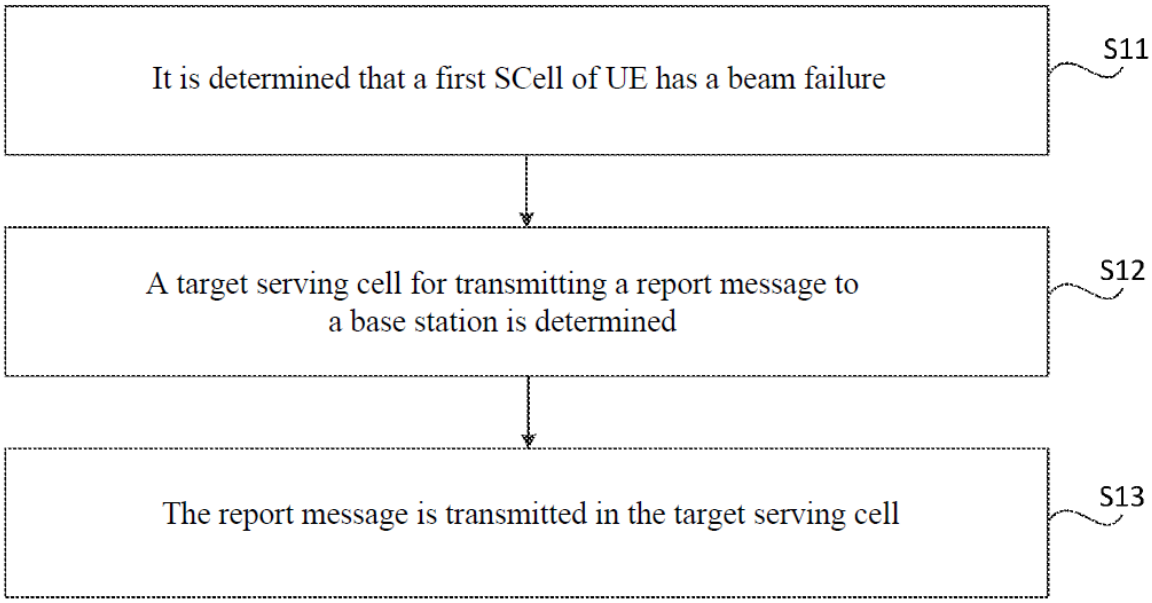
It is determined that a first SCell of UE has a beam failure
S11
A target serving cell for transmitting a report message to a base station is determined
S12
The report message is transmitted in the target serving cell
S13

FIG. 1

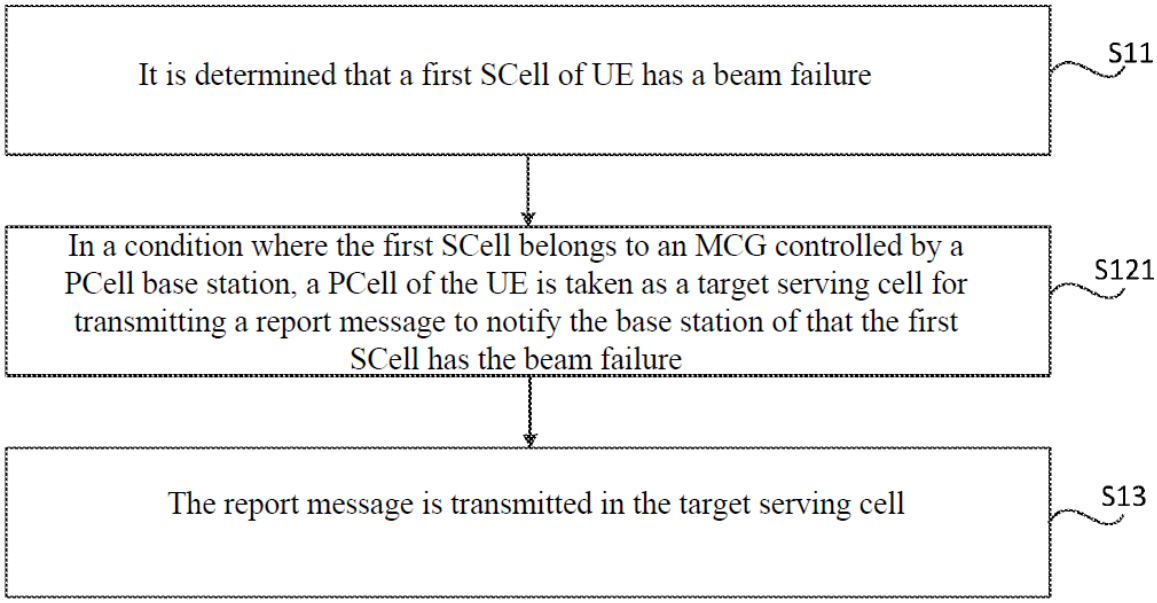
It is determined that a first SCell of UE has a beam failure
S11
In a condition where the first SCell belongs to an MCG controlled by a PCell base station, a PCell of the UE is taken as a target serving cell for transmitting a report message to notify the base station of that the first SCell has the beam failure
S121
The report message is transmitted in the target serving cell
S13

