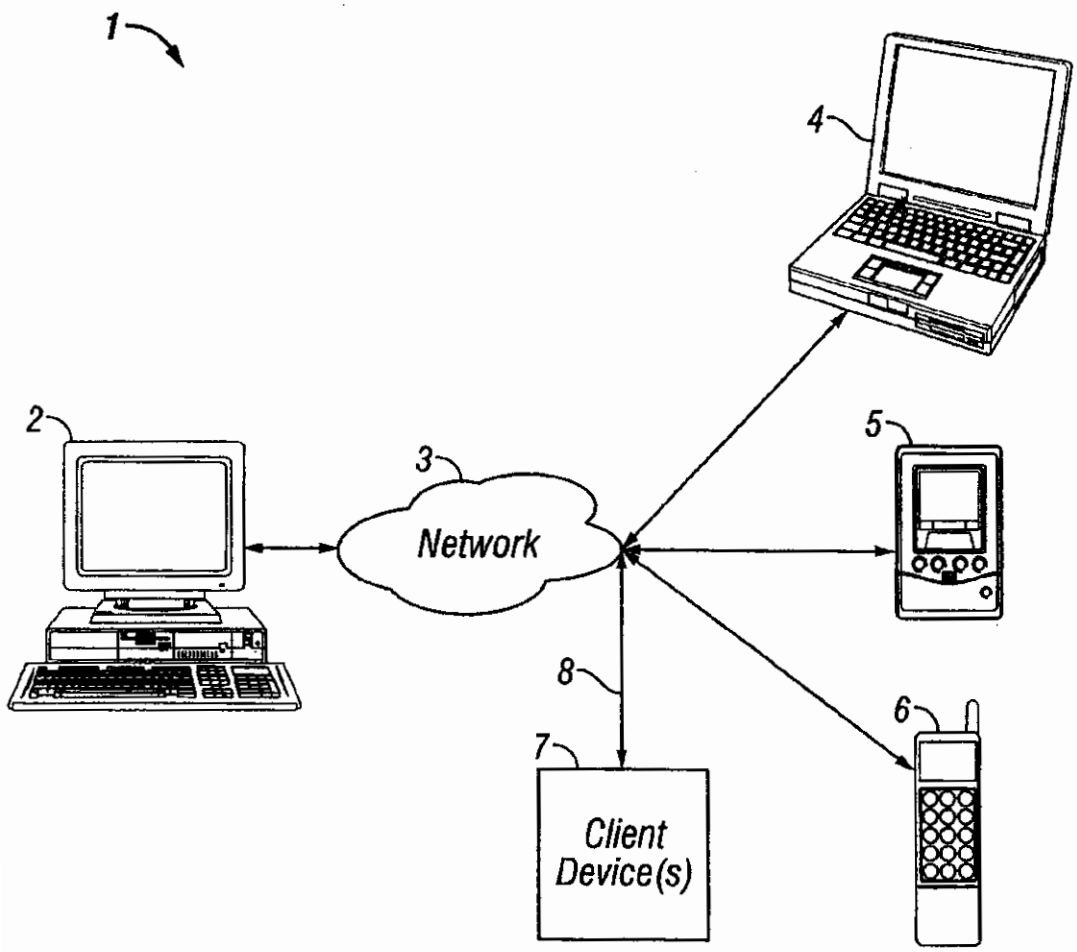


FIG. 1

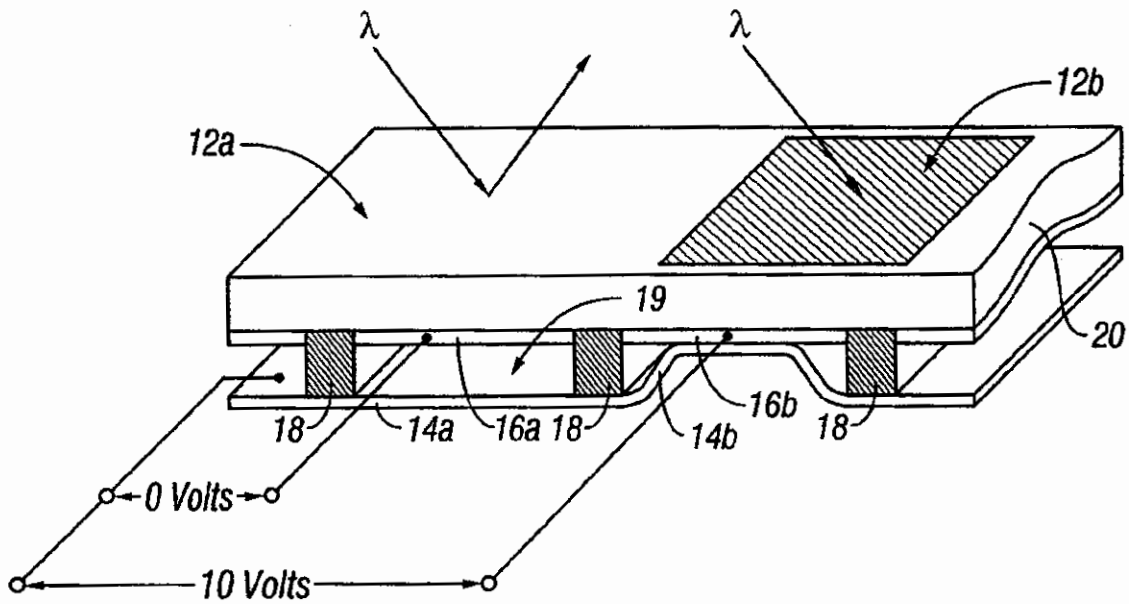


FIG. 2

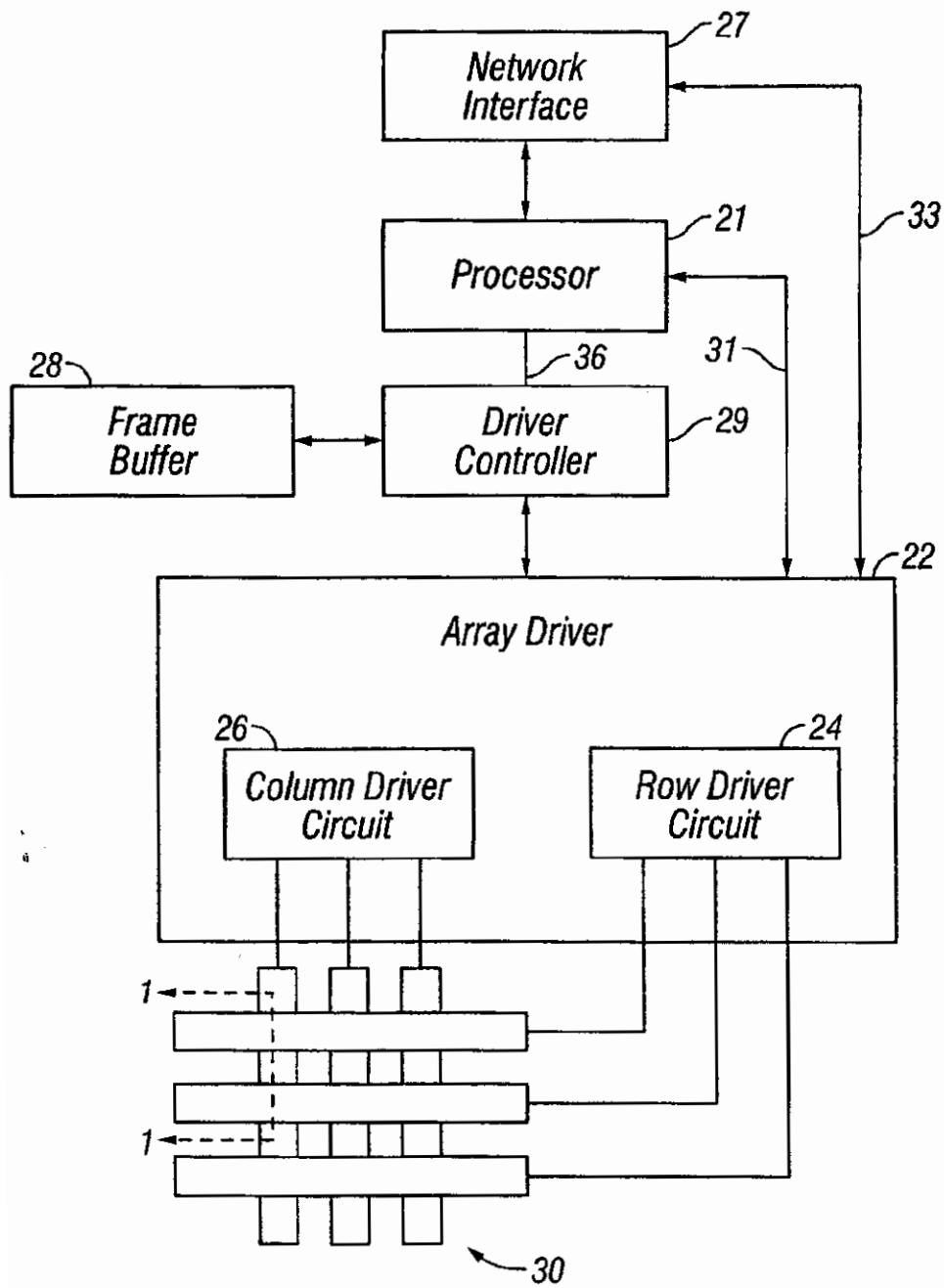

Network Interface
27
Processor
21
33
28
Frame Buffer
36
31
Driver Controller
29
22
Array Driver
26
Column Driver Circuit
24
Row Driver Circuit
1
1
30

