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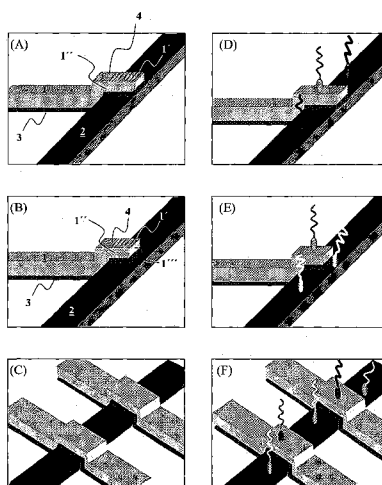


FIG. 1

(57) Abstract: The present invention is directed to a sensor for detecting a nucleic acid molecule comprising an electrode arrangement with two electrodes and nucleic acid probes immobilized at the surface of the electrodes. The present invention also refers to a kit and a method of using the sensor or a sensor array. The present invention is further directed to a process of manufacturing a sensor and sensor array.