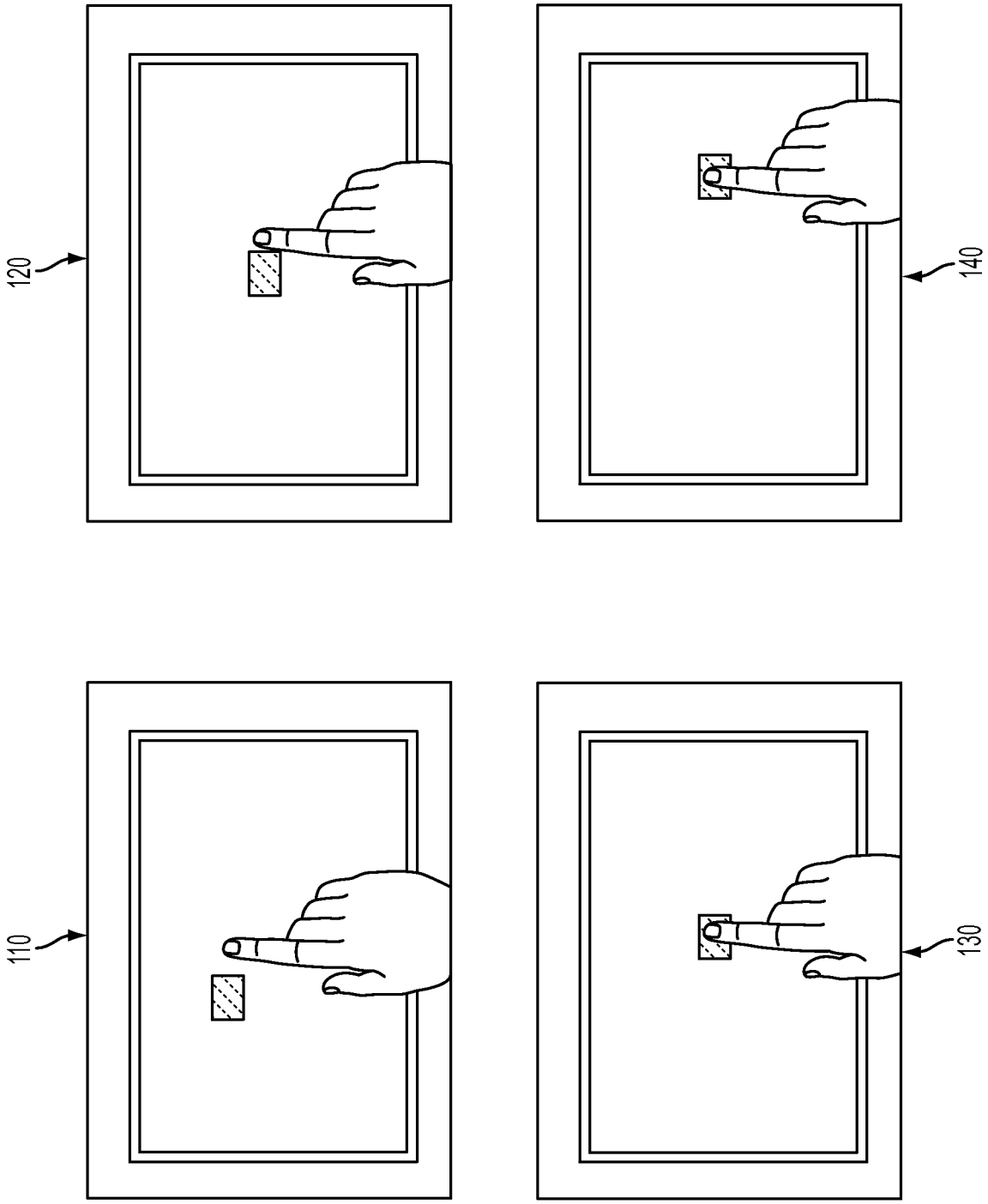

FIG. 1

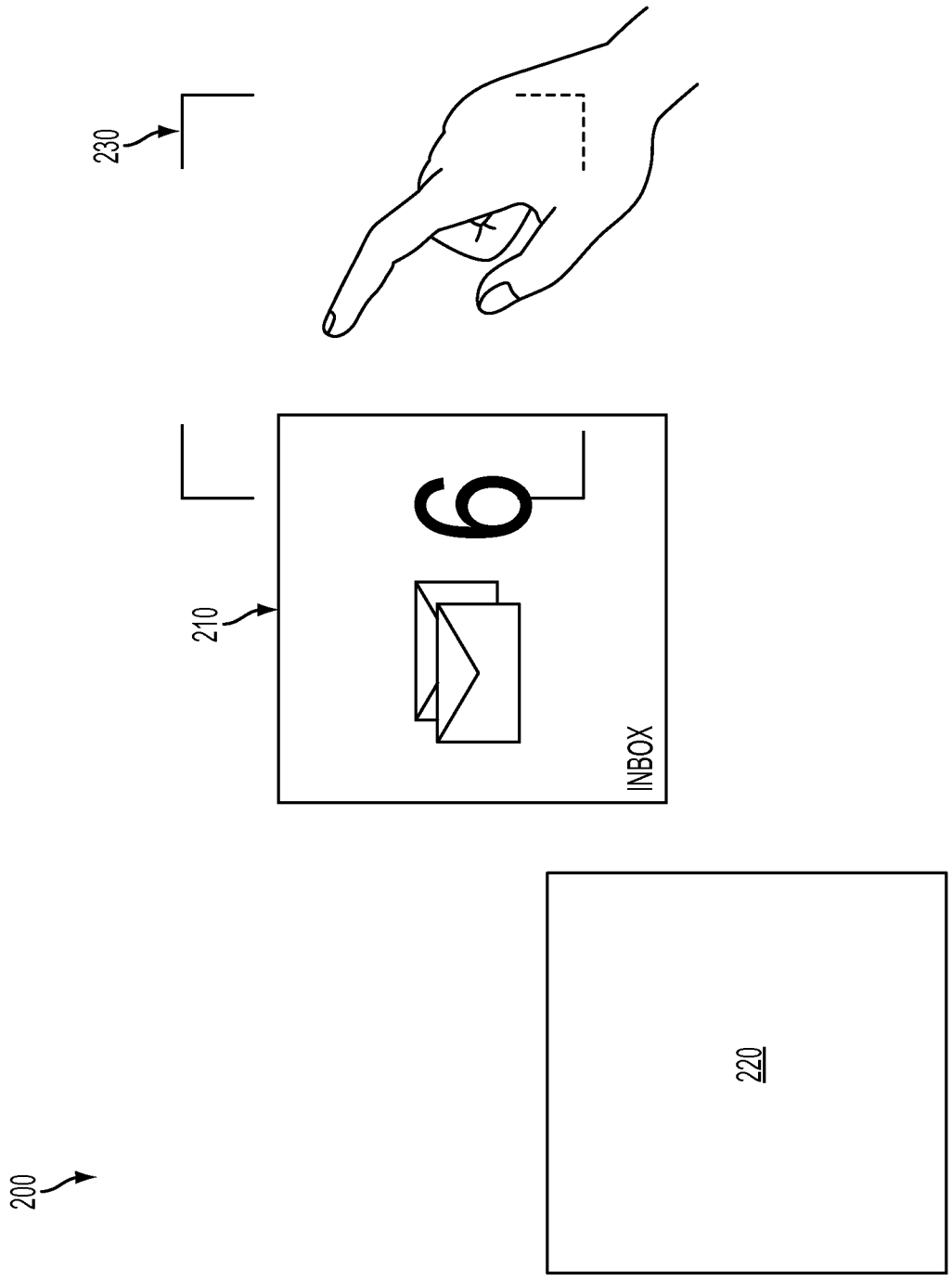

FIG. 2