FIG. 3A

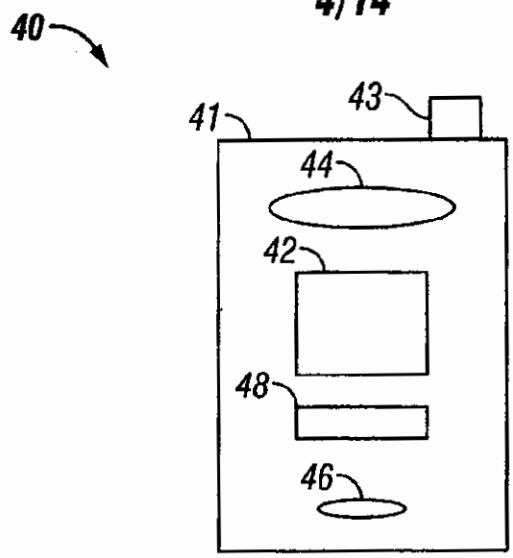

40
41
43
44
42
48
46

FIG. 3B

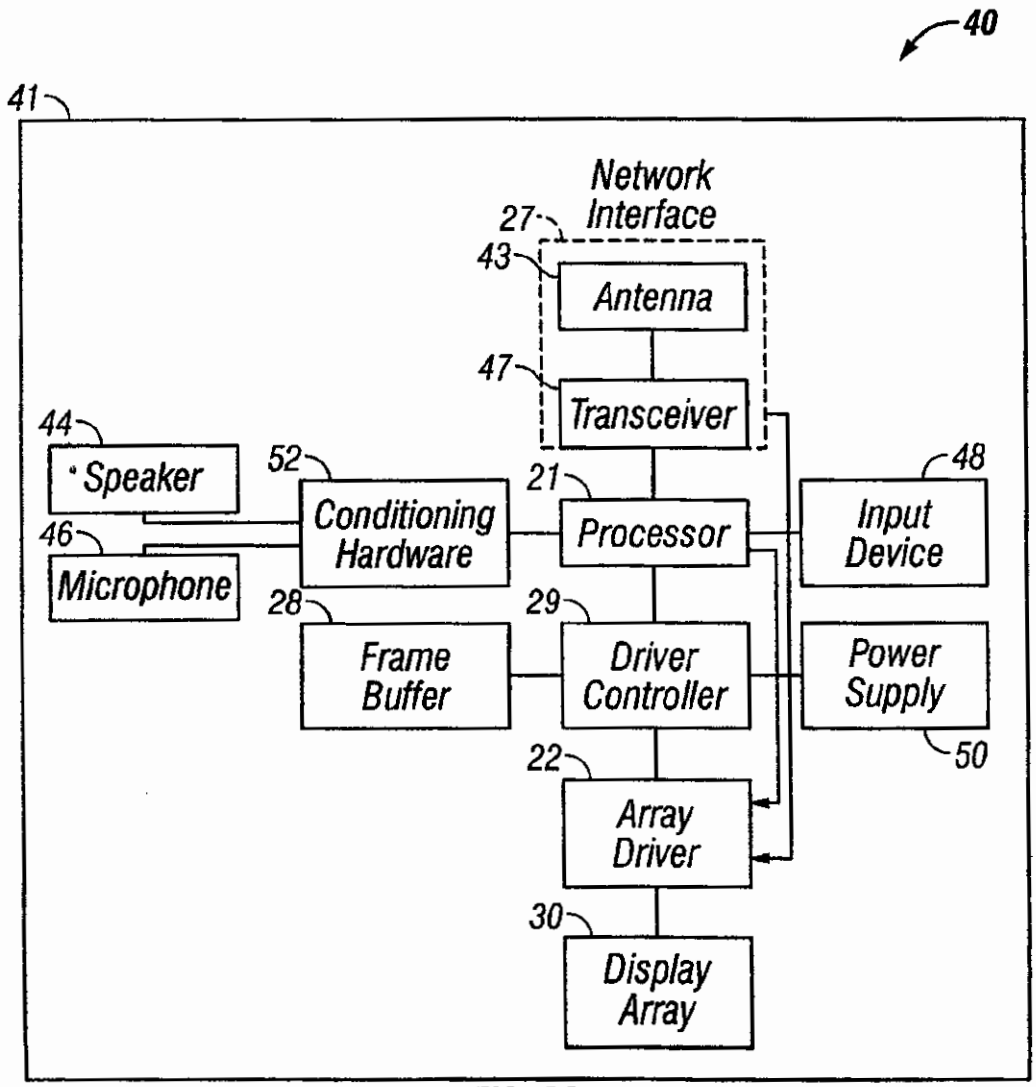

40
41
Network Interface
27
43
Antenna
47
Transceiver
44
Speaker
52
Conditioning Hardware
21
Processor
48
Input Device
46
Microphone
28
Frame Buffer
29
Driver Controller
Power Supply
50
22
Array Driver
30
Display Array

FIG. 3C

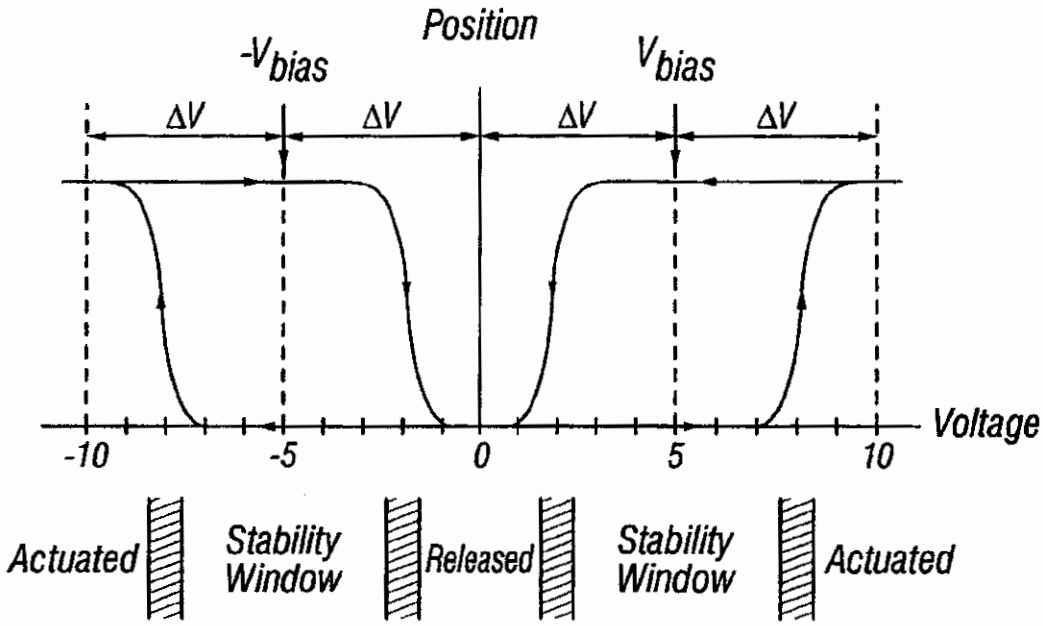


