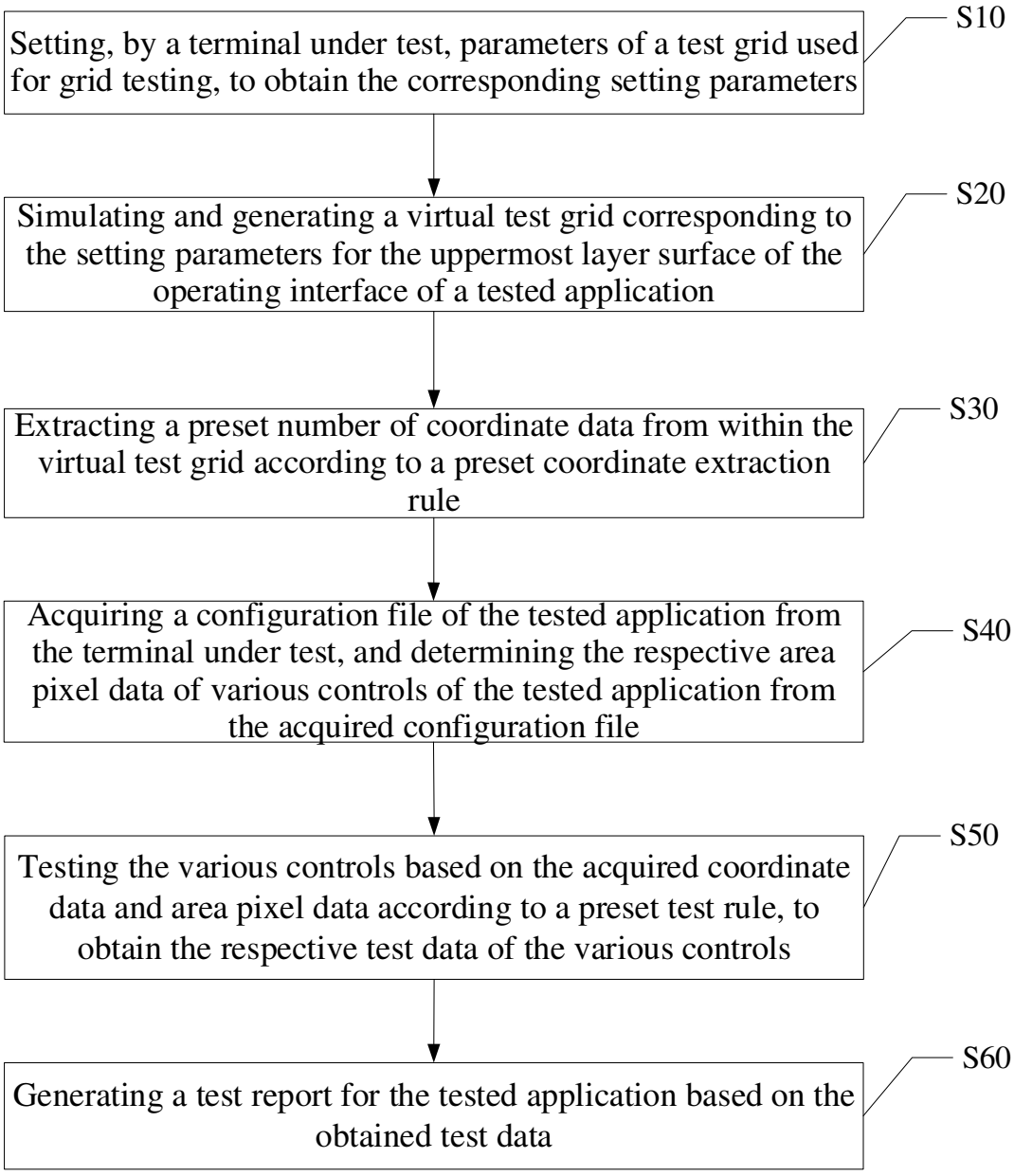

Setting, by a terminal under test, parameters of a test grid used for grid testing, to obtain the corresponding setting parameters
S10
Simulating and generating a virtual test grid corresponding to the setting parameters for the uppermost layer surface of the operating interface of a tested application
S20
Extracting a preset number of coordinate data from within the virtual test grid according to a preset coordinate extraction rule
S30
Acquiring a configuration file of the tested application from the terminal under test, and determining the respective area pixel data of various controls of the tested application from the acquired configuration file
S40
Testing the various controls based on the acquired coordinate data and area pixel data according to a preset test rule, to obtain the respective test data of the various controls
S50
Generating a test report for the tested application based on the obtained test data
S60

