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(54) Title: IN VITRO DETECTION OF NUCLEIC ACID

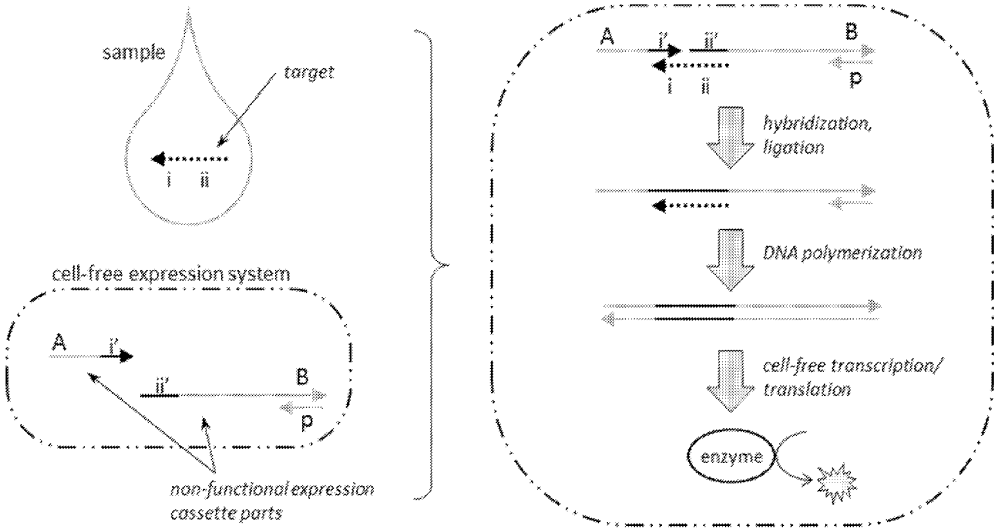


Fig. 1

(57) Abstract: Described herein are compositions and methods for in vitro detection of nucleic acids. Nucleic acid sensors are activated for cell-free expression of an encoded reporter protein based on the presence of a target nucleic acid. The system is designed to function in low-cost cell extract without the need for instrumentation or stringent temperature control. These features are advantageous for point-of-use molecular diagnostics applications in consumer health, pet/animal health, food safety, and other areas where cost and portability are key factors.

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