

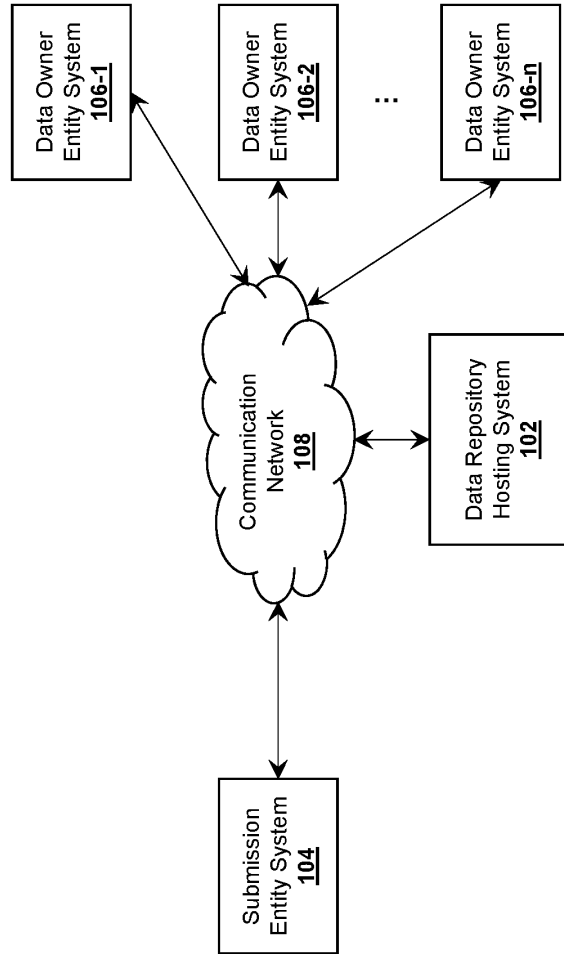
100

FIG. 1

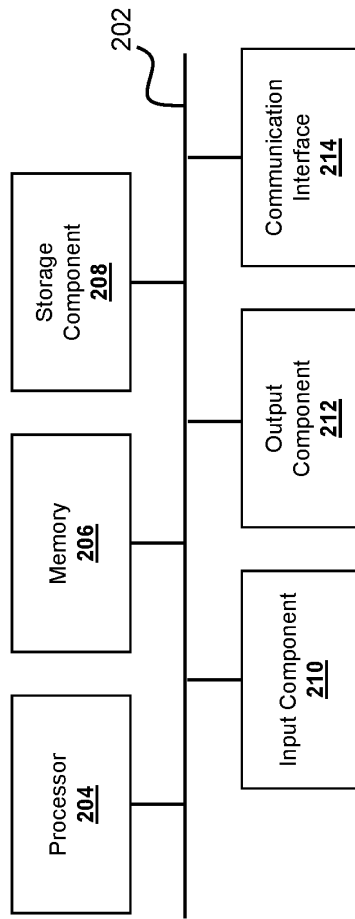


FIG. 2

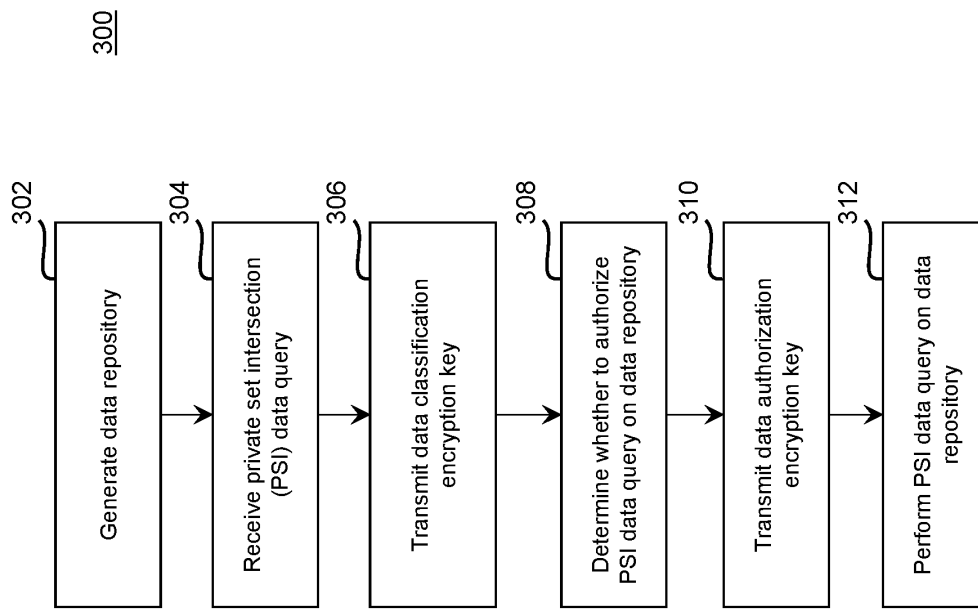


FIG. 3

400

First Transaction Data Record		Second Transaction Data Record		Third Transaction Data Record	
<u>Account Number</u>	<u>Expiration Date</u>	<u>Zip Code</u>	<u>Purchase History</u>	<u>Account Number</u>	<u>Address</u>
PAN 1	Exp. Date 1	Zip Code 1	Historical Transactions 1B	PAN 1B	Address 1B
PAN 2	Exp. Date 2	Zip Code 2	Historical Transactions 2B	PAN 2B	Address 2B
			Historical Transactions 1C	PAN 1C	Address 1C
			Historical Transactions 2C	PAN 2C	Address 2C