FIG. 1

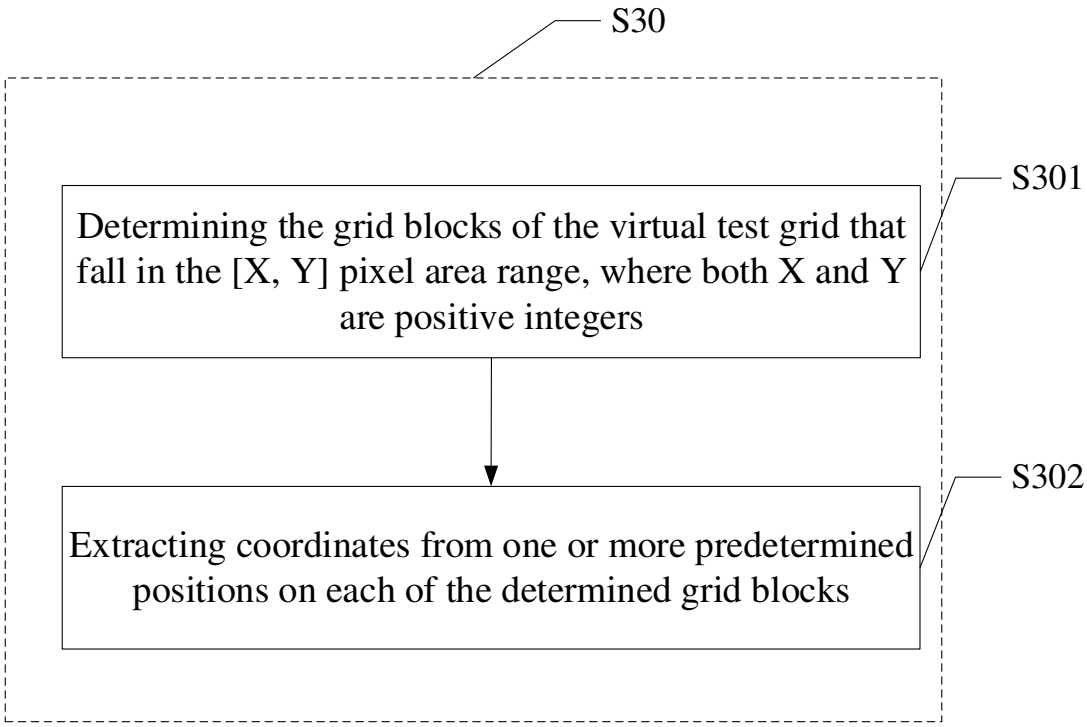

S30
S301
Determining the grid blocks of the virtual test grid that fall in the [X, Y] pixel area range, where both X and Y are positive integers
S302
Extracting coordinates from one or more predetermined positions on each of the determined grid blocks

