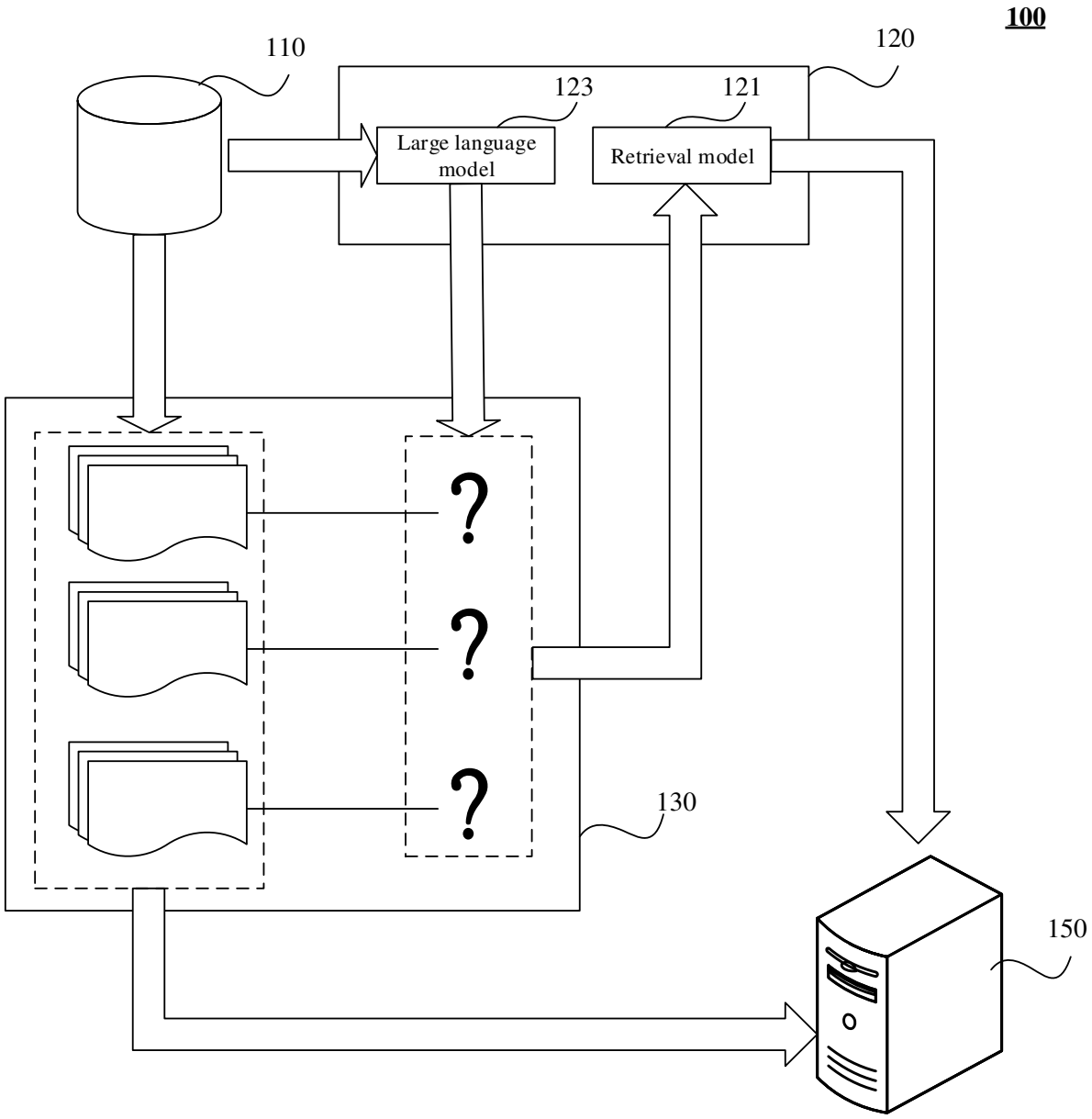

100
110
120
123
121
Large language model
Retrieval model
?
?
?
130
150

FIG. 1