First Transaction Data Record

Second Transaction Data Record

Third Transaction Data Record

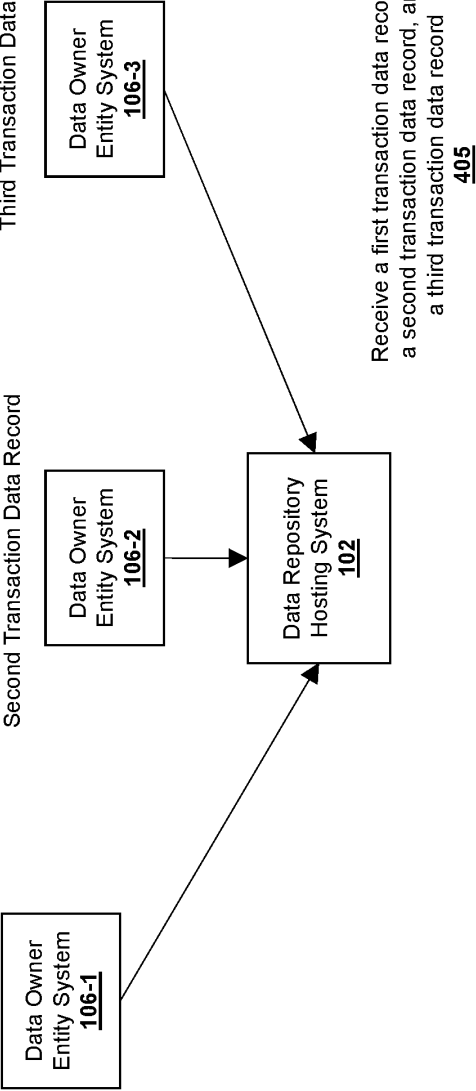


FIG. 4A

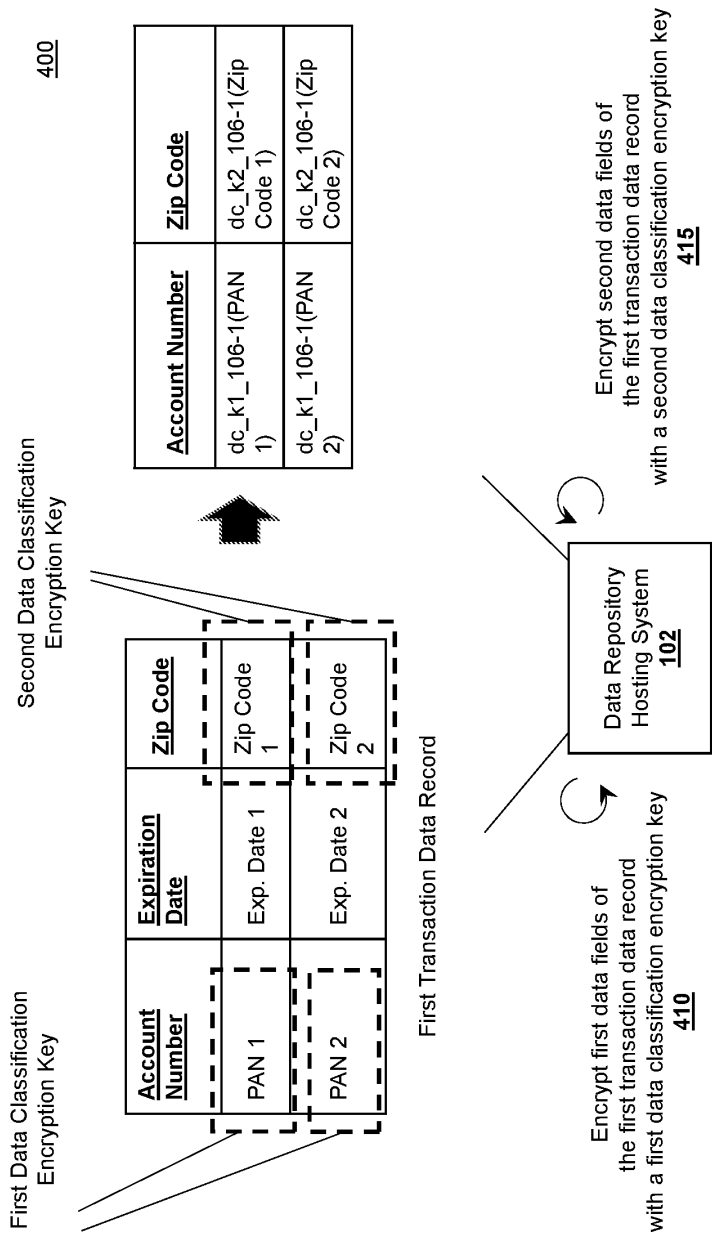


