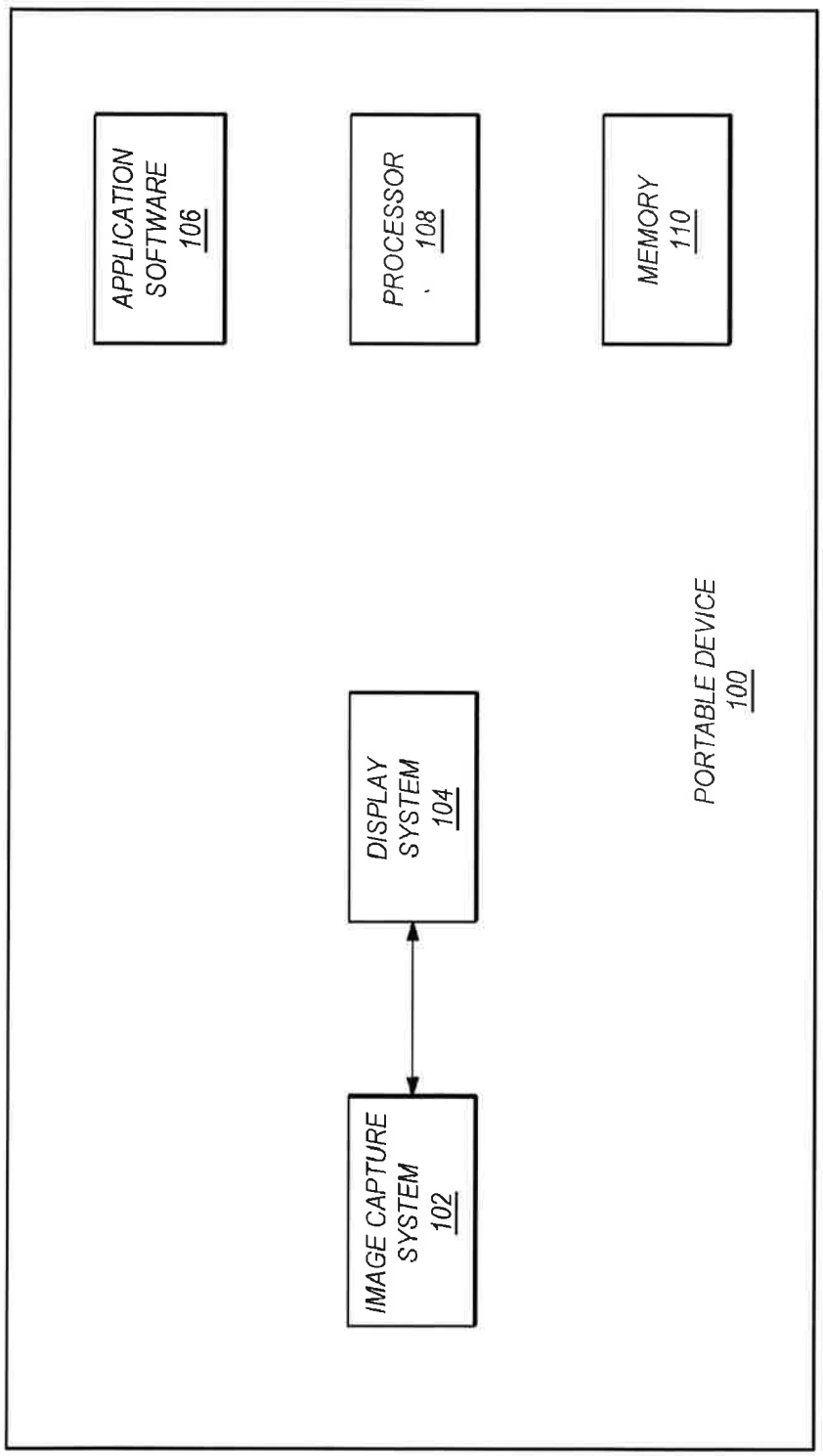

APPLICATION SOFTWARE 106
PROCESSOR 108
MEMORY 110
DISPLAY SYSTEM 104
IMAGE CAPTURE SYSTEM 102
PORTABLE DEVICE 100

FIG. 1

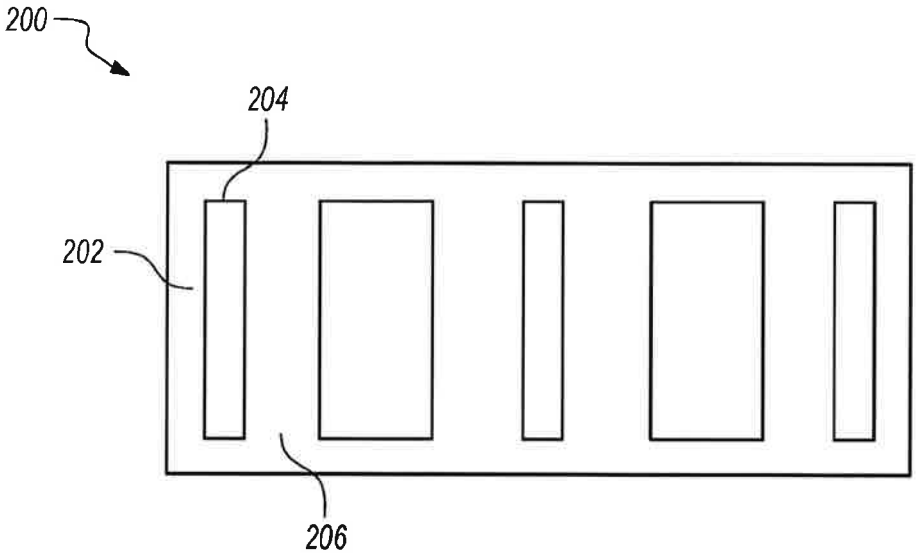


FIG. 2

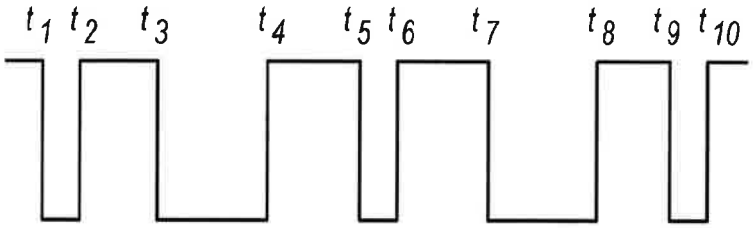


FIG. 3

