

Separation and Counting of Single Molecules through Nanofluidics, Programmable Electrophoresis, and Nanoelectrode-Gated Molecular Detection

Disclosure Number

200101018

Technology Summary

A method for separating, detecting and counting single molecules is described. The detectable species include, but are not limited to, ions, nucleic acids, proteins, and charged particles and molecules. The invention utilizes some of the technology described in two recent invention disclosures; in particular, ID 0943 entitled "DNA and RNA Sequencing by Nanoscale Reading through Programmable Electrophoresis and Nanoelectrode-Gated Tunneling and Dielectric Detection"

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