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(54) Title: FLOW CELL DEVICES AND OPTICAL SYSTEMS FOR IN SITU NUCLEIC ACID SEQUENCING

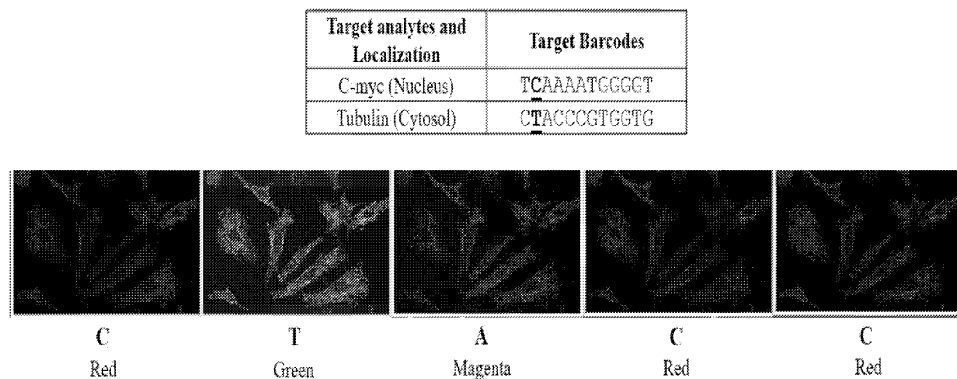


FIG. 122

(57) **Abstract:** Fluorescence imaging systems designs, flow cell devices, and methods of are described herein that enable imaging of three or more axially displaced surfaces without using any optical compensators. The optical systems and flow cell devices herein provides higher throughput analysis for genomics and other imaging applications at a lower cost.

[Continued on next page]

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