FIG. 2

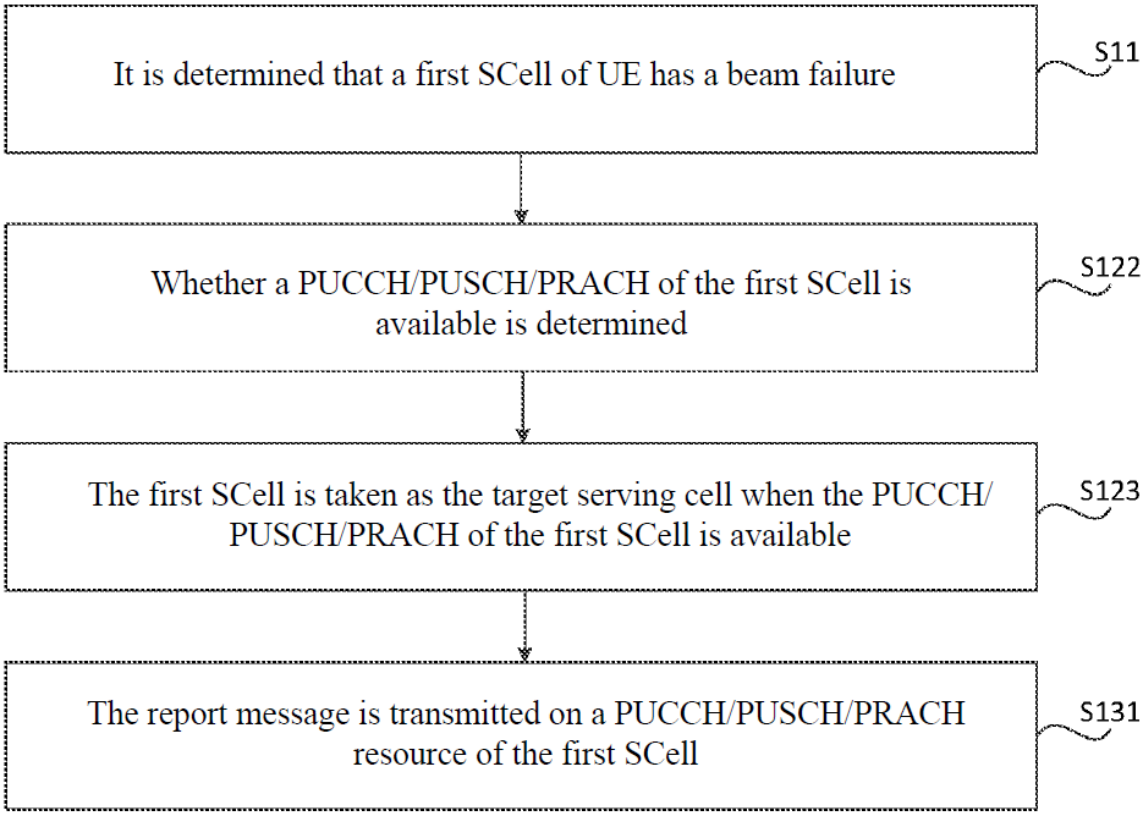
It is determined that a first SCell of UE has a beam failure
S11
Whether a PUCCH/PUSCH/PRACH of the first SCell is available is determined
S122
The first SCell is taken as the target serving cell when the PUCCH/ PUSCH/PRACH of the first SCell is available
S123
The report message is transmitted on a PUCCH/PUSCH/PRACH resource of the first SCell
S131

