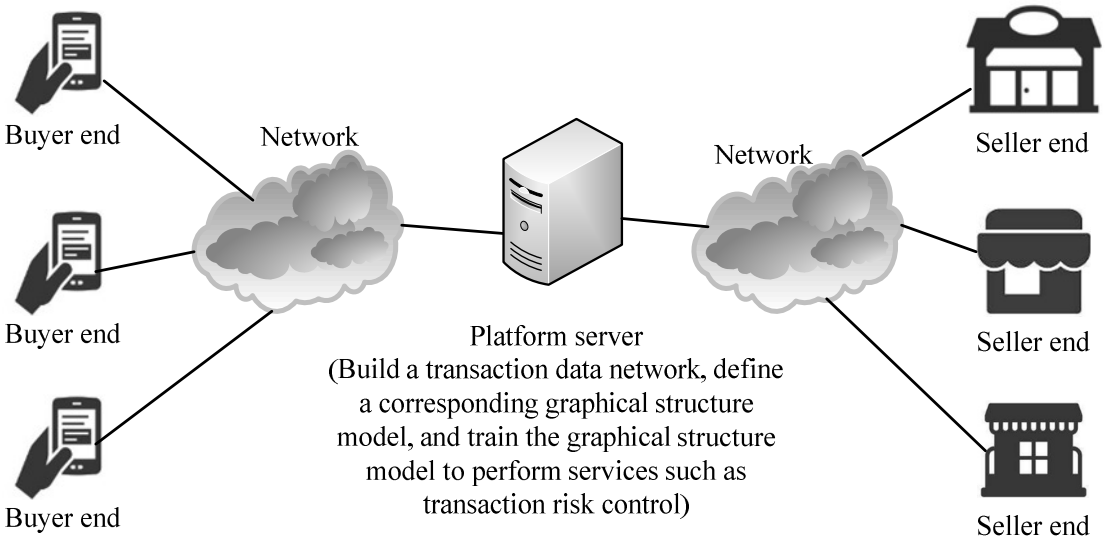

Buyer end
Buyer end
Buyer end
Network
Network
Platform server
(Build a transaction data network, define a corresponding graphical structure model, and train the graphical structure model to perform services such as transaction risk control)
Seller end
Seller end
Seller end

FIG. 1

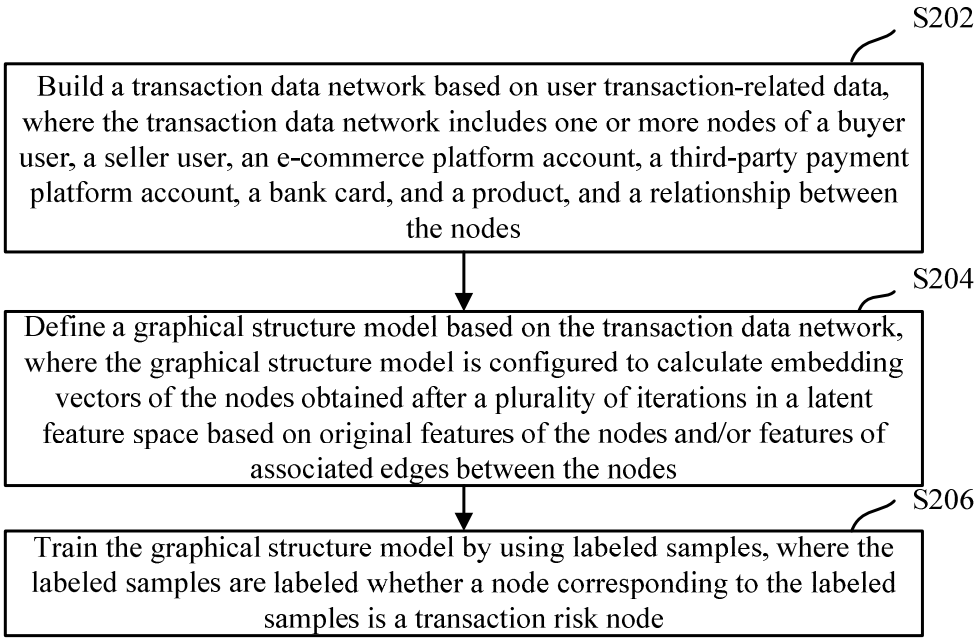

S202
Build a transaction data network based on user transaction-related data, where the transaction data network includes one or more nodes of a buyer user, a seller user, an e-commerce platform account, a third-party payment platform account, a bank card, and a product, and a relationship between the nodes
S204
Define a graphical structure model based on the transaction data network, where the graphical structure model is configured to calculate embedding vectors of the nodes obtained after a plurality of iterations in a latent feature space based on original features of the nodes and/or features of associated edges between the nodes
S206
Train the graphical structure model by using labeled samples, where the labeled samples are labeled whether a node corresponding to the labeled samples is a transaction risk node

