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(54) Title: SYSTEM ALERT MODELING BASED ON HYPERGRAPH ALERT CLUSTERS

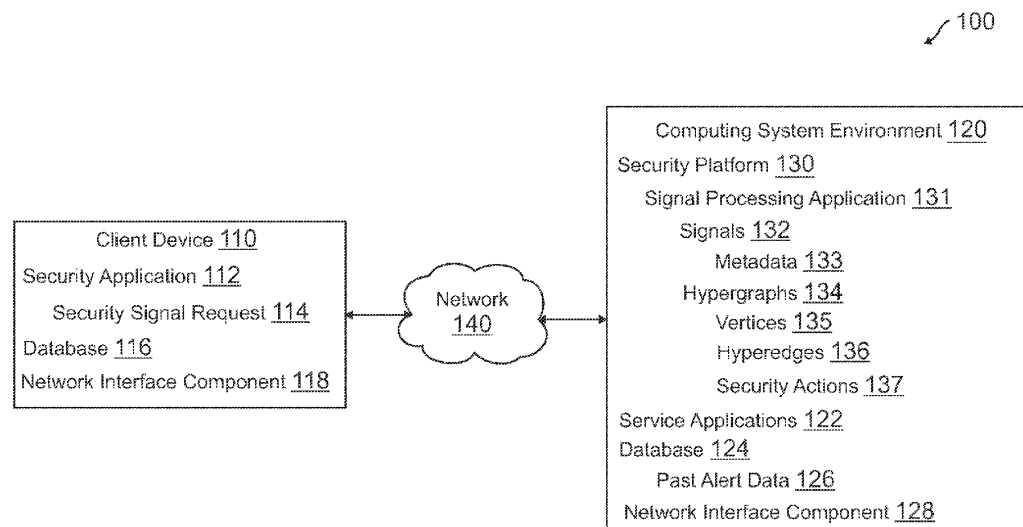


FIG. 1

(57) Abstract: There are provided systems and methods for system alert modeling based on hypergraph alert clusters. An entity, such as company or business, may utilize computing services provided by a service provider. Use of computing services provided by the service provider to different entities may generate security alerts when computing events are flagged as risky, fraudulent, malicious, computing attacks, or the like. For better security alert management, search, and alert linking, the service provider may utilize hypergraphs generated from metadata and hashes of data extracted from security alerts, such as a name, payload and the like. The service provider may model the hypergraphs using vertices and hyperedges associated with this metadata and hashes, which then allow for identifying of a threat or security alert scope, retrieval of linked security alerts during investigations, and correlation of security alerts to provide threat-focused alerts.

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