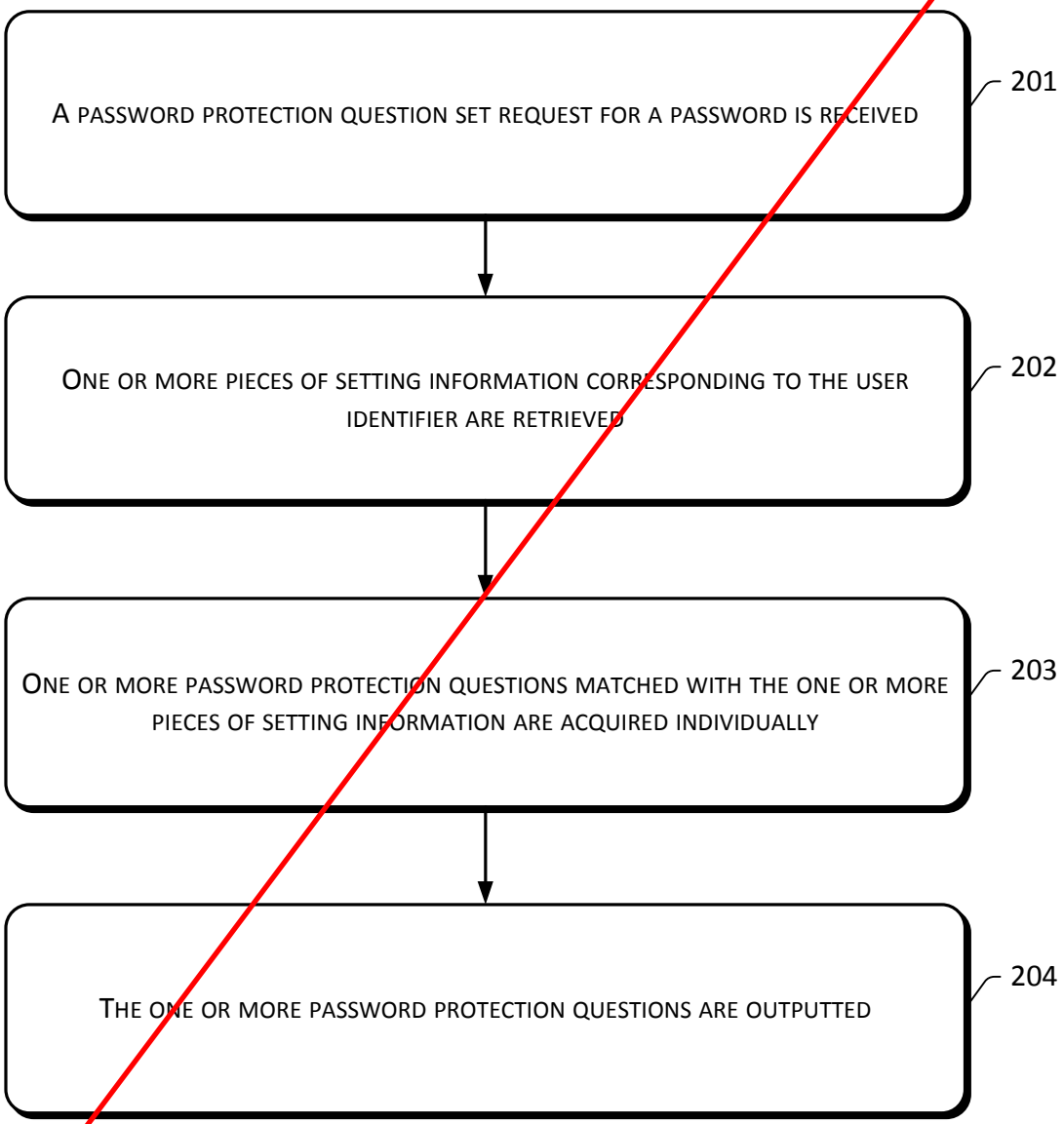

A PASSWORD PROTECTION QUESTION SET REQUEST FOR A PASSWORD IS RECEIVED
201
ONE OR MORE PIECES OF SETTING INFORMATION CORRESPONDING TO THE USER IDENTIFIER ARE RETRIEVED
202
ONE OR MORE PASSWORD PROTECTION QUESTIONS MATCHED WITH THE ONE OR MORE PIECES OF SETTING INFORMATION ARE ACQUIRED INDIVIDUALLY
203
THE ONE OR MORE PASSWORD PROTECTION QUESTIONS ARE OUTPUTTED
204