FIG. 4B

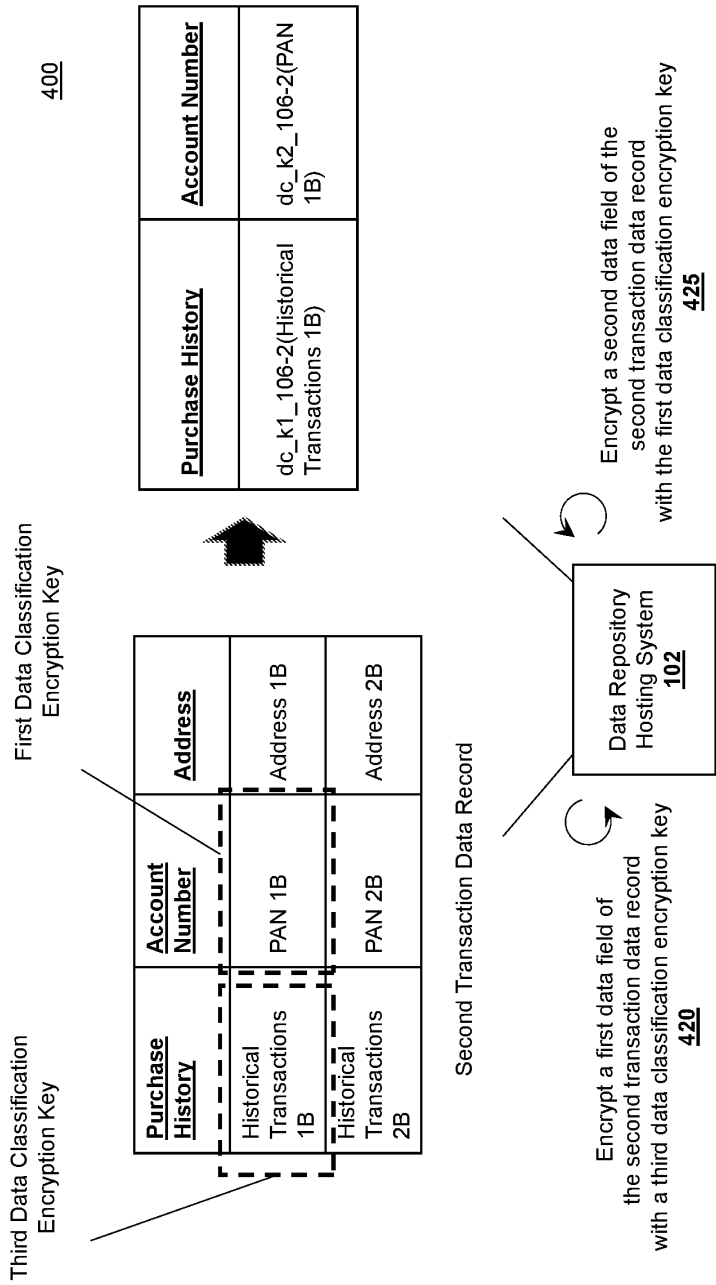


FIG. 4C

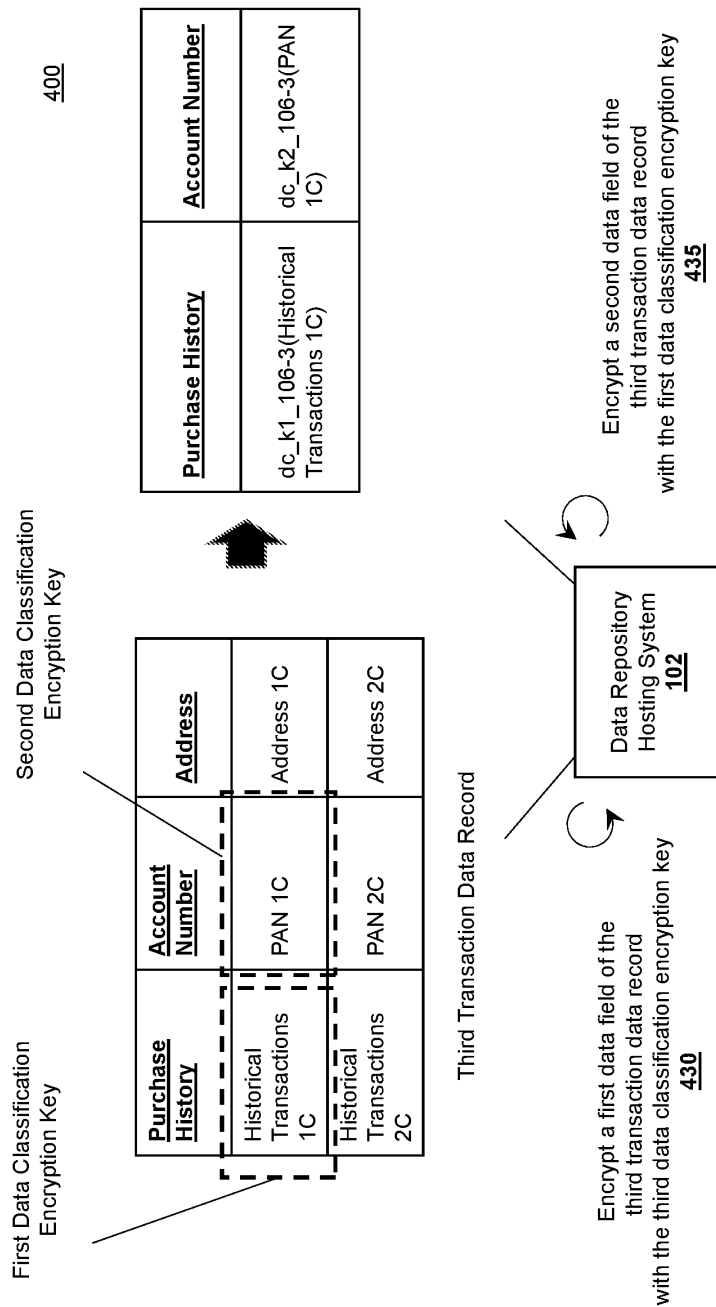


FIG. 4D

<u>Account Number</u> (Data Owner Entity System 106-1)	<u>Account Number</u>	