FIG. 4A

Row Output Signals	Column Output Signals: $+V_{bias}$	Column Output Signals: $-V_{bias}$
0	Stable	Stable
$+\Delta V$	Release	Actuate
$-\Delta V$	Actuate	Release

FIG. 4B

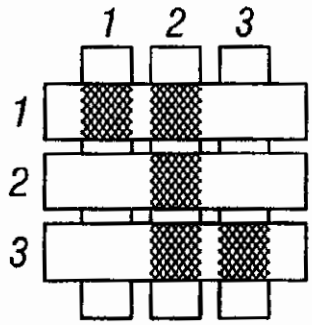

1
2
3
1
2
3

FIG. 5A

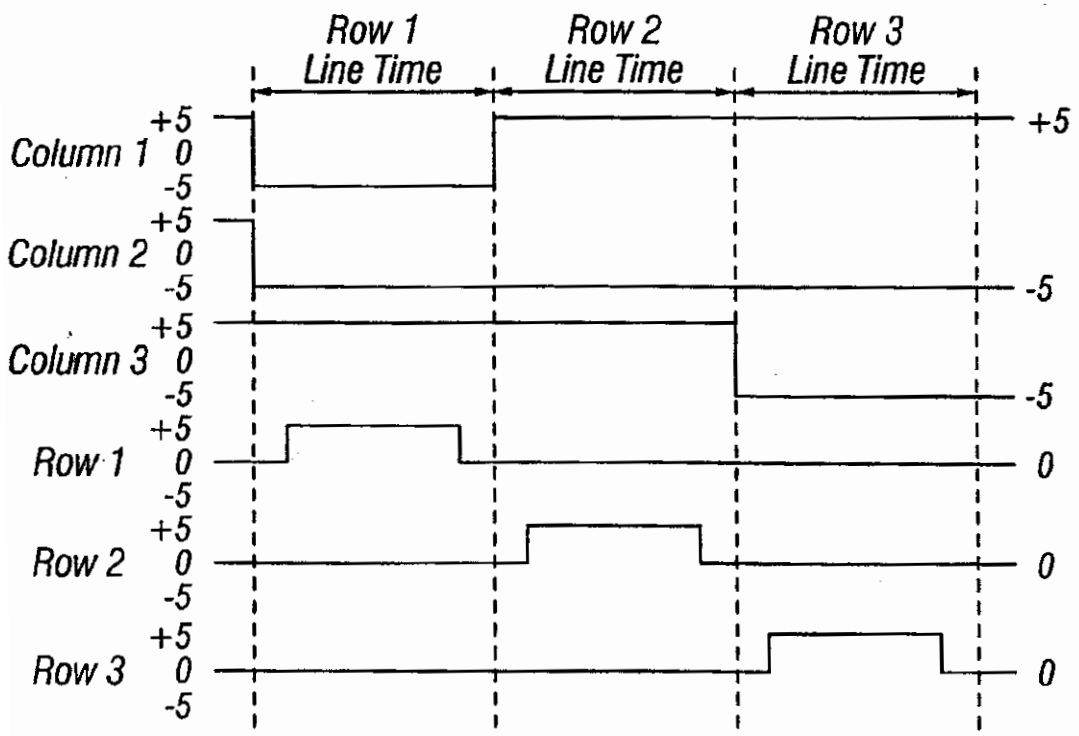

Row 1 Line Time
Row 2 Line Time
Row 3 Line Time
Column 1
Column 2
Column 3
Row 1
Row 2
Row 3
+5
0
-5
+5
-5
-5
0
0
0