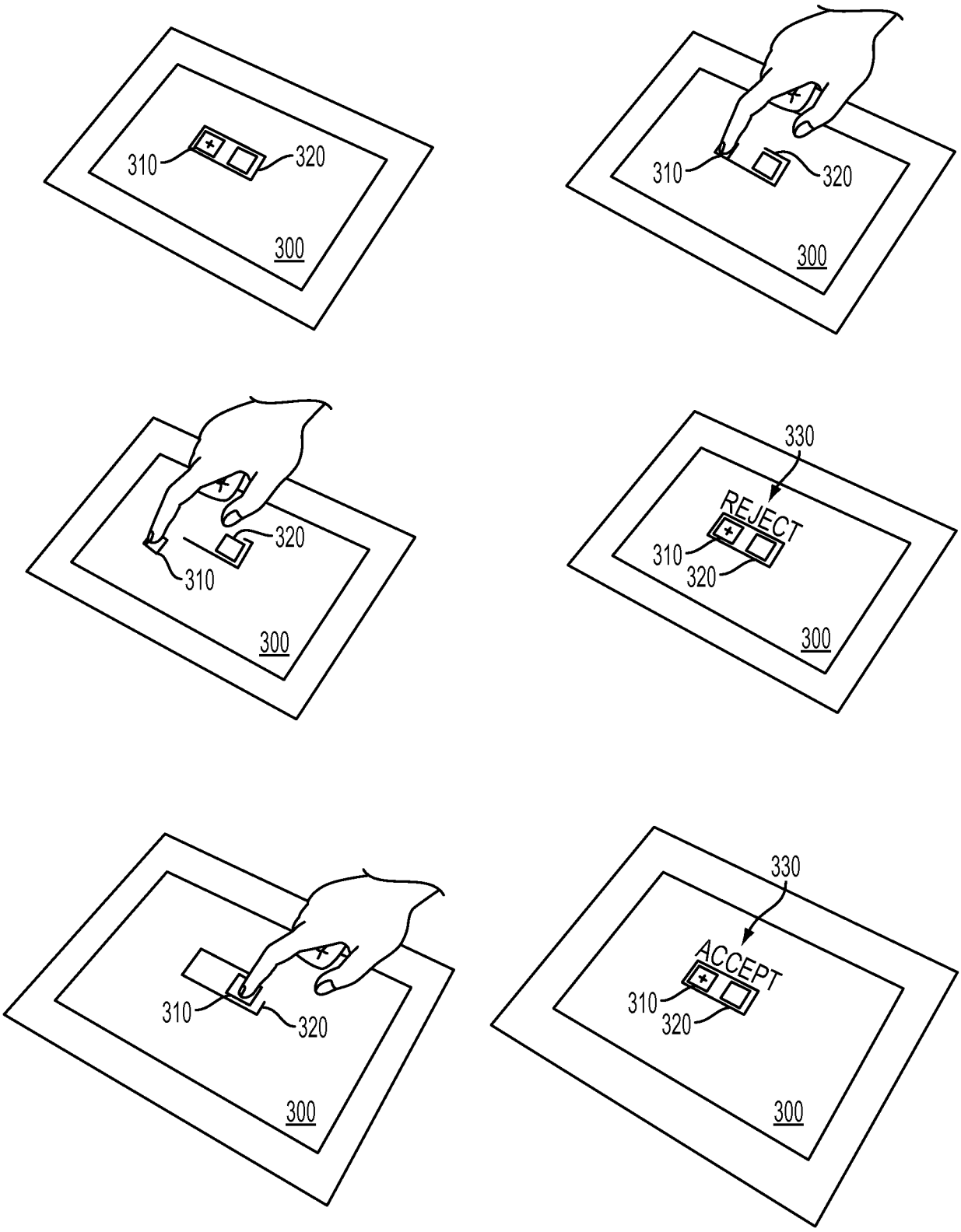
310
320
300
310
320
300
320
310
300
330
REJECT
310
320
300
310
320
300
330
ACCEPT
310
320
300

