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- (54) Title: SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR GRAPH-BASED FRAUD DETECTION

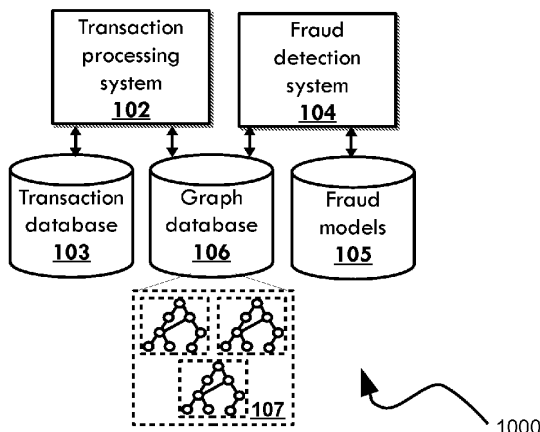


FIG. 1

- (57) Abstract: A method, system, and computer program product is provided for graph-based fraud detection. The system includes at least one processor programmed or configured to generate a graph data structure based on a plurality of transactions between a plurality of accounts, wherein each account of the plurality of accounts is represented by a node in the graph data structure, and wherein each transaction of the plurality of transactions is represented by an edge in the graph data structure, determine a plurality of features of the graph data structure for each account of the plurality of accounts, generate a graph profile for at least one account of the plurality of accounts based on the plurality of features for the at least one account, and update the graph profile for the at least one account based on at least one new transaction engaged in by the at least one account.

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