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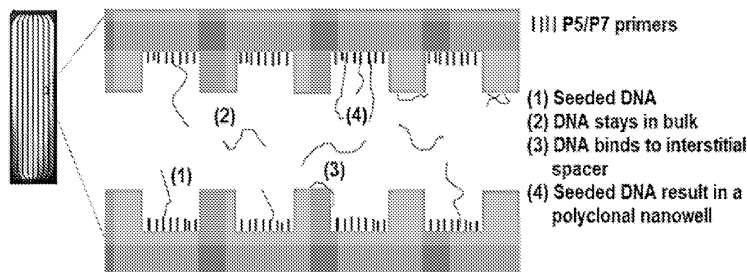


FIG. 1

(57) Abstract: The disclosure provides methods to calibrate polynucleotide seeding efficiency in flow cells.