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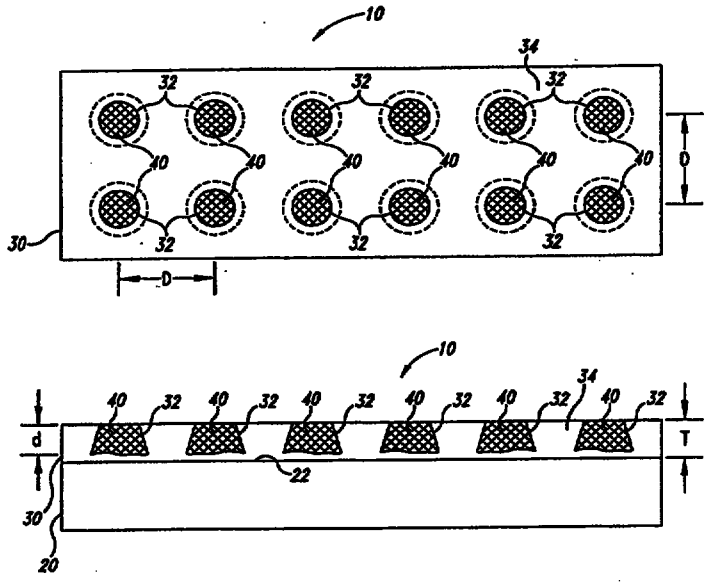
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(54) Title: POLYETHYLENIMINE-BASED BIOMOLECULE ARRAYS



(57) Abstract

An array of biomolecules is formed from a solid substrate comprising a surface, where said surface is at least partially covered with a layer of poly(ethylenimine) (PEI), and the layer is divided among a plurality of discrete first regions abutted and surrounded by a contiguous second region. The first regions are defined by the presence of a biomolecule and PEI. The second region is defined by the presence of PEI and the substantial absence of the biomolecule. The array may be prepared by a process including the steps of providing a solid substrate having a surface, wherein a lyer of poly(ethylenimine) (PEI) covers at least a portion of the surface. The layer contains a plurality of discrete first regions abutted and surrounded by a contiguous second region. The process includes the step of depositing a biomolecule into the first regions while maintaining the second region substantially free of the biomolecule.