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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: SENSORS COMPRISING A SEMI-CONDUCTIVE POLYMER

(57) Abstract: Disclosed is an implementation for detecting at least one analyte in a sample. In one embodiment, the implementation includes a sensor array featuring one or a plurality of test sensors. Typically, each of the test sensors includes a set of electrodes configured with a insulating surface to form a chamber. The implementation further includes a semi-conductive film positioned at least in the chamber; and a polyfunctional linker comprising a first end attached to a receptor and a second end. Also provided are methods for making and using the implementation.



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**INTERNATIONAL SEARCH REPORT**  
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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :C12Q 1/00, 1/68, 1/34, 1/02; G01N 33/53; C12M 1/34  
US CL :435/4, 6, 7.1, 18, 29, 287.1, 287.2, 811

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)

U.S. : 435/4, 6, 7.1, 18, 29, 287.1, 287.2, 811

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)  
Please See Extra Sheet.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,444,892 A (MALMROS) 24 April 1984, see entire document.	1-79
Y	US 5,766,934 A (GUISEPPI-ELIE) 16 June 1998, see entire document, especially column 6, lines 4-10; column 23, lines 44-47 and column 25, lines 9-12.	1-79
Y	US 5,352,574 A (GUISEPPI-ELIE) 04 October 1994, see entire document, especially column 9, lines 60-65.	1-79
Y	US 4,716,122 A (SCHEEFERS) 29 December 1987, see entire document, especially column 2, lines 49-68.	13-30, 73
Y	US 5,788,989 A (JANSEN et al) 04 August 1998, see entire document.	31-37, 73

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

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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)	"G" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
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## B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

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search terms: semi-conductive, sensor, polymer, polyfunctional, electrode, analyte, chamber, bifunctional, receptor, photoactivatable, linker, dendrimer