FIG. 2

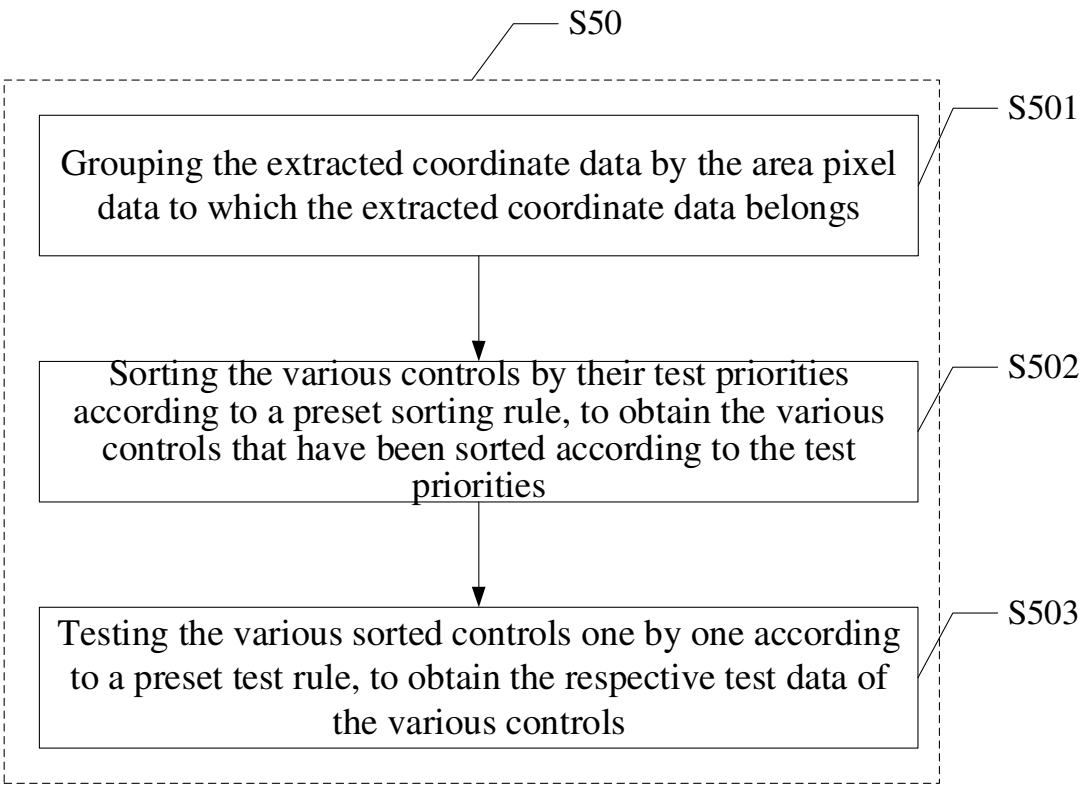

S50
S501
Grouping the extracted coordinate data by the area pixel data to which the extracted coordinate data belongs
S502
Sorting the various controls by their test priorities according to a preset sorting rule, to obtain the various controls that have been sorted according to the test priorities
S503
Testing the various sorted controls one by one according to a preset test rule, to obtain the respective test data of the various controls

FIG. 3

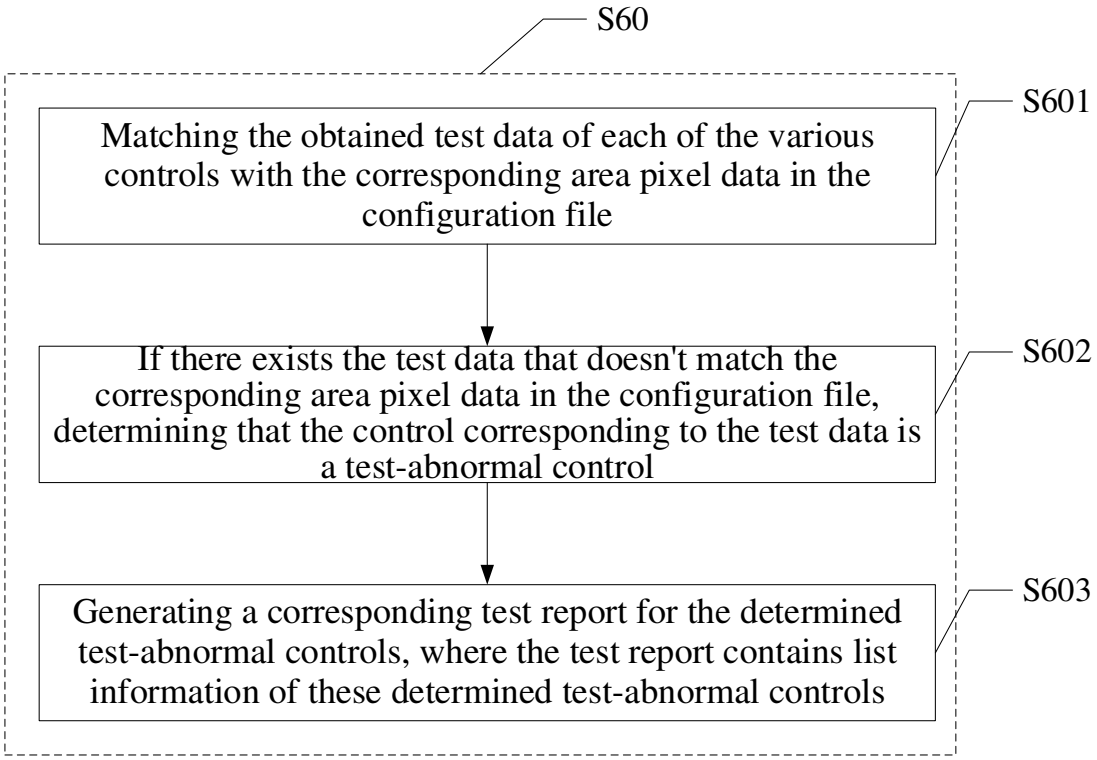

S60
S601
Matching the obtained test data of each of the various controls with the corresponding area pixel data in the configuration file
S602
If there exists the test data that doesn't match the corresponding area pixel data in the configuration file, determining that the control corresponding to the test data is a test-abnormal control
S603
Generating a corresponding test report for the determined test-abnormal controls, where the test report contains list information of these determined test-abnormal controls

