

Dielectric Spectrometers with Planar Nanofluidic Channels

Description

This technology features an improved method for fabricating nanofluidic channels on a silicon substrate. This method is used to develop nanofluidic channels having a height of about 1 nm to 10 nm. Additionally, a method for dielectric spectroscopy measurements using the above nanofluidic channels has been developed.

Applications:

- Sensing, characterization and analysis tools for a variety of fundamental scientific and engineering investigations, particularly in the biomedical field
- Planar nanofluidic channels
- DNA sequencing

Benefits:

- Novel, yet simple, technique to fabricate 1-10 nm planar channels

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Protection Status: A patent application has been filed.
Licensing Status: This technology is available for licensing.
Additional Terms: Dielectric, Spectrometers, Sensor, Analysis, Nanofluidic, Nanotechnology
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