FIG. 5B

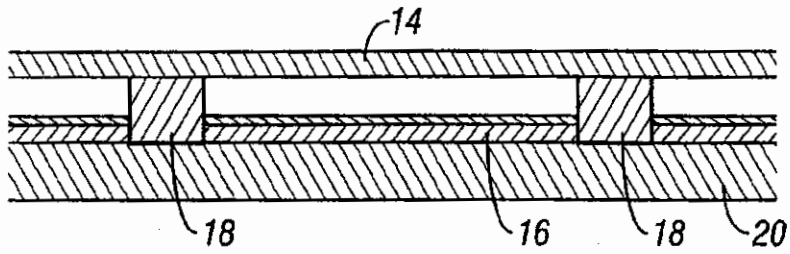


FIG. 6A

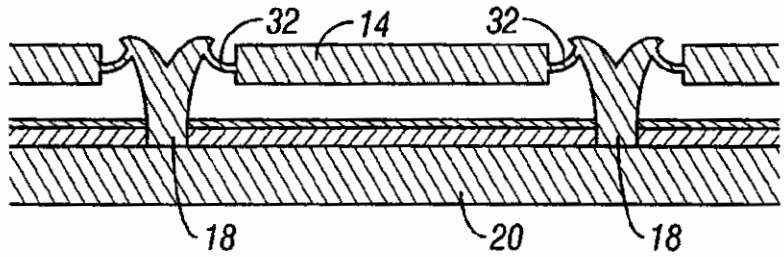


FIG. 6B

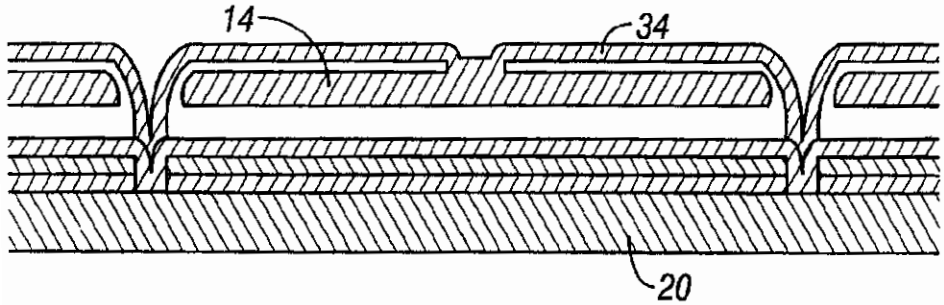


FIG. 6C

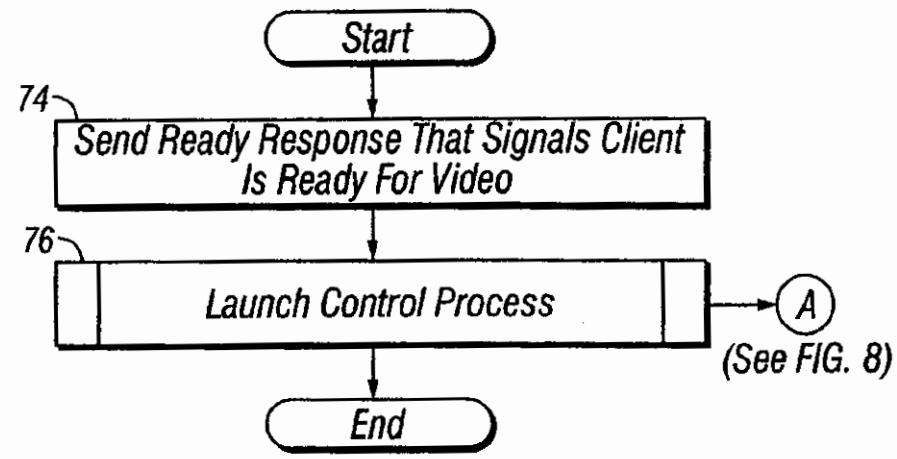

Start
74
Send Ready Response That Signals Client Is Ready For Video
76
Launch Control Process
A
(See FIG. 8)
End

