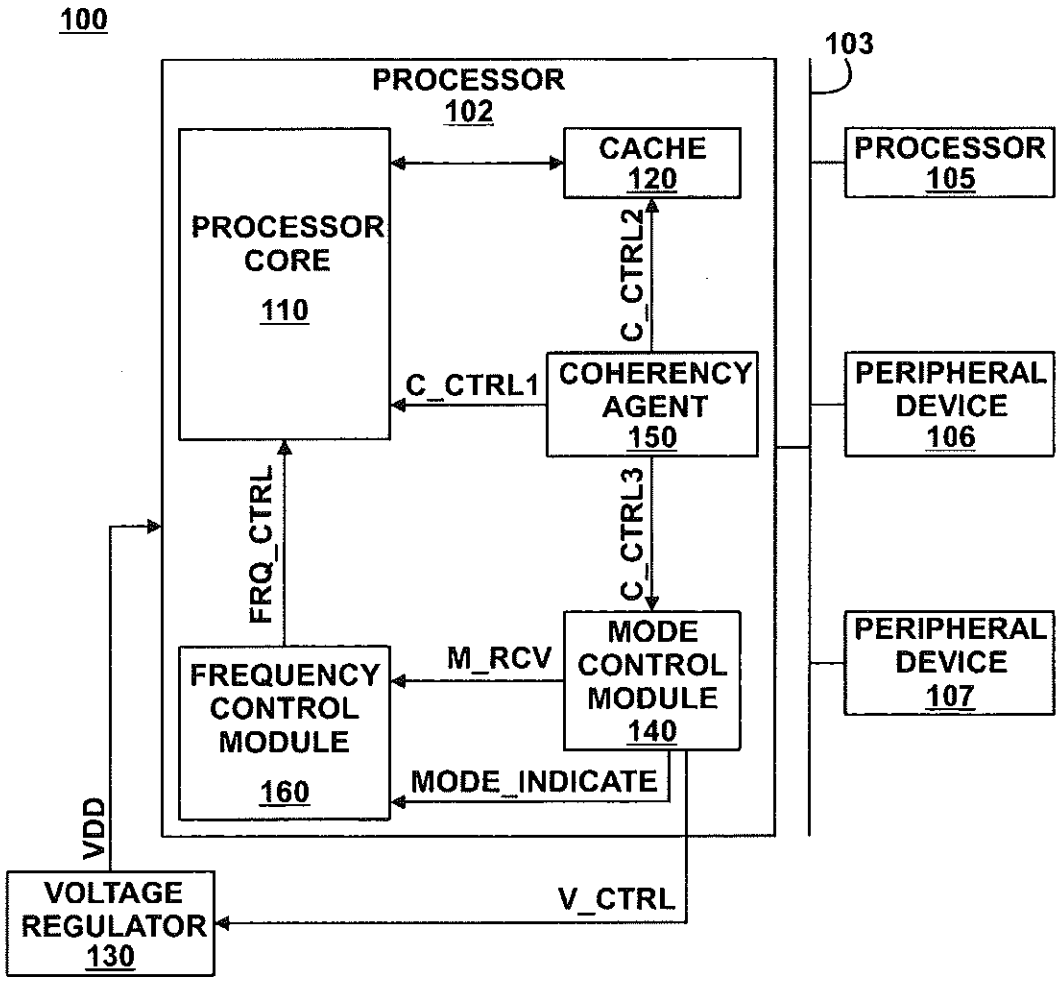

100
103
PROCESSOR
102
CACHE
120
PROCESSOR
105
PROCESSOR
CORE
110
C_CTRL2
C_CTRL1
COHERENCY
AGENT
150
PERIPHERAL
DEVICE
106
FRQ_CTRL
C_CTRL3
MODE
CONTROL
MODULE
140
PERIPHERAL
DEVICE
107
M_RCV
FREQUENCY
CONTROL
MODULE
160
MODE_INDICATE
VDD
VOLTAGE
REGULATOR
130
V_CTRL