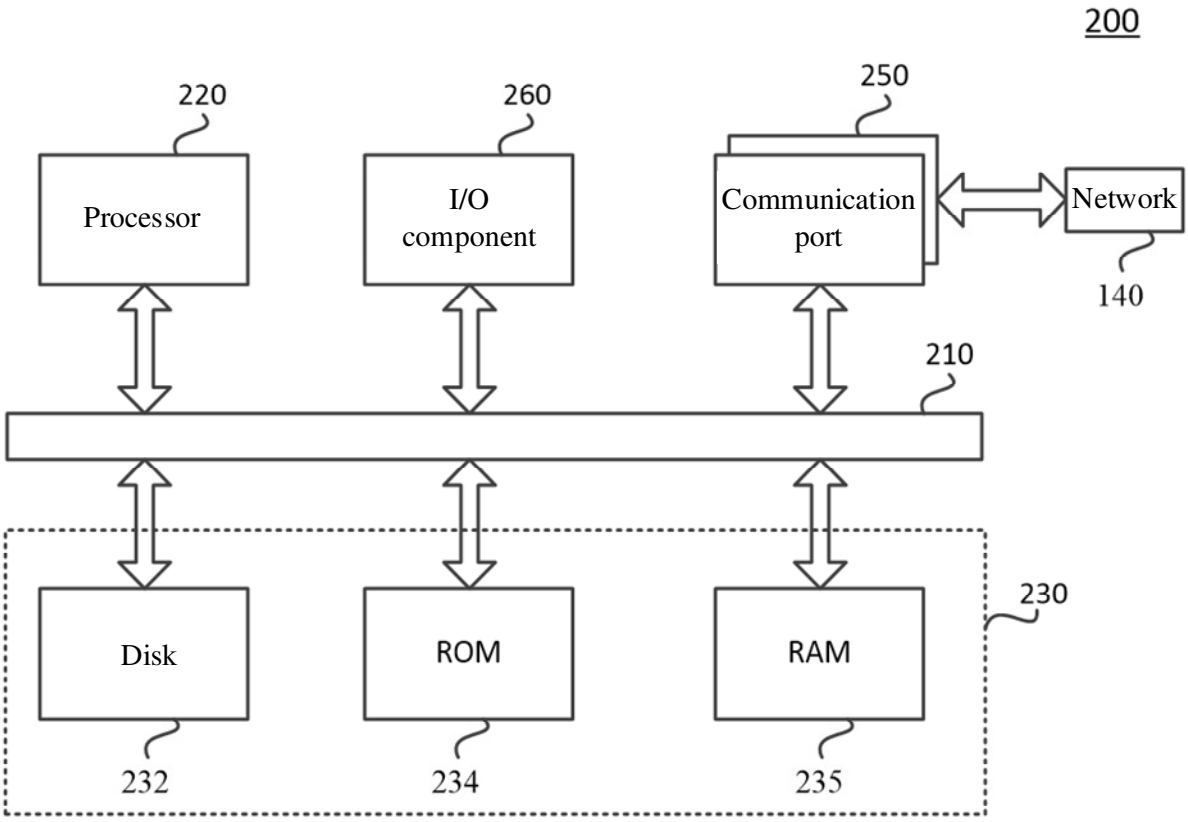

200
220
260
250
Processor
I/O component
Communication port
Network
140
210
230
Disk
ROM
RAM
232
234
235

