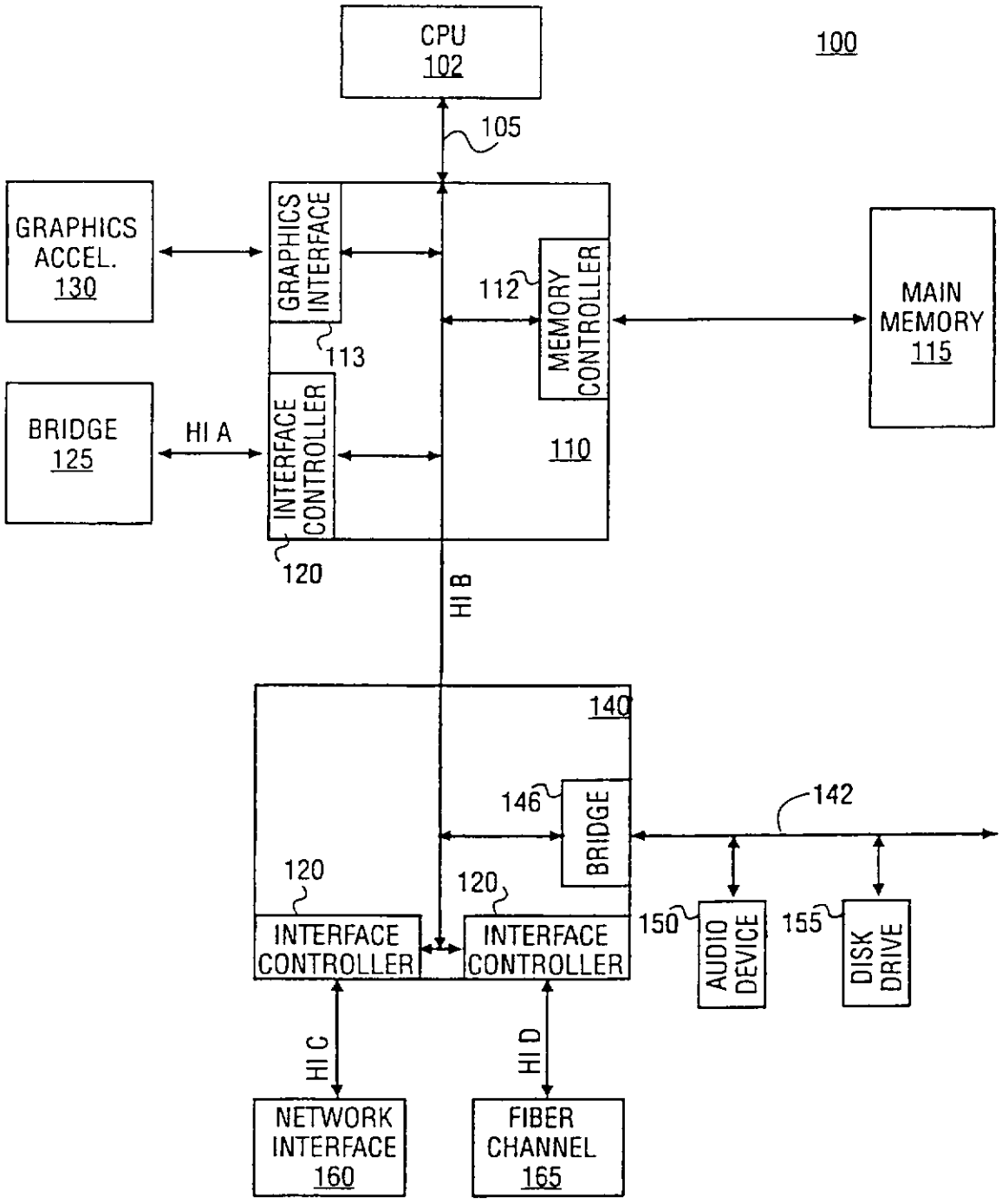

CPU
102
100
105
GRAPHICS
ACCEL.
130
GRAPHICS
INTERFACE
113
112
MEMORY
CONTROLLER
MAIN
MEMORY
115
BRIDGE
125
HI A
INTERFACE
CONTROLLER
110
120
HI B
140
146
BRIDGE
142
120
120
150
155
INTERFACE
CONTROLLER
INTERFACE
CONTROLLER
AUDIO
DEVICE
DISK
DRIVE
HI C
HI D
NETWORK
INTERFACE
160
FIBER
CHANNEL
165

