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(54) **Title:** QUANTUM COMPUTING MACHINE LEARNING FOR SECURITY THREATS

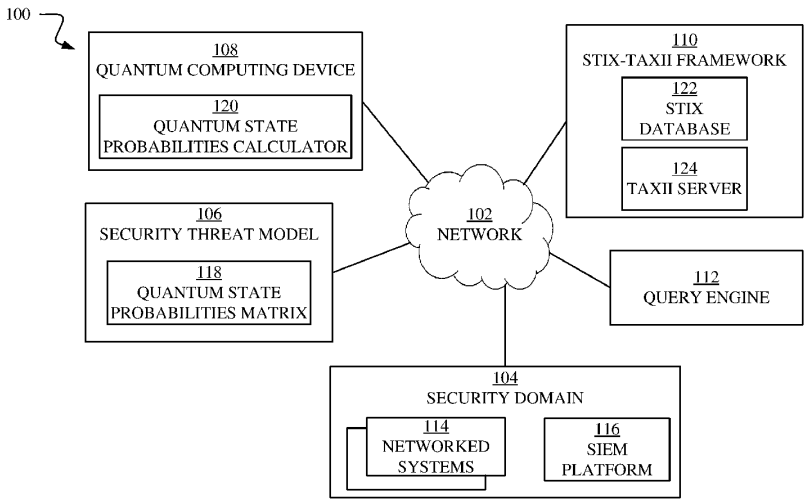


FIG. 1

(57) **Abstract:** Embodiments are disclosed for a method for a security model. The method includes generating a Bloch sphere based on a system information and event management (SIEM) of a security domain and a structured threat information expression trusted automated exchange of indicator information. The method also includes generating a quantum state probabilities matrix based on the Bloch sphere. Further, the method includes training a security threat model to perform security threat classifications based on the quantum state probabilities matrix. Additionally, the method includes performing a machine learning classification of the security domain based on the quantum state probabilities matrix.

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