FIG. 3

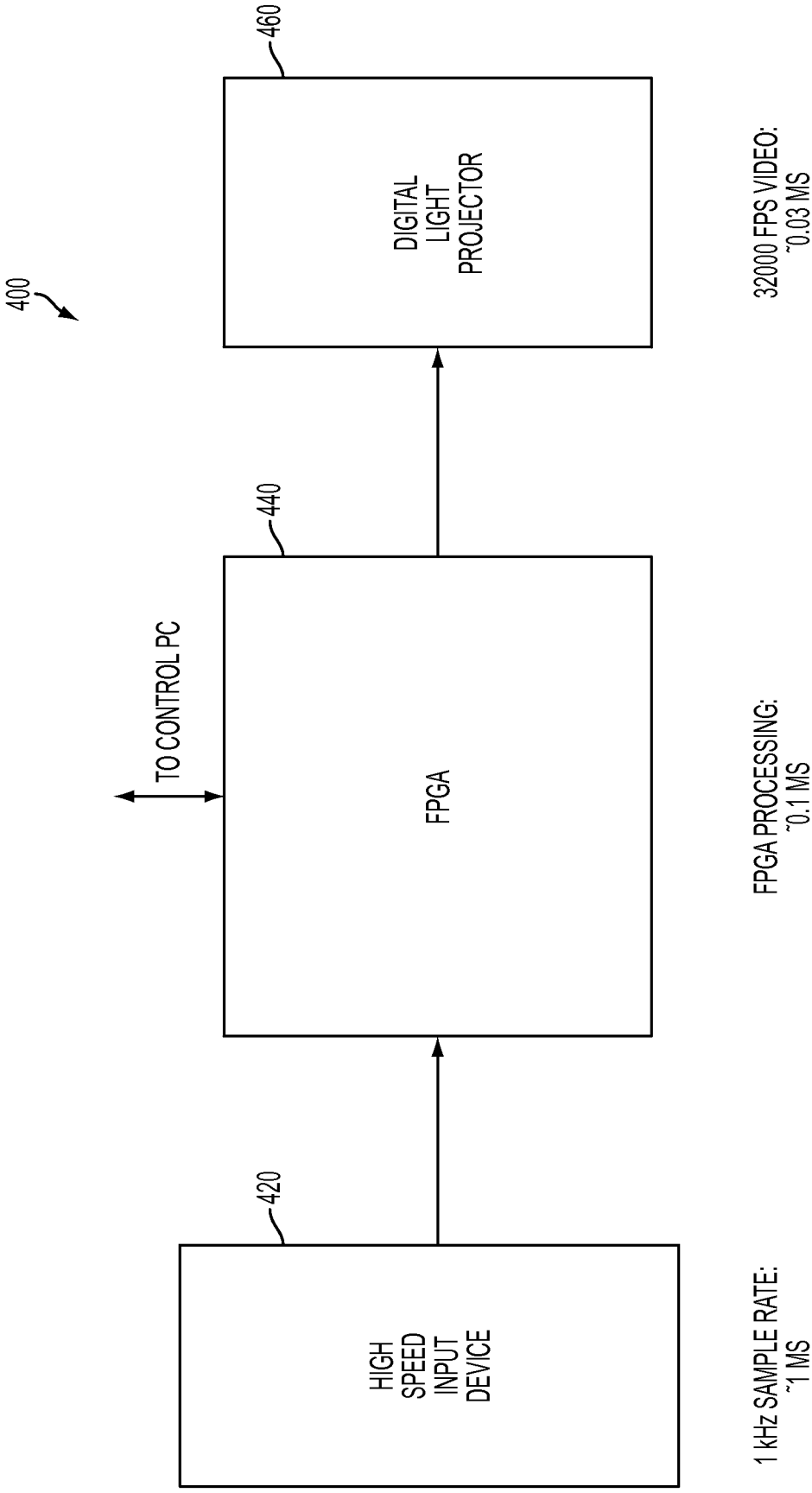
400
460
DIGITAL LIGHT PROJECTOR
32000 FPS VIDEO: ~0.03 MS
440
TO CONTROL PC
FPGA
FPGA PROCESSING: ~0.1 MS
420
HIGH SPEED INPUT DEVICE
1 kHz SAMPLE RATE: ~1 MS

FIG. 4

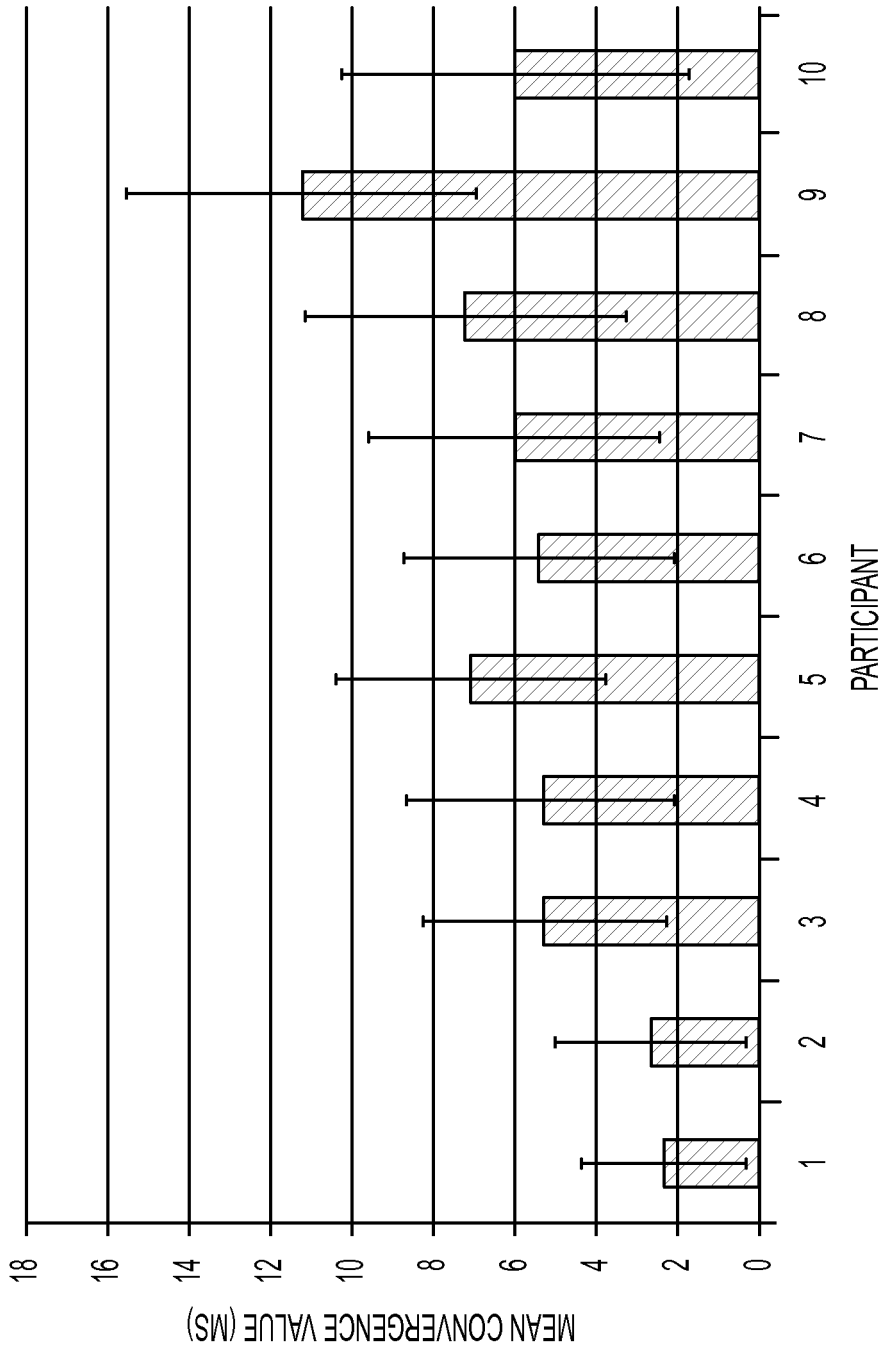
MEAN CONVERGENCE VALUE (MS)
0
2
4
6
8
10
12
14
16
18
PARTICIPANT
1
2
3
4
5
6
7
8
9
10