FIG. 1

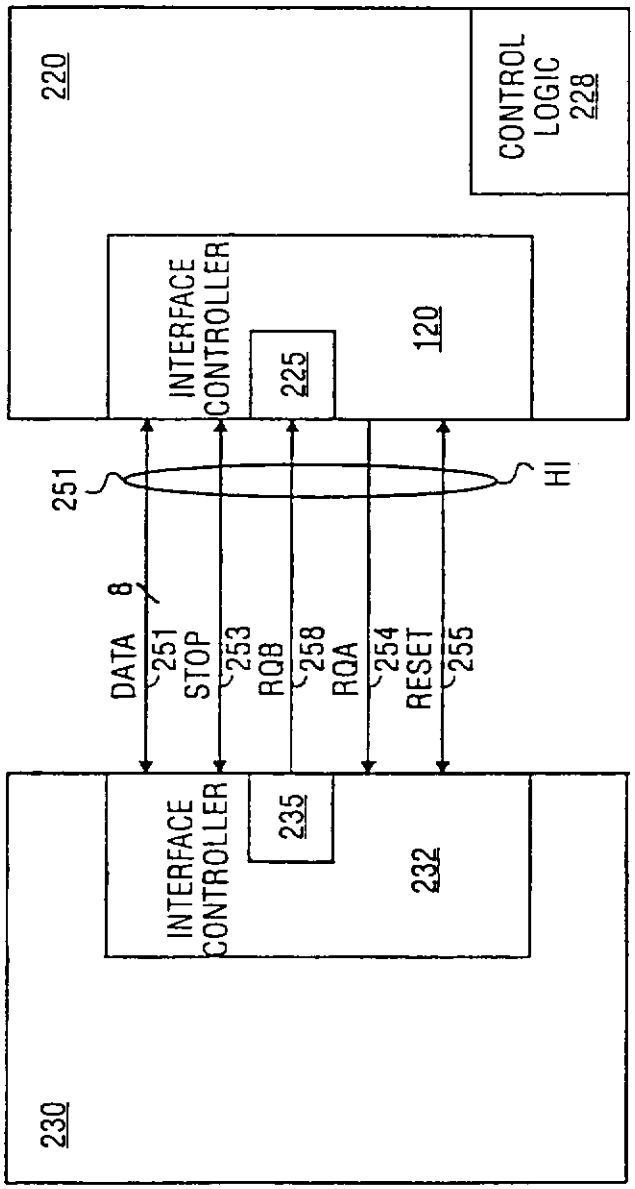

220
CONTROL LOGIC 228
INTERFACE CONTROLLER
225
120
251
HI
DATA 8
251
STOP
253
RQB
258
RQA
254
RESET
255
INTERFACE CONTROLLER
235
232
230