FIG. 2

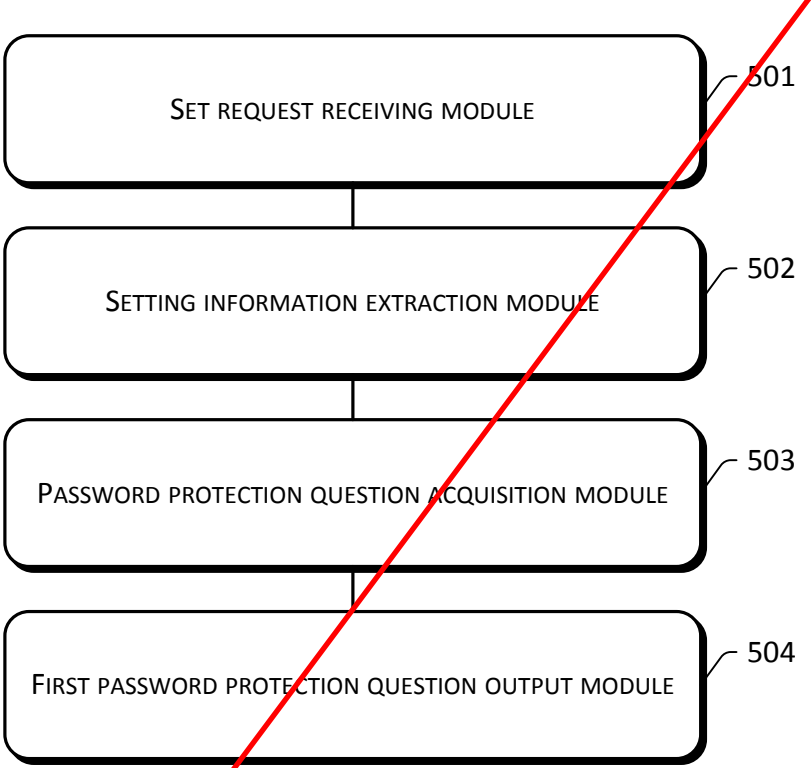

SET REQUEST RECEIVING MODULE
501
SETTING INFORMATION EXTRACTION MODULE
502
PASSWORD PROTECTION QUESTION ACQUISITION MODULE
503
FIRST PASSWORD PROTECTION QUESTION OUTPUT MODULE
504

