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(54) **Title:** SYSTEMS AND METHODS FOR ABNORMALITY DETECTION IN QUANTUM KEY DISTRIBUTION

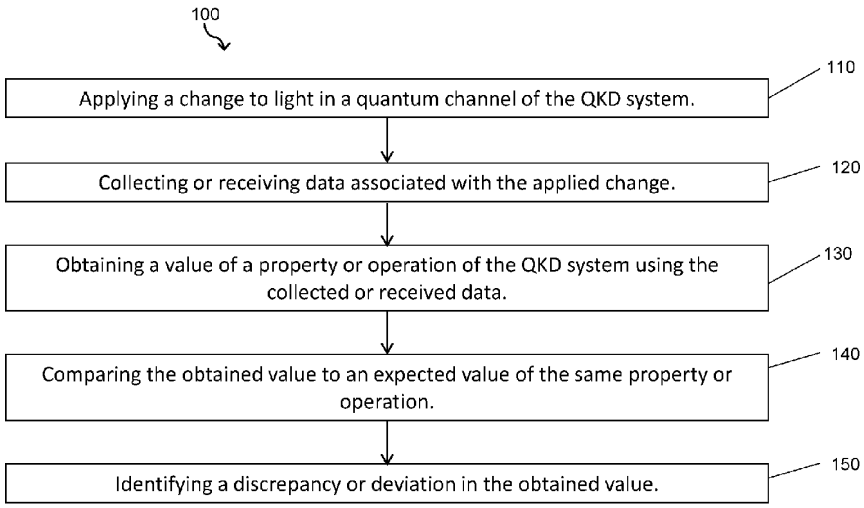


Fig. 1B

(57) **Abstract:** Devices and methods for detecting abnormality in a quantum key distribution (QKD) system are disclosed. The systems and methods may comprise applying a change to light in a quantum channel of the QKD system, wherein one or more characteristics of the change are not made known to one or more components of the QKD system before or during applying the change, collecting or receiving data associated with the applied change, obtaining a value of a property of the QKD system using the collected or received data, comparing the obtained value to an expected value of the property of the QKD system, and identifying a discrepancy or deviation in the obtained value.

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