FIG. 3

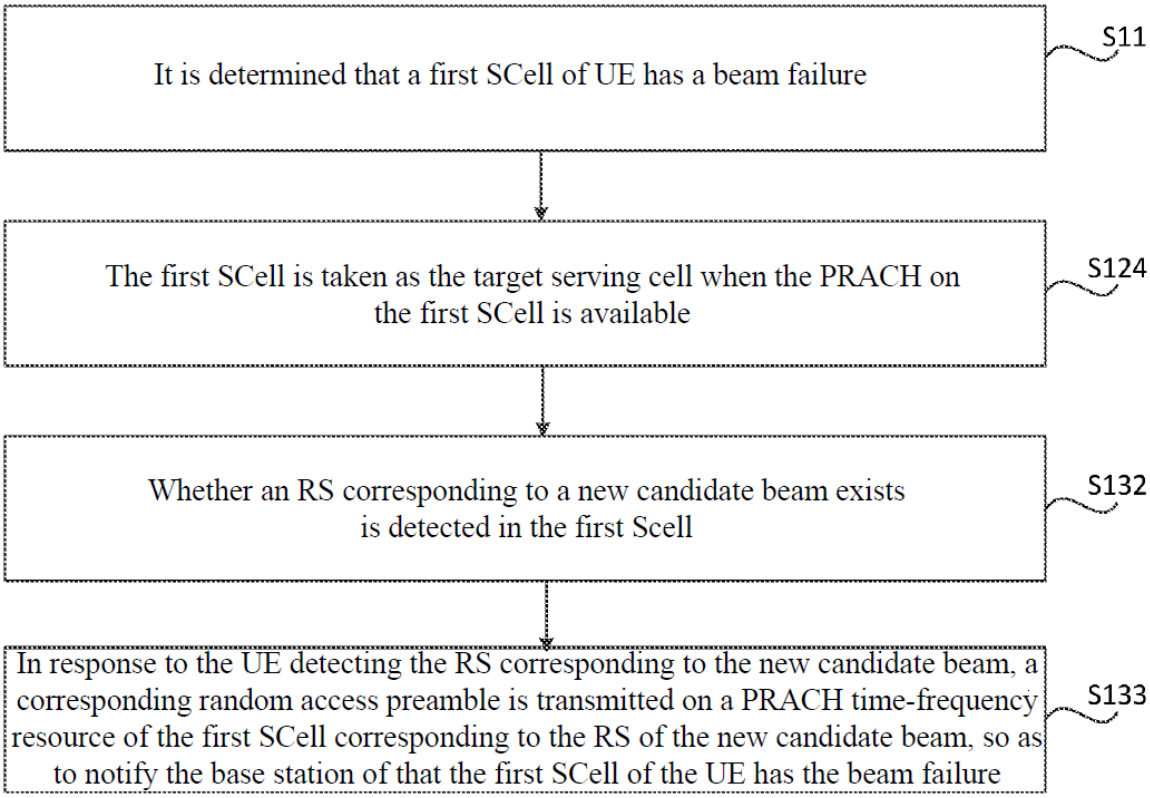
It is determined that a first SCell of UE has a beam failure
S11
The first SCell is taken as the target serving cell when the PRACH on the first SCell is available
S124
Whether an RS corresponding to a new candidate beam exists is detected in the first Scell
S132
In response to the UE detecting the RS corresponding to the new candidate beam, a corresponding random access preamble is transmitted on a PRACH time-frequency resource of the first SCell corresponding to the RS of the new candidate beam, so as to notify the base station of that the first SCell of the UE has the beam failure
S133