FIG. 5

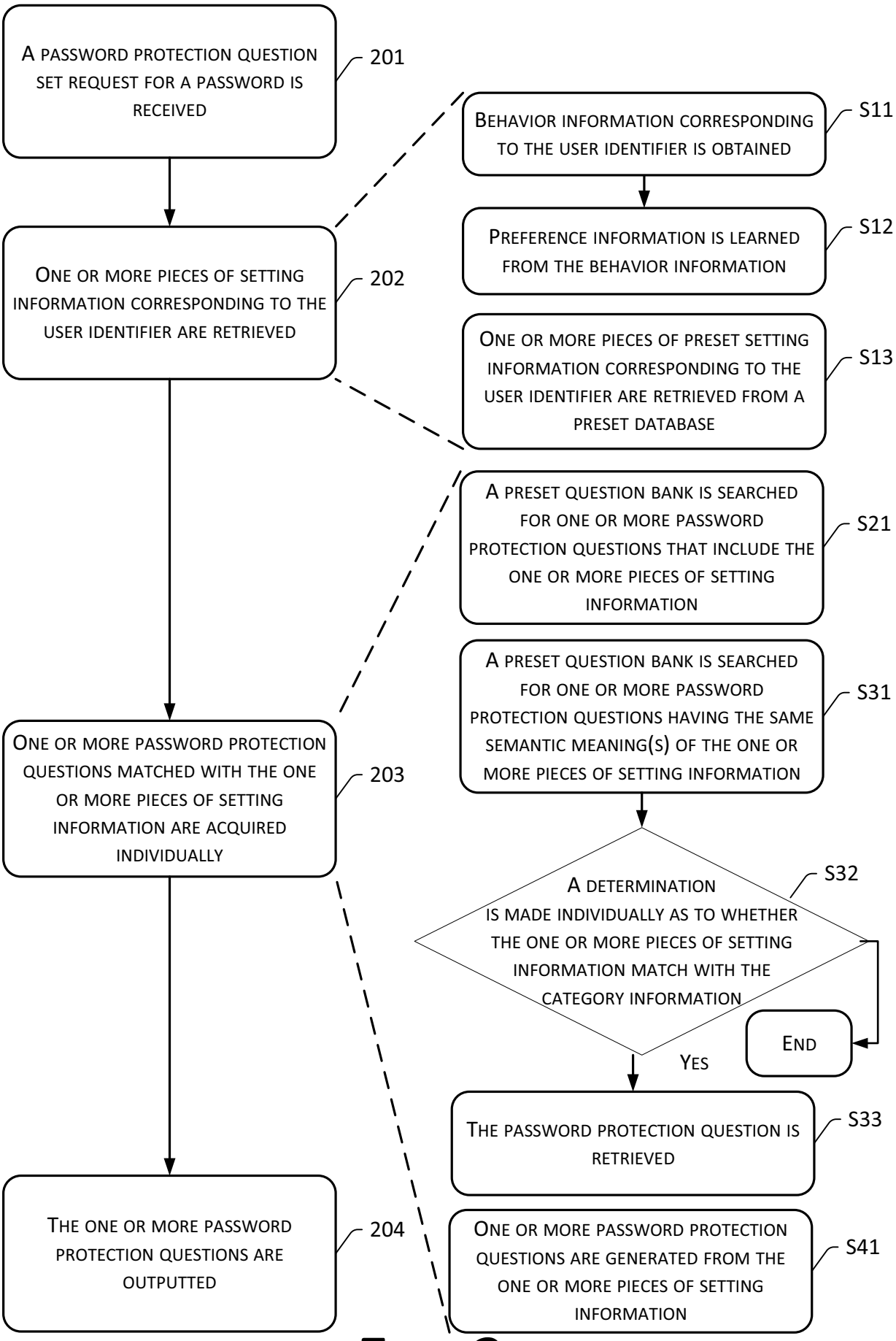

A PASSWORD PROTECTION QUESTION SET REQUEST FOR A PASSWORD IS RECEIVED
201
ONE OR MORE PIECES OF SETTING INFORMATION CORRESPONDING TO THE USER IDENTIFIER ARE RETRIEVED
202
ONE OR MORE PASSWORD PROTECTION QUESTIONS MATCHED WITH THE ONE OR MORE PIECES OF SETTING INFORMATION ARE ACQUIRED INDIVIDUALLY
203
THE ONE OR MORE PASSWORD PROTECTION QUESTIONS ARE OUTPUTTED
204
BEHAVIOR INFORMATION CORRESPONDING TO THE USER IDENTIFIER IS OBTAINED
S11
PREFERENCE INFORMATION IS LEARNED FROM THE BEHAVIOR INFORMATION
S12
ONE OR MORE PIECES OF PRESET SETTING INFORMATION CORRESPONDING TO THE USER IDENTIFIER ARE RETRIEVED FROM A PRESET DATABASE
S13
A PRESET QUESTION BANK IS SEARCHED FOR ONE OR MORE PASSWORD PROTECTION QUESTIONS THAT INCLUDE THE ONE OR MORE PIECES OF SETTING INFORMATION
S21
A PRESET QUESTION BANK IS SEARCHED FOR ONE OR MORE PASSWORD PROTECTION QUESTIONS HAVING THE SAME SEMANTIC MEANING(S) OF THE ONE OR MORE PIECES OF SETTING INFORMATION
S31
A DETERMINATION IS MADE INDIVIDUALLY AS TO WHETHER THE ONE OR MORE PIECES OF SETTING INFORMATION MATCH WITH THE CATEGORY INFORMATION
S32
END
YES
THE PASSWORD PROTECTION QUESTION IS RETRIEVED
S33
ONE OR MORE PASSWORD PROTECTION QUESTIONS ARE GENERATED FROM THE ONE OR MORE PIECES OF SETTING INFORMATION
S41

