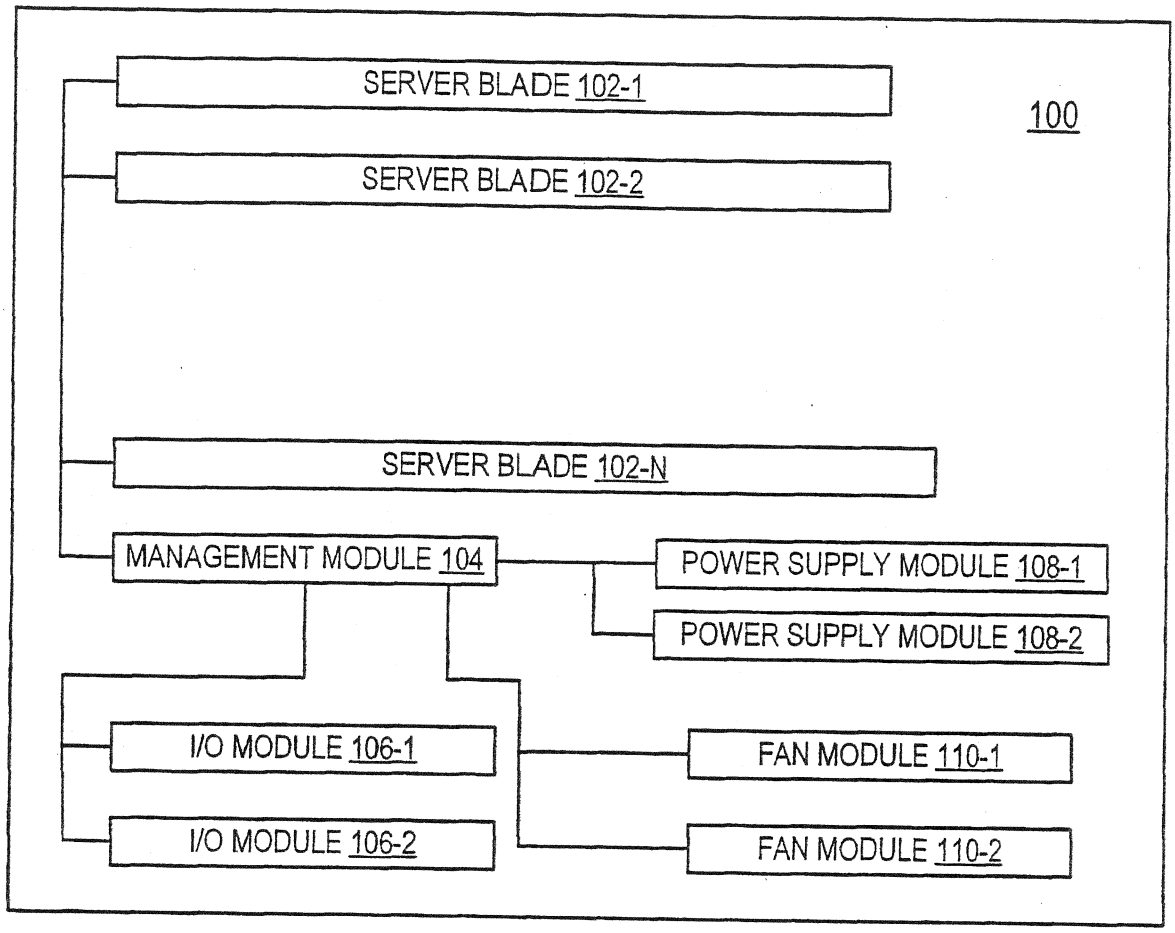

SERVER BLADE 102-1
100
SERVER BLADE 102-2
SERVER BLADE 102-N
MANAGEMENT MODULE 104
POWER SUPPLY MODULE 108-1
POWER SUPPLY MODULE 108-2
I/O MODULE 106-1
FAN MODULE 110-1
I/O MODULE 106-2
FAN MODULE 110-2

