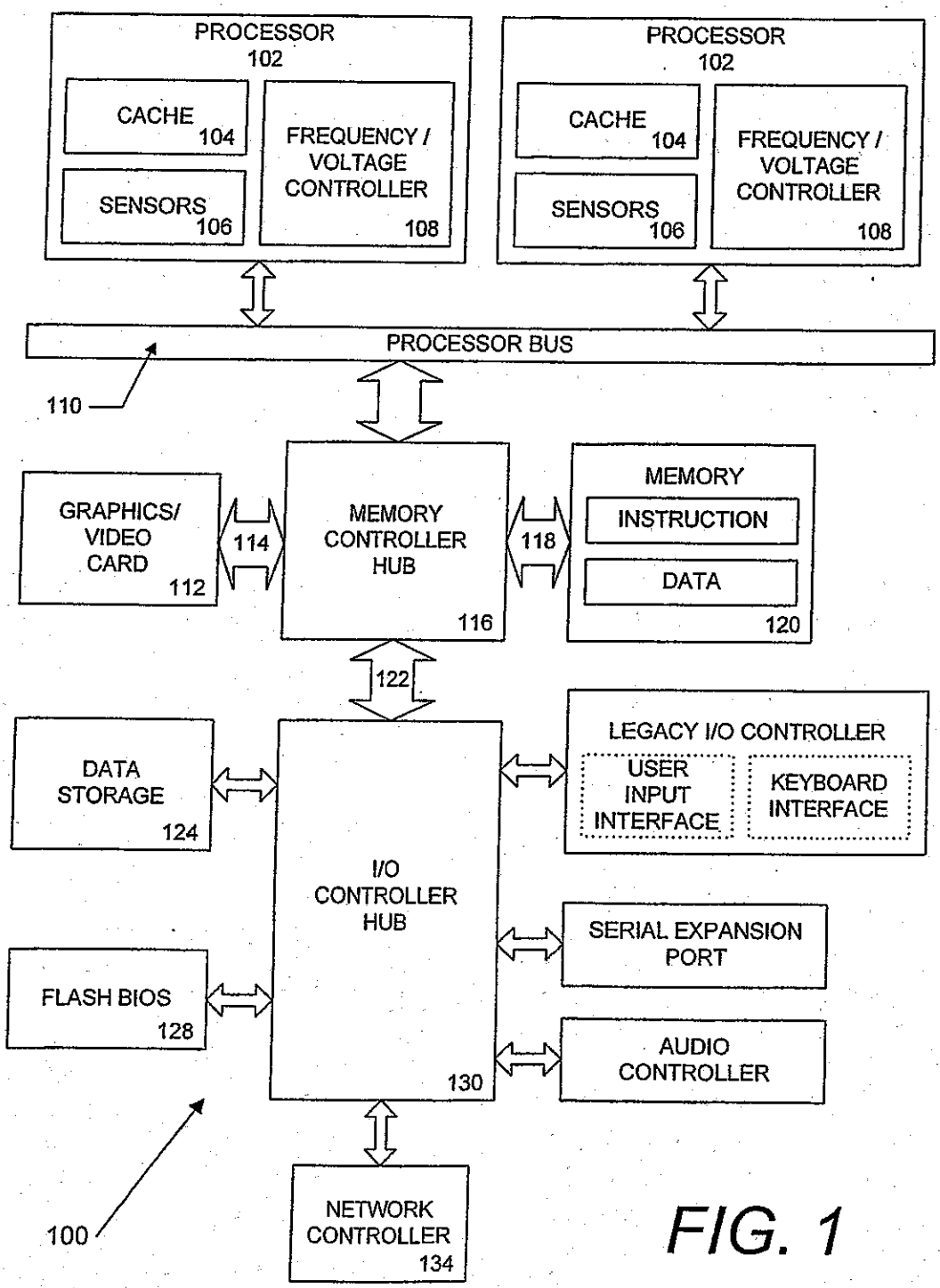

PROCESSOR
102
CACHE
104
FREQUENCY / VOLTAGE CONTROLLER
108
SENSORS
106
PROCESSOR
102
CACHE
104
FREQUENCY / VOLTAGE CONTROLLER
108
SENSORS
106
PROCESSOR BUS
110
GRAPHICS/ VIDEO CARD
112
114
MEMORY CONTROLLER HUB
116
118
MEMORY
INSTRUCTION
DATA
120
122
DATA STORAGE
124
I/O CONTROLLER HUB
130
LEGACY I/O CONTROLLER
USER INPUT INTERFACE
KEYBOARD INTERFACE
SERIAL EXPANSION PORT
AUDIO CONTROLLER
FLASH BIOS
128
NETWORK CONTROLLER
134
100

