FIG. 1

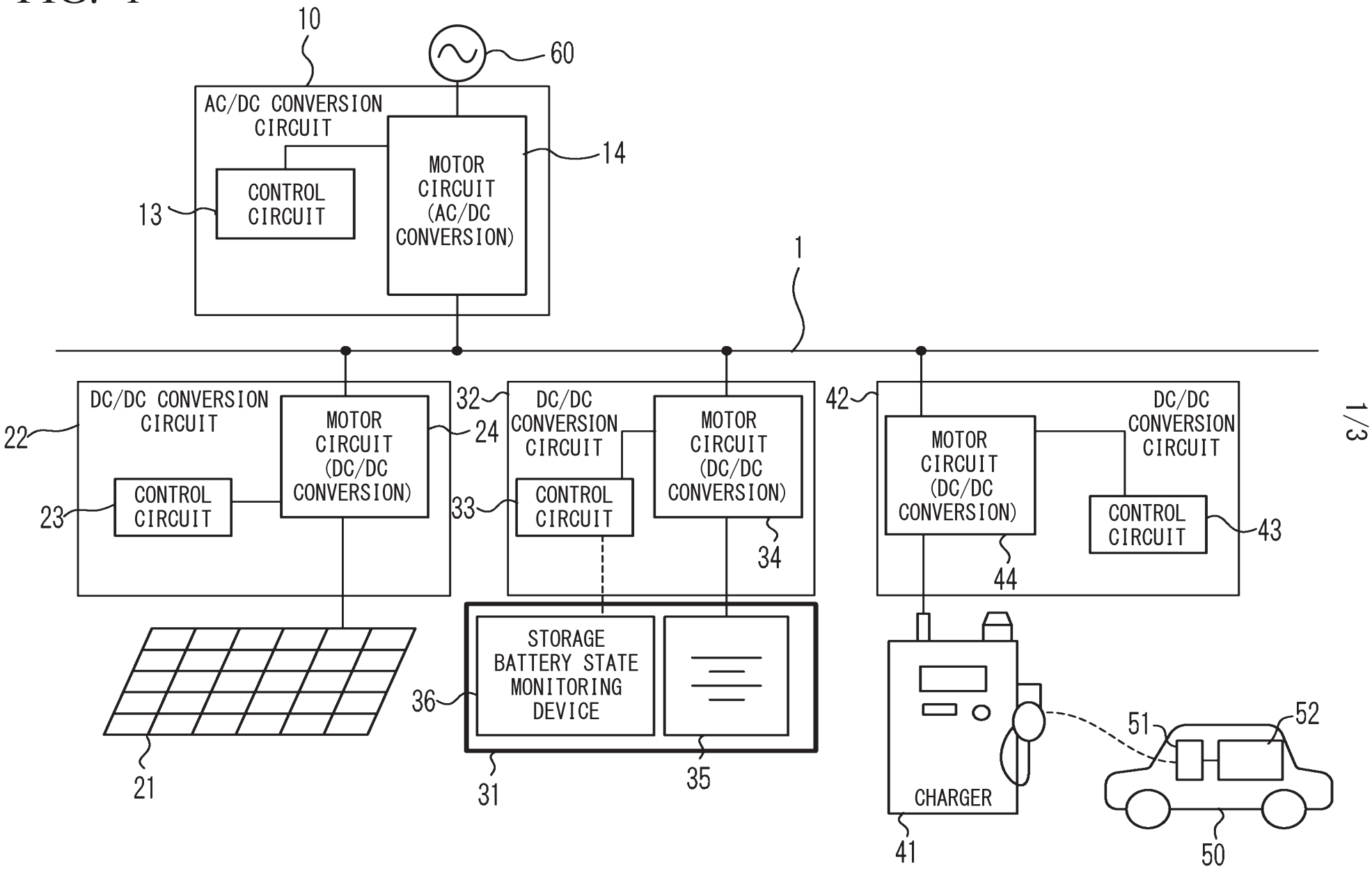

10
60
AC/DC CONVERSION CIRCUIT
14
MOTOR CIRCUIT (AC/DC CONVERSION)
13
CONTROL CIRCUIT
1
DC/DC CONVERSION CIRCUIT
22
MOTOR CIRCUIT (DC/DC CONVERSION)
24
CONTROL CIRCUIT
23
32
DC/DC CONVERSION CIRCUIT
MOTOR CIRCUIT (DC/DC CONVERSION)
34
CONTROL CIRCUIT
33
42
DC/DC CONVERSION CIRCUIT
MOTOR CIRCUIT (DC/DC CONVERSION)
44
CONTROL CIRCUIT
43
STORAGE BATTERY STATE MONITORING DEVICE
36
21
31
35
CHARGER
41
51
52
50

