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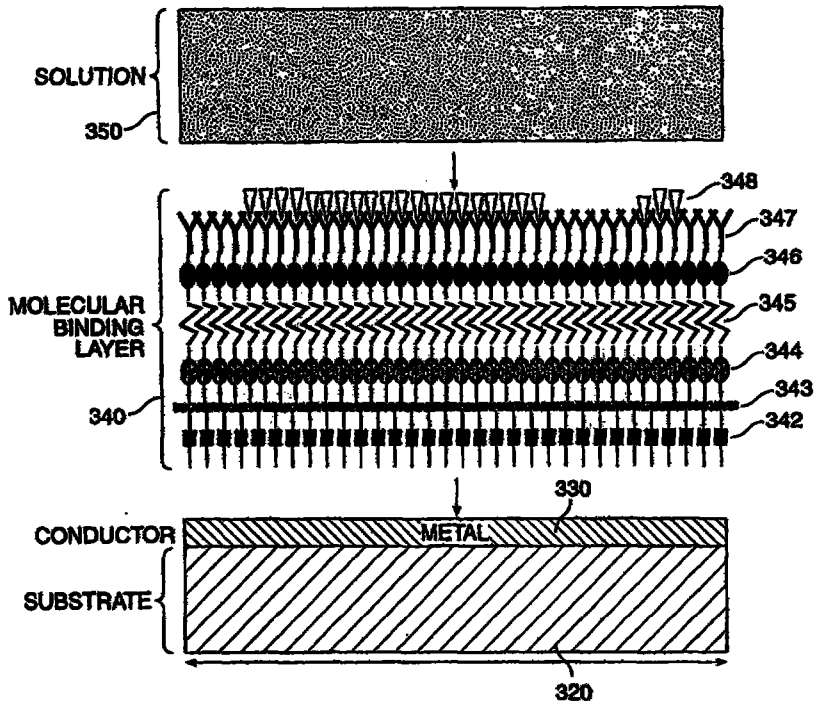
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(54) Title: METHOD AND APPARATUS FOR DETECTING MOLECULAR BINDING EVENTS



(57) Abstract

Systems and methods for detecting molecular binding events and other environmental effects using the unique dielectric properties of the bound molecular structure or structures are presented. A molecular binding layer is coupled along the surface of a signal path. A test signal is propagated along the signal path, whereby the test signal couples to the molecular binding layer, and in response, exhibits a signal response.