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**Bashkirov et al.**

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(54) **METHOD FOR LABEL-FREE SINGLE-MOLECULE DNA SEQUENCING AND DEVICE FOR IMPLEMENTING SAME**

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None  
See application file for complete search history.

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(57) **ABSTRACT**

A method and a device for determining a nucleotide sequence are proposed. The method comprises immobilising looped fragments of a nucleic acid and a polymerase on a sensor surface and adding a mixture of unlabelled nucleotides onto the sensor surface. Moreover, in the mixture added, one nucleotide type is present at a much lower concentration compared to the other nucleotides. Time intervals between each of the charge separation events are

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