

ABSTRACT**FABRICATION OF NANOPORES USING HIGH ELECTRIC FIELDS**

A method is provided for fabricating a nanopore in a membrane. The method includes: applying an electric potential across the membrane, where value of the electric potential is selected to induce an electric field which causes a leakage current across the membrane; monitoring current flow across the membrane while the electric potential is being applied; detecting an abrupt increase in the leakage current across the membrane; and removing the electric potential across the membrane in response to detecting the abrupt increase in the leakage current.

[Figure 4A]