FIG. 2

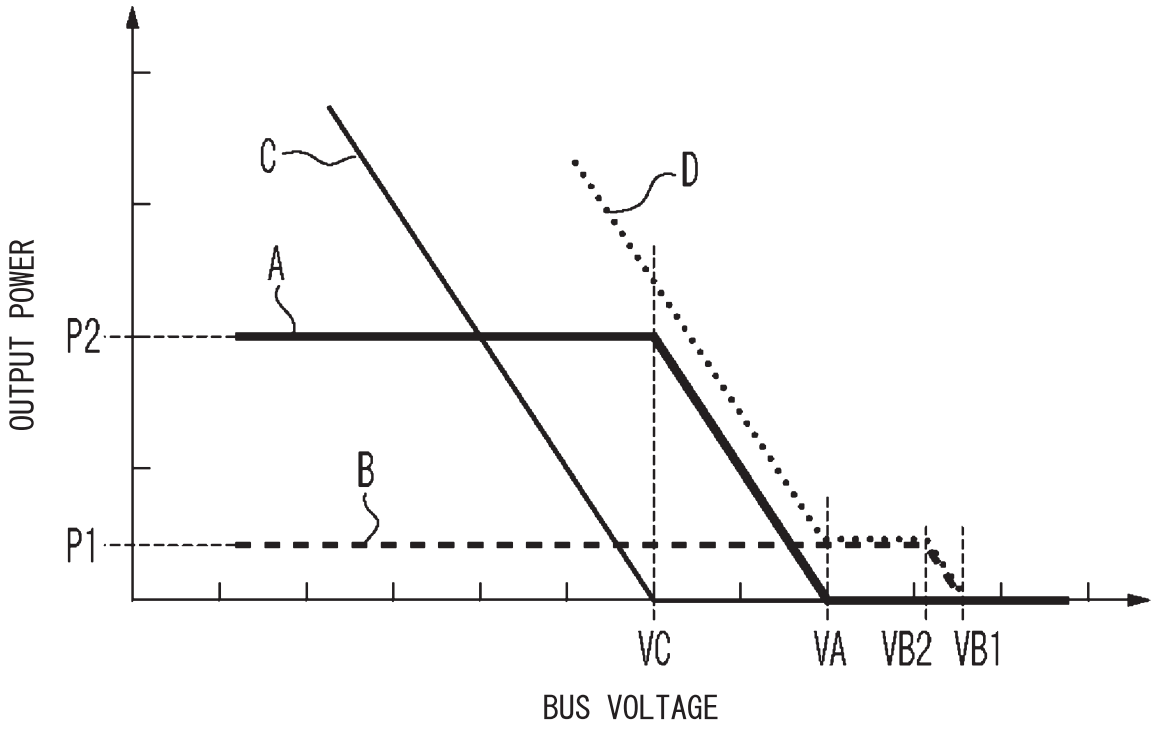
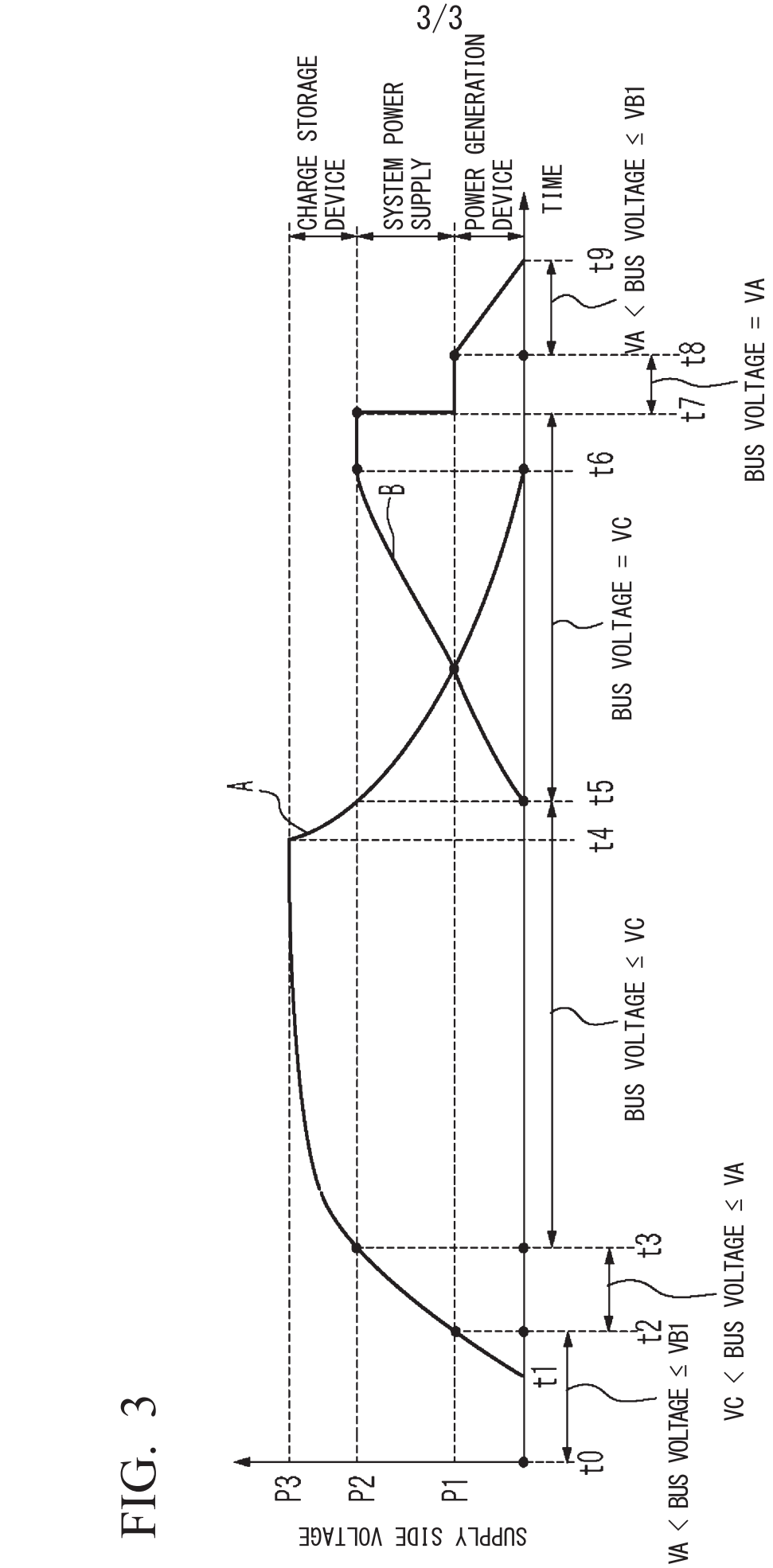


FIG. 3


CHARGE STORAGE DEVICE
SYSTEM POWER SUPPLY
POWER GENERATION DEVICE
TIME
SUPPLY SIDE VOLTAGE
P3
P2
P1
A
B
t0
t1
t2
t3
t4
t5
t6
t7
t8
t9
VA < BUS VOLTAGE ≤ VB1
VC < BUS VOLTAGE ≤ VA
BUS VOLTAGE ≤ VC
BUS VOLTAGE = VC
BUS VOLTAGE = VA
VA < BUS VOLTAGE ≤ VB1