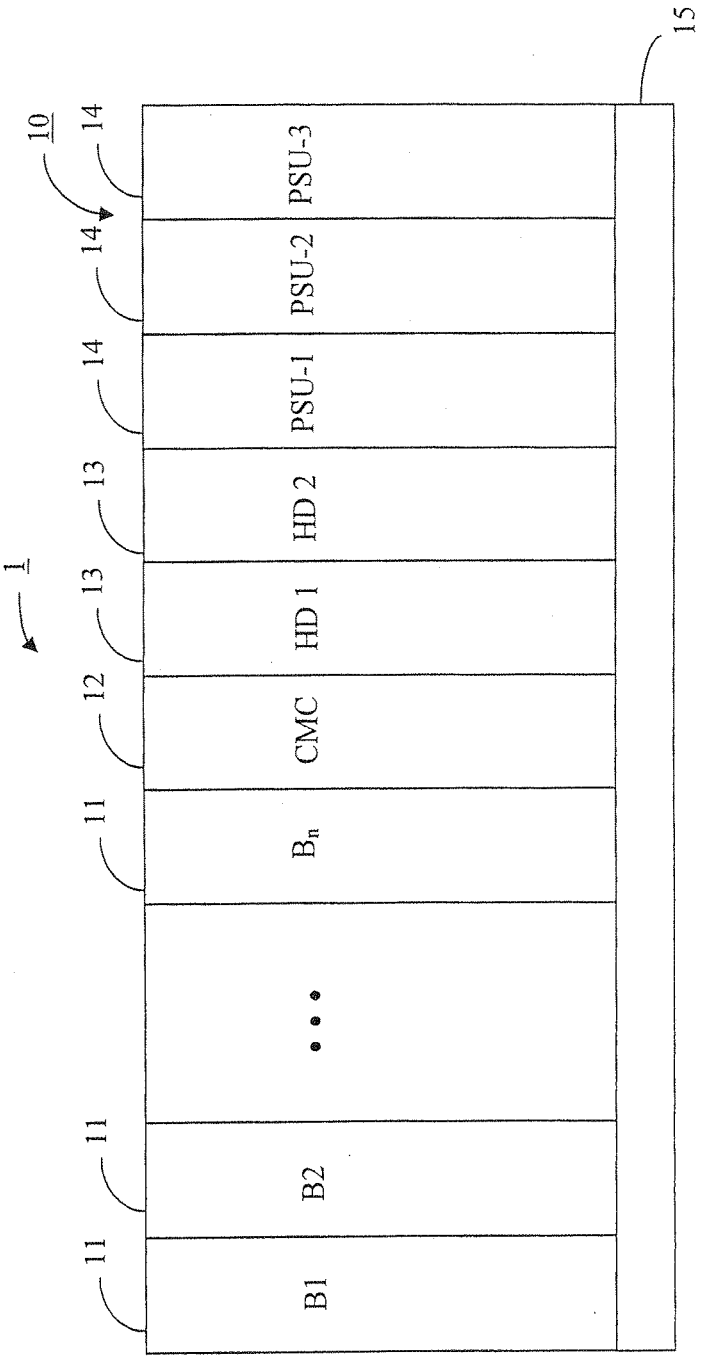

1
10
11
B1
11
B2
• • •
11
B_n
12
CMC
13
HD 1
13
HD 2
14
PSU-1
14
PSU-2
14
PSU-3
15

FIG. 1

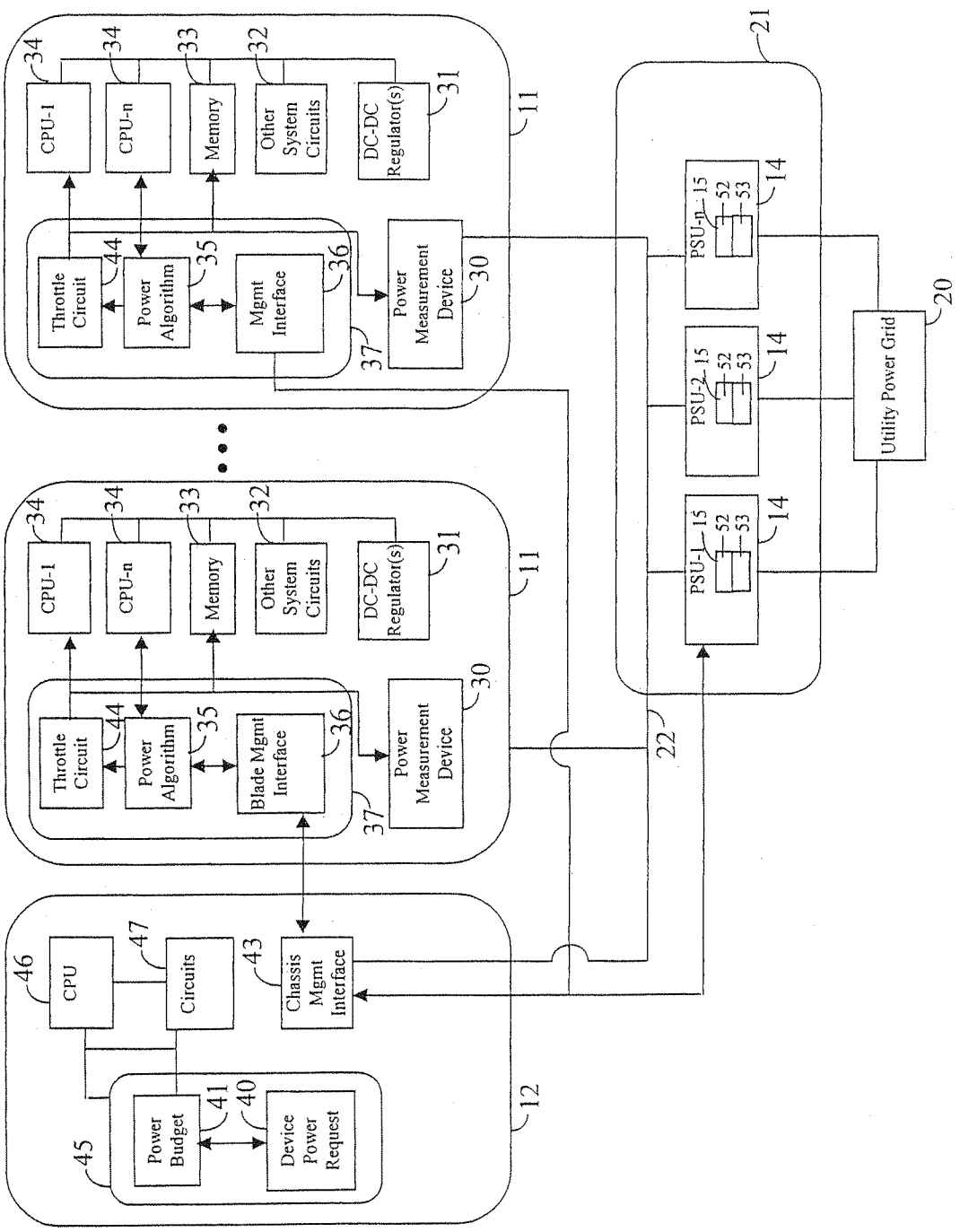

1
CPU-1
CPU-n
Memory
Other System Circuits
DC-DC Regulator(s)
Throttle Circuit
Power Algorithm
Mgmt Interface
Blade Mgmt Interface
Power Measurement Device
CPU
Circuits
Chassis Mgmt Interface
Power Budget
Device Power Request
PSU-1
PSU-2
PSU-n
Utility Power Grid
11
12
14
15
20
21
22
30
31
32
33
34
35
36
37
40
41
43
44
45
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53