FIG. 2

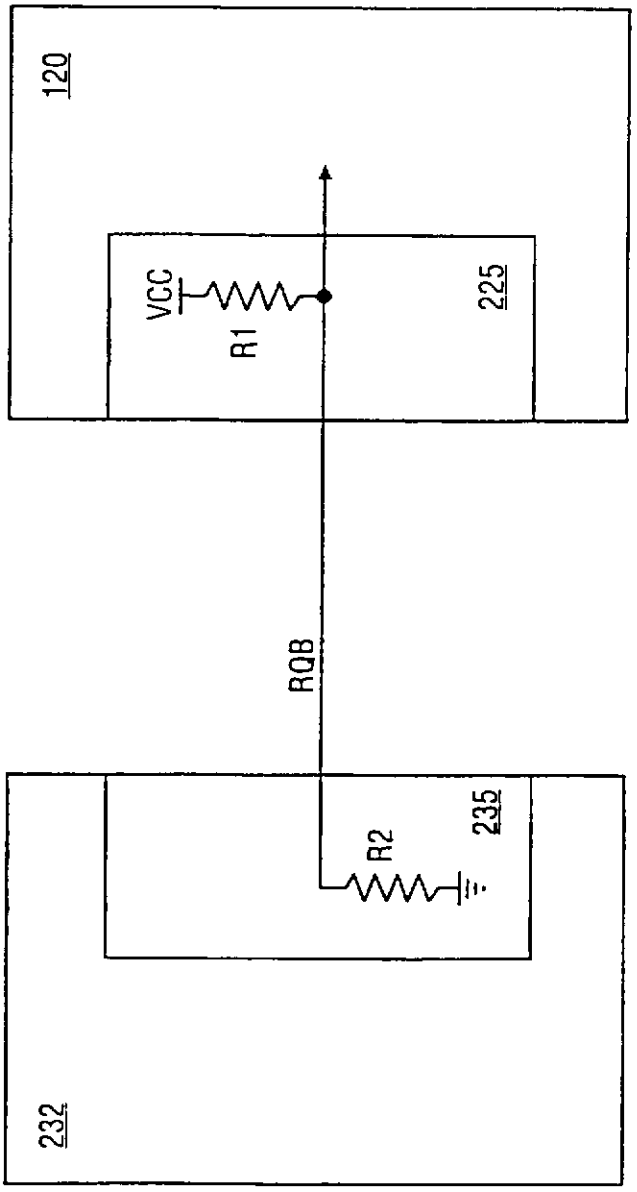


FIG. 3

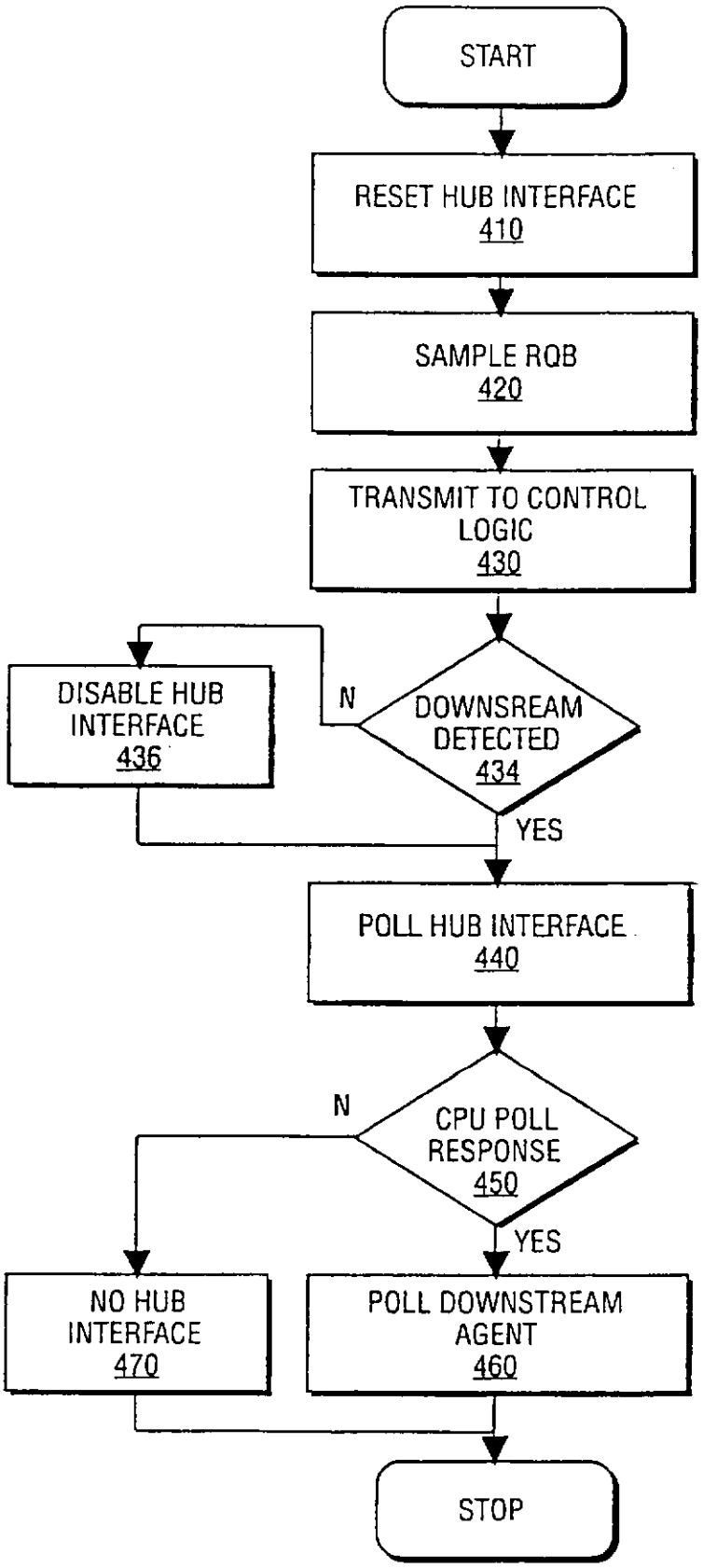

START
RESET HUB INTERFACE
410
SAMPLE RQB
420
TRANSMIT TO CONTROL LOGIC
430
DOWNSREAM DETECTED
434
N
DISABLE HUB INTERFACE
436
YES
POLL HUB INTERFACE
440
CPU POLL RESPONSE
450
N
YES
NO HUB INTERFACE
470
POLL DOWNSTREAM AGENT
460
STOP