FIG. 2

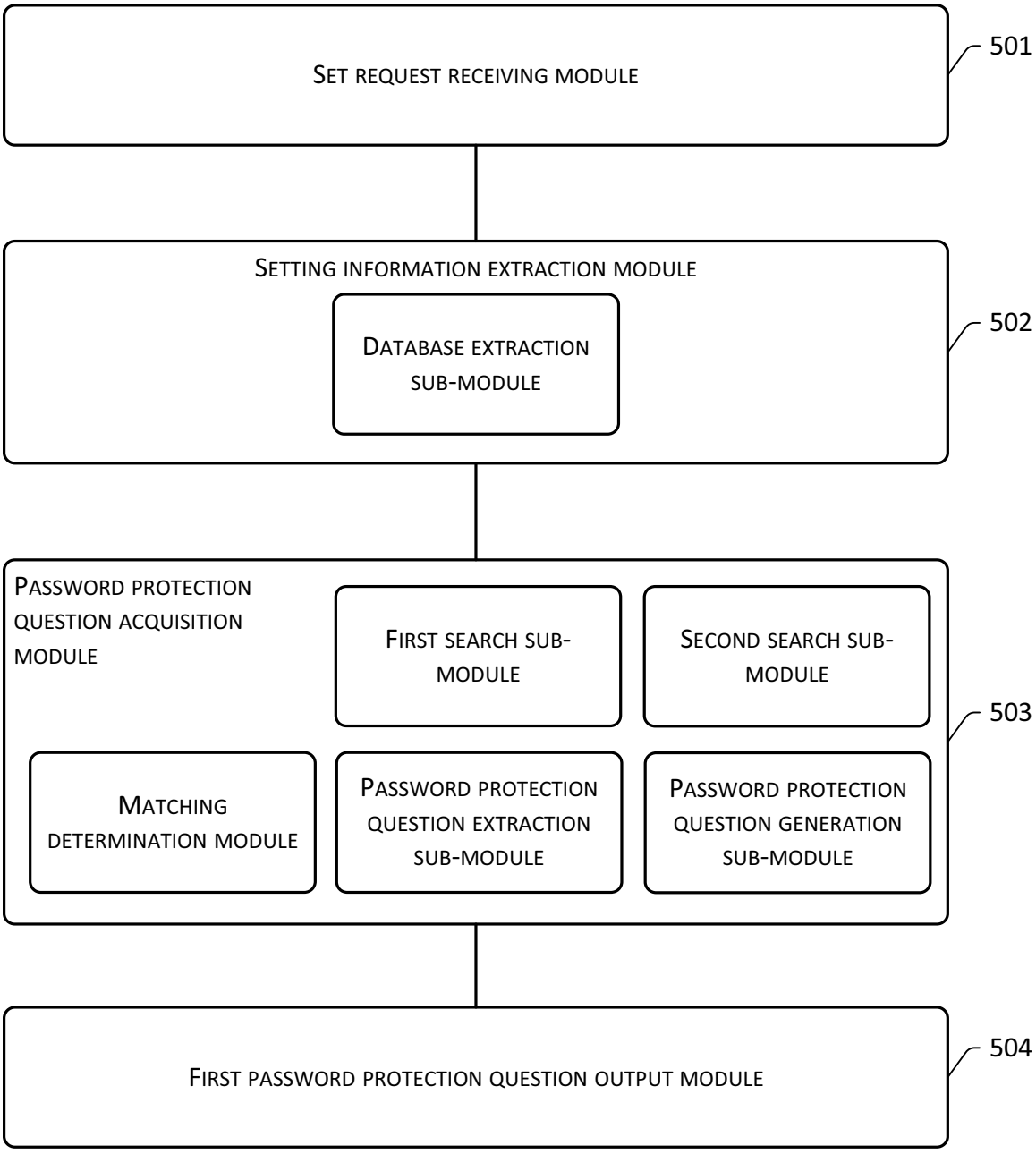

SET REQUEST RECEIVING MODULE
501
SETTING INFORMATION EXTRACTION MODULE
DATABASE EXTRACTION SUB-MODULE
502
PASSWORD PROTECTION QUESTION ACQUISITION MODULE
FIRST SEARCH SUB-MODULE
SECOND SEARCH SUB-MODULE
MATCHING DETERMINATION MODULE
PASSWORD PROTECTION QUESTION EXTRACTION SUB-MODULE
PASSWORD PROTECTION QUESTION GENERATION SUB-MODULE
503
FIRST PASSWORD PROTECTION QUESTION OUTPUT MODULE
504

