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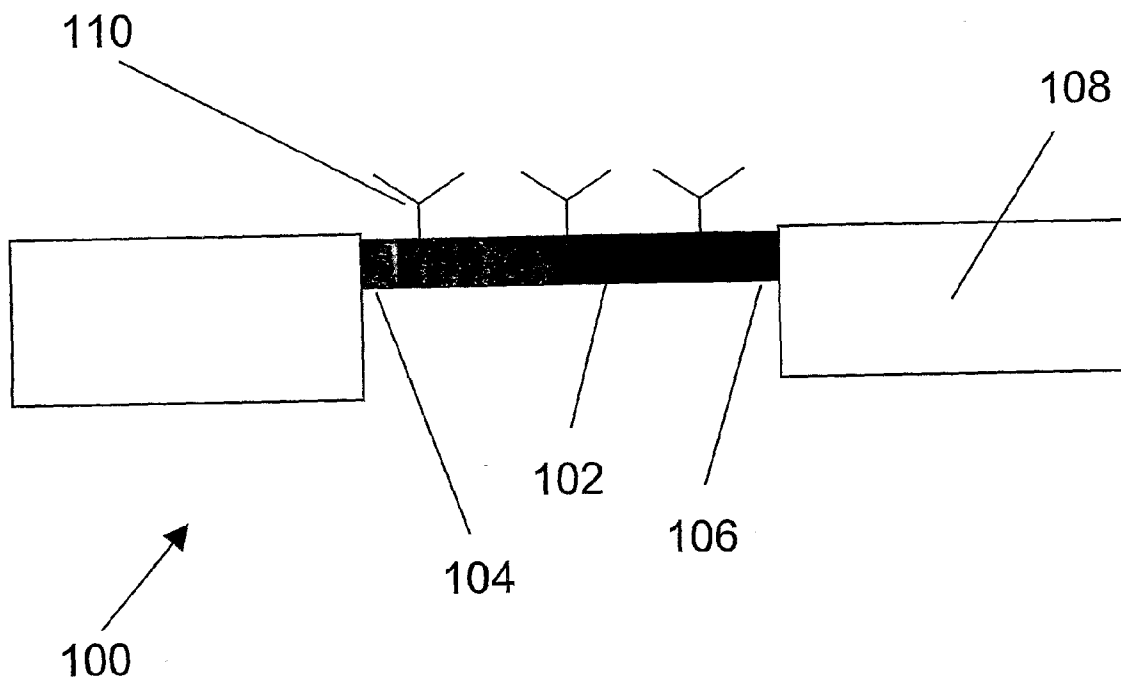
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[Continued on next page]

(54) Title: MICRODEVICES FOR CHEMICAL SENSING AND CHEMICAL ACTUATION



(57) Abstract: The invention relates to sensors for detecting chemical and biological material and for chemical actuation. In particular, the sensors of the present invention incorporates membranes or beams that are deformable in the presence of chemical adsorption on its surface. The sensor of the present invention contains a polymeric membrane or beam (102) that is clamped at least at two opposing ends (104) and (106).

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International application No.

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : Please See Continuation Sheet

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 Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,767,706 B2 (QUAKE et al) 27 July 2004 (27.07.2004), see entire document.	1-28

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

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

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Continuation of B. FIELDS SEARCHED Item 1:
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