FIG. 1

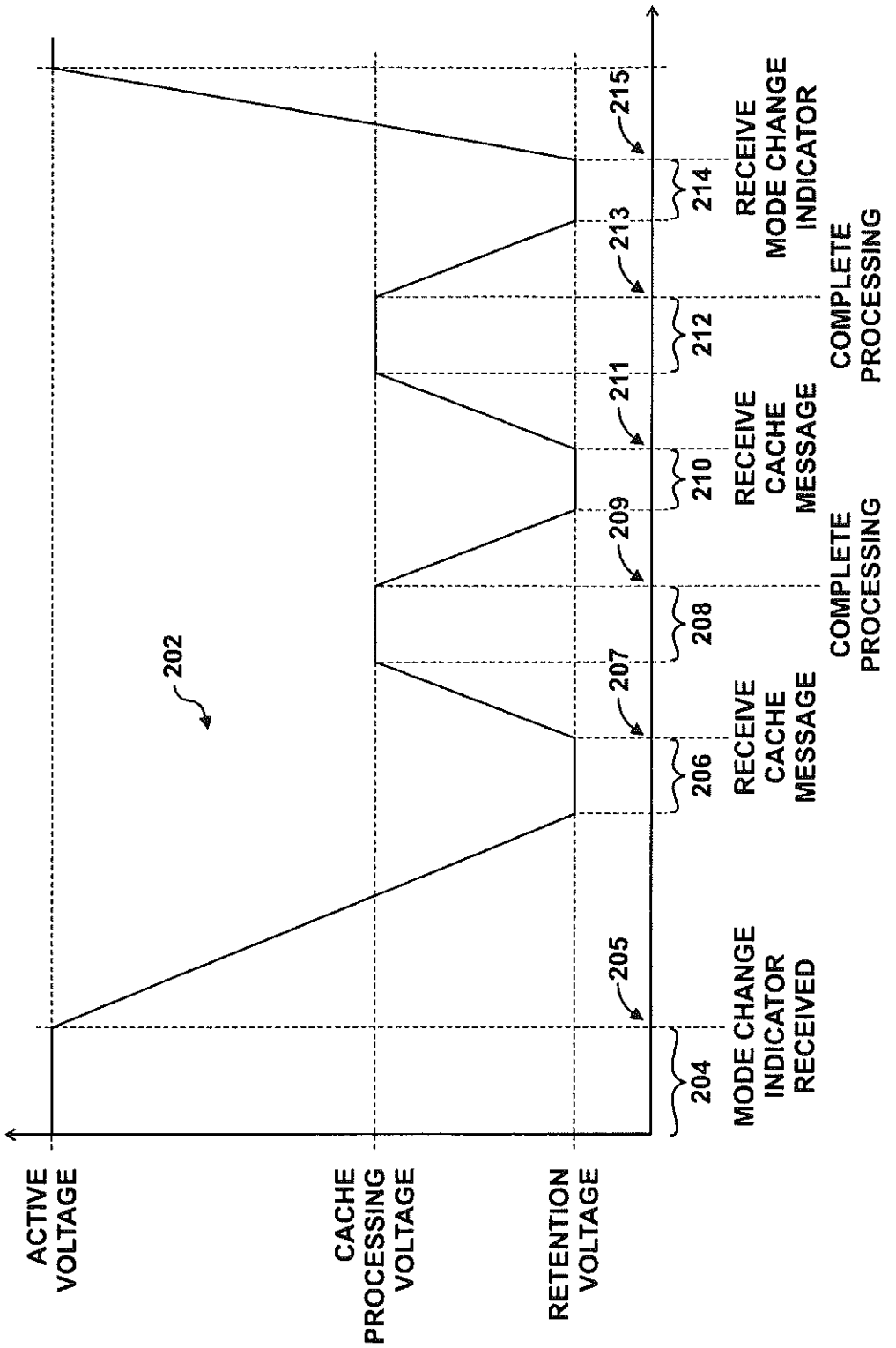

ACTIVE VOLTAGE
CACHE PROCESSING VOLTAGE
RETENTION VOLTAGE
202
204
MODE CHANGE INDICATOR RECEIVED
205
206
RECEIVE CACHE MESSAGE
207
208
COMPLETE PROCESSING
209
210
RECEIVE CACHE MESSAGE
211
212
COMPLETE PROCESSING
213
214
RECEIVE MODE CHANGE INDICATOR
215

