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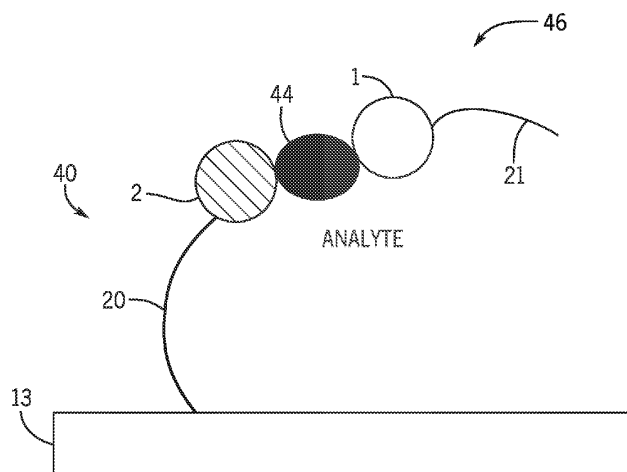


FIG. 2

(57) Abstract: Provided herein are structures and methods for detecting one or more analyte molecules present in a sample. In some embodiments, the one or more analyte molecules are detected using one or more supramolecular structures. In some embodiments, the supramolecular structures facilitate binding of a single detector molecule. In some embodiments, the stable state supramolecular structures are configured to provide a signal for analyte molecule detection and quantification. In some embodiments, the signal correlates to a DNA signal, such that detection and quantification of an analyte molecule comprises converting the presence of the analyte molecule into a DNA signal.

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