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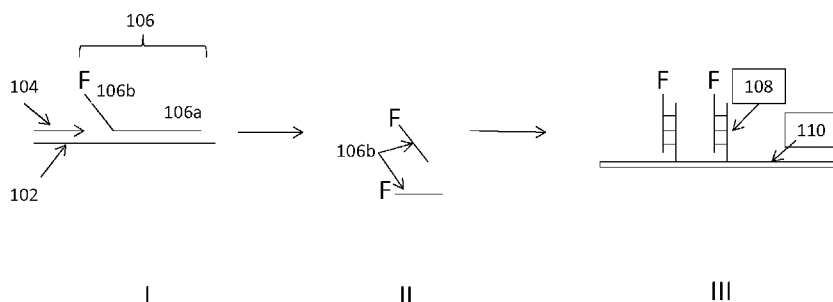


Figure 1

(57) **Abstract:** The invention provides optical instrument systems and methods for analyzing signals from biological arrays, and performing analytical amplification reactions for identifying the presence or absence of a target nucleic acid sequence in a sample to be analyzed.