FIG. 2

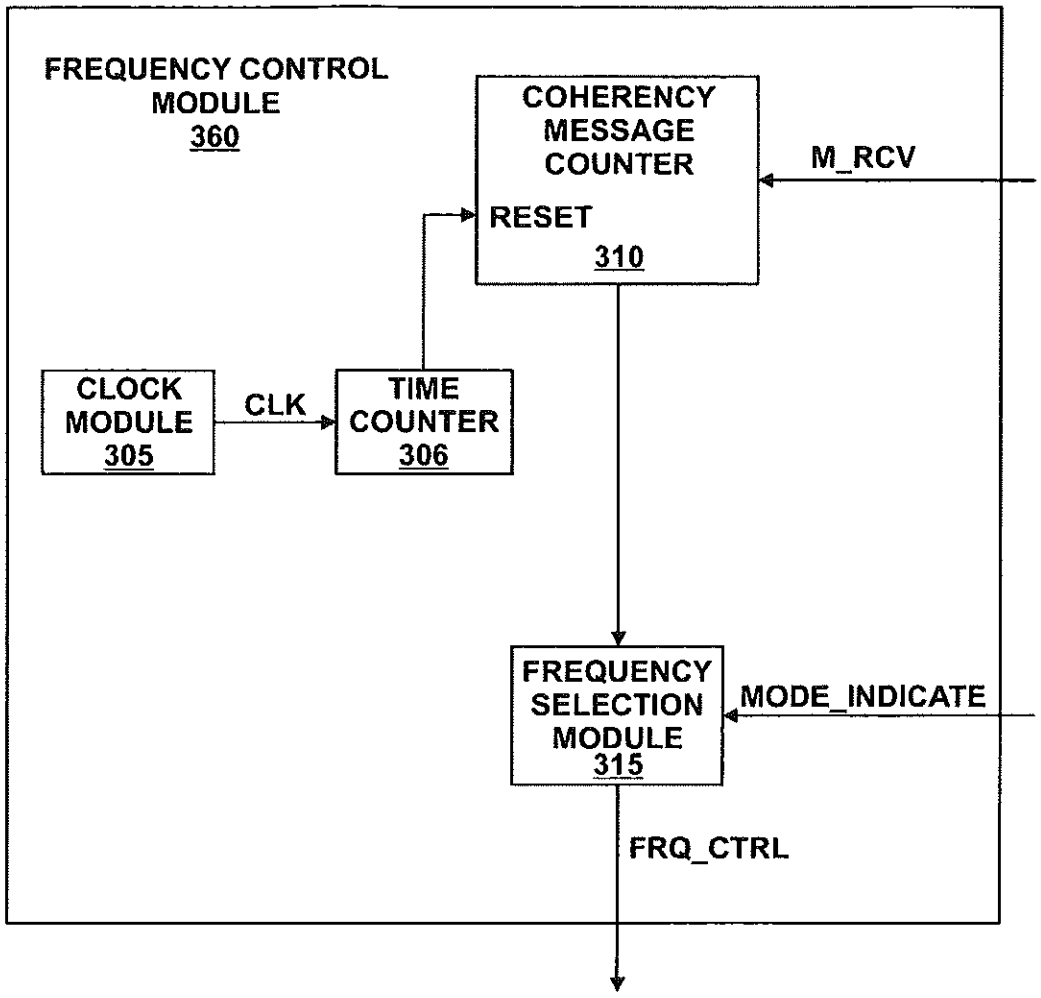

FREQUENCY CONTROL MODULE
360
COHERENCY MESSAGE COUNTER
RESET
310
M_RCV
CLOCK MODULE
305
CLK
TIME COUNTER
306
FREQUENCY SELECTION MODULE
315
MODE_INDICATE
FRQ_CTRL