FIG. 4

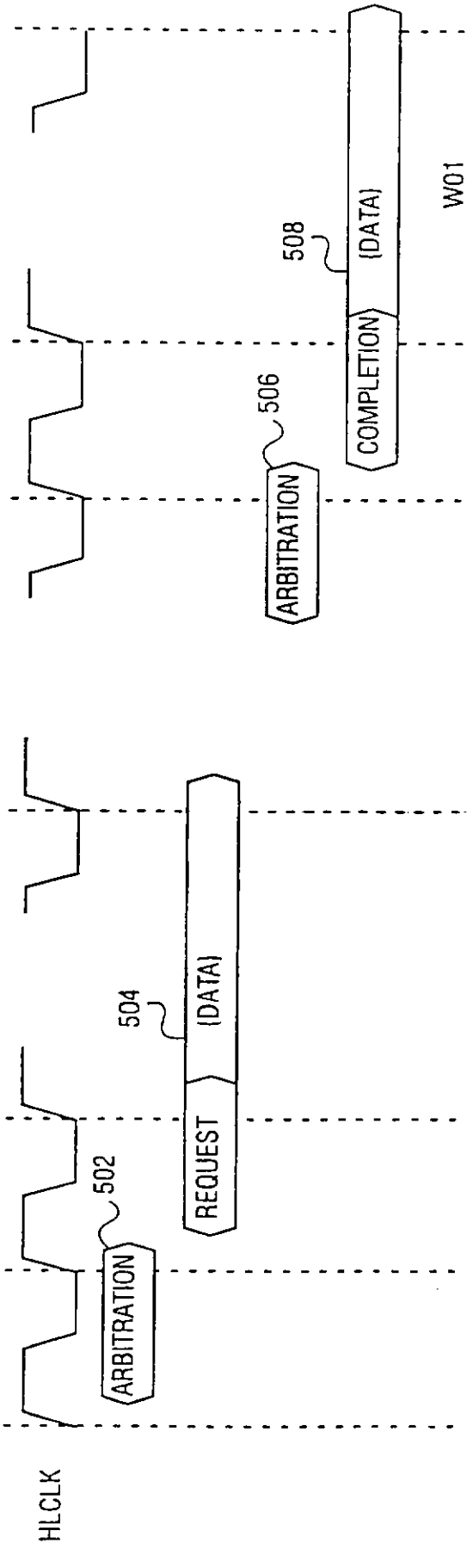

HLCLK
ARBITRATION
502
REQUEST
(DATA)
504
ARBITRATION
506
COMPLETION
(DATA)
508
W01

FIG. 5

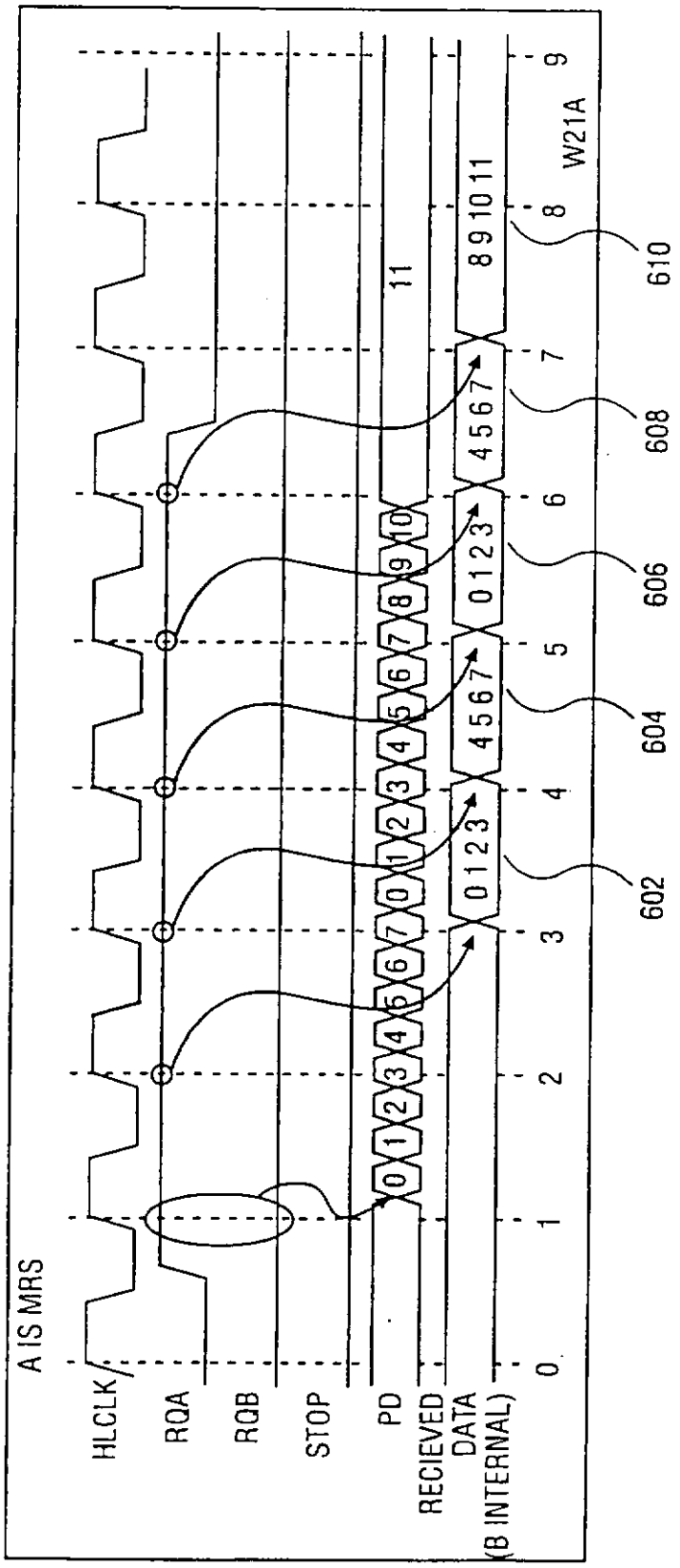

A IS MRS
HLCLK
RQA
RQB
STOP
PD
RECIEVED DATA (B INTERNAL)
0
1
2