FIG. 4

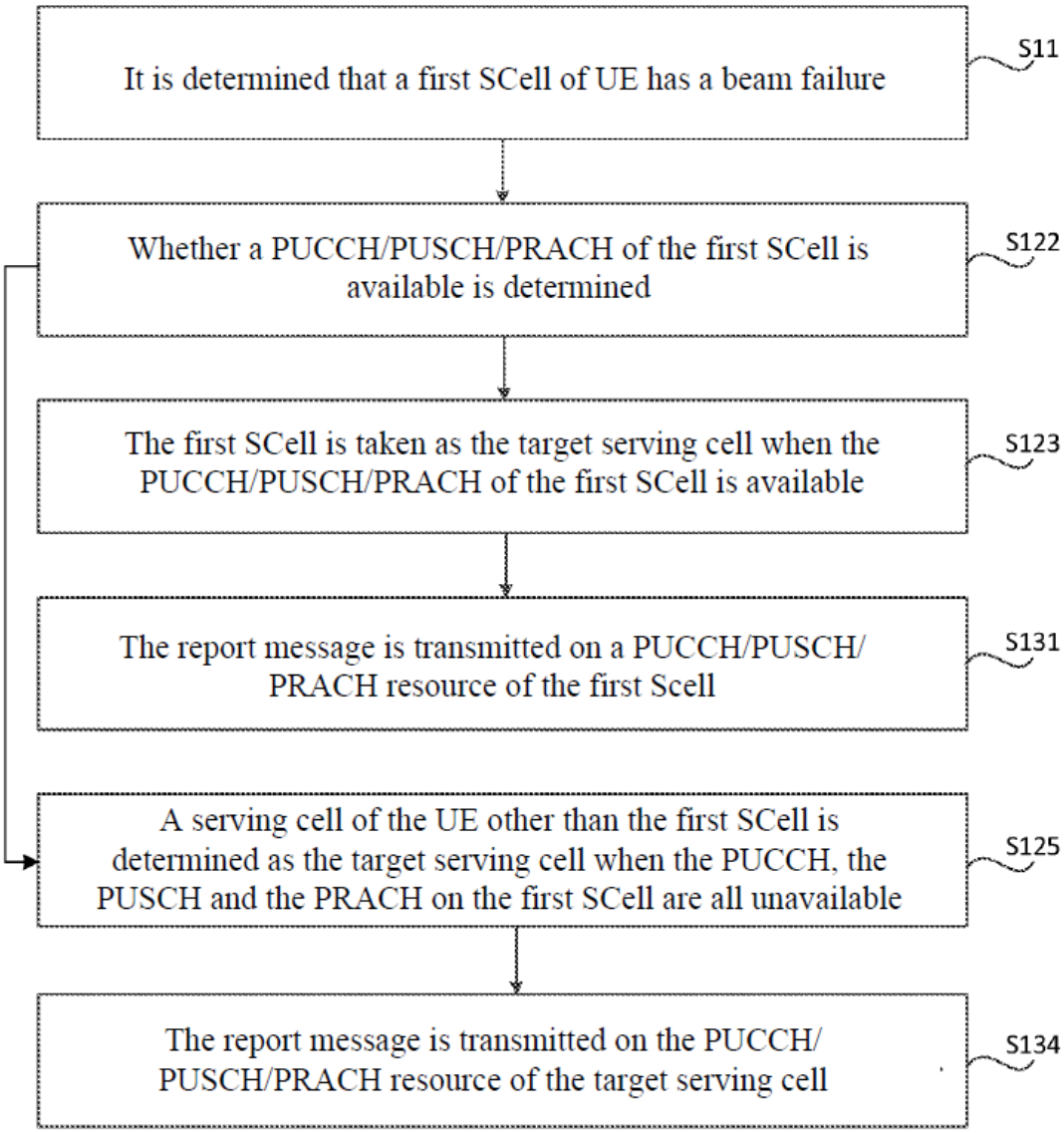
It is determined that a first SCell of UE has a beam failure
S11
Whether a PUCCH/PUSCH/PRACH of the first SCell is available is determined
S122
The first SCell is taken as the target serving cell when the PUCCH/PUSCH/PRACH of the first SCell is available
S123
The report message is transmitted on a PUCCH/PUSCH/ PRACH resource of the first Scell
S131
A serving cell of the UE other than the first SCell is determined as the target serving cell when the PUCCH, the PUSCH and the PRACH on the first SCell are all unavailable
S125
The report message is transmitted on the PUCCH/ PUSCH/PRACH resource of the target serving cell
S134