FIG. 4

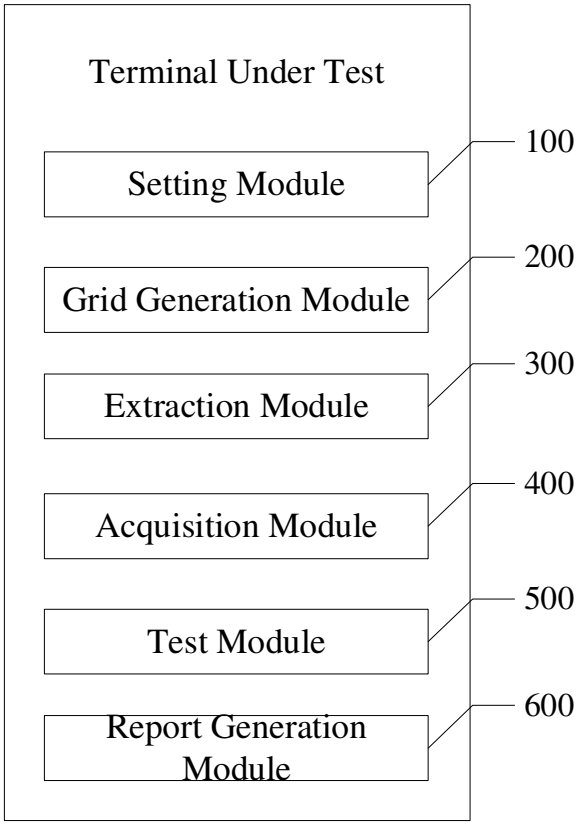

Terminal Under Test
Setting Module
100
Grid Generation Module
200
Extraction Module
300
Acquisition Module
400
Test Module
500
Report Generation Module
600