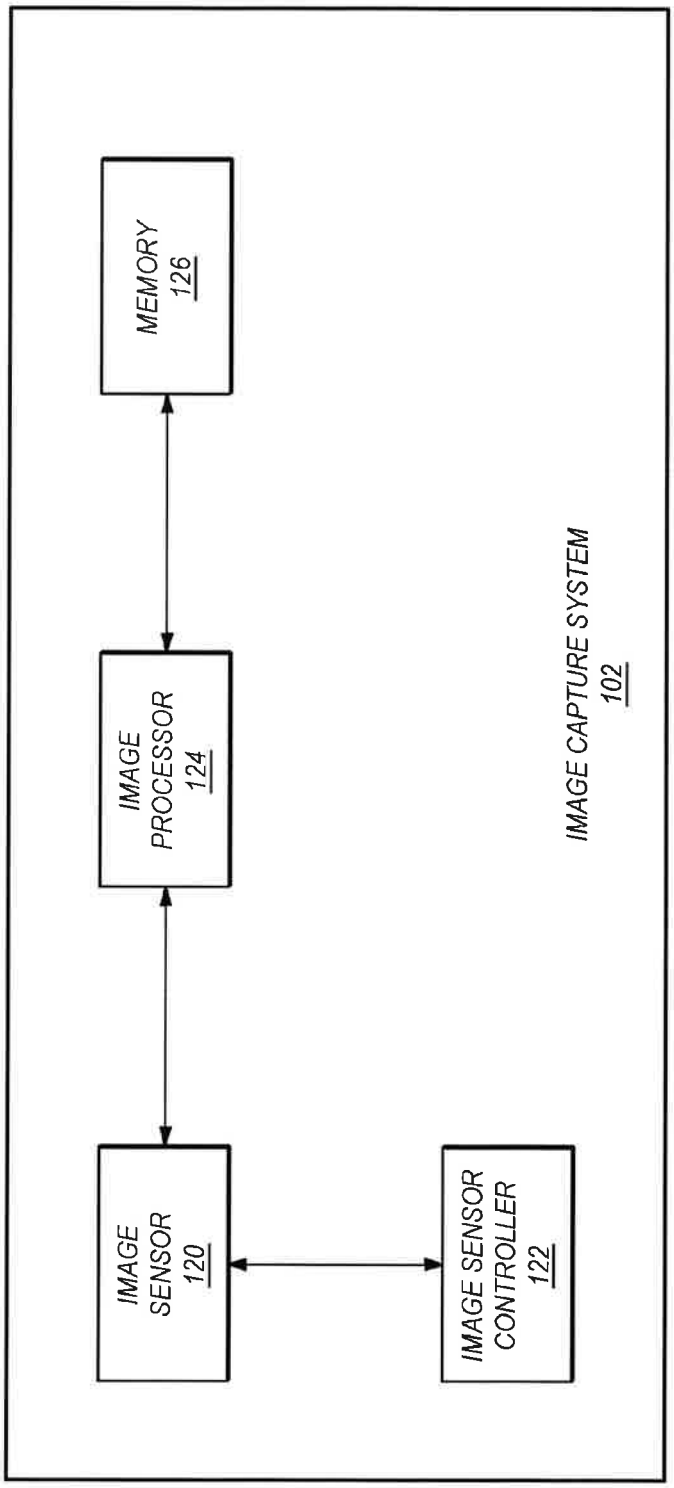

MEMORY
126
IMAGE
PROCESSOR
124
IMAGE SENSOR
120
IMAGE SENSOR
CONTROLLER
122
IMAGE CAPTURE SYSTEM
102

FIG. 4

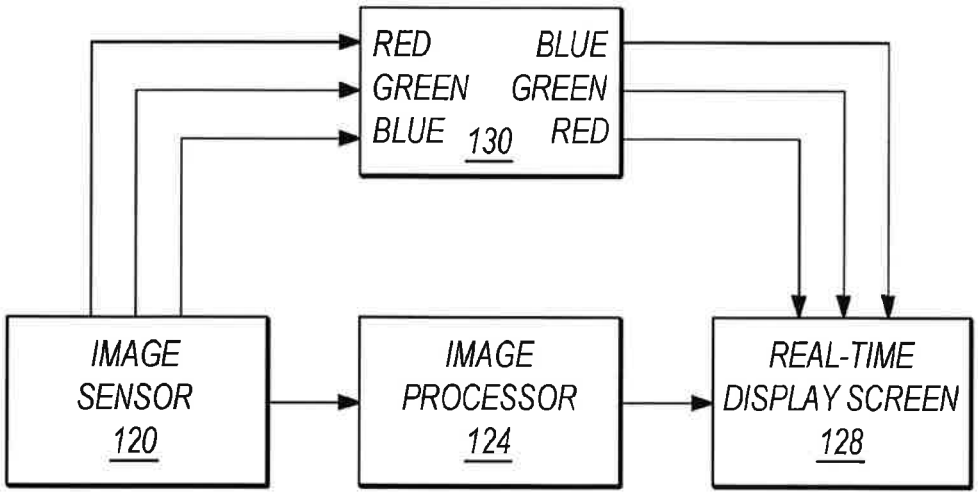

RED
GREEN
BLUE
130
BLUE
GREEN
RED
IMAGE SENSOR
120
IMAGE PROCESSOR