FIG. 5

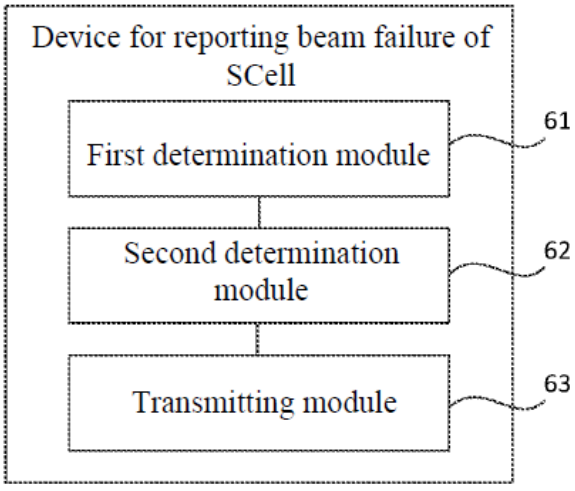
Device for reporting beam failure of SCell
First determination module
61
Second determination module
62
Transmitting module
63

FIG. 6

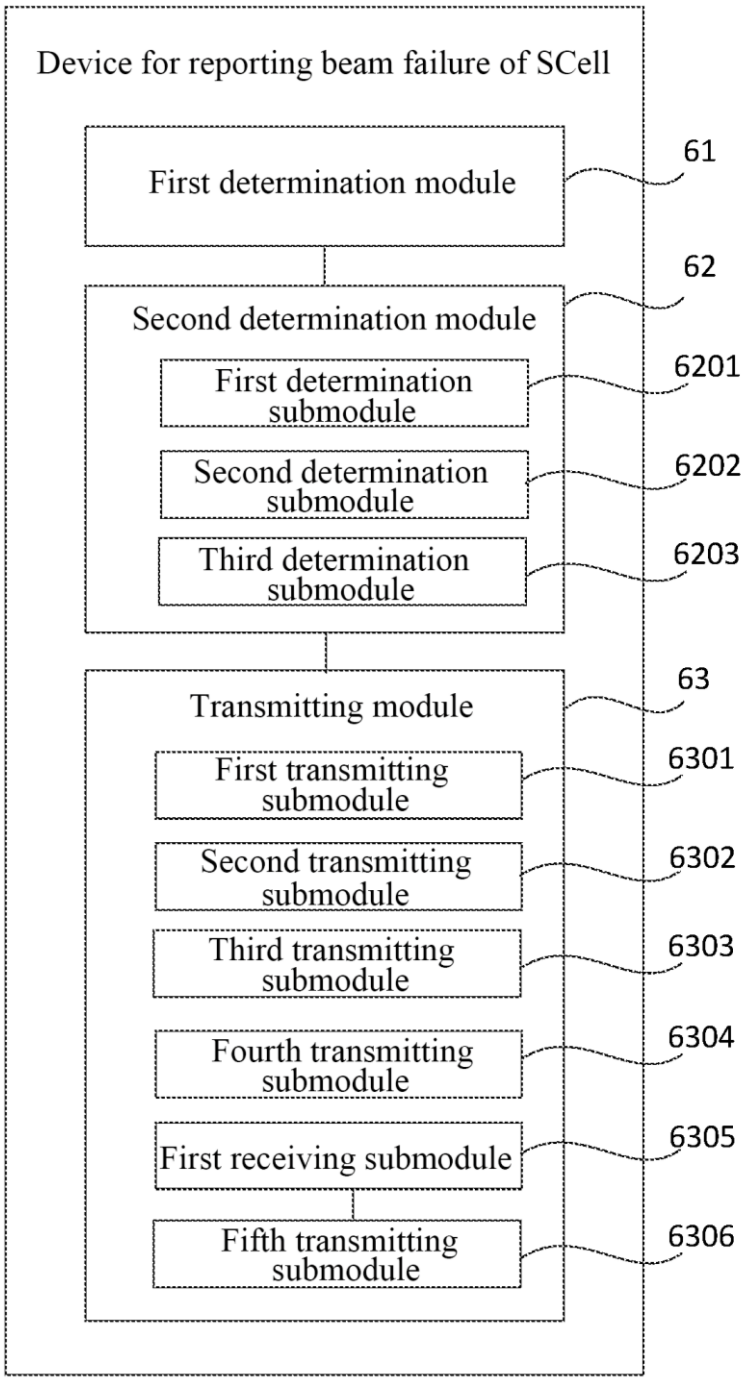
Device for reporting beam failure of SCell
First determination module
61
Second determination module
62
First determination submodule
6201
Second determination submodule
6202
Third determination submodule
6203
Transmitting module
63
First transmitting submodule
6301
Second transmitting submodule
6302
Third transmitting submodule
6303
Fourth transmitting submodule
6304
First receiving submodule
6305
Fifth transmitting submodule
6306