FIG. 5

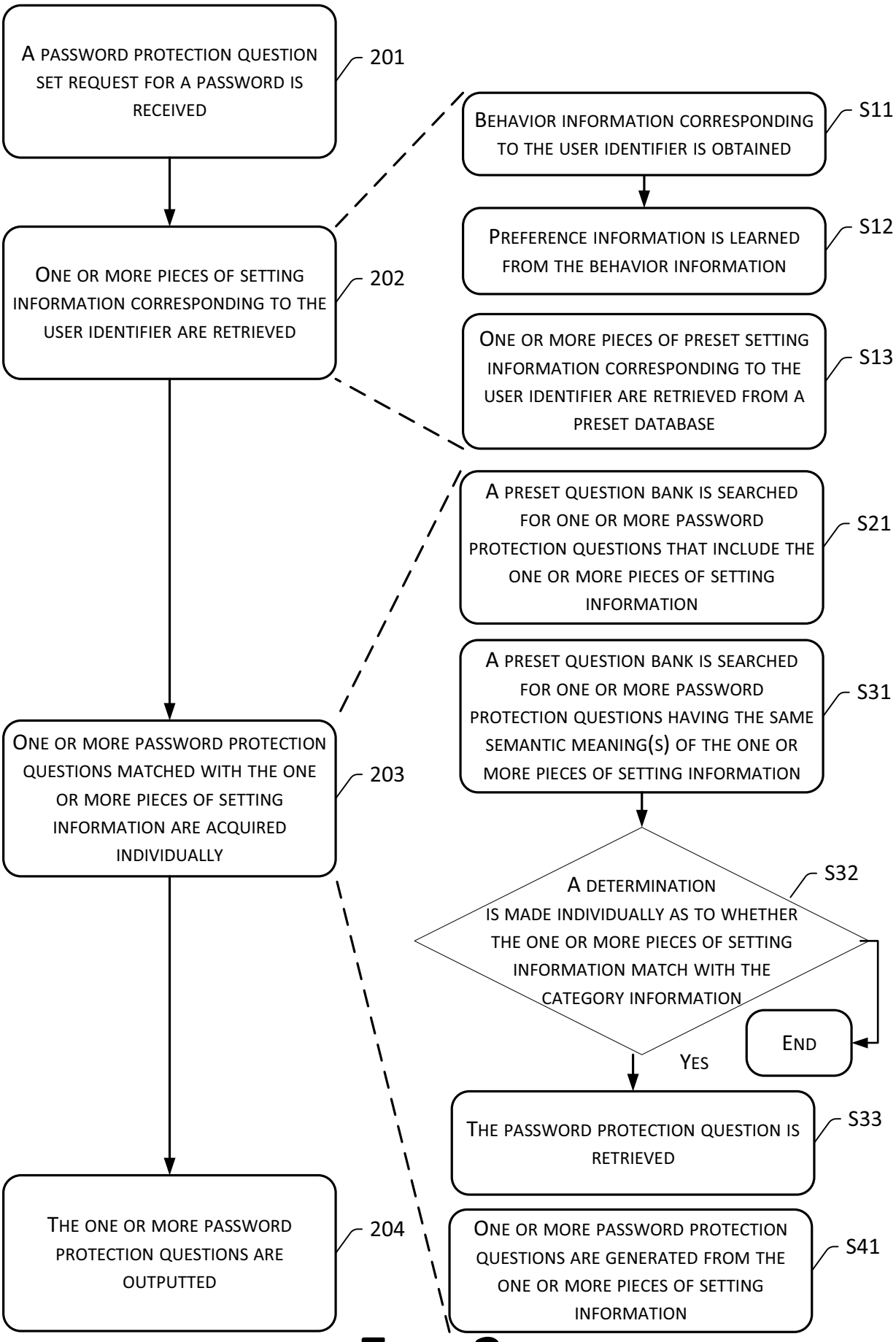

A password protection question set request for a password is received
201
One or more pieces of setting information corresponding to the user identifier are retrieved
202
One or more password protection questions matched with the one or more pieces of setting information are acquired individually
203
The one or more password protection questions are outputted
204
Behavior information corresponding to the user identifier is obtained
S11
Preference information is learned from the behavior information
S12
One or more pieces of preset setting information corresponding to the user identifier are retrieved from a preset database
S13
A preset question bank is searched for one or more password protection questions that include the one or more pieces of setting information
S21
A preset question bank is searched for one or more password protection questions having the same semantic meaning(s) of the one or more pieces of setting information
S31
A determination is made individually as to whether the one or more pieces of setting information match with the category information
S32
End
Yes
The password protection question is retrieved
S33
One or more password protection questions are generated from the one or more pieces of setting information
S41