FIG. 2

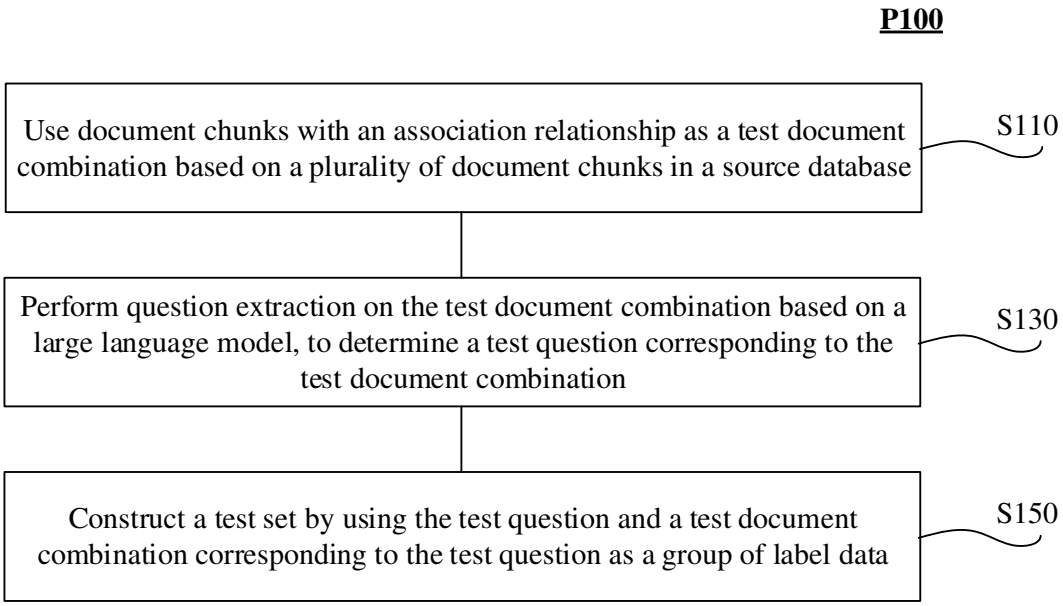

P100
Use document chunks with an association relationship as a test document combination based on a plurality of document chunks in a source database
S110
Perform question extraction on the test document combination based on a large language model, to determine a test question corresponding to the test document combination
S130
Construct a test set by using the test question and a test document combination corresponding to the test question as a group of label data
S150

FIG. 3

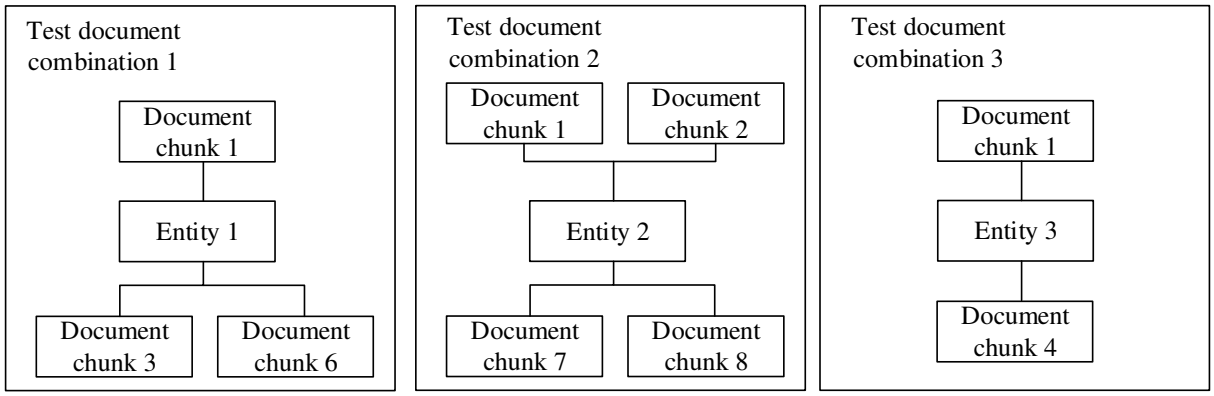

Test document combination 1
Document chunk 1
Entity 1
Document chunk 3
Document chunk 6
Test document combination 2
Document chunk 1
Document chunk 2
Entity 2
Document chunk 7
Document chunk 8
Test document combination 3
Document chunk 1
Entity 3
Document chunk 4