FIG. 5

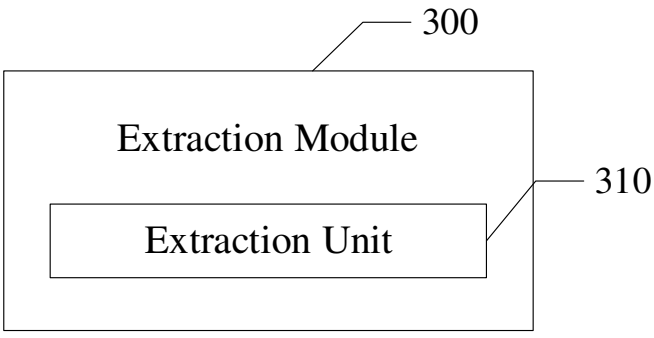

300
Extraction Module
Extraction Unit
310

FIG. 6

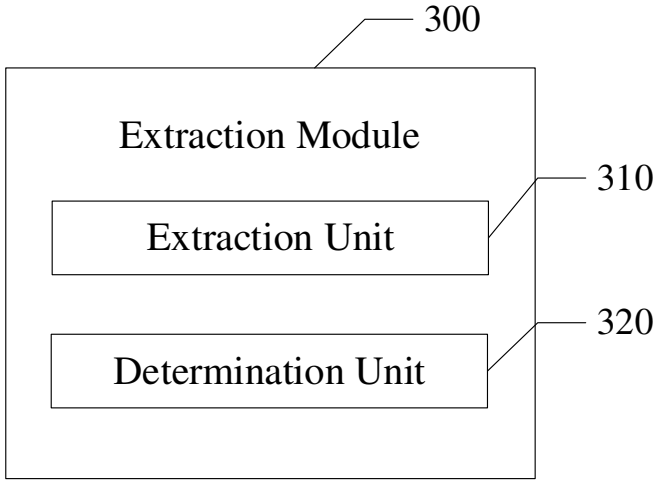

300
Extraction Module
310
Extraction Unit
320
Determination Unit

FIG. 7

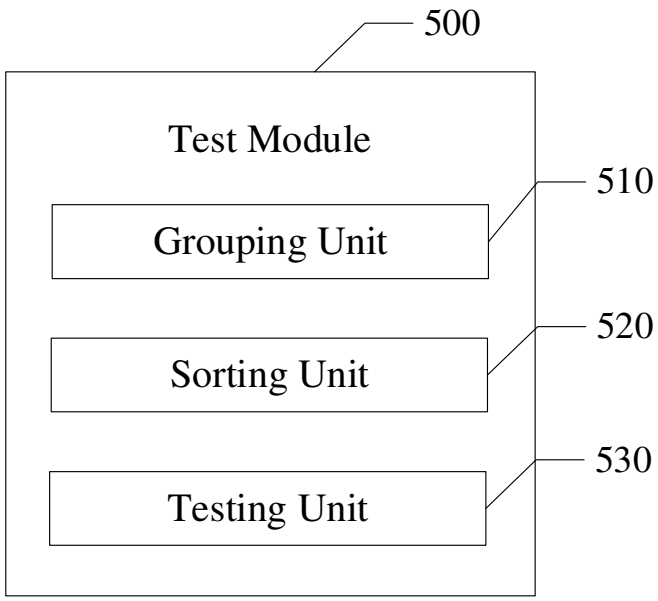

500
Test Module
510
Grouping Unit
520
Sorting Unit
530
Testing Unit

FIG. 8

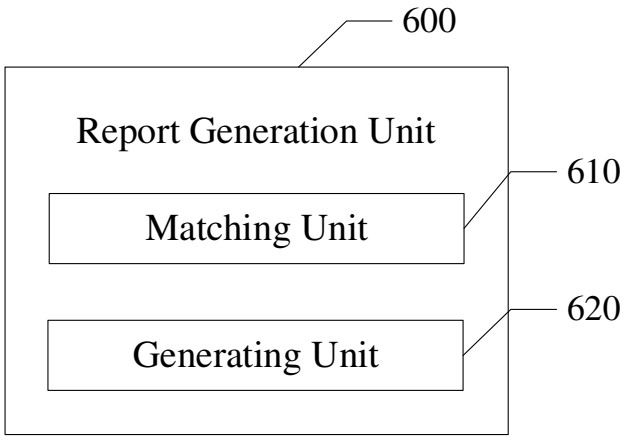

600
Report Generation Unit
