

13

selected from the group consisting of metals, alloys and reduced metal oxides, said granules having such a loading of said strongly conductive material that said granules themselves have a first level of electrical conductance when quiescent and a second level of conductance upon change of mechanical or electrical stress applied to said granules,
b) means for access of a mobile fluid containing the chemical to be sensed to the head, and

14

c) means to connect the electrodes into an electrical circuit effective to detect a variation in conductance of said resistor.

28. A sensor according to claim 27 in which the contacting head includes stressing means to bring the variable resistor to the level of conductance appropriate to the required sensitivity of the sensor.

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