FIG. 7

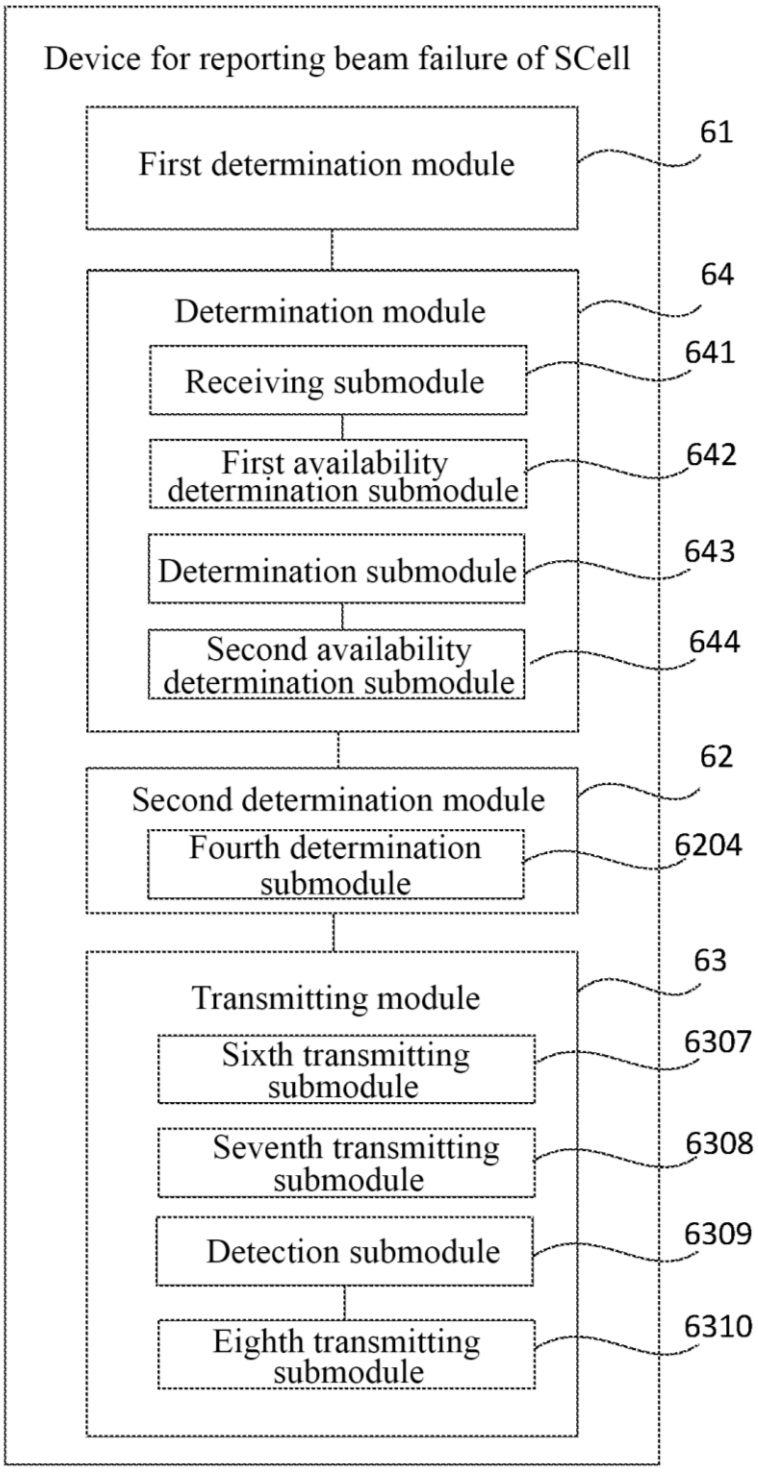
Device for reporting beam failure of SCell
First determination module
61
Determination module
64
Receiving submodule
641
First availability determination submodule
642
Determination submodule
643
Second availability determination submodule
644
Second determination module
62
Fourth determination submodule
6204
Transmitting module
63
Sixth transmitting submodule
6307
Seventh transmitting submodule
6308
Detection submodule
6309
Eighth transmitting submodule
6310