610
Matching Unit
620
Generating Unit

FIG. 9

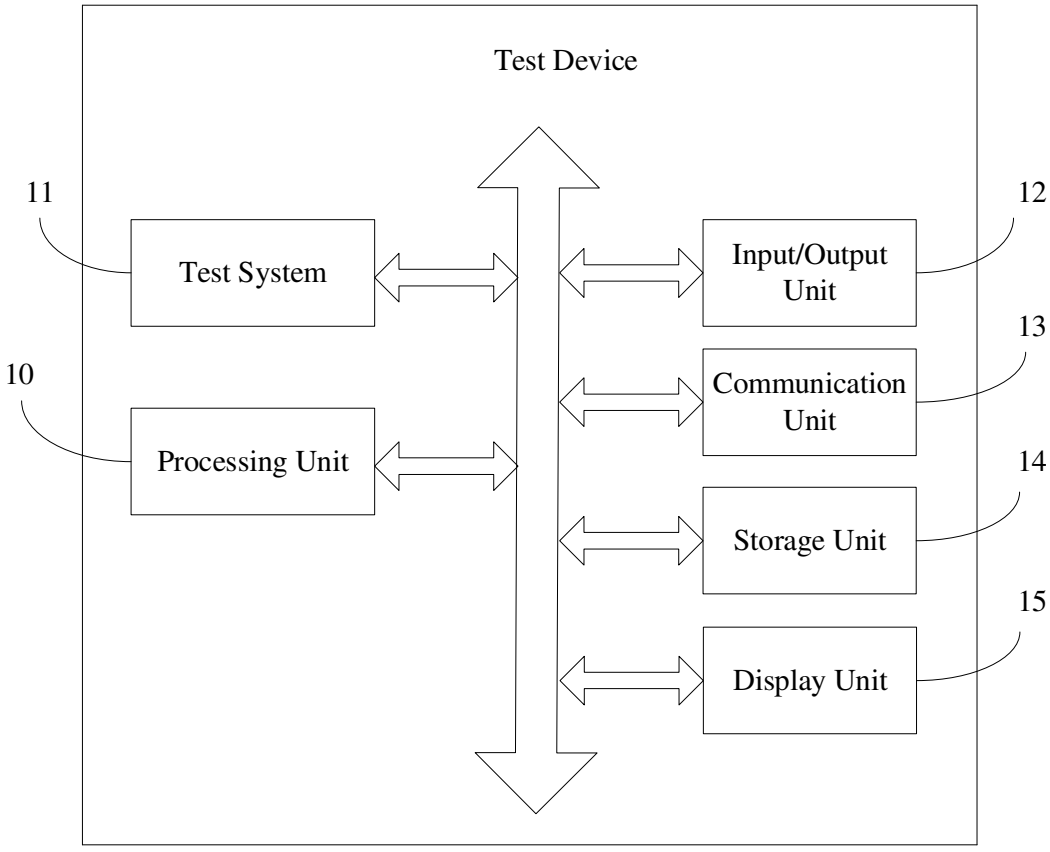

Test Device
11
Test System
12
Input/Output Unit
13
Communication Unit
10
Processing Unit
14
Storage Unit
15
Display Unit

FIG. 10

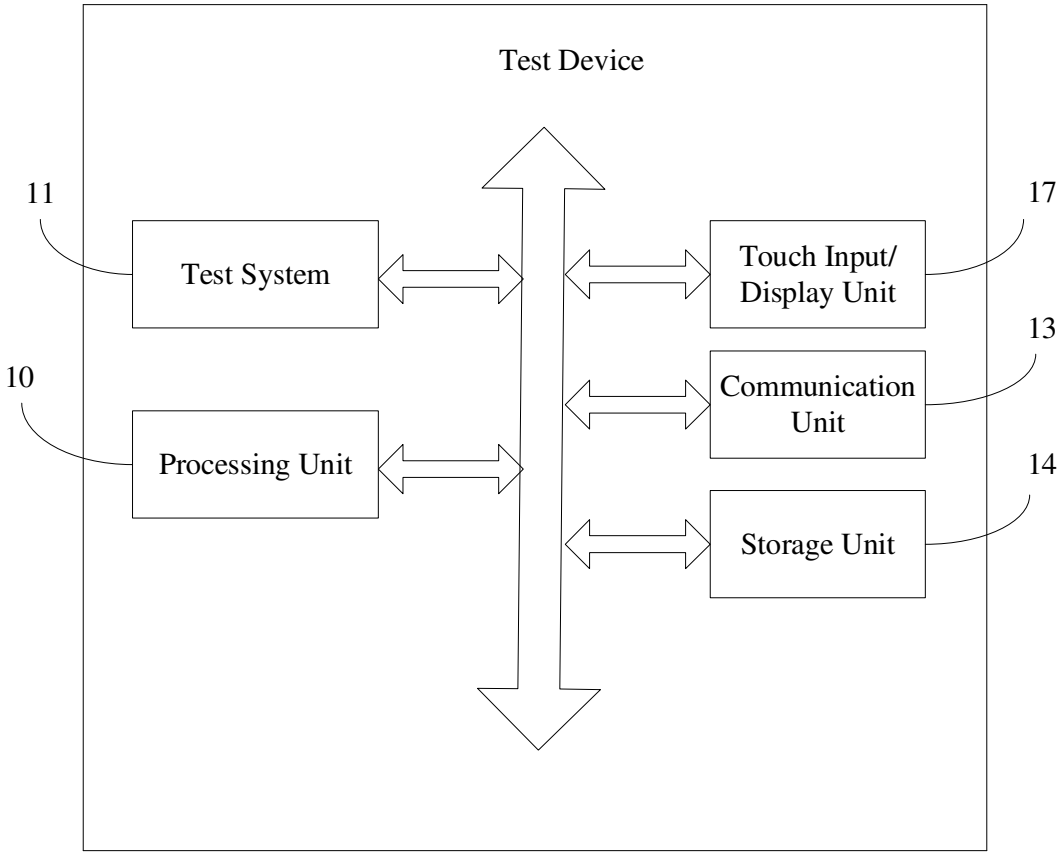

Test Device
11
Test System
17
Touch Input/
Display Unit
13
10
Communication
Unit
Processing Unit
14
Storage Unit

FIG. 11