FIG. 2

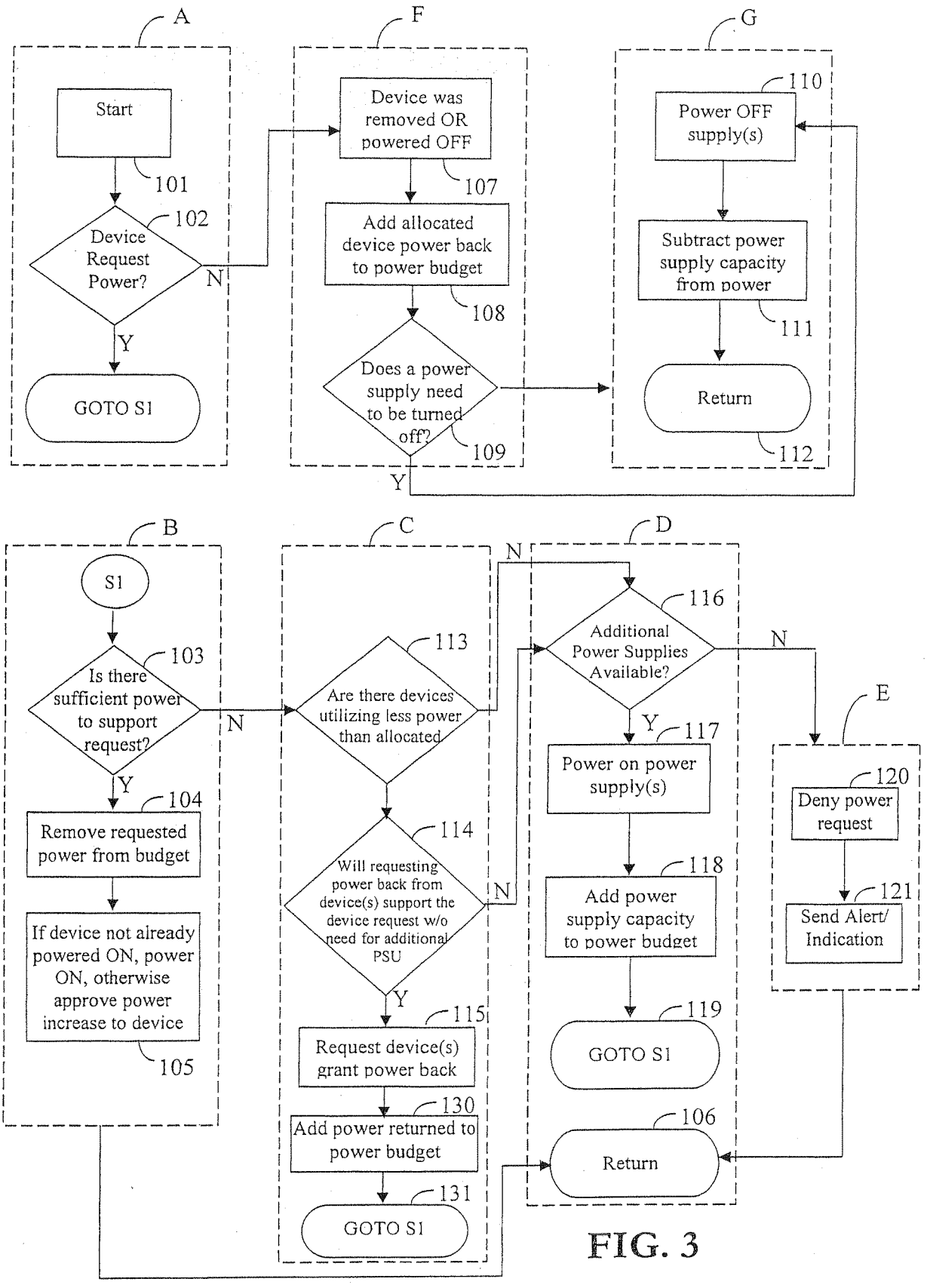

A
Start
101
Device Request Power?
102
N
Y
GOTO S1
F
Device was removed OR powered OFF
107
Add allocated device power back to power budget
108
Does a power supply need to be turned off?
109
Y
G
110
Power OFF supply(s)
Subtract power supply capacity from power
111
Return
112
B
S1
Is there sufficient power to support request?
103
N
Y
Remove requested power from budget
104
If device not already powered ON, power ON, otherwise approve power increase to device
105
C
Are there devices utilizing less power than allocated
113
N
Will requesting power back from device(s) support the device request w/o need for additional PSU
114
N
Y
Request device(s) grant power back
115
Add power returned to power budget
130
GOTO S1
131
D
Additional Power Supplies Available?
116
N
Y
Power on power supply(s)
117
Add power supply capacity to power budget
118
GOTO S1
119
Return
106
E
Deny power request
120
Send Alert/ Indication
121

FIG. 3