FIG. 5

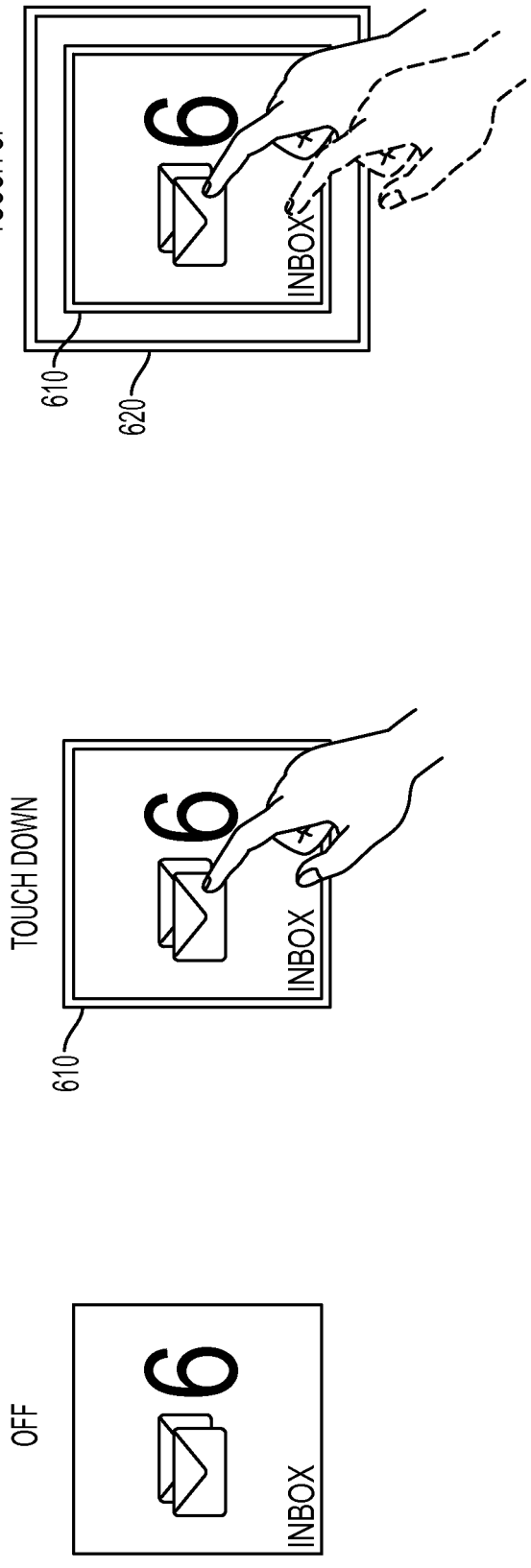

FIG. 6

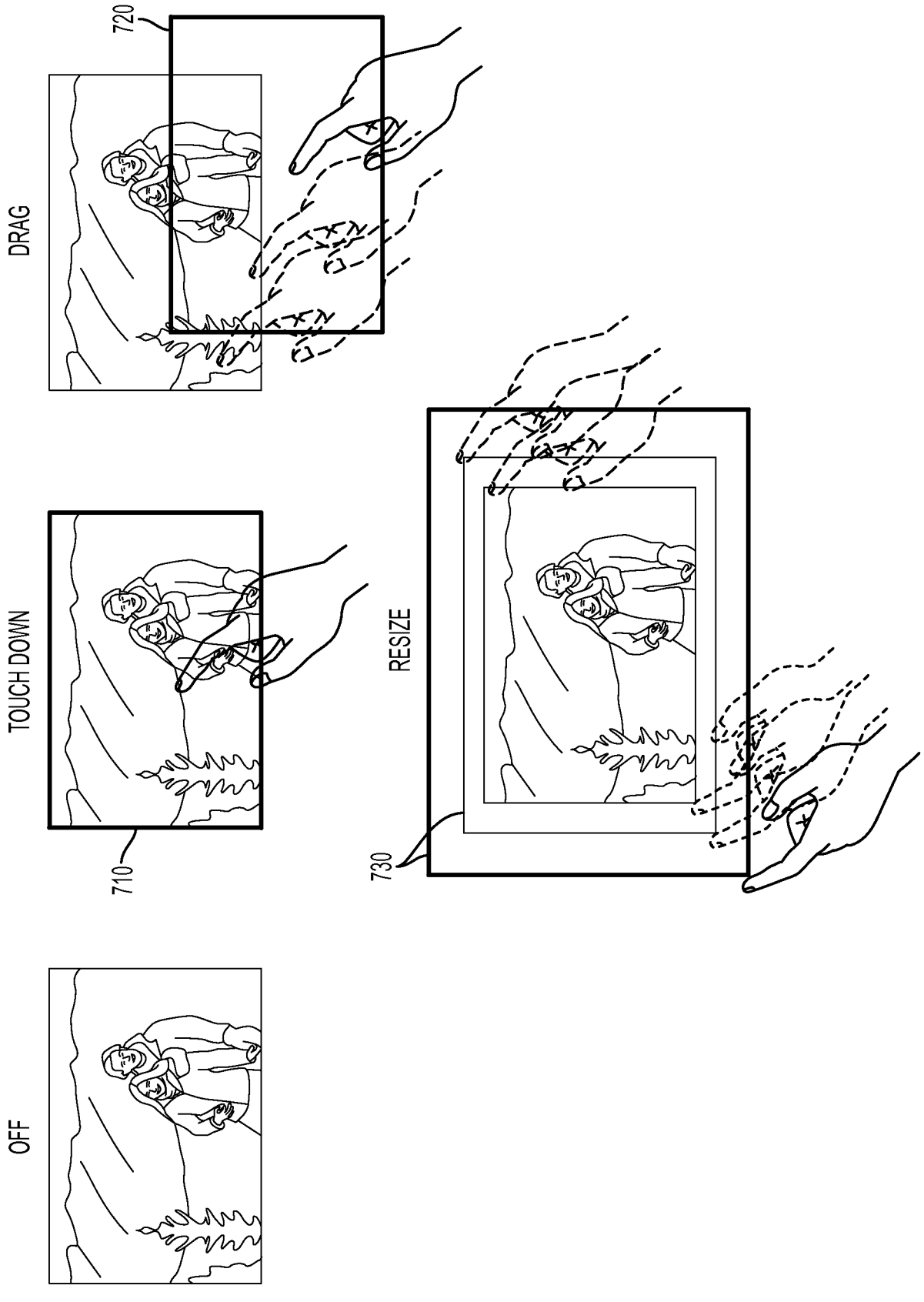

FIG. 7

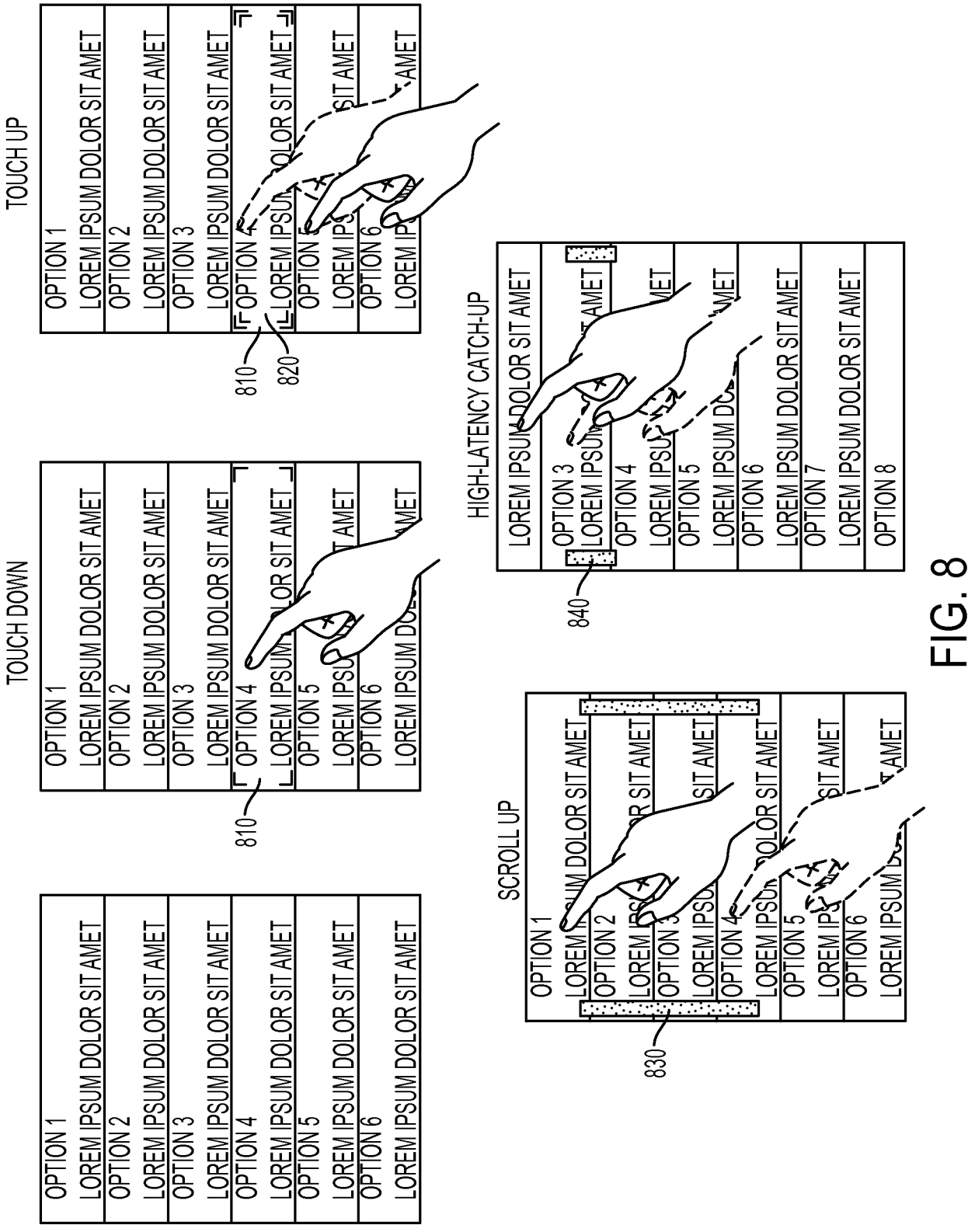
TOUCH UP
OPTION 1
LOREM IPSUM DOLOR SIT AMET
OPTION 2
LOREM IPSUM DOLOR SIT AMET
OPTION 3
LOREM IPSUM DOLOR SIT AMET
OPTION 4
LOREM IPSUM DOLOR SIT AMET
OPTION 5
LOREM IPSUM DOLOR SIT AMET
OPTION 6
LOREM IPSUM DOLOR SIT AMET
810
820
TOUCH DOWN
OPTION 1
LOREM IPSUM DOLOR SIT AMET
OPTION 2
LOREM IPSUM DOLOR SIT AMET
OPTION 3
LOREM IPSUM DOLOR SIT AMET
OPTION 4
LOREM IPSUM DOLOR SIT AMET
OPTION 5
