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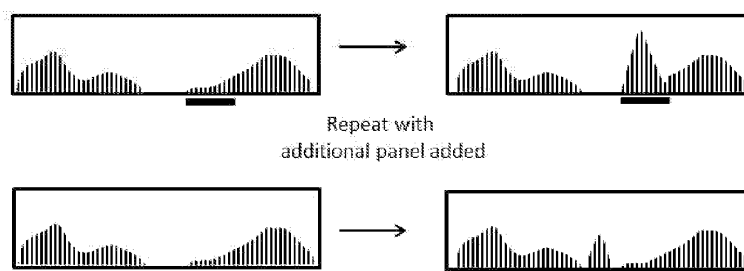


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(54) **Title:** POLYNUCLEOTIDES, REAGENTS, AND METHODS FOR NUCLEIC ACID HYBRIDIZATION

FIG. 1A



(57) **Abstract:** Provided herein are compositions, methods and systems relating to libraries of polynucleotides such that the libraries allow for accurate and efficient hybridization after binding to target sequences. Further provided herein are probes, blockers, additives, buffers, and methods that result in improved hybridization. Such compositions and methods are useful for improvement of Next Generation Sequencing applications, such as reducing off-target binding or reducing workflow times.

[Continued on next page]

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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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