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(54) Title: ANONYMIZING PERSONAL INFORMATION FOR USE IN ASSESSING FRAUD RISK

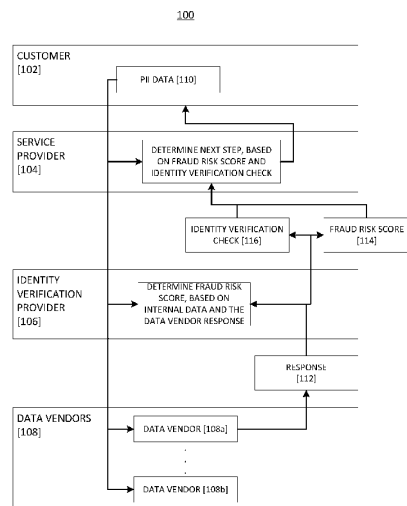


FIG. 1

(57) Abstract: Systems and methods for anonymizing personal information are provided. A set of data may be received that includes a first subset of data that corresponds to a unique identifier, a second subset of data that corresponds to a timestamp, and a third subset of data that corresponds to a personal identifiable information (PII) record. The PII record may include a plurality of fields, one or more of which may include values. The set of data may be pre-processed. A respective embedding may be generated, for each value of a respective field, of the plurality of fields, that includes a value. The pre-processed set of data may be anonymized to generate an anonymized set of data, in the form of a graph structure. The graph structure may be stored in a database, and a fraud risk model may be trained, based on the database.

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