LOREM IPSUM DOLOR SIT AMET
OPTION 6
LOREM IPSUM DOLOR SIT AMET
810
HIGH-LATENCY CATCH-UP
LOREM IPSUM DOLOR SIT AMET
OPTION 3
OPTION 4
OPTION 5
OPTION 6
OPTION 7
OPTION 8
LOREM IPSUM DOLOR SIT AMET
840
SCROLL UP
OPTION 1
OPTION 2
OPTION 3
OPTION 4
OPTION 5
OPTION 6
LOREM IPSUM DOLOR SIT AMET
830

FIG. 8

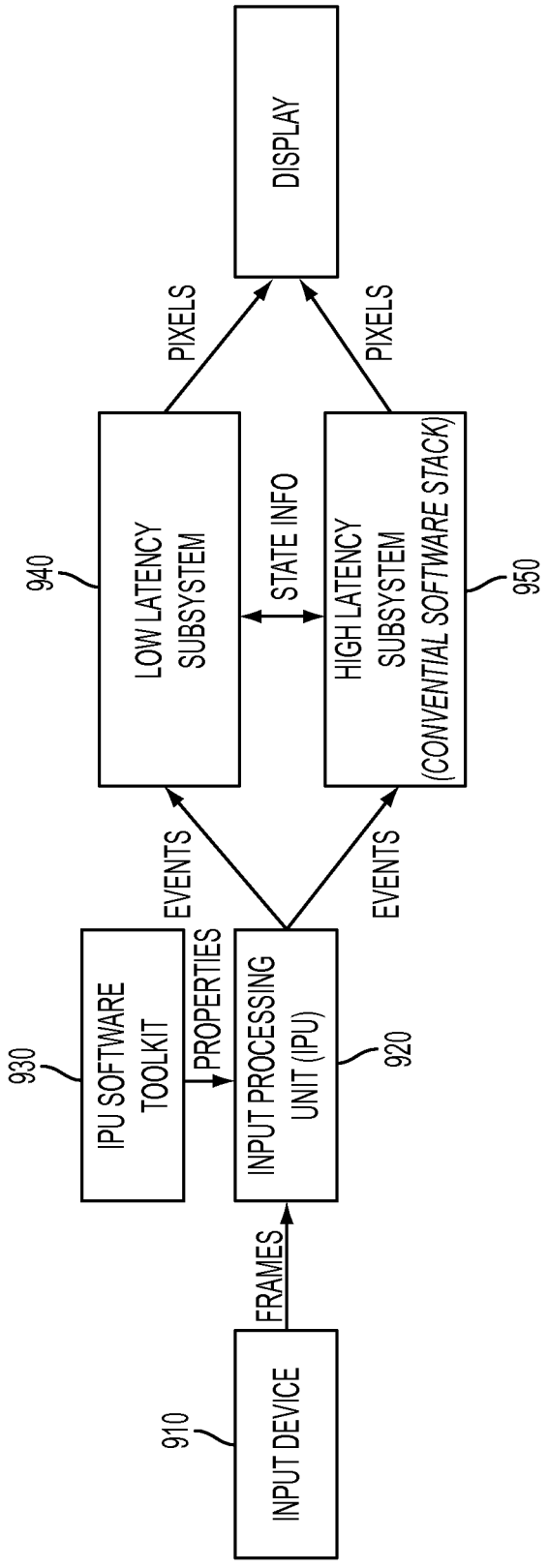
DISPLAY
PIXELS
PIXELS
940
LOW LATENCY SUBSYSTEM
STATE INFO
HIGH LATENCY SUBSYSTEM (CONVENTIAL SOFTWARE STACK)
950
EVENTS
EVENTS
930
IPU SOFTWARE TOOLKIT
PROPERTIES
INPUT PROCESSING UNIT (IPU)
920
FRAMES
910
INPUT DEVICE