3
4
5
6
7
8
9
W21A
602
604
606
608
610

FIG. 6

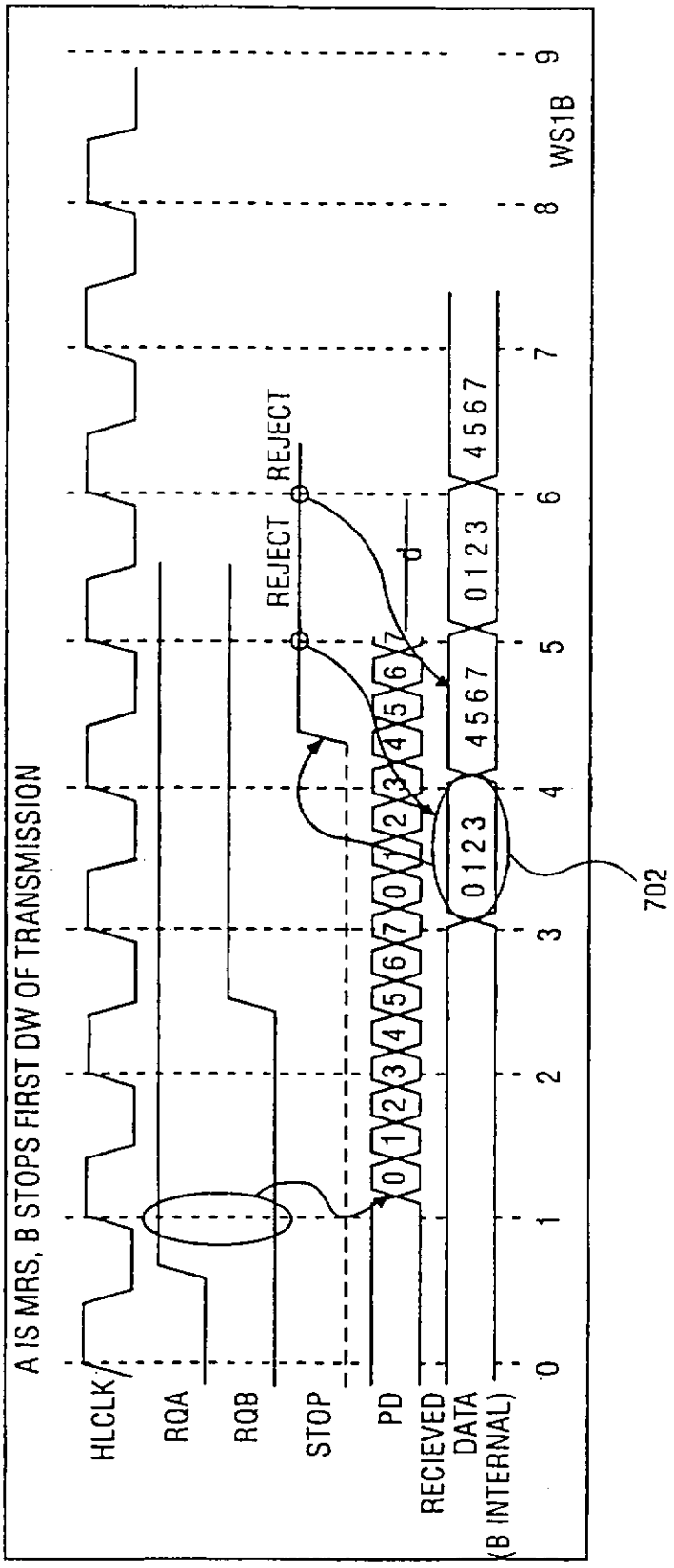

A IS MRS, B STOPS FIRST DW OF TRANSMISSION
HLCLK
ROA
ROB
STOP
PD
RECIEVED DATA (B INTERNAL)
REJECT
REJECT
0 1 2 3 4 5 6 7 8 9
WS1B
0123
4567
0123
4567
d
702

