

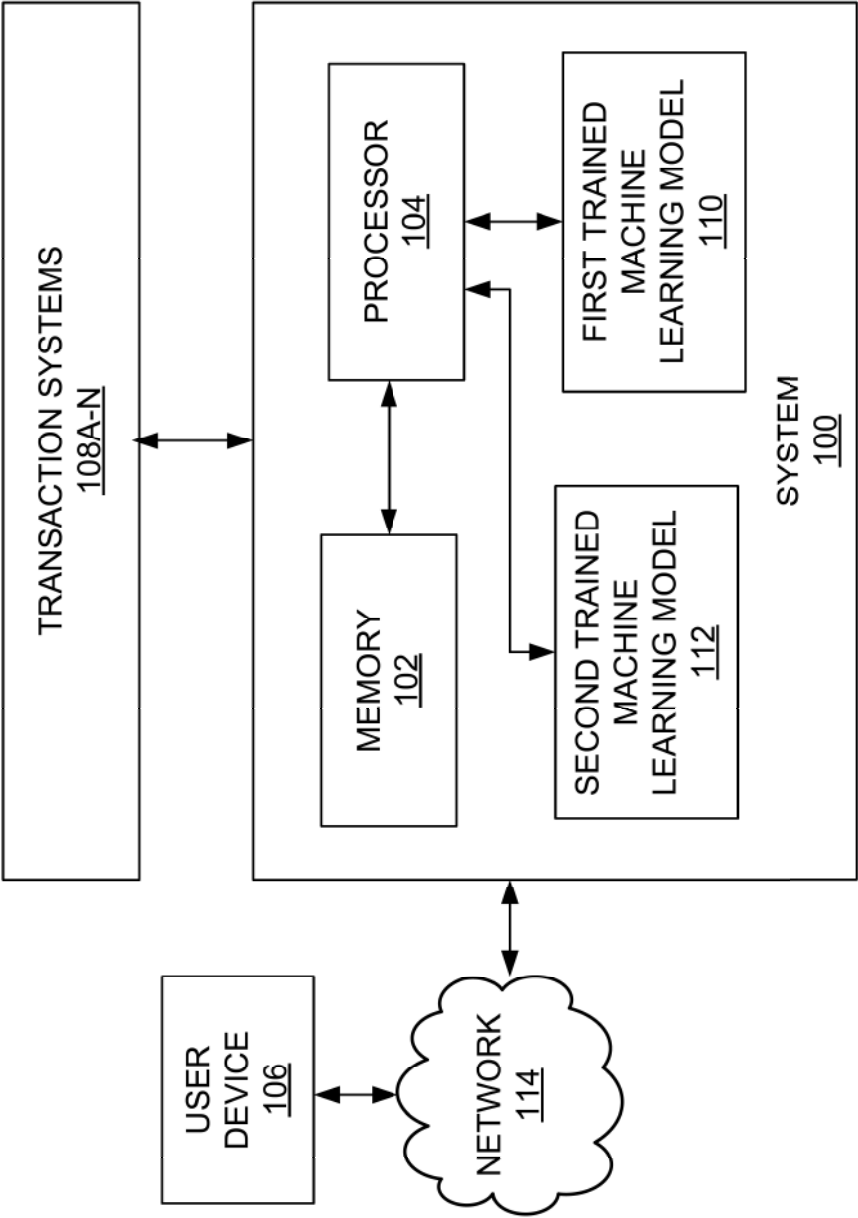


FIG. 1

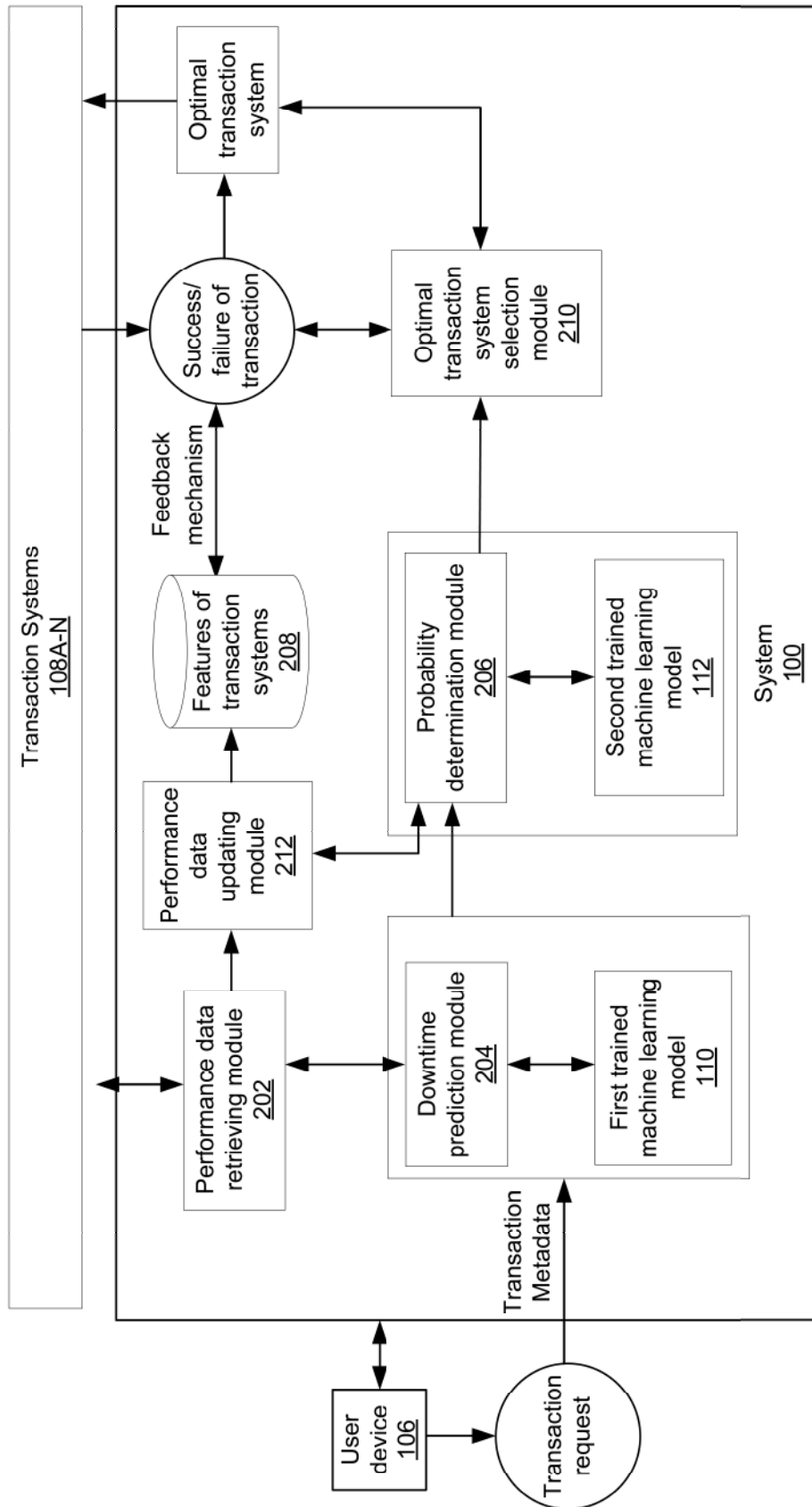


FIG. 2

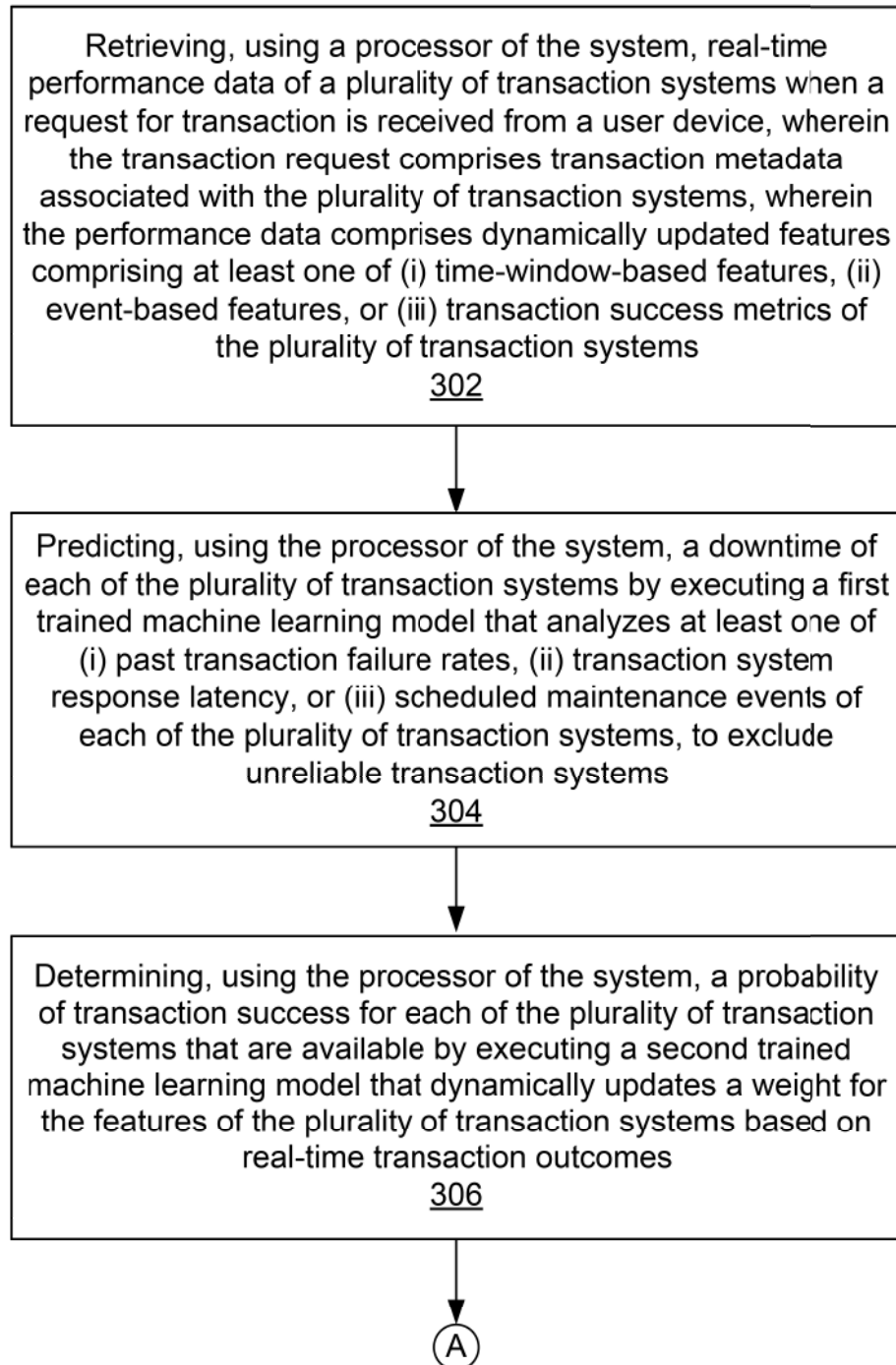


FIG. 3A



Selecting, using the processor of the system, an optimal transaction system by prioritizing the plurality of transaction systems based on the predicted transaction success probability and determining a top ranked transaction system as the optimal transaction system and enables the user to route the transaction through the selected optimal transaction system, wherein the processor continuously update the performance data of the plurality of transaction system using an adaptive feedback loop by (i) detecting transaction success or failure events in real-time; (ii) applying an adaptive decay-rate technique to refine the second machine learning model that assigns weights to the features based on recent transaction outcomes to ensure real-time system condition reflection; and (iii) dynamically modifying the second machine learning model parameters dynamically to enhance subsequent transaction success predictions

