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(54) Title: POLYNUCLEOTIDE SEQUENCING METHOD

(57) Abstract: A method for determining the sequence of a polynucleotide comprising the steps of (i) contacting a polynucleotide processive enzyme immobilised in a fixed position, with a target polynucleotide under conditions sufficient to induce enzyme activity; (ii) detecting an effect consequent on the interaction of the enzyme and the polynucleotide, wherein the effect is detected by measurement of a non-linear optical signal or a linear signal coupled to a non-linear signal.