FIG. 9

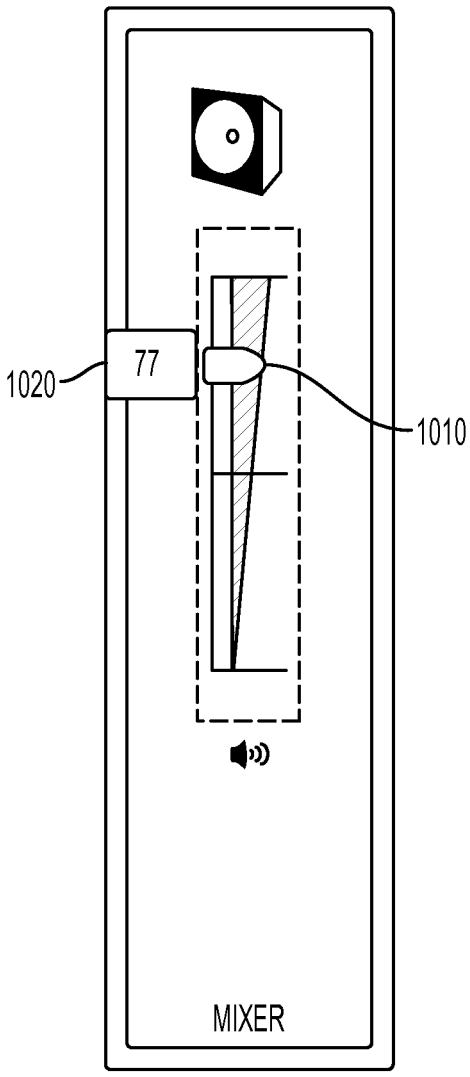

FIG. 10

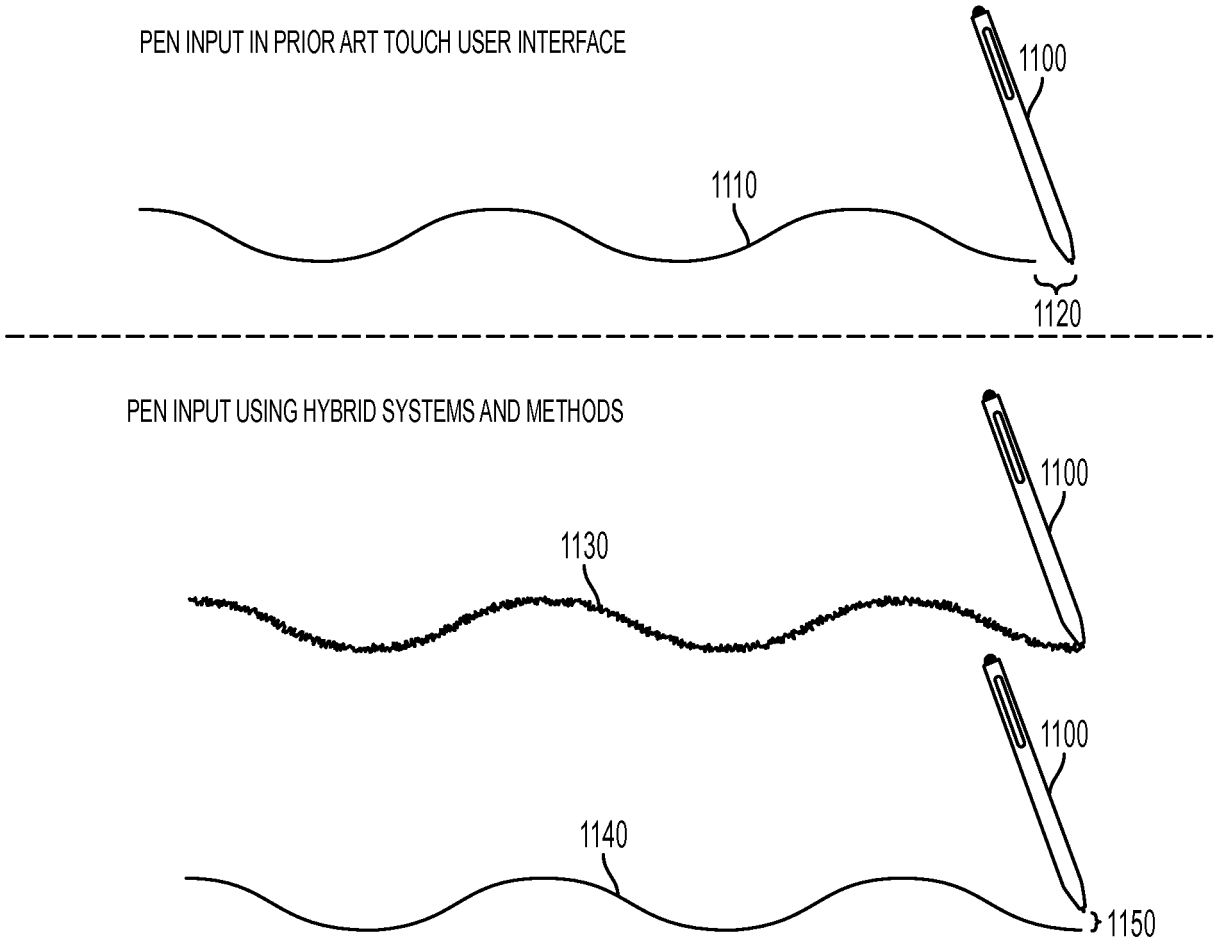
PEN INPUT IN PRIOR ART TOUCH USER INTERFACE
1100
1110
1120
PEN INPUT USING HYBRID SYSTEMS AND METHODS
1100
1130
1100
1140
1150

