

Title (en)  
CHARGE-SWITCH NUCLEOTIDES

Title (de)  
LADUNGSWECHSEL-NUKLEOTIDE

Title (fr)  
NUCLEOTIDES A COMMUTATION DE CHARGES

Publication  
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Application  
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Abstract (en)  
[origin: WO0194609A1] The present invention provides compounds, methods and systems for sequencing nucleic acid using single molecule detection. Using labeled NPs that exhibit charge-switching behavior, single-molecule DNA sequencing in a microchannel sorting system is realized. In operation, sequencing products are detected enabling real-time sequencing as successive detectable moieties flow through a detection channel. By electrically sorting charged molecules, the cleaved product molecules are detected in isolation without interference from unincorporated NPs and without illuminating the polymerase-DNA complex.

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IPC 8 full level  
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