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(54) Title: FLOW CELLS WITH SWELLABLE RESIN

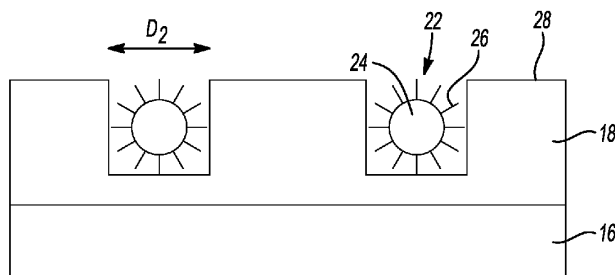


Fig-2B

(57) Abstract: An example of a flow cell includes a base support, a reversibly swellable resin positioned over the base support, and a depression defined in the reversibly swellable resin. The reversibly swellable resin includes at least one hydrophilic monomer selected from the group consisting of a poly(ethylene glycol) based monomer, poly(propylene glycol) based monomer, and combinations thereof. The depression has a first opening dimension when the reversibly swellable resin is in a non-swelled state and has a second opening dimension, that is smaller than the first opening dimension, when the reversibly swellable resin is in a swelled state.