FIG. 7

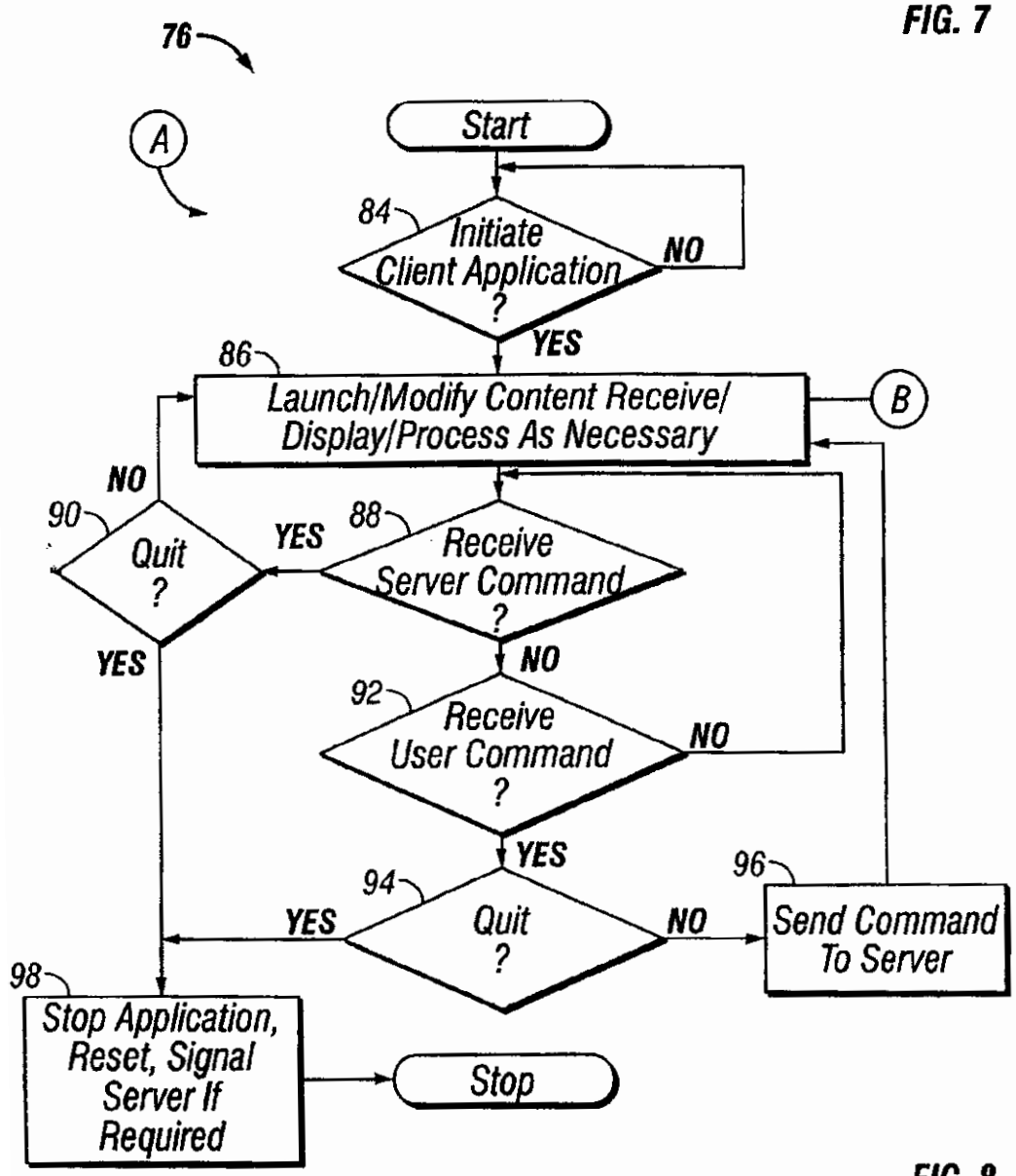

76
A
Start
84
Initiate Client Application ?
NO
YES
86
Launch/Modify Content Receive/ Display/Process As Necessary
B
NO
90
Quit ?
YES
88
Receive Server Command ?
YES
NO
92
Receive User Command ?
NO
YES
94
Quit ?
YES
NO
96
Send Command To Server
98
Stop Application, Reset, Signal Server If Required
Stop

FIG. 8

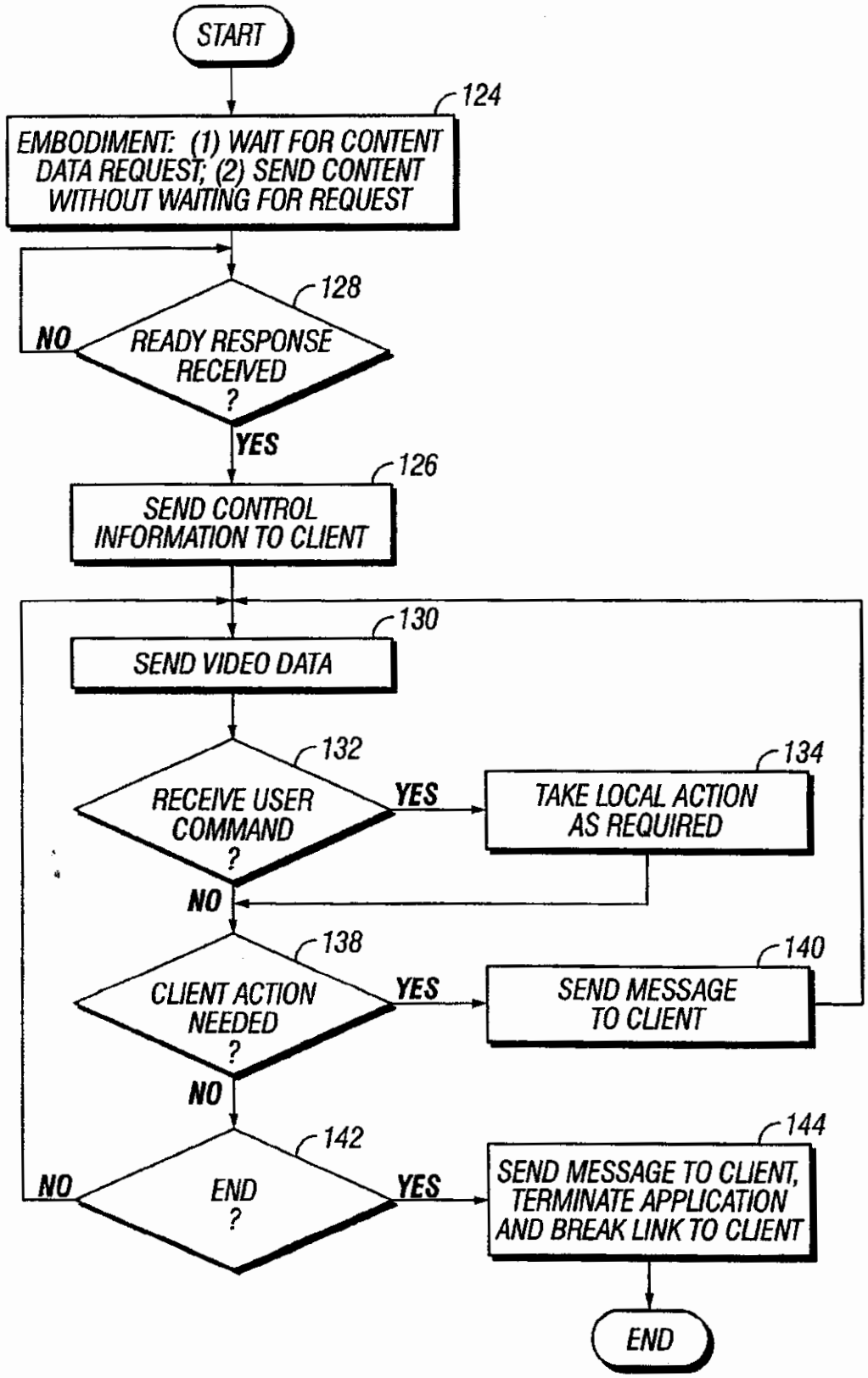

START
124
EMBODIMENT: (1) WAIT FOR CONTENT DATA REQUEST; (2) SEND CONTENT WITHOUT WAITING FOR REQUEST
128
NO
READY RESPONSE RECEIVED ?
YES
126
SEND CONTROL INFORMATION TO CLIENT
130
SEND VIDEO DATA
132
RECEIVE USER COMMAND ?
YES
134
TAKE LOCAL ACTION AS REQUIRED
NO
138
CLIENT ACTION NEEDED ?
YES
140
SEND MESSAGE TO CLIENT
NO
142
NO
END ?
YES
144
SEND MESSAGE TO CLIENT, TERMINATE APPLICATION AND BREAK LINK TO CLIENT
END