FIG. 2

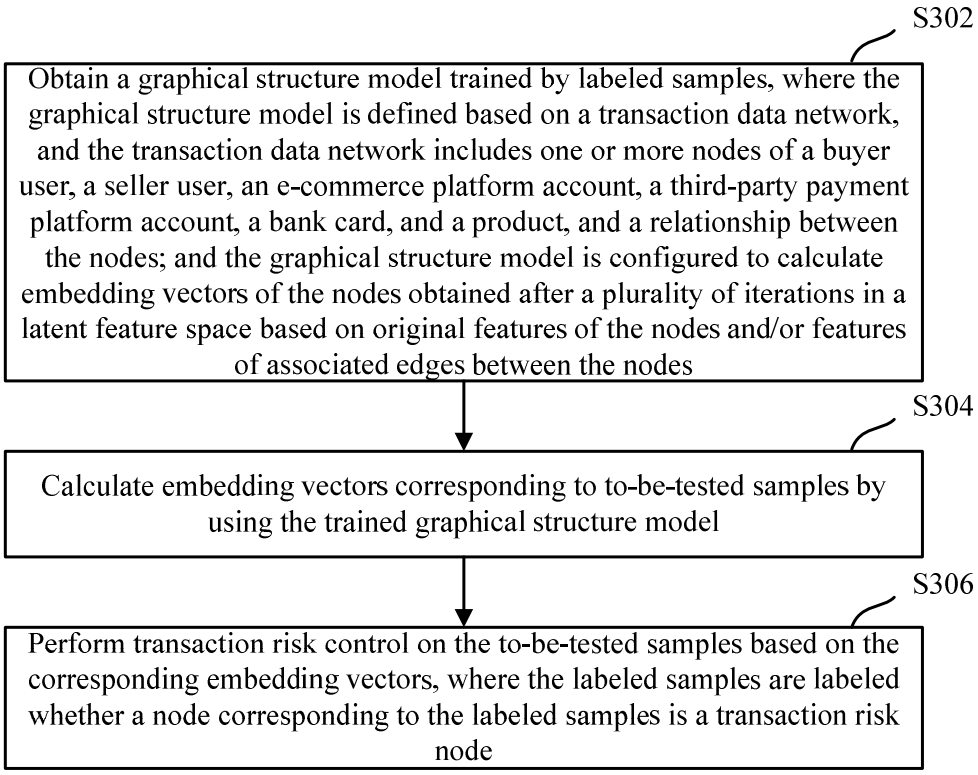

S302
Obtain a graphical structure model trained by labeled samples, where the graphical structure model is defined based on a transaction data network, and the transaction data network includes one or more nodes of a buyer user, a seller user, an e-commerce platform account, a third-party payment platform account, a bank card, and a product, and a relationship between the nodes; and the graphical structure model is configured to calculate embedding vectors of the nodes obtained after a plurality of iterations in a latent feature space based on original features of the nodes and/or features of associated edges between the nodes
S304
Calculate embedding vectors corresponding to to-be-tested samples by using the trained graphical structure model
S306
Perform transaction risk control on the to-be-tested samples based on the corresponding embedding vectors, where the labeled samples are labeled whether a node corresponding to the labeled samples is a transaction risk node

FIG. 3

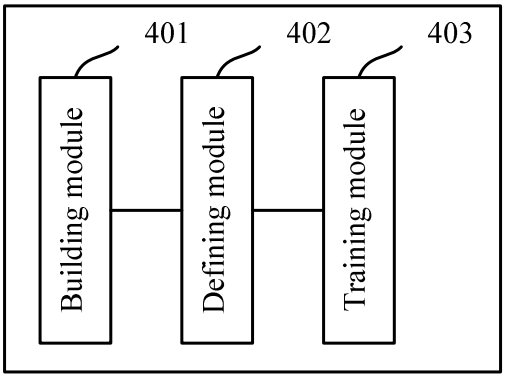

401
402
403
Building module
Defining module
Training module

FIG. 4

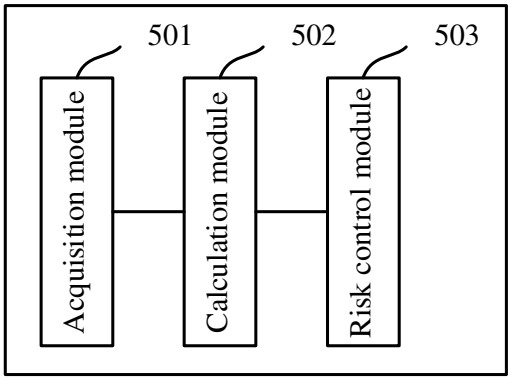

501
502
503
Acquisition module
Calculation module
Risk control module

FIG. 5