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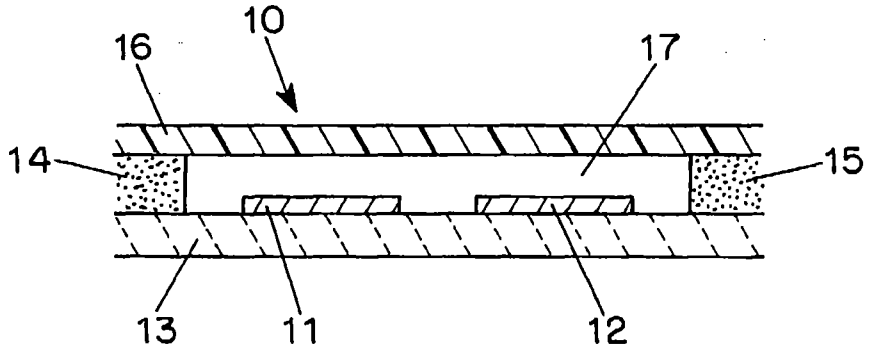
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(54) Title: RAPID RESPONSE GLUCOSE SENSOR



(57) Abstract: A disposable electrochemical sensor for the detection of an analyte such as glucose in a liquid sample is formed with a working electrode and a reference electrode disposed within a sample-receiving cavity, and a reagent layer disposed within the sample-receiving cavity and over the working electrode. The reagent layer contains at least an enzyme for producing an electrochemical signal in the presence of the analyte. The sample-receiving cavity has a volume of less than 1.5 µl, and such that the sensor provides a measurement which correlates with the amount of analyte in a period of 10 seconds or less. The sensor is used in combination with a meter for detection of the analyte in a liquid sample. A suitable meter has a timing circuit for controlling the measurement of current indicative of analyte in the sample following detection of sample application to a test strip inserted in the meter. This timing circuit causes the measurement of current to occur at a time 15 seconds or less after the detection of sample application.

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