

**TITLE OF INVENTION: [BIOLOGICAL ANGSTROM PORE SYSTEM BASED
ON MECHANOSENSITIVE CHANNEL OF SMALL CONDUCTANCE]**

ABSTRACT

A biological angstrom pore system based on mechanosensitive channel of small conductance and use of an angstrom pore system in detecting a charged molecule, relate to the field of nanopore detection. The angstrom pore system comprises an Mscs angstrom pore, an insulating membrane, a first medium, and a second medium. The pore size of the MscS angstrom pore can be reversibly adjusted in situ by changing external conditions, suitable for direct detection of various types and sizes of molecules, such as nucleotides, amino acids, peptides, and drug molecules.

[Fig. 1]