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(54) Title: CONDUCTING PRIVATE SET INTERSECTION (PSI) TECHNIQUES WITH MULTIPLE PARTIES USING A DATA REPOSITORY

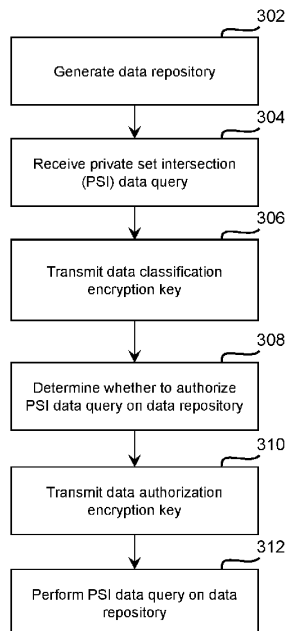


FIG. 3

(57) Abstract: Provided are systems for conducting private set intersection (PSI) techniques with multiple parties using a data repository that include at least one processor to generate a data repository, receive, from a submission entity system associated with a submission entity, a private set intersection (PSI) data query that includes a match parameter for performing the PSI data query, transmit, to the submission entity system, a data classification encryption key, wherein the data classification encryption key is associated with a data field that corresponds to a match parameter data field of the match parameter, determine whether to authorize the PSI data query on the data repository, transmit, to the submission entity system, a data authorization encryption key based on determining to authorize the PSI data query on the data repository, and perform the PSI data query on the data repository. Methods and computer program products are also provided

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