FIG. 11

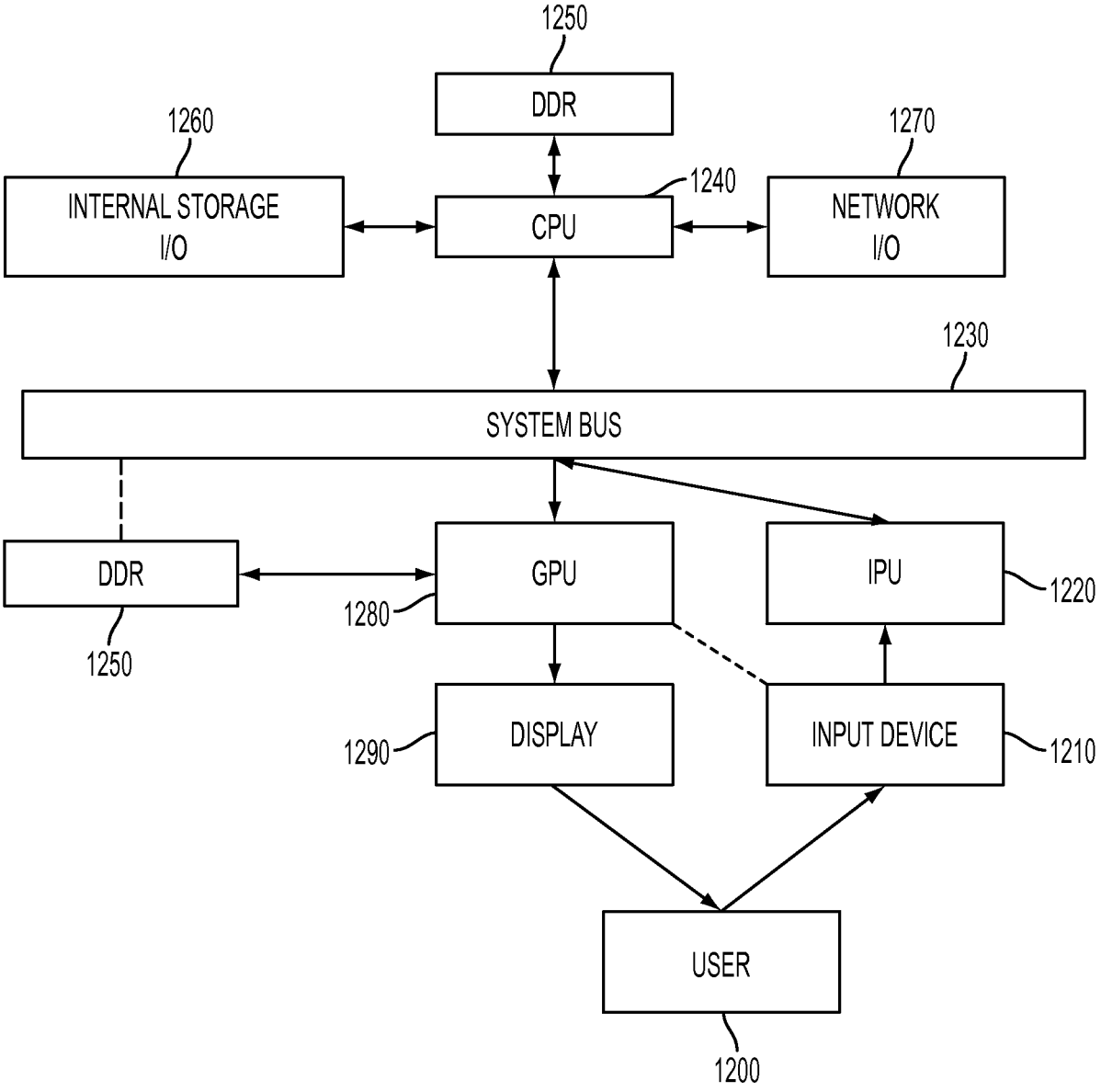
1250
DDR
1260
1270
INTERNAL STORAGE I/O
1240
CPU
NETWORK I/O
1230
SYSTEM BUS
DDR
1250
GPU
1280
IPU
1220
DISPLAY
1290
INPUT DEVICE
1210
USER
1200

