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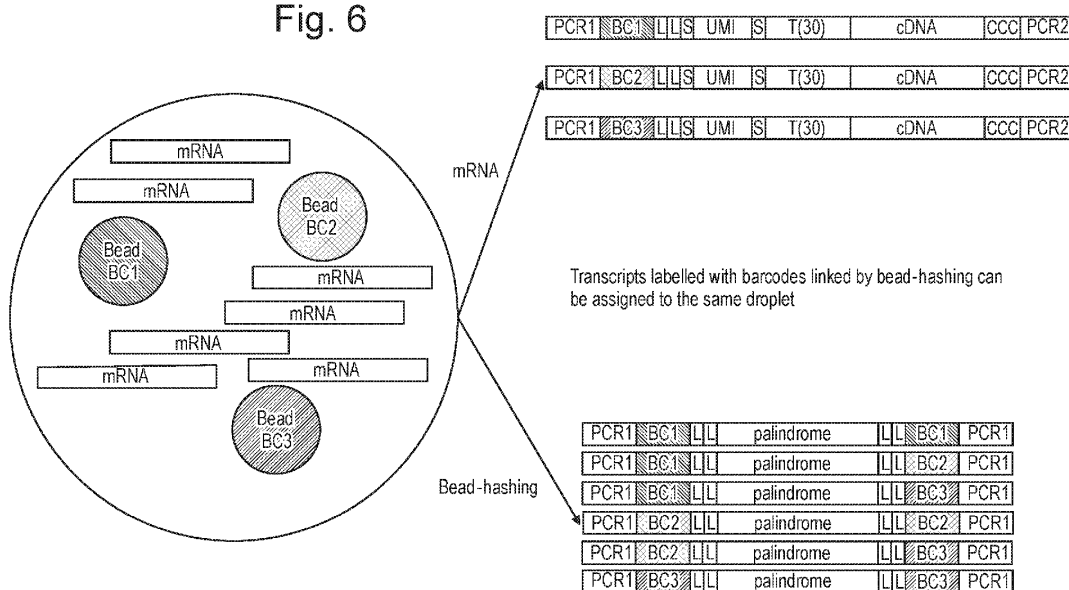
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(54) Title: BEAD-HASHING

Fig. 6



(57) Abstract: The invention relates to means and methods for producing libraries of analytes, such as polynucleotides, from a plurality of samples, such as single cells. The invention uses micro-particles that include both barcoded analyte capture polynucleotides and barcoded polynucleotides having a hairpin sequence. The micro-particles are divided between compartments together with sample. During library production, the hairpin sequences dimerise to produce polynucleotides comprising two barcode sequences. The dimers provide information about how many micro-particles were co-compartmentalised and with which sample analytes. This bead hashing method allows for increased loading of micro-particles into compartments with sample leading to increased throughput, greater efficiency and reduced loss of sample from analysis.

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