<u>Zip Code</u>	<u>Purchase History</u>
dc_k1_106-1(PAN 1)	dc_k2_106-2(PAN 1B)	dc_k2_106-1(Zip Code 1)	dc_k1_106- 2(Historical Transactions 1B)
dc_k1_106-1(PAN 2)	dc_k2_106-3(PAN 1C)	dc_k2_106-1(Zip Code 2)	dc_k1_106- 3(Historical Transactions 1C)

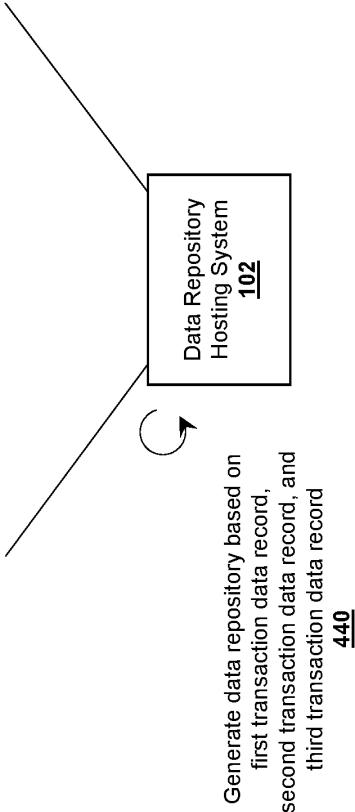


FIG. 4E

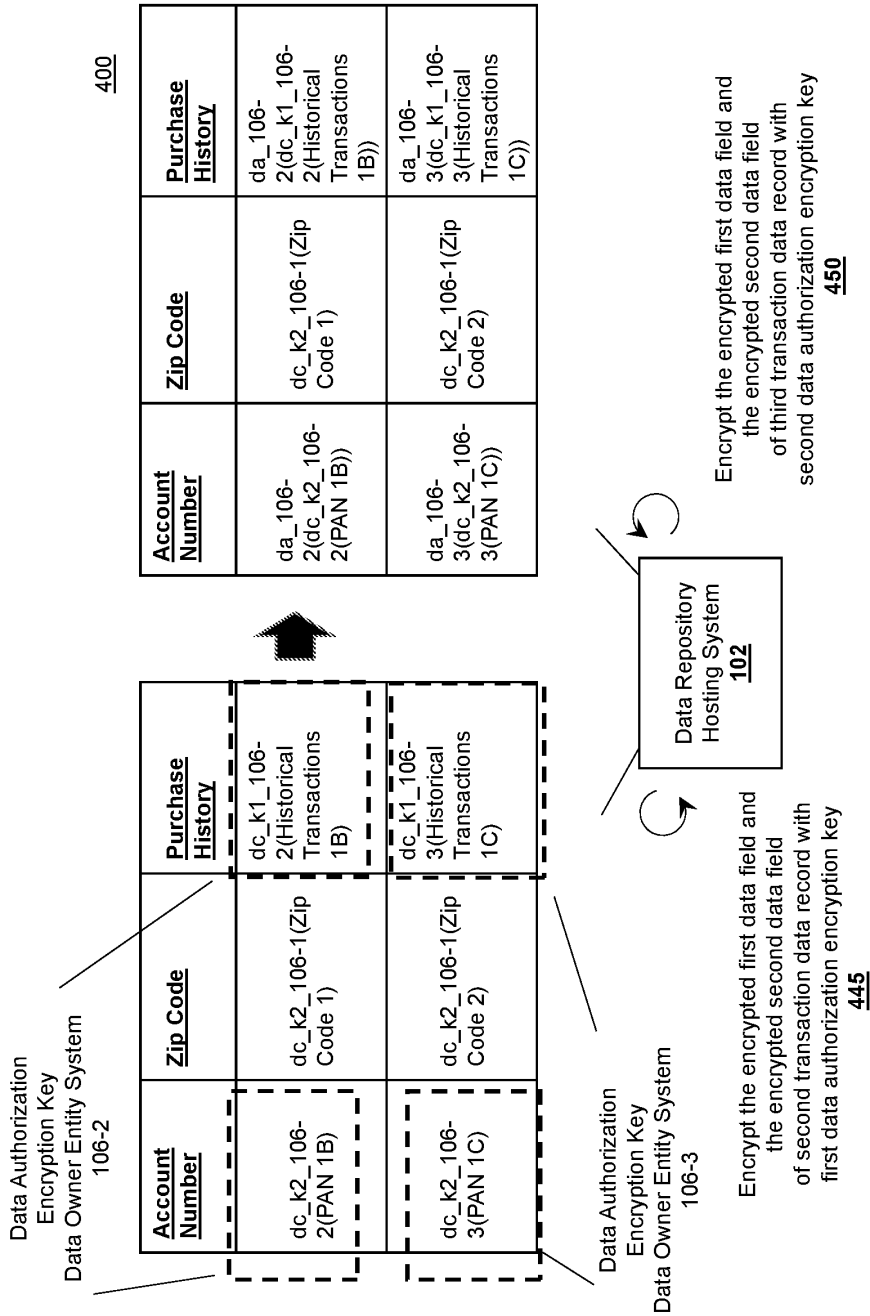
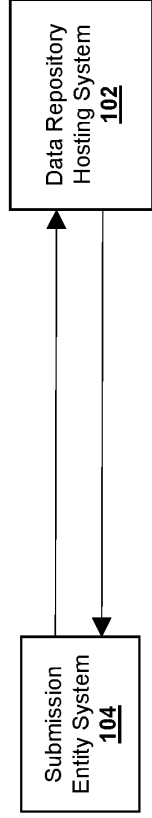


