

**28 February 2019**

Date of mailing of the international search report

**11 March 2019**

Name and mailing address of the ISA/EP

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/076189

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 2034302 A2 (MICRONAS GMBH [DE]) 11 March 2009 (2009-03-11) claim 12 figure 2	1-17
A	DE 102005033226 A1 (SIEMENS AG [DE]) 25 January 2007 (2007-01-25) abstract figure 4 paragraph [0034]	1-17

**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

**PCT/EP2018/076189**

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
US	2015287781	A1	08 October 2015	DE	102015104419	A1	08 October 2015
				US	2015287781	A1	08 October 2015
WO	03050526	A2	19 June 2003	AU	2002358704	A1	23 June 2003
				DE	10161214	A1	03 July 2003
				WO	03050526	A2	19 June 2003
US	2017067849	A1	09 March 2017	NONE			
EP	1715333	A2	25 October 2006	EP	1715333	A2	25 October 2006
				US	2006278528	A1	14 December 2006
EP	2034302	A2	11 March 2009	DE	102007042265	A1	12 March 2009
				EP	2034302	A2	11 March 2009
DE	102005033226	A1	25 January 2007	DE	102005033226	A1	25 January 2007
				EP	1904837	A1	02 April 2008
				WO	2007009948	A1	25 January 2007