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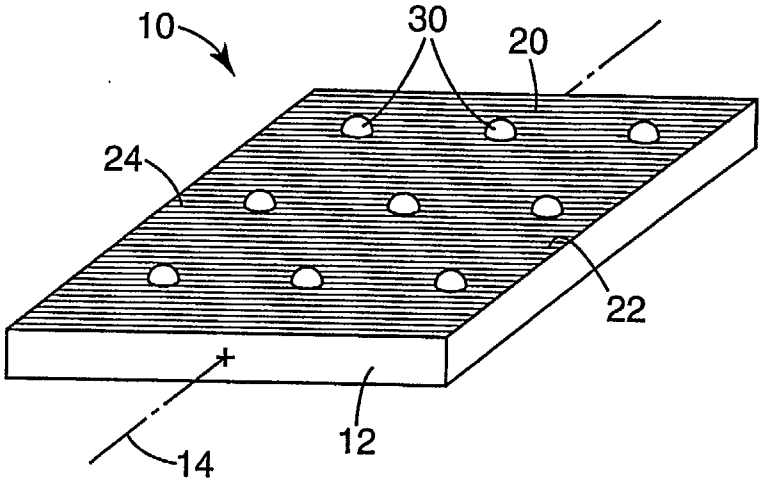
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(54) Title: DEVICES, METHODS AND SYSTEMS FOR LOW VOLUME MICROARRAY PROCESSING



(57) Abstract: Devices (10), methods and systems for low volume microarray processing are disclosed. The microarray devices (10) preferably include a reactant surface (20) with a plurality of reactant sites (30) including capture reactants for one or more selected to be in a sample by an electromagnetic signal, fluorescence. Mixing and/or distribution of the sample over the reactant surface (20) is accomplished by titling the reactant surface (20) about an axis (14) such that the sample flows over the reactant surface (20) under the force of gravity until a portion of the sample accumulates in a bead along a first edge (22). The reactant surface (20) is again tilted such that the analyte sample flows over the reactant surface (20) and accumulates at a second edge (24). The reactant surface (20) preferably generates sufficient capillary forces with the sample such that the sample is retained on the reactant surface (20).

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