FIG. 4F

Receive a private set intersection (PSI) data query
455



Transmit data classification encryption key
for a data field that corresponds to
a data field of match parameter of PSI data query
460

FIG. 4G

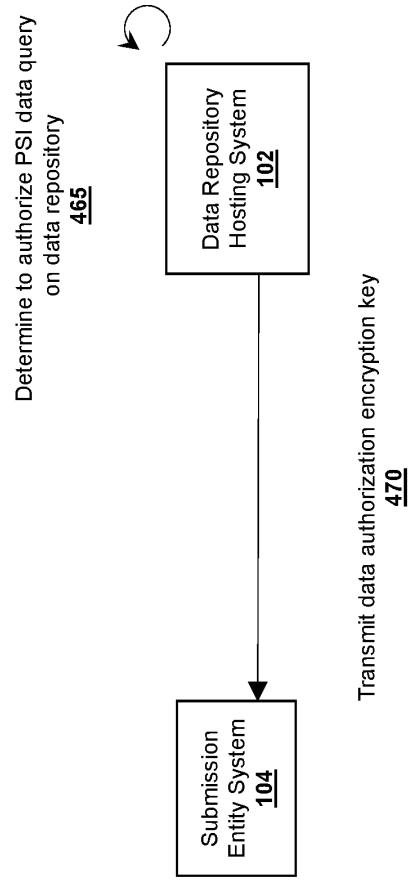


FIG. 4H

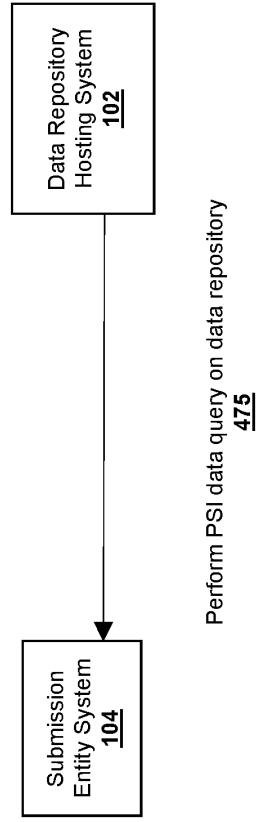


FIG. 4I