FIG. 8

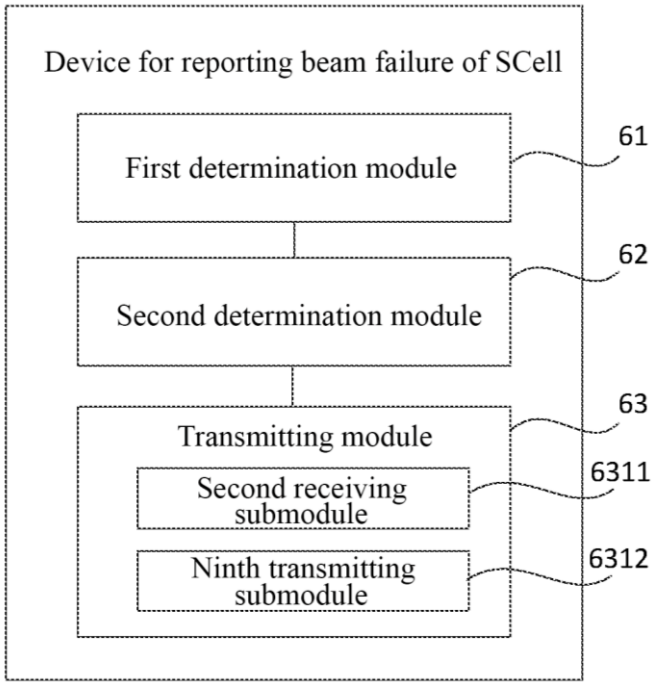
Device for reporting beam failure of SCell
First determination module
61
Second determination module
62
Transmitting module
63
Second receiving submodule
6311
Ninth transmitting submodule
6312

FIG. 9

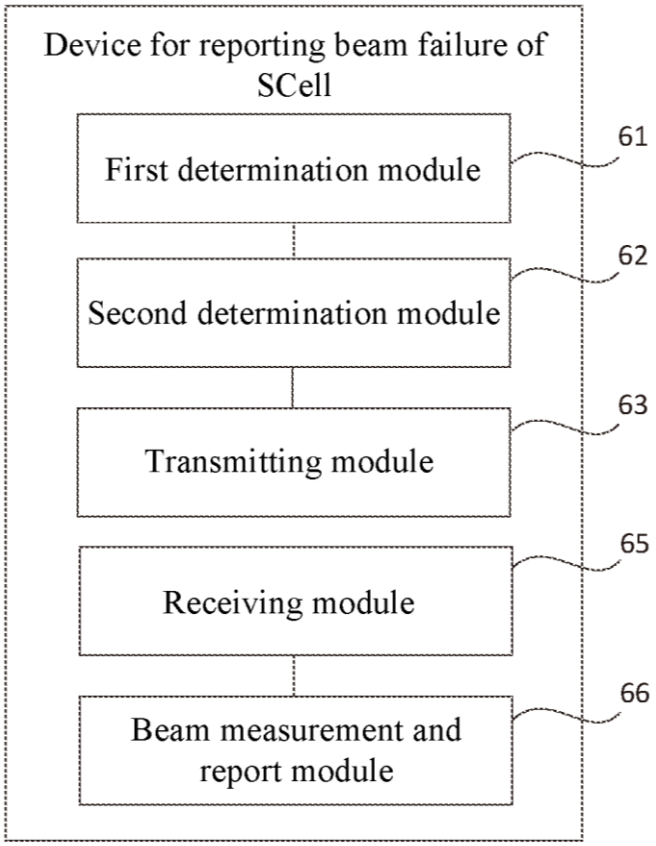
Device for reporting beam failure of SCell
First determination module
61
Second determination module
62
Transmitting module
63
Receiving module
65
Beam measurement and report module
66

