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(54) Title: FLOW CELL WITH ONE OR MORE BARRIER FEATURES

(57) Abstract: An apparatus includes a flow cell body, a plurality of electrodes, an imaging assembly, and one or more barrier features. The flow cell body defines one or more flow channels and a plurality of wells defined as recesses in the floor of each flow channel. Each well is fluidically coupled with the corresponding flow channel. The flow cell body further defines interstitial surfaces between adjacent wells. Each well defines a corresponding depth. Each electrode is positioned in a corresponding well of the plurality of wells. The electrodes are to effect writing of polynucleotides in the wells. The imaging assembly is to capture images of polynucleotides written in the wells. The one or more barrier features are positioned in the wells, between the wells, or above the wells. The one or more barrier features contain reactions in each well, reduce diffusion between the wells, or reduce optical cross-talk between the wells.