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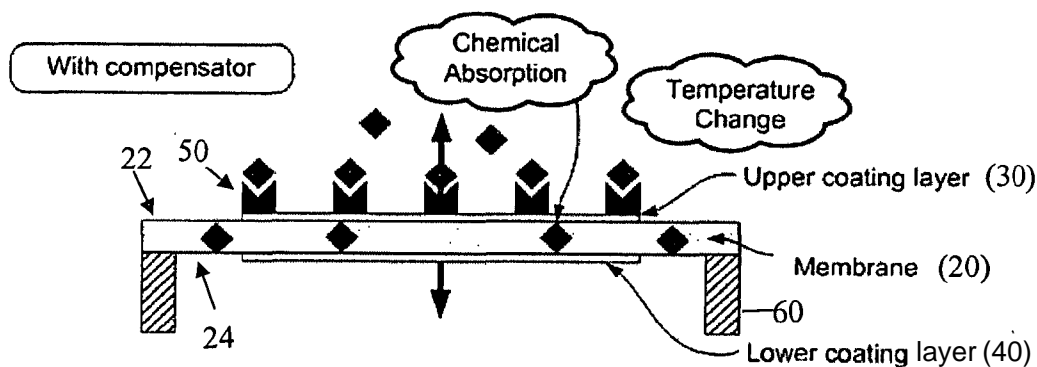


FIG. 3

(57) Abstract: A sensor having a membrane, which is adapted to deflect in response to a change in surface stress. The membrane has a first and a second surface, which includes a first coating layer on the first surface of the membrane, and a second coating layer on the second surface of the membrane. The first coating layer is adapted to couple one or more probe molecules with the membrane.

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## INTERNATIONAL SEARCH REPORT

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<b>A CLASSIFICATION OF SUBJECT MATTER</b> IPC(8) - G01 L 7/00; G01 L 7/08 (2008.04) USPC - 73/715 According to International Patent Classification (IPC) or to both national classification and IPC																	
<b>B FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) USPC - 73/715 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 73/715 \$ Search Terms Below Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (USPT, PGPB, EPAB, JPAB), google com Search Terms Used membrane, sensor, platinum, gold, aluminum, wet, etching, etch, HF, acetone, parylene, hydrofluoric acid, molecules, monomers, probe, probes, photoresist, quartz, sputter, sputtering, sputtered																	
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