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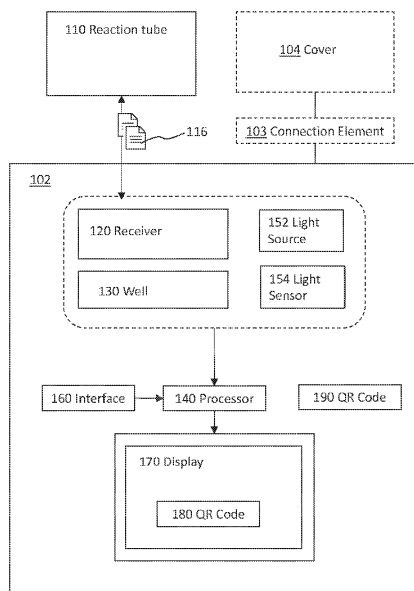


Fig. 1

(57) Abstract: Systems and methods for detecting an analyte in a sample are disclosed. A system may be operable to amplify an analyte and measure a signal associated with a quantity of the analyte, according to an embodiment. The system may be configured to display a dynamically generated barcode for communicating test results to a patient, a medical professional, or to an agency for analyzing pathogen transmission within a population. The barcode may be a dynamically generated matrix code such as QR code (e.g., a QR code presented via an LCD or other suitable display that can be customized based on, e.g., test results). The system may include a housing, which includes a well, a receiver, a light source, and a light sensor. Further, the housing may include a processor, an interface, and a display configured to display various test-related information, such as, for example, the dynamically generated barcode.