FIG. 10

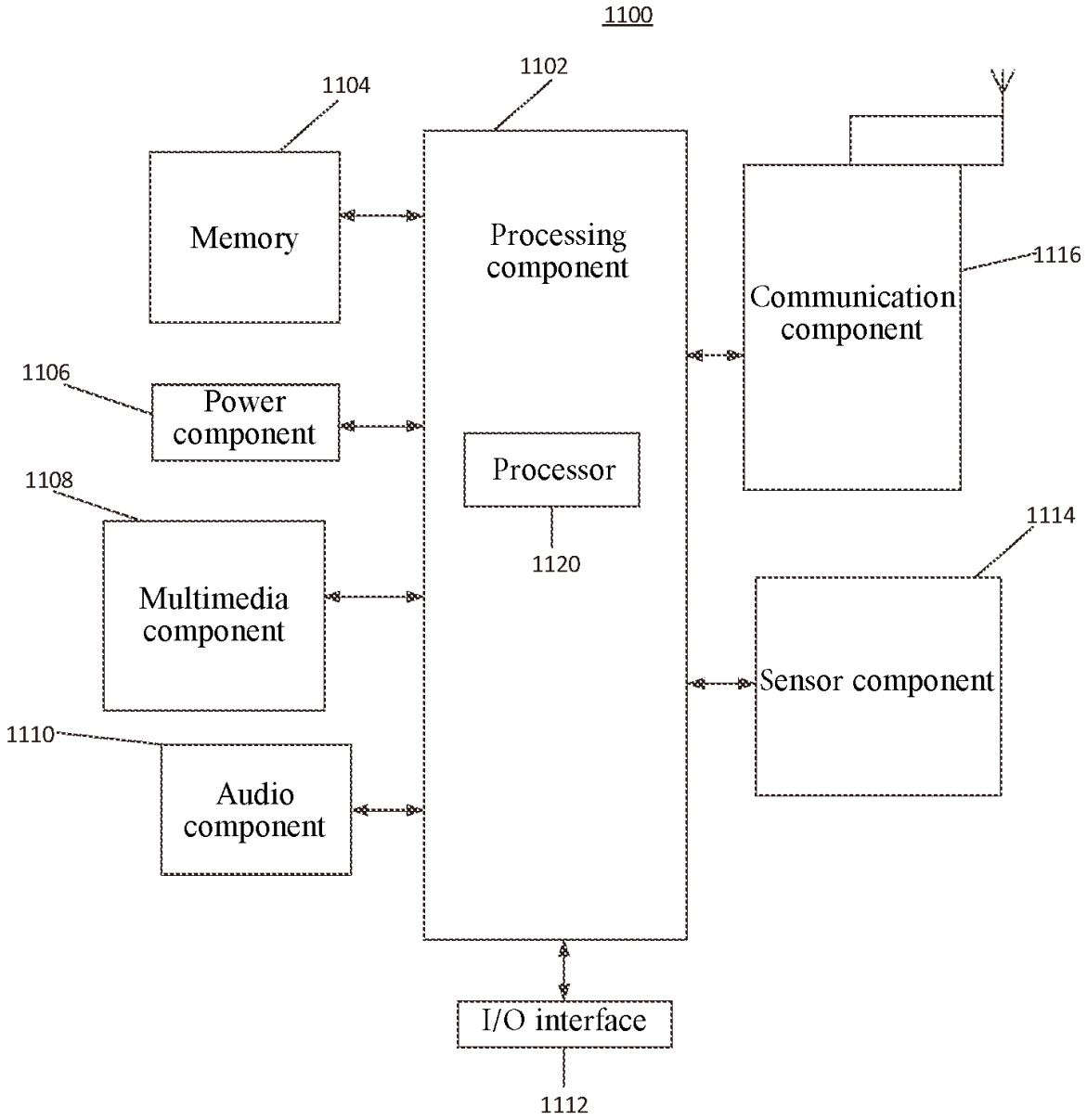
1100
1102
1104
Memory
Processing component
Communication component
1116
1106
Power component
Processor
1120
1108
Multimedia component
1114
Sensor component
1110
Audio component
I/O interface
1112

FIG. 11