FIG. 12

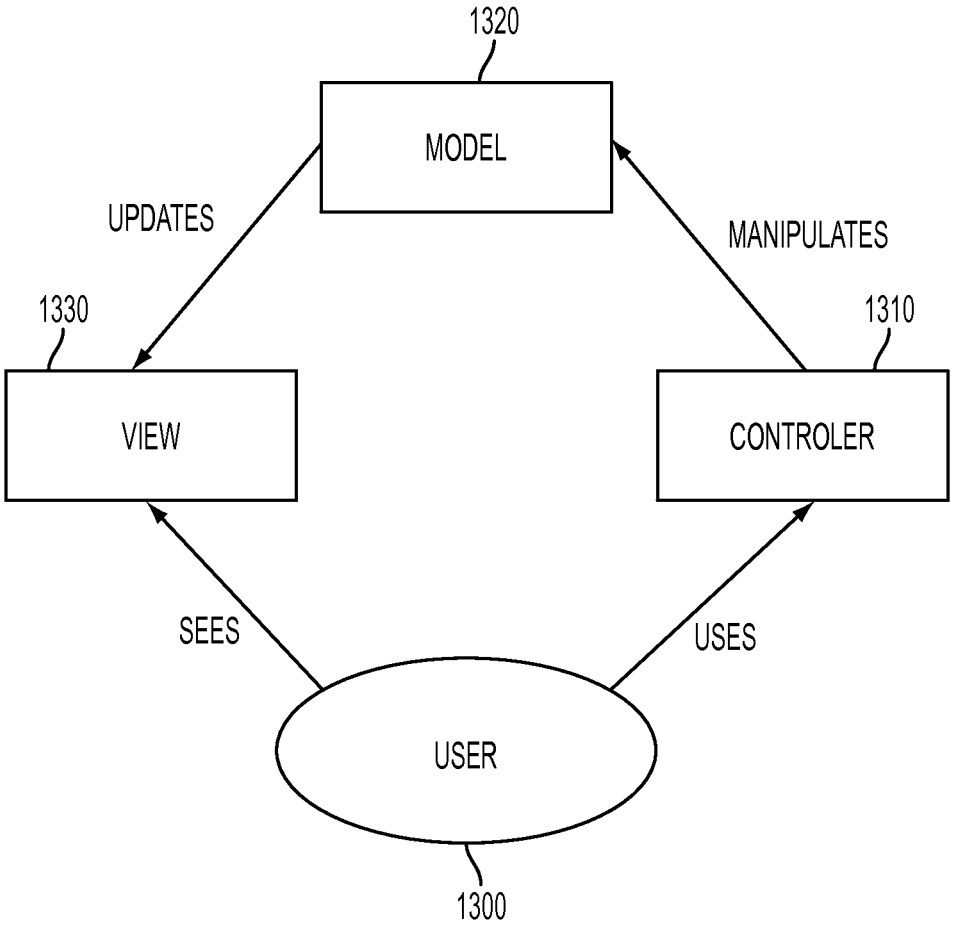
1320
MODEL
UPDATES
MANIPULATES
1330
1310
VIEW
CONTROLER
SEES
USES
USER
1300

FIG. 13

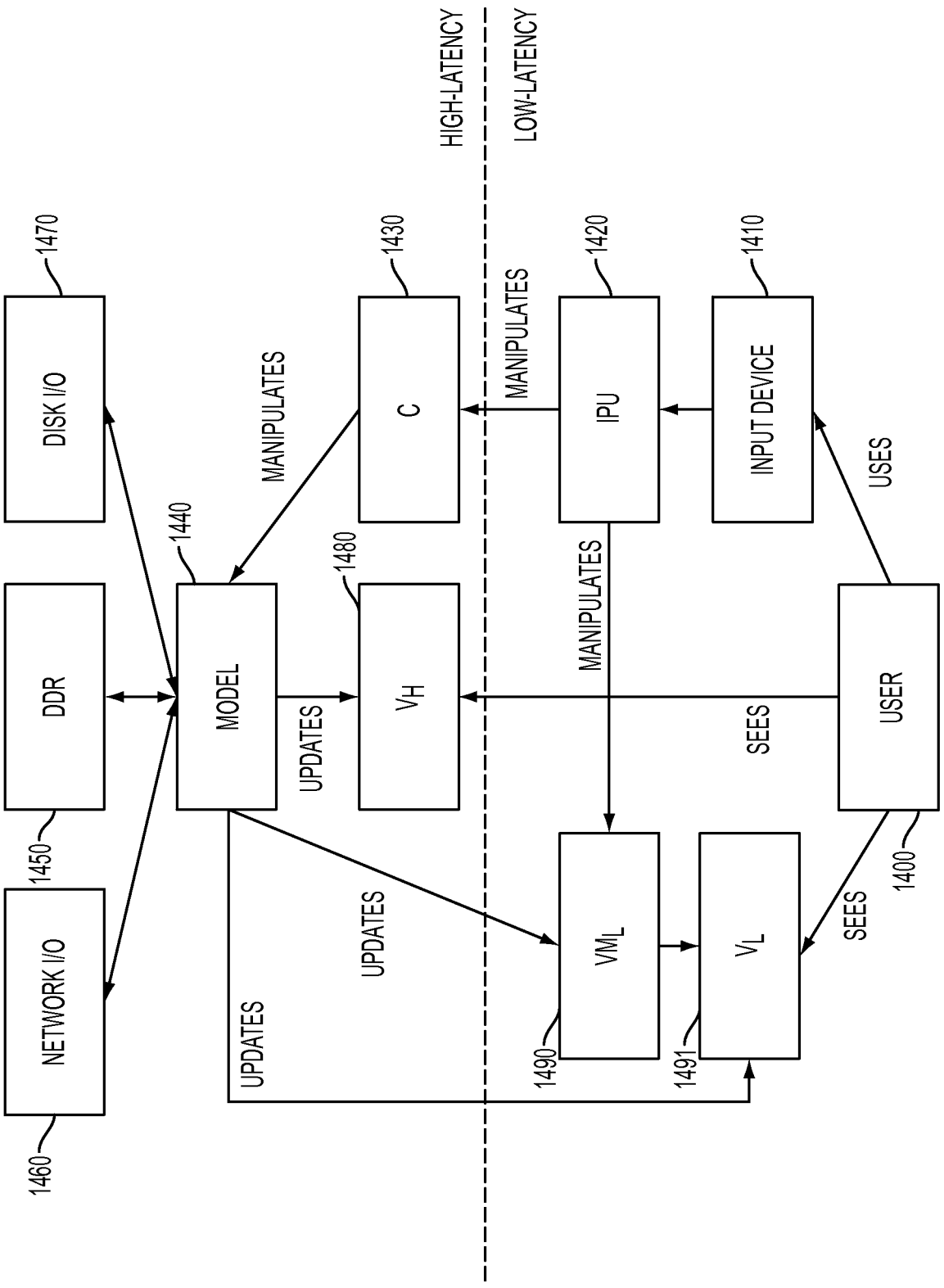
HIGH-LATENCY
LOW-LATENCY
1470
DISK I/O
1430
C
1420
IPU
1410
INPUT DEVICE
MANIPULATES
MANIPULATES
USES
1440
MODEL
1480
V_H
MANIPULATES
USER
UPDATES
SEES
1450
DDR
1460
NETWORK I/O
UPDATES
UPDATES
VM_L
V_L
SEES
1400
1490
1491

FIG. 14

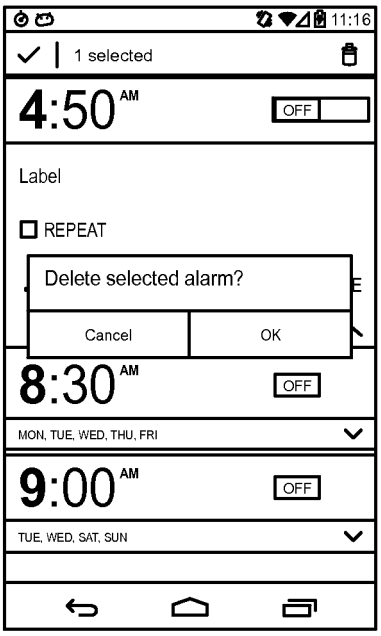
11:16
1 selected
4:50 AM
OFF
Label
REPEAT
Delete selected alarm?
Cancel
OK
8:30 AM
OFF
MON, TUE, WED, THU, FRI
9:00 AM
OFF
TUE, WED, SAT, SUN

FIG. 15

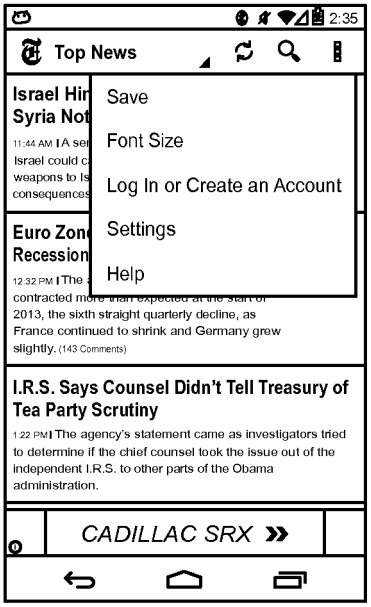
2:35
Top News
Save
Font Size
Log In or Create an Account
Settings
Help
2013, the sixth straight quarterly decline, as France continued to shrink and Germany grew slightly. (143 Comments)
I.R.S. Says Counsel Didn't Tell Treasury of Tea Party Scrutiny
1:22 PM The agency's statement came as investigators tried to determine if the chief counsel took the issue out of the independent I.R.S. to other parts of the Obama administration.
CADILLAC SRX

FIG. 16