FIG. 3

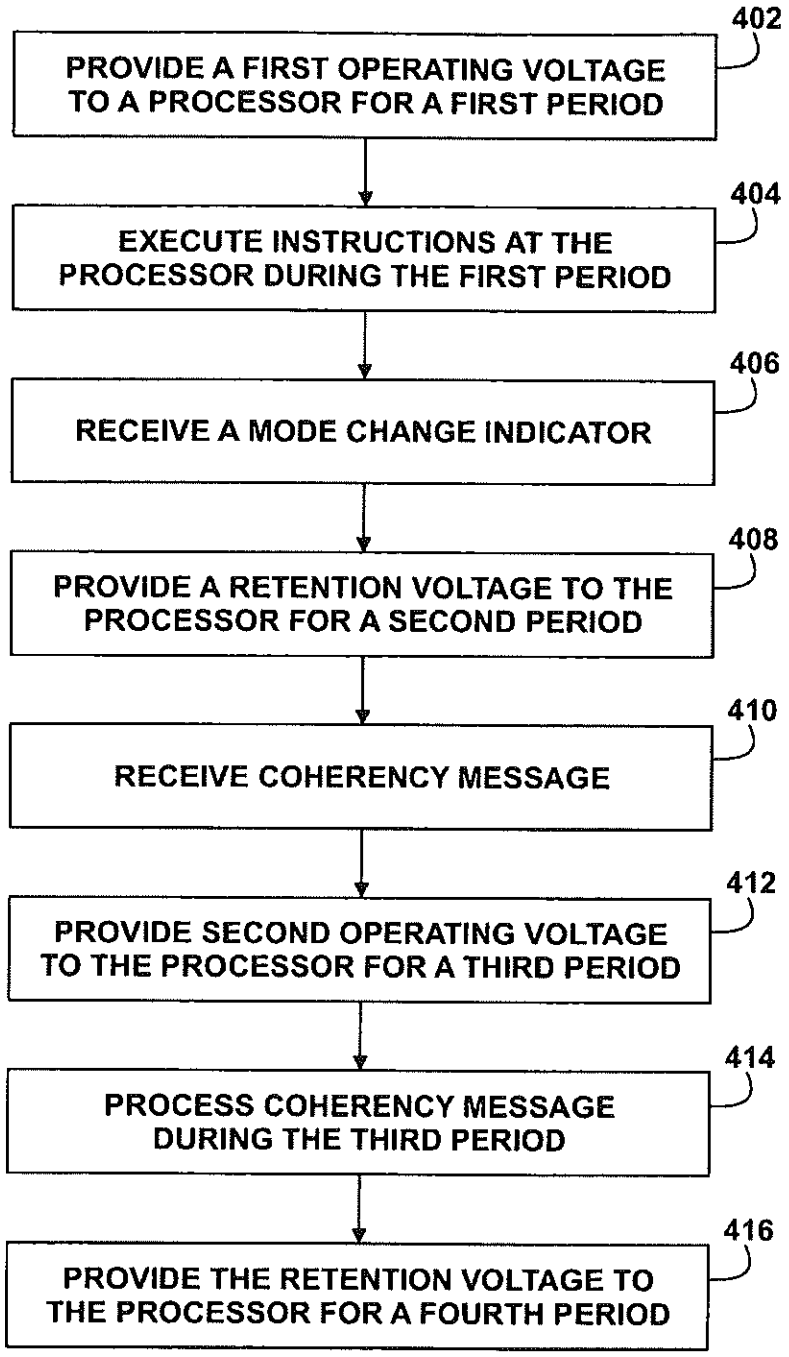

402
PROVIDE A FIRST OPERATING VOLTAGE TO A PROCESSOR FOR A FIRST PERIOD
404
EXECUTE INSTRUCTIONS AT THE PROCESSOR DURING THE FIRST PERIOD
406
RECEIVE A MODE CHANGE INDICATOR
408
PROVIDE A RETENTION VOLTAGE TO THE PROCESSOR FOR A SECOND PERIOD
410
RECEIVE COHERENCY MESSAGE
412
PROVIDE SECOND OPERATING VOLTAGE TO THE PROCESSOR FOR A THIRD PERIOD
414
PROCESS COHERENCY MESSAGE DURING THE THIRD PERIOD
416
PROVIDE THE RETENTION VOLTAGE TO THE PROCESSOR FOR A FOURTH PERIOD