FIG. 2

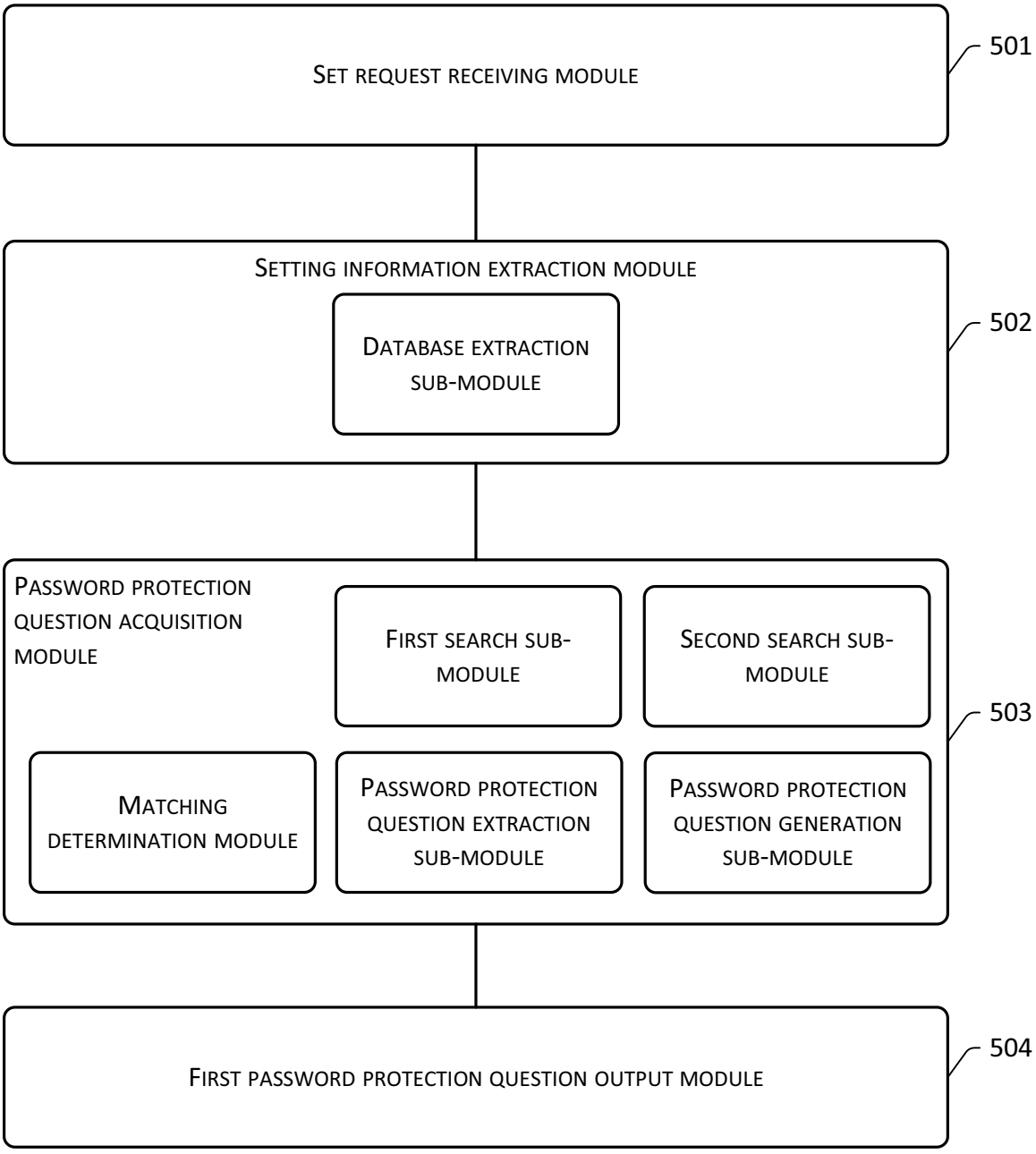

SET REQUEST RECEIVING MODULE
501
SETTING INFORMATION EXTRACTION MODULE
DATABASE EXTRACTION SUB-MODULE
502
PASSWORD PROTECTION QUESTION ACQUISITION MODULE
FIRST SEARCH SUB-MODULE
SECOND SEARCH SUB-MODULE
503
MATCHING DETERMINATION MODULE
PASSWORD PROTECTION QUESTION EXTRACTION SUB-MODULE
PASSWORD PROTECTION QUESTION GENERATION SUB-MODULE
FIRST PASSWORD PROTECTION QUESTION OUTPUT MODULE
504

FIG. 5