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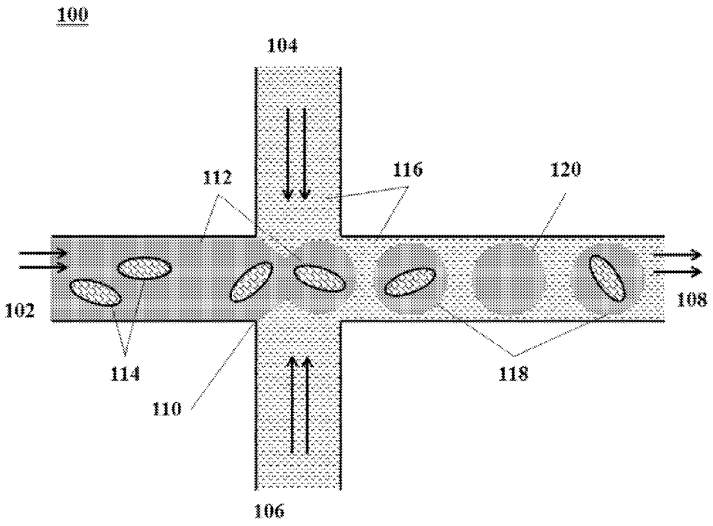


FIG. 1

(57) Abstract: Disclosed herein, are compositions, methods, and kits comprising engineered reverse transcription enzymes that exhibit several desired properties such as thermal stability, processive reverse transcription, non-templated base addition, and template switching ability. The engineered reverse transcription enzymes described herein demonstrate unexpectedly higher resistance to cell lysate inhibition, greater ability to capture full-length mRNA transcripts, and demonstrate improved results in small reaction volumes as compared to other engineered reverse transcription enzymes.

WO 2018/200867 A1

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