FIG. 4

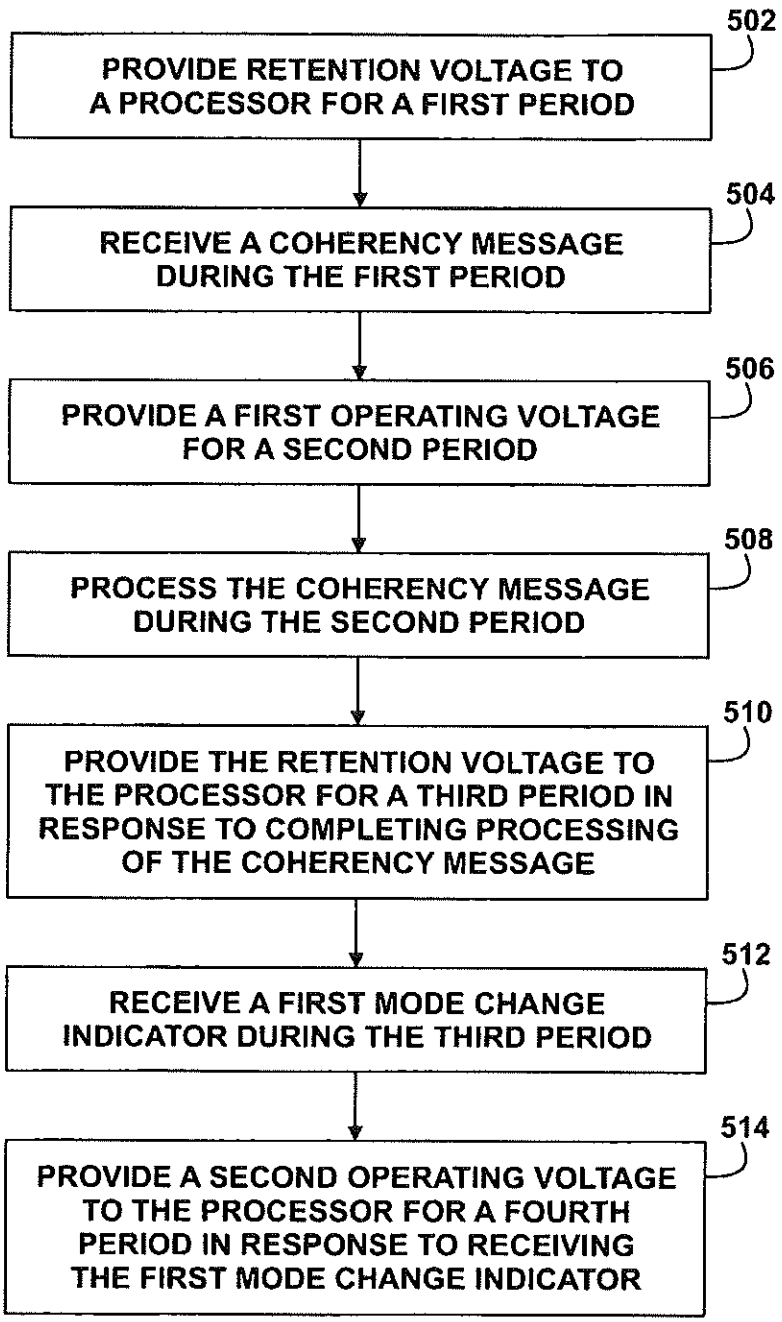

502
PROVIDE RETENTION VOLTAGE TO A PROCESSOR FOR A FIRST PERIOD
504
RECEIVE A COHERENCY MESSAGE DURING THE FIRST PERIOD
506
PROVIDE A FIRST OPERATING VOLTAGE FOR A SECOND PERIOD
508
PROCESS THE COHERENCY MESSAGE DURING THE SECOND PERIOD
510
PROVIDE THE RETENTION VOLTAGE TO THE PROCESSOR FOR A THIRD PERIOD IN RESPONSE TO COMPLETING PROCESSING OF THE COHERENCY MESSAGE
512
RECEIVE A FIRST MODE CHANGE INDICATOR DURING THE THIRD PERIOD
514
PROVIDE A SECOND OPERATING VOLTAGE TO THE PROCESSOR FOR A FOURTH PERIOD IN RESPONSE TO RECEIVING THE FIRST MODE CHANGE INDICATOR

FIG. 5