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(54) Title: PHOTONIC SIGNAL REPORTING OF ELECTROCHEMICAL EVENTS

(57) Abstract: According to one embodiment of the invention, a method for detecting the presence or amount of an analyte includes associating a first electrolyte solution containing the analyte with a first region of a bipolar electrode, associating a second electrolyte solution containing an electrochemiluminescent system with a second region of the bipolar electrode, ionically isolating the first electrolyte solution from the second electrolyte solution, causing a potential difference between the first and second electrolyte solutions, and detecting light emitted from the electrochemiluminescent system, thereby indicating the presence or amount of the analyte at the first region of the bipolar electrode.



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