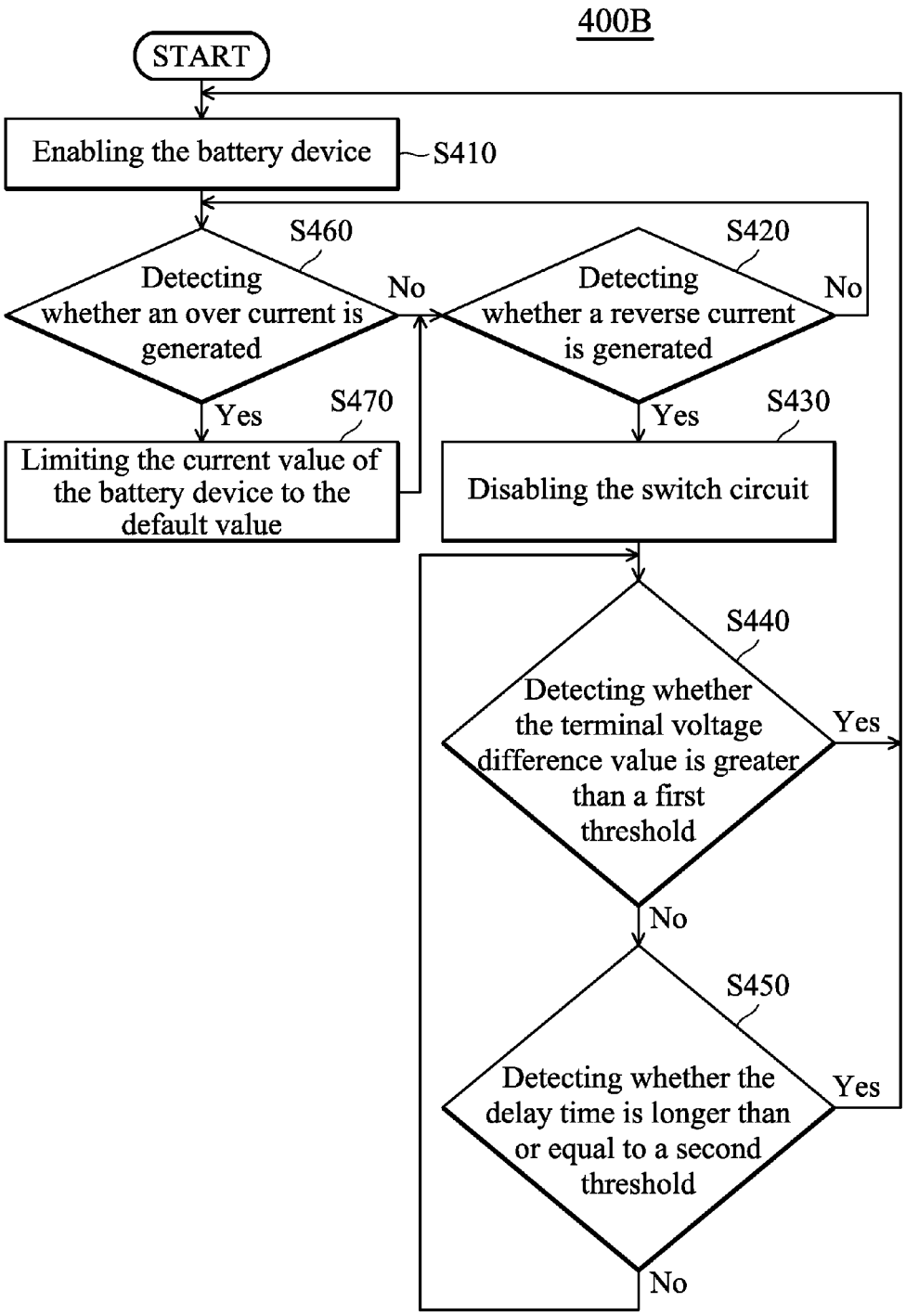
400B
START
Enabling the battery device
S410
S460
Detecting whether an over current is generated
No
S420
Detecting whether a reverse current is generated
No
Yes
S470
Limiting the current value of the battery device to the default value
Yes
S430
Disabling the switch circuit
S440
Detecting whether the terminal voltage difference value is greater than a first threshold
Yes
No
S450
Detecting whether the delay time is longer than or equal to a second threshold
Yes
No

FIG. 4B