FIG. 7

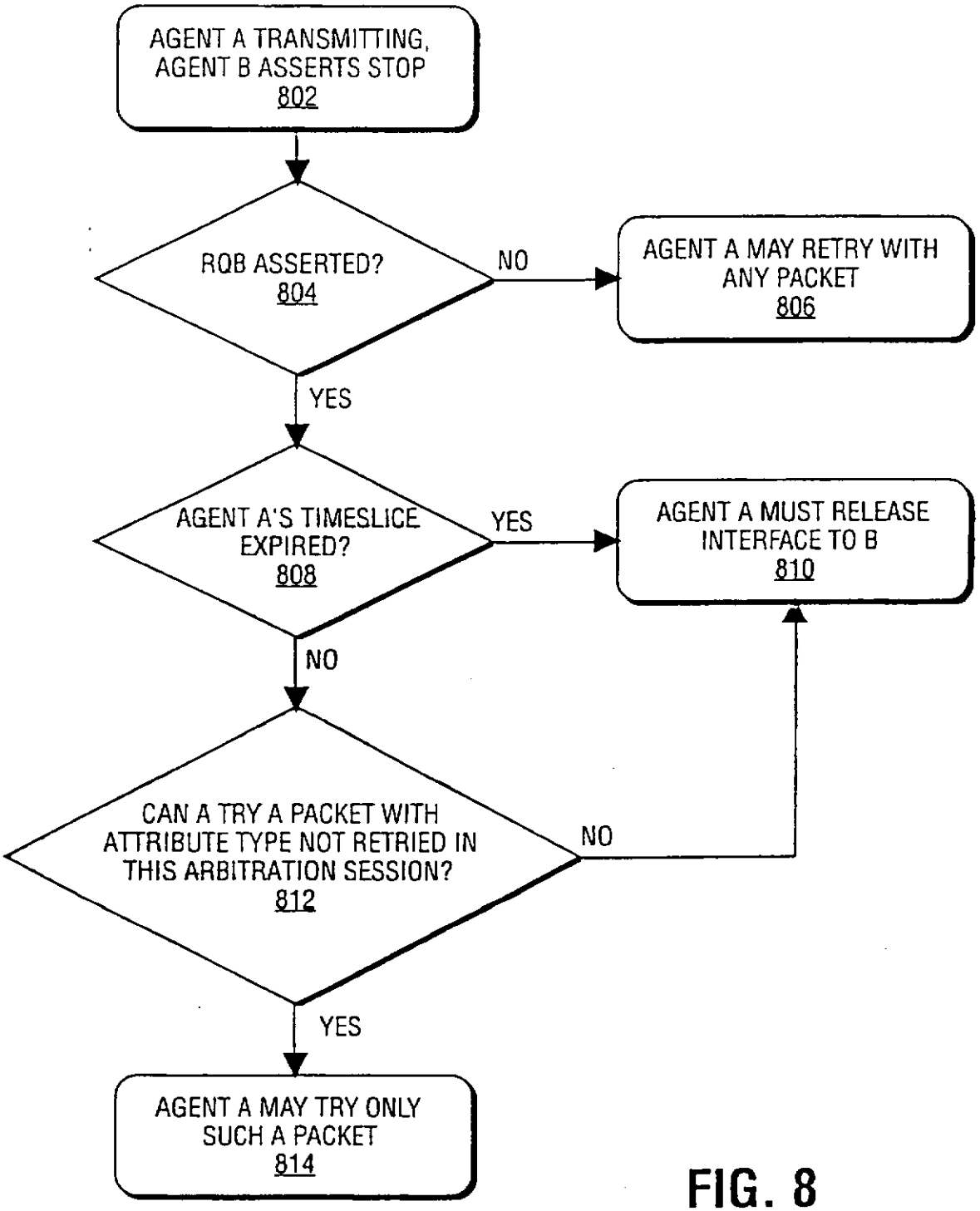

AGENT A TRANSMITTING, AGENT B ASSERTS STOP
802
RQB ASSERTED?
804
NO
AGENT A MAY RETRY WITH ANY PACKET
806
YES
AGENT A'S TIMESLICE EXPIRED?
808
YES
AGENT A MUST RELEASE INTERFACE TO B
810
NO
CAN A TRY A PACKET WITH ATTRIBUTE TYPE NOT RETRIED IN THIS ARBITRATION SESSION?
812
NO
YES
AGENT A MAY TRY ONLY SUCH A PACKET
814