FIG. 9

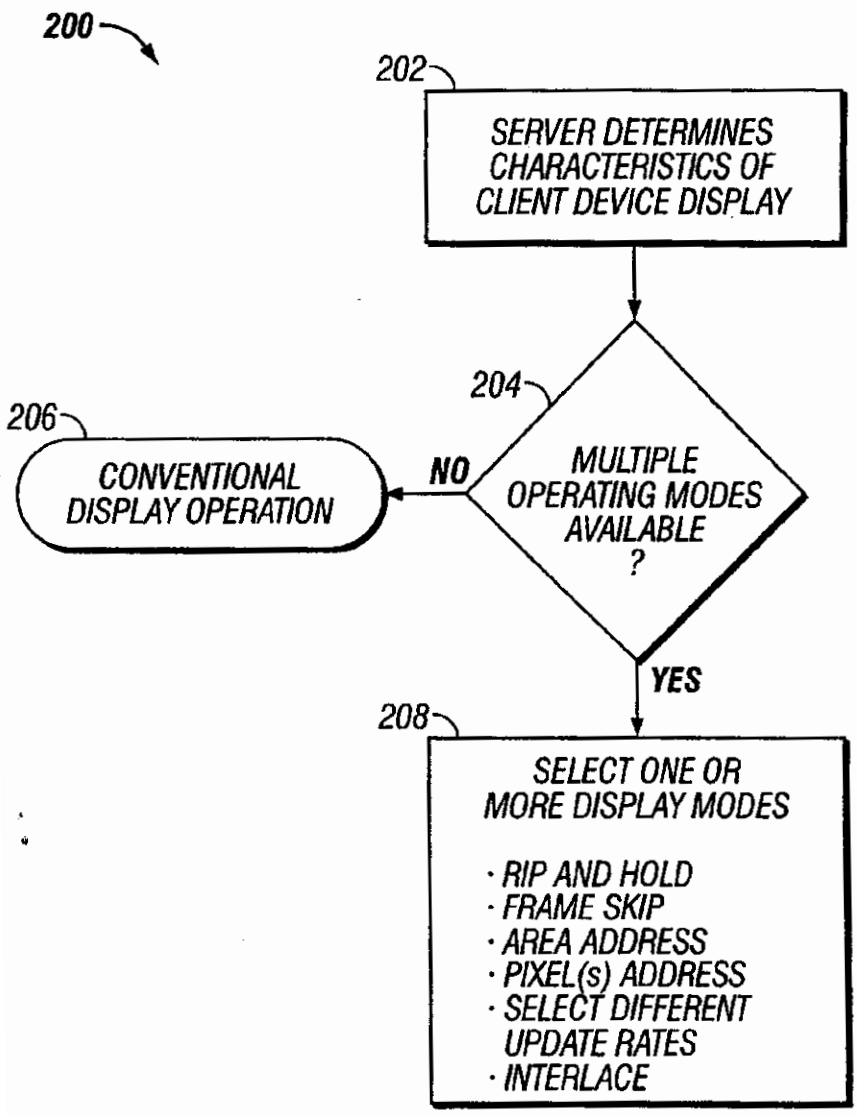

200
202
SERVER DETERMINES CHARACTERISTICS OF CLIENT DEVICE DISPLAY
204
MULTIPLE OPERATING MODES AVAILABLE ?
NO
206
CONVENTIONAL DISPLAY OPERATION
YES
208
SELECT ONE OR MORE DISPLAY MODES
· RIP AND HOLD
· FRAME SKIP
· AREA ADDRESS
· PIXEL(s) ADDRESS
· SELECT DIFFERENT UPDATE RATES
· INTERLACE