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FIG. 3B

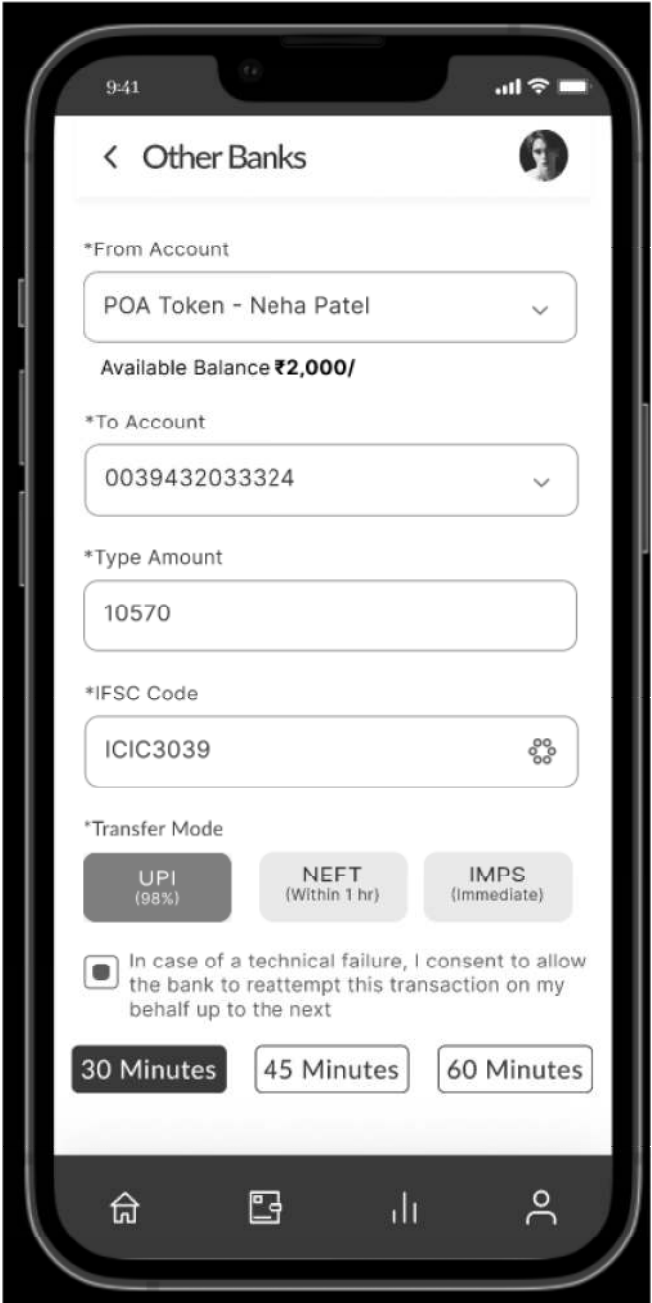


FIG. 4

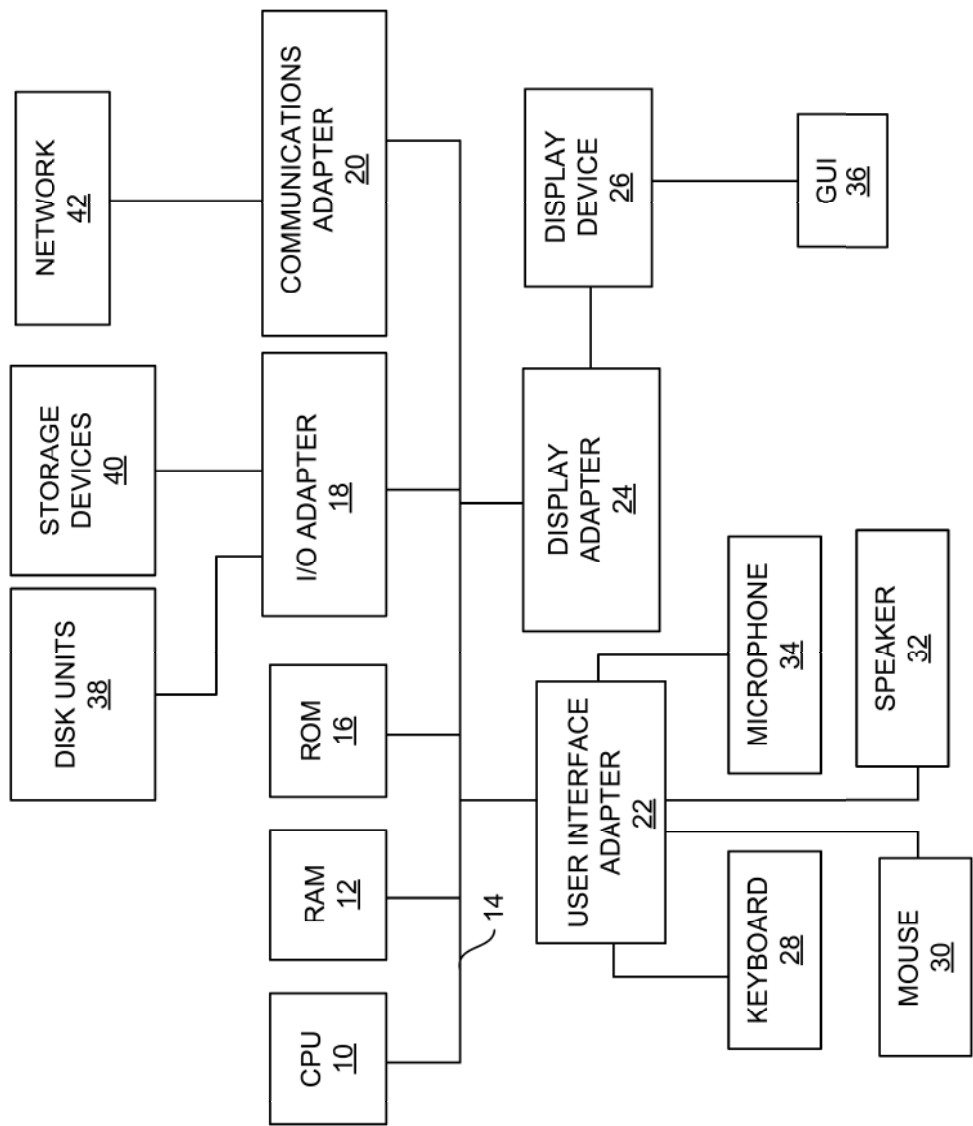


FIG. 5