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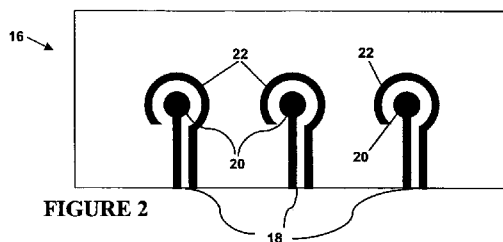


FIGURE 2

(57) Abstract: There is presently provided a device for detecting an analyte particle in a sample. The device comprises a chamber having an interior surface upon which is located an electrode array. The electrode array comprises pairs of electrodes, each pair having an inner electrode and an outer electrode that substantially surrounds the inner electrode. Each pair of electrodes is coated with a capture molecule that recognises and binds the analyte particle that is to be identified and quantified. The device uses a combination of dielectrophoresis and impedance measurements to capture and measure analyte particles from a sample.