FIG. 4

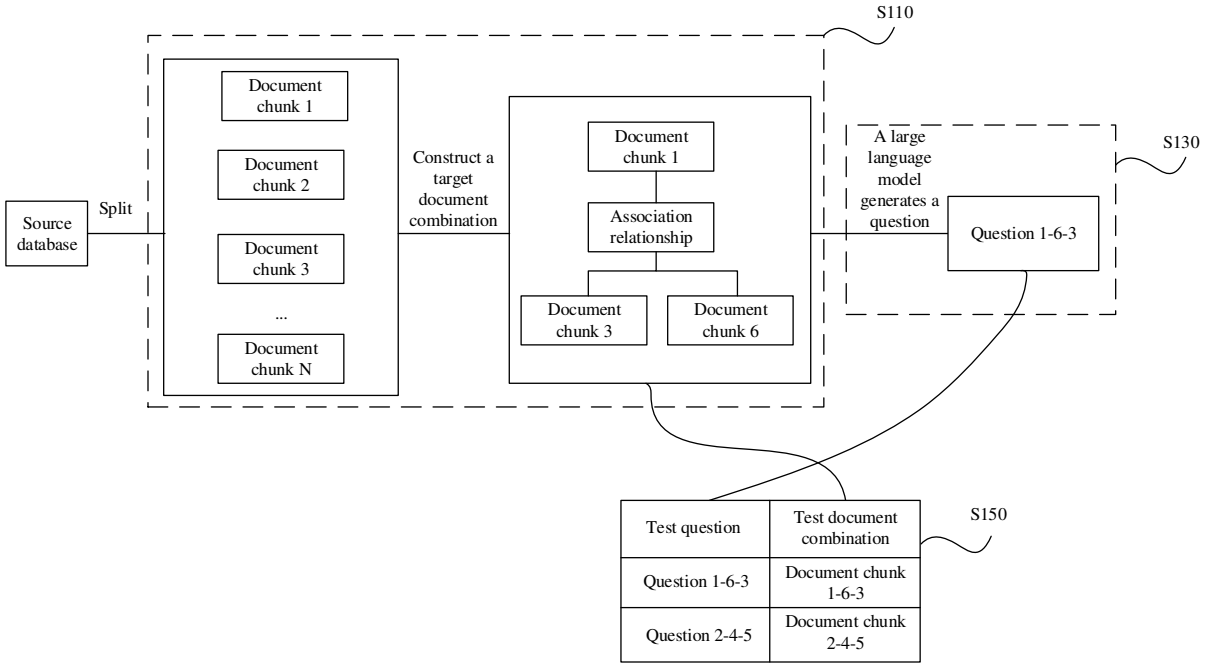

S110
Source database
Split
Document chunk 1
Document chunk 2
Document chunk 3
...
Document chunk N
Construct a target document combination
Document chunk 1
Association relationship
Document chunk 3
Document chunk 6
A large language model generates a question
Question 1-6-3
S130
Test question
Test document combination
Question 1-6-3
Document chunk 1-6-3
Question 2-4-5
Document chunk 2-4-5
S150

FIG. 5

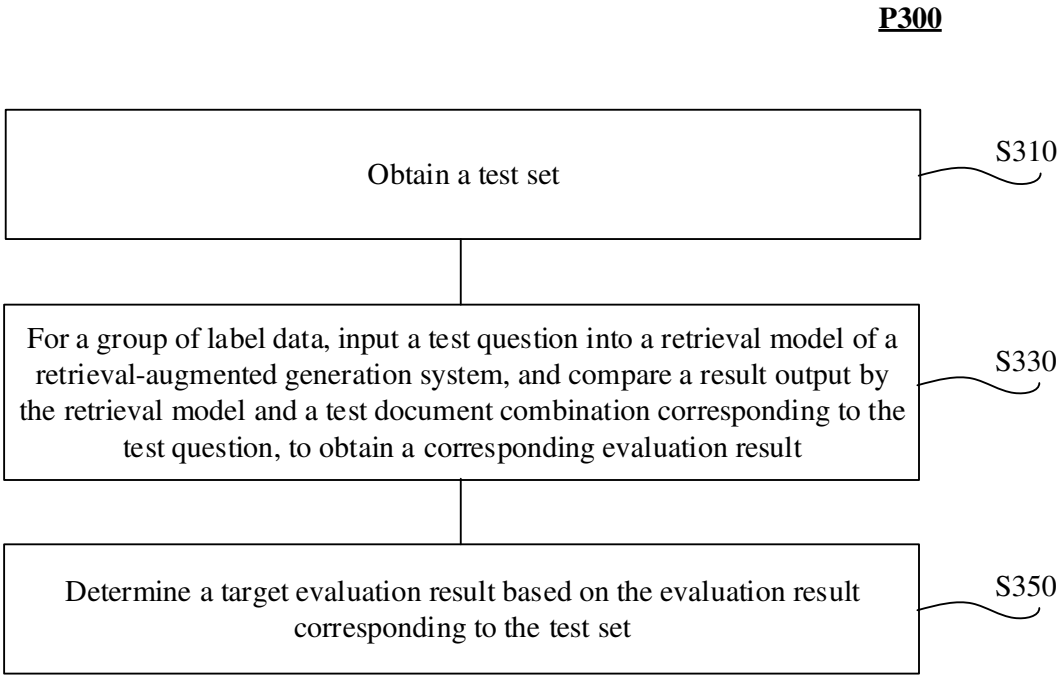

P300
Obtain a test set
S310
For a group of label data, input a test question into a retrieval model of a retrieval-augmented generation system, and compare a result output by the retrieval model and a test document combination corresponding to the test question, to obtain a corresponding evaluation result
S330
Determine a target evaluation result based on the evaluation result corresponding to the test set
S350

FIG. 6