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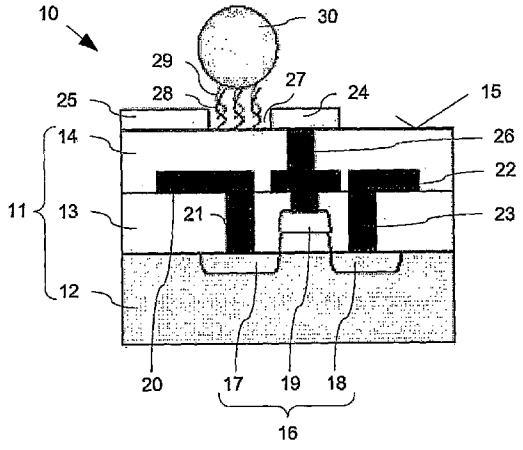
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(54) Title: BIOSENSOR CELL AND BIOSENSOR ARRAY



(57) Abstract: A biosensor cell (10) and biosensor array comprising a plurality of biosensor cells (10), each biosensor cell (10) comprising a sensing zone. The first sensing electrode (24), a second sensing electrode (25) and the gap (27) separating the sensing electrodes (24,25) are arranged within the sensing zone. The first sensing electrode (24) is electrically insulated from the second sensing electrode (25) by means of the gap (27). Capture molecules (28) are immobilised in the sensing zone; and a field effect transistor (16) having a gate electrode (19), a source electrode (17) and a drain electrode (18); the first sensing electrode (24) being electrically connected to the gate electrode (19) of the field effect transistor (16); and the second sensing electrode (25) being electrically connectable to a gate voltage. The invention also provides a method of detecting a target molecule such as a biomolecule.

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