FIG. 1

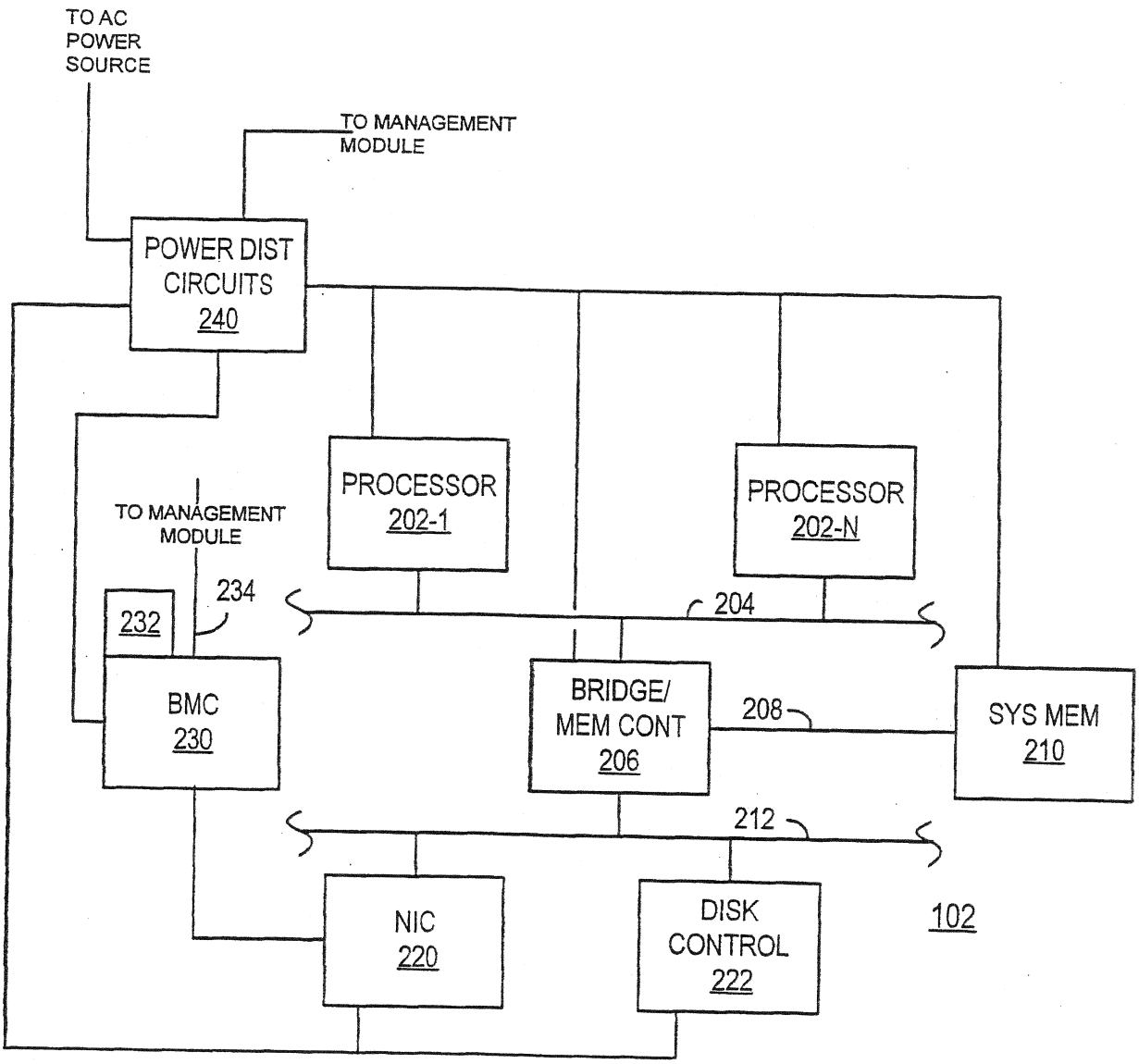
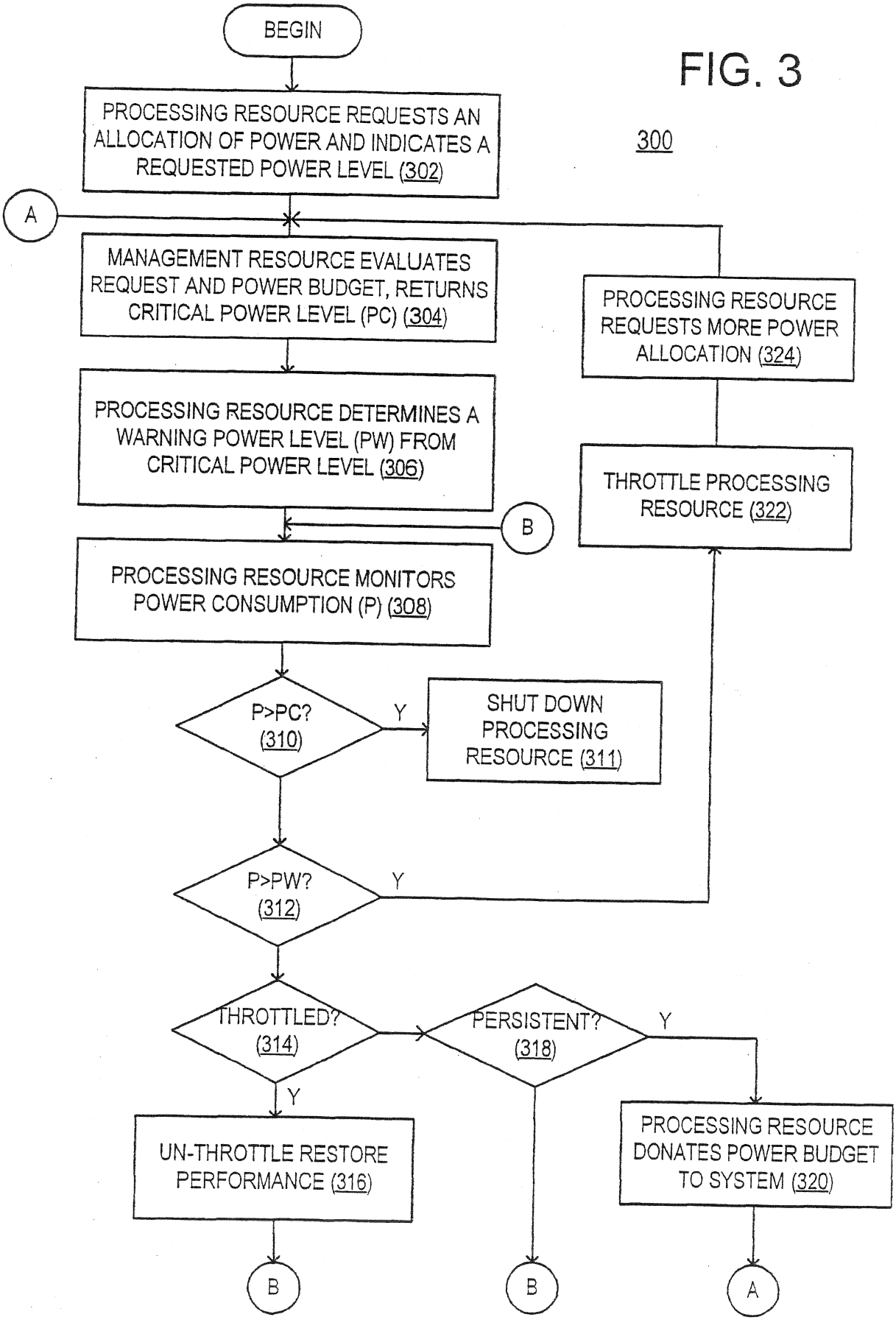