FIG. 10

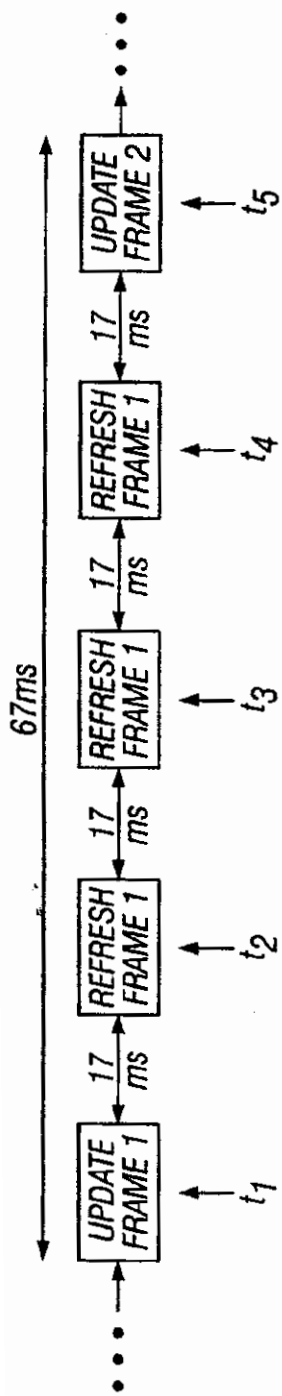


FIG. 11A

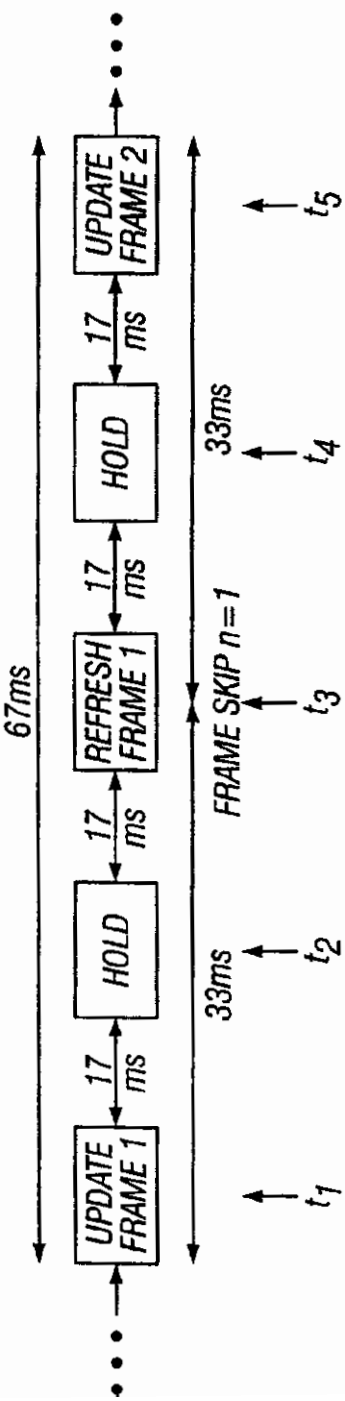


FIG. 11B

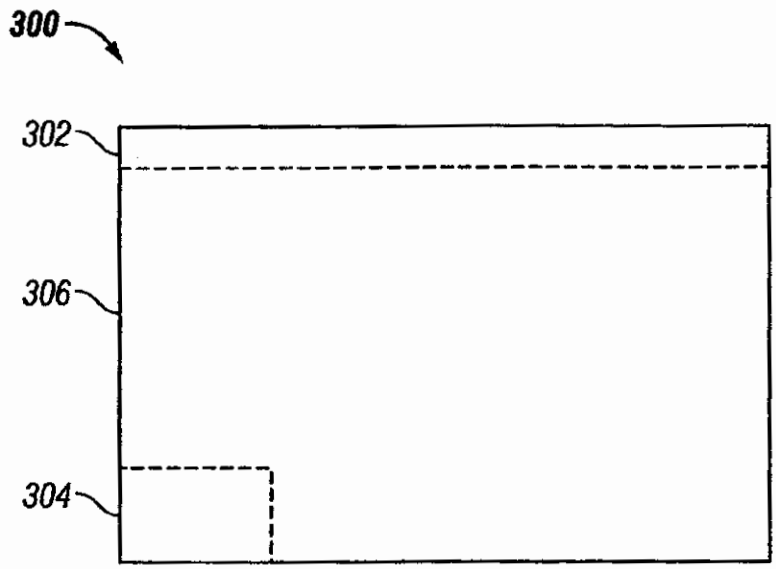


FIG. 12

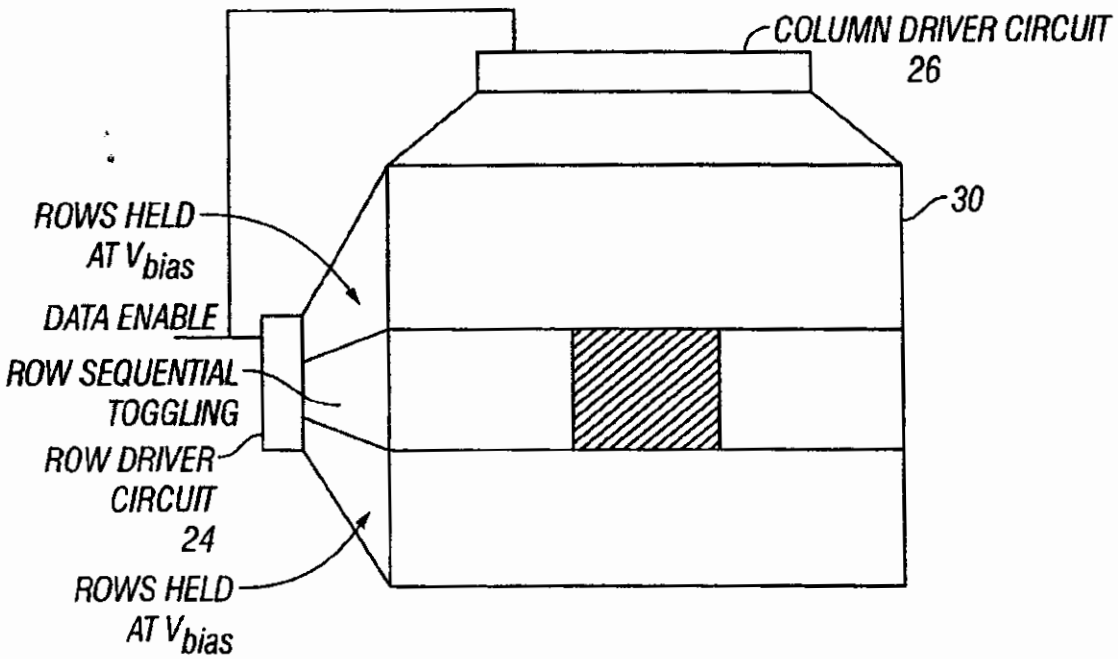


FIG. 13A

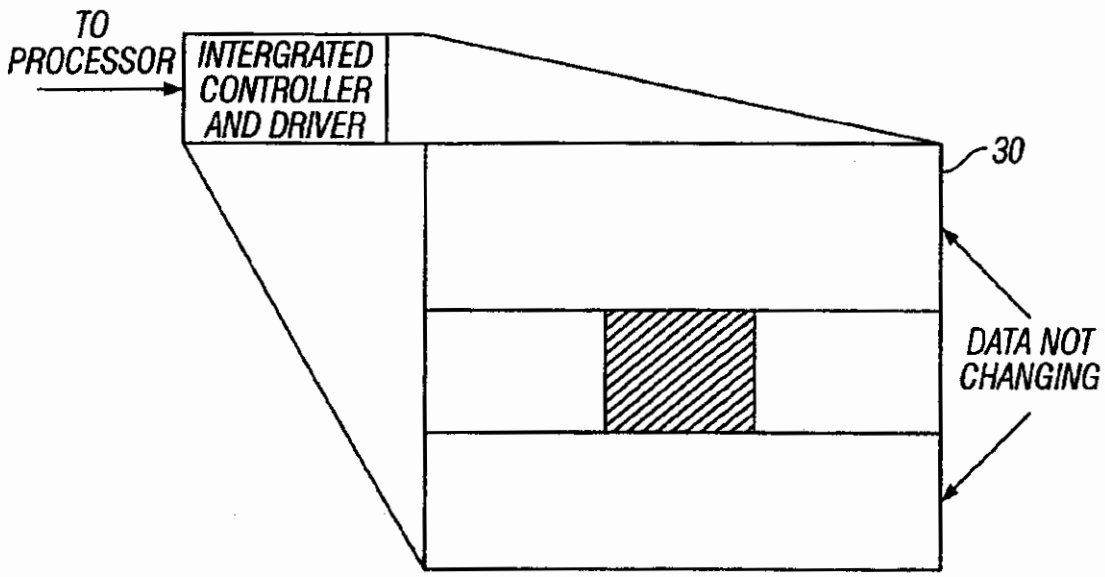


FIG. 13B

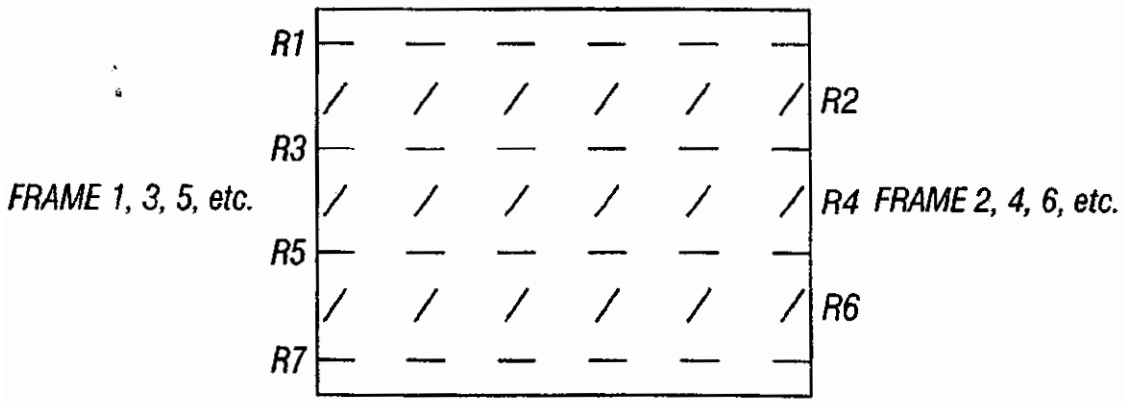


FIG. 14

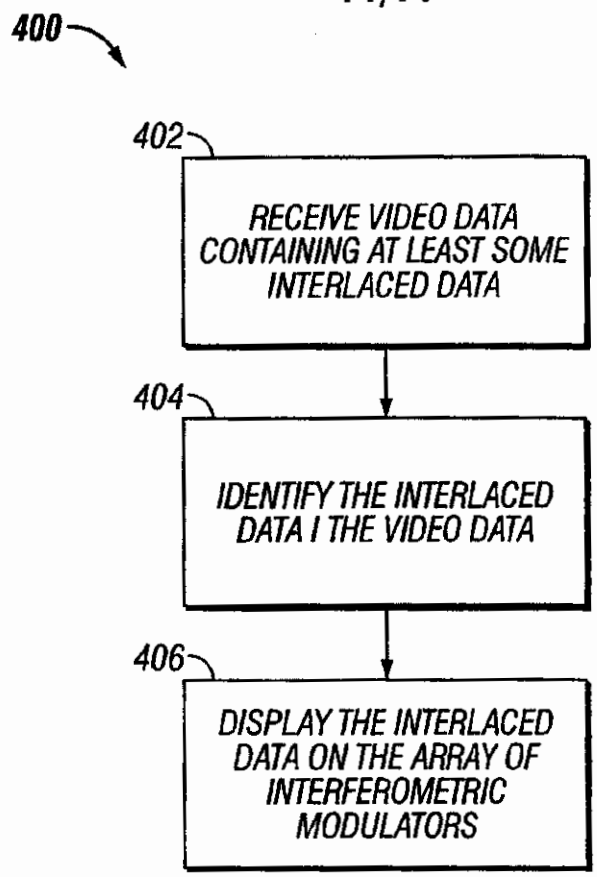

400
402
RECEIVE VIDEO DATA CONTAINING AT LEAST SOME INTERLACED DATA
