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(54) Title: SYSTEMS AND METHODS OF SEQUENCING POLYNUCLEOTIDES

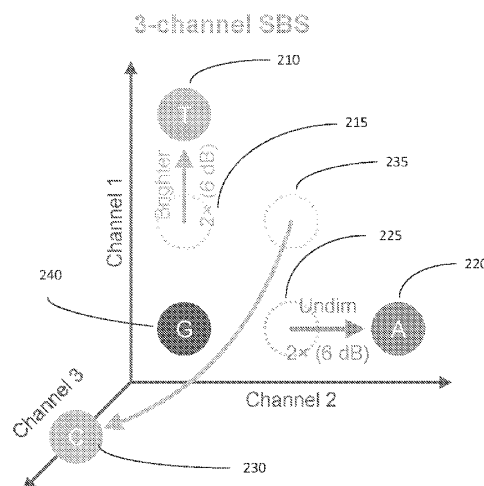


FIG. 2

(57) Abstract: The application relates to DNA sequencing systems and methods. Systems and methods for determining the nucleotide sequence of a polynucleotide include attaching three different fluorescent dyes to three different nucleotides during incorporation. In particular, long Stokes shifted dyes may be used to determine the sequence of polynucleotides in a sequencing by synthesis system.

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