124
REAL-TIME DISPLAY SCREEN
128

FIG. 5

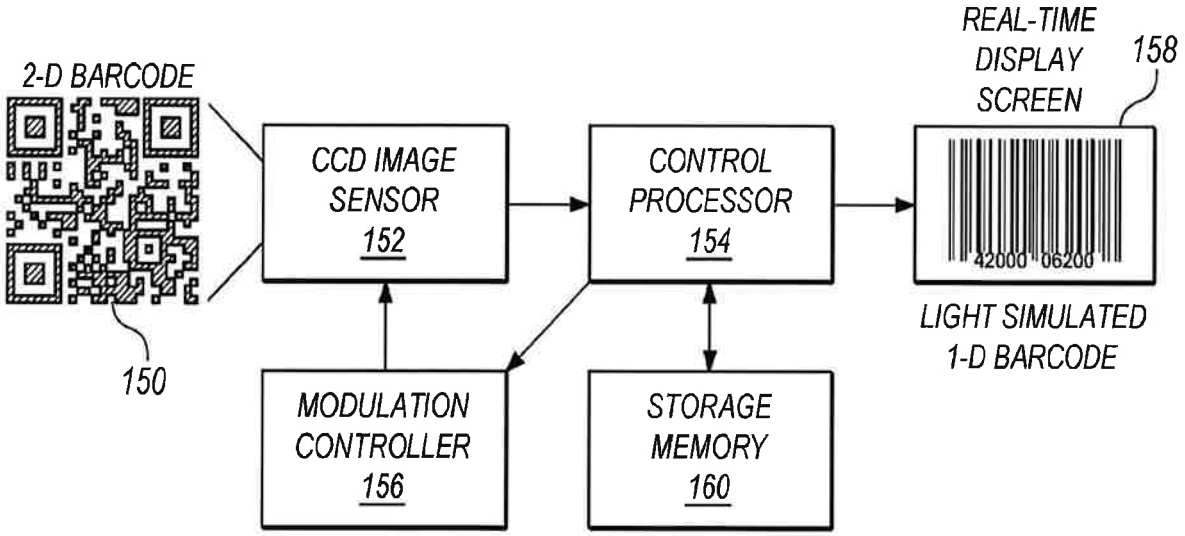

2-D BARCODE
150
CCD IMAGE SENSOR
152
CONTROL PROCESSOR
154
REAL-TIME DISPLAY SCREEN
158
42000 06200
LIGHT SIMULATED 1-D BARCODE
MODULATION CONTROLLER
156
STORAGE MEMORY
160

FIG. 6