404
IDENTIFY THE INTERLACED DATA I THE VIDEO DATA
406
DISPLAY THE INTERLACED DATA ON THE ARRAY OF INTERFEROMETRIC MODULATORS

FIG. 15

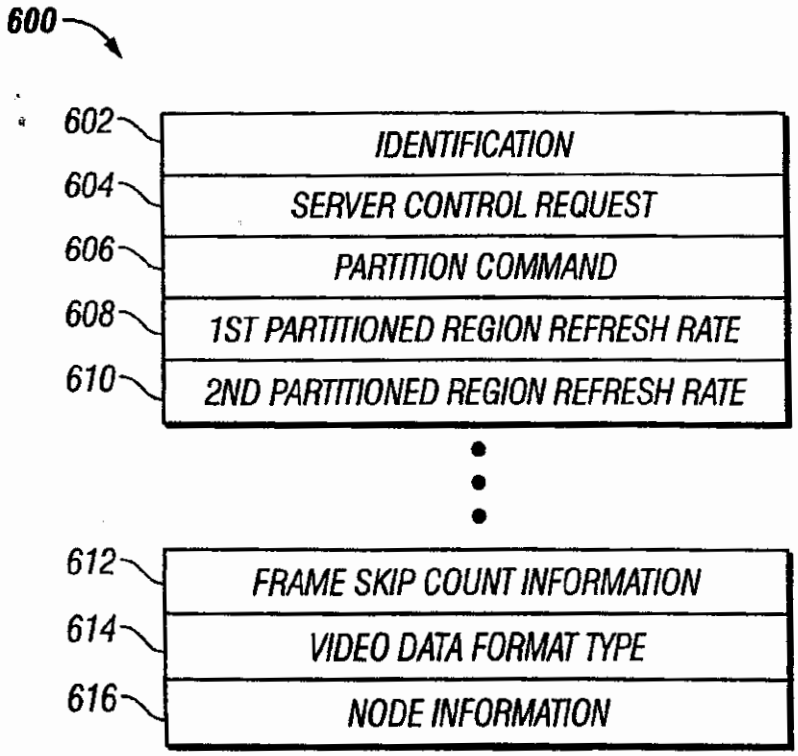

600
602
IDENTIFICATION
604
SERVER CONTROL REQUEST
606
PARTITION COMMAND
608
1ST PARTITIONED REGION REFRESH RATE
610
2ND PARTITIONED REGION REFRESH RATE
612
FRAME SKIP COUNT INFORMATION
614
VIDEO DATA FORMAT TYPE
616
NODE INFORMATION

FIG. 16