FIG. 1

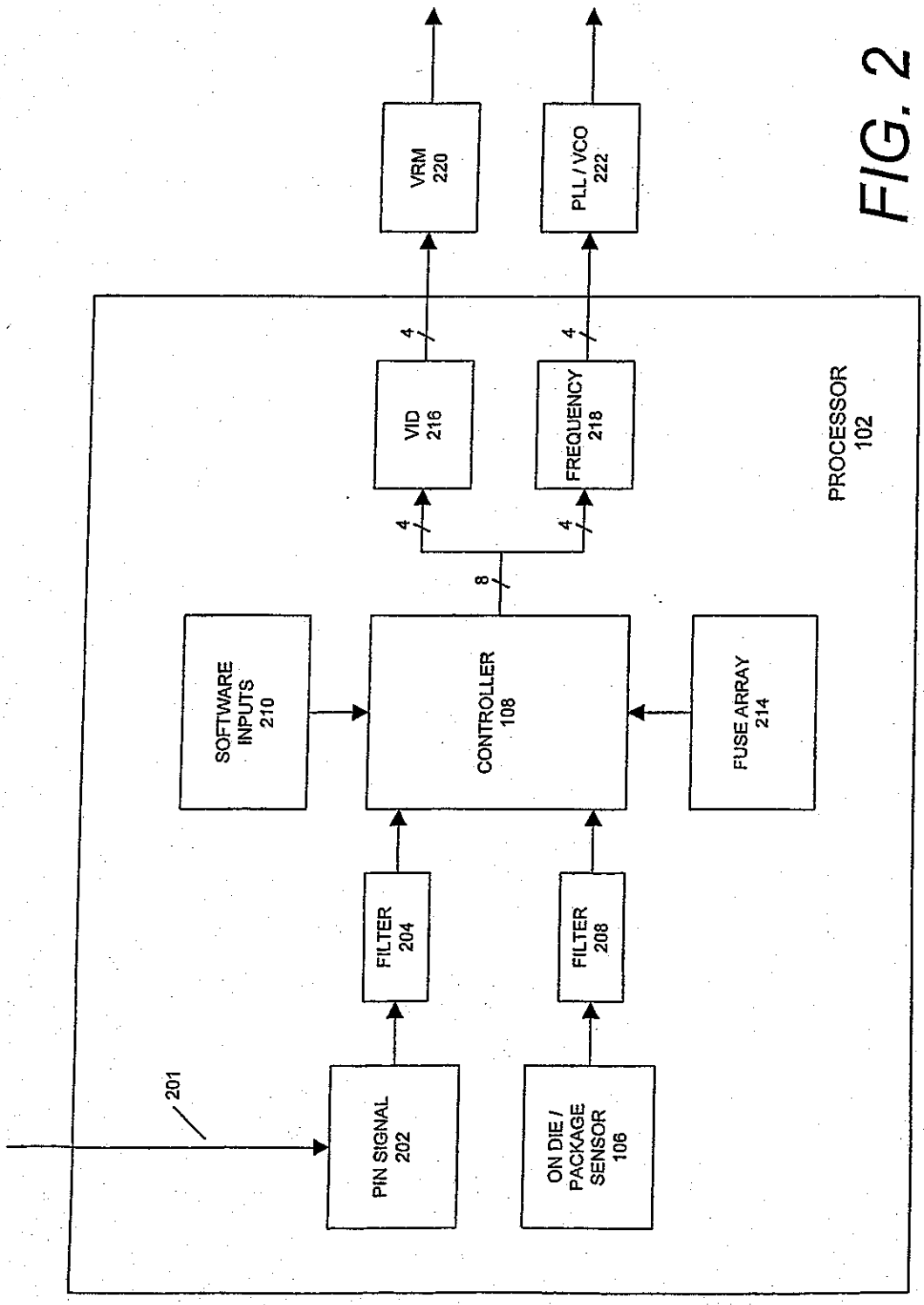
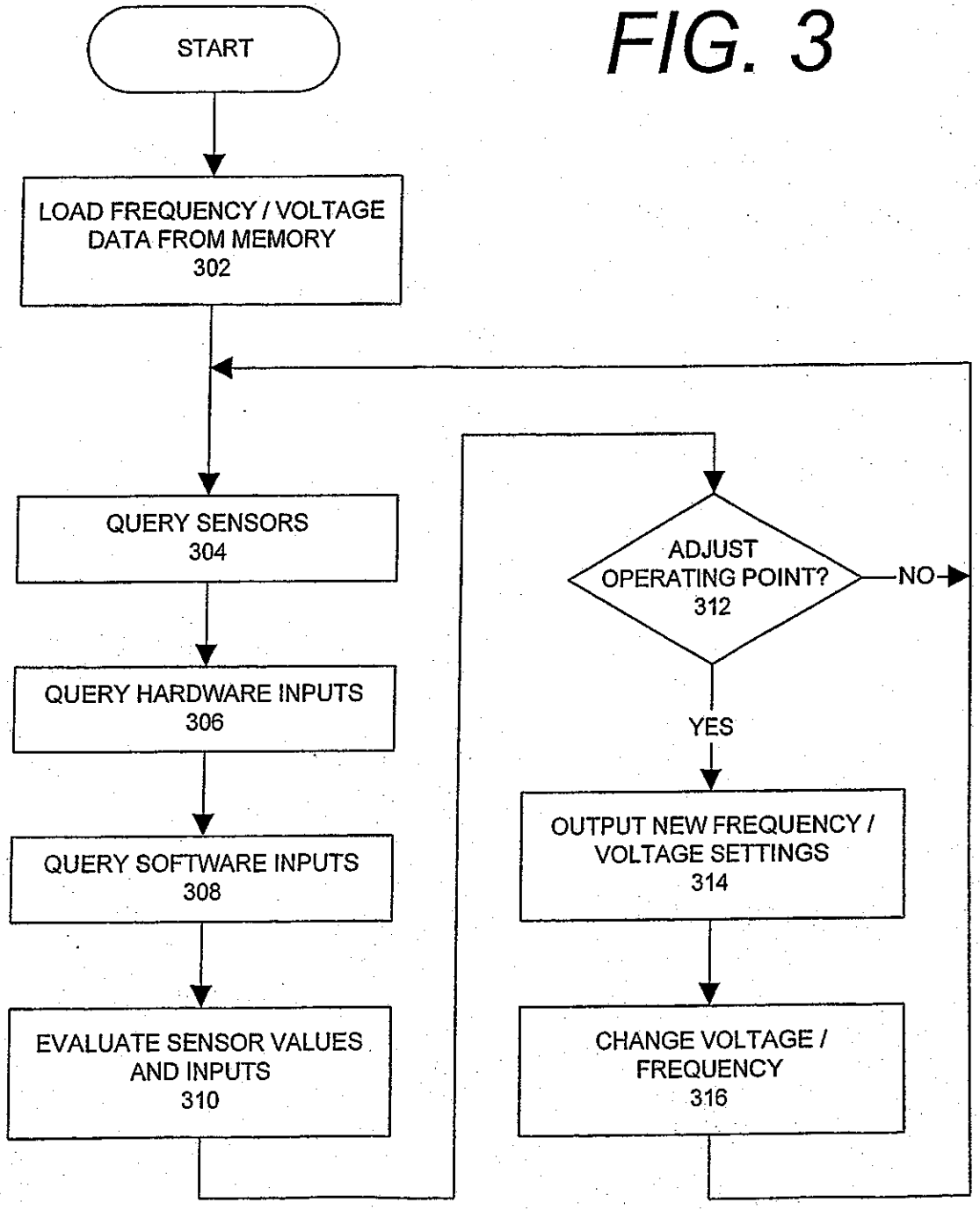

VRM
220
PLL / VCO
222
4
4
VID
216
FREQUENCY
218
4
4
8
PROCESSOR
102
SOFTWARE
INPUTS
210
CONTROLLER
108
FUSE ARRAY
214
FILTER
204
FILTER
208
201
PIN SIGNAL
202
ON DIE /
PACKAGE
SENSOR
106

FIG. 2

FIG. 3


START
LOAD FREQUENCY / VOLTAGE DATA FROM MEMORY 302
QUERY SENSORS 304
QUERY HARDWARE INPUTS 306
QUERY SOFTWARE INPUTS 308
EVALUATE SENSOR VALUES AND INPUTS 310
ADJUST OPERATING POINT? 312
NO
YES
OUTPUT NEW FREQUENCY / VOLTAGE SETTINGS 314
CHANGE VOLTAGE / FREQUENCY 316