TO AC POWER SOURCE
TO MANAGEMENT MODULE
POWER DIST CIRCUITS 240
PROCESSOR 202-1
PROCESSOR 202-N
TO MANAGEMENT MODULE
234
232
204
BMC 230
BRIDGE/ MEM CONT 206
208
SYS MEM 210
212
NIC 220
DISK CONTROL 222
102

FIG. 2

FIG. 3


BEGIN
PROCESSING RESOURCE REQUESTS AN ALLOCATION OF POWER AND INDICATES A REQUESTED POWER LEVEL (302)
300
A
MANAGEMENT RESOURCE EVALUATES REQUEST AND POWER BUDGET, RETURNS CRITICAL POWER LEVEL (PC) (304)
PROCESSING RESOURCE REQUESTS MORE POWER ALLOCATION (324)
PROCESSING RESOURCE DETERMINES A WARNING POWER LEVEL (PW) FROM CRITICAL POWER LEVEL (306)
THROTTLE PROCESSING RESOURCE (322)
B
PROCESSING RESOURCE MONITORS POWER CONSUMPTION (P) (308)
P>PC? (310)
Y
SHUT DOWN PROCESSING RESOURCE (311)
P>PW? (312)
Y
THROTTLED? (314)
PERSISTENT? (318)
Y
Y
UN-THROTTLE RESTORE PERFORMANCE (316)
PROCESSING RESOURCE DONATES POWER BUDGET TO SYSTEM (320)
B
B
A