FIG. 8

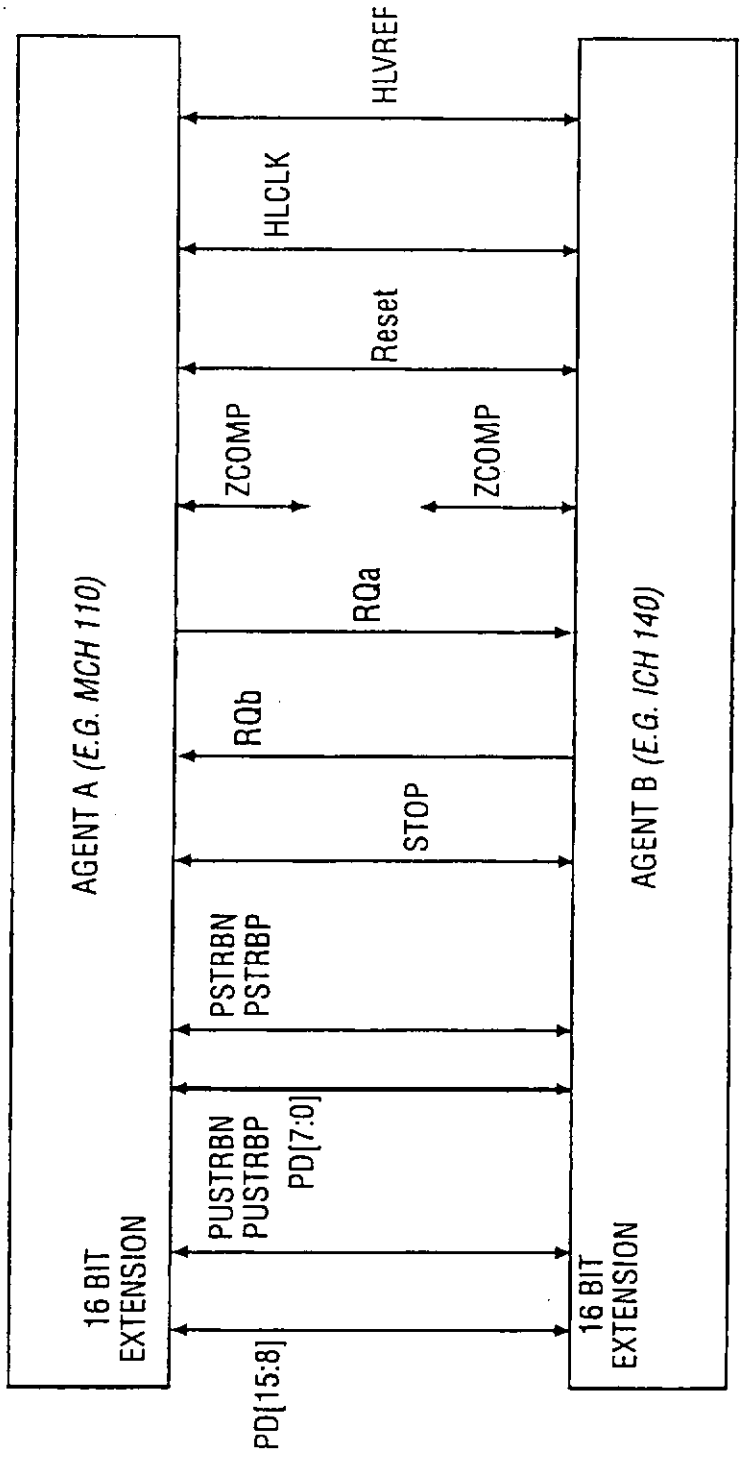

AGENT A (E.G. MCH 110)
AGENT B (E.G. ICH 140)
HLVREF
HLCLK
Reset
ZCOMP
ZCOMP
RQa
RQb
STOP
PSTRBN
PSTRBP
PUSTRBN
PUSTRBP
PD[7:0]
16 BIT EXTENSION
16 BIT EXTENSION
PD[15:8]

FIG. 9

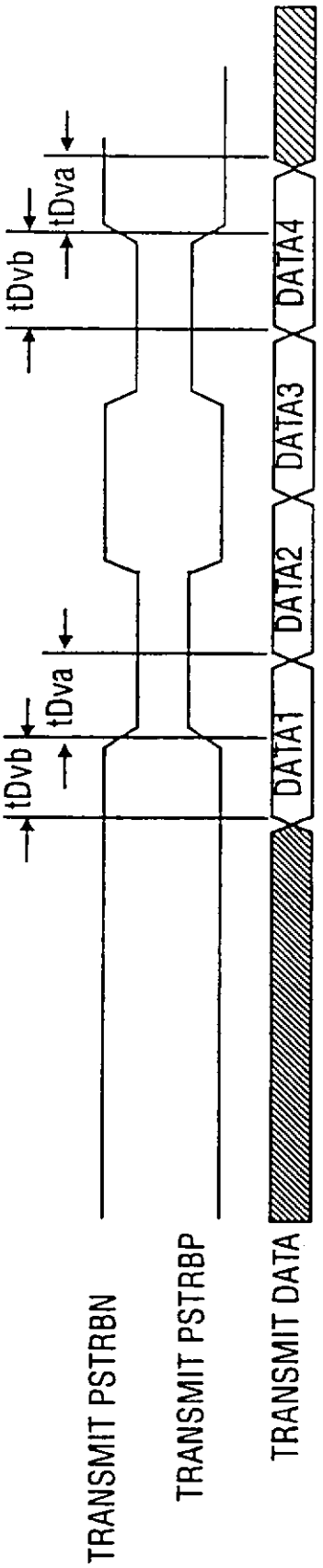

TRANSMIT PSTRBN
TRANSMIT PSTRBP
TRANSMIT DATA
tDvb
tDva
tDvb
tDva
DATA1
DATA2
DATA3
DATA4

FIG. 10