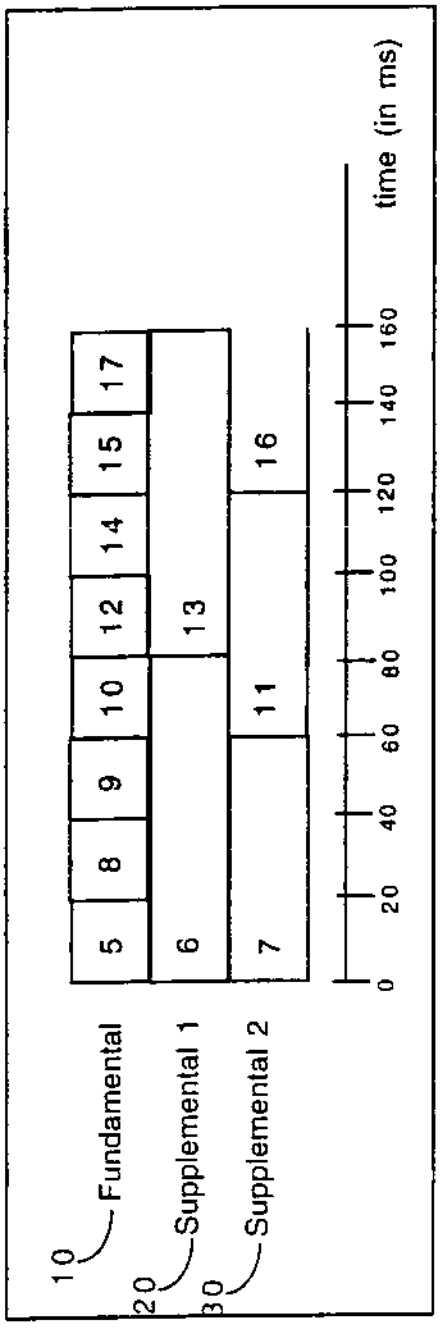

5
10 Fundamental
20 Supplemental 1
30 Supplemental 2
5 8 9 10 12 14 15 17
6 13
7 11 16
0 20 40 60 80 100 120 140 160
time (in ms)

FIG. 1A

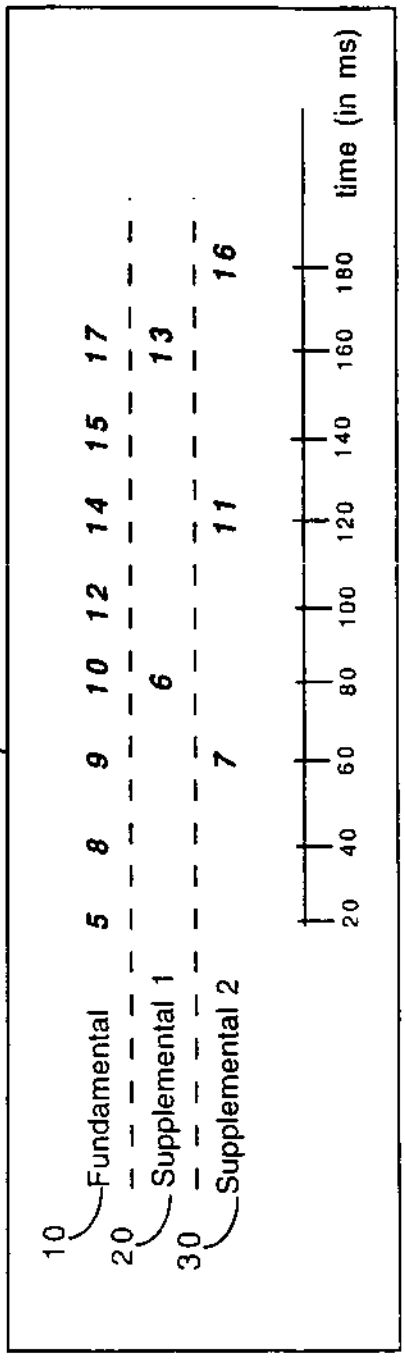

45
10 Fundamental
20 Supplemental 1
30 Supplemental 2
5 8 9 10 12 14 15 17
6 13
7 11 16
20 40 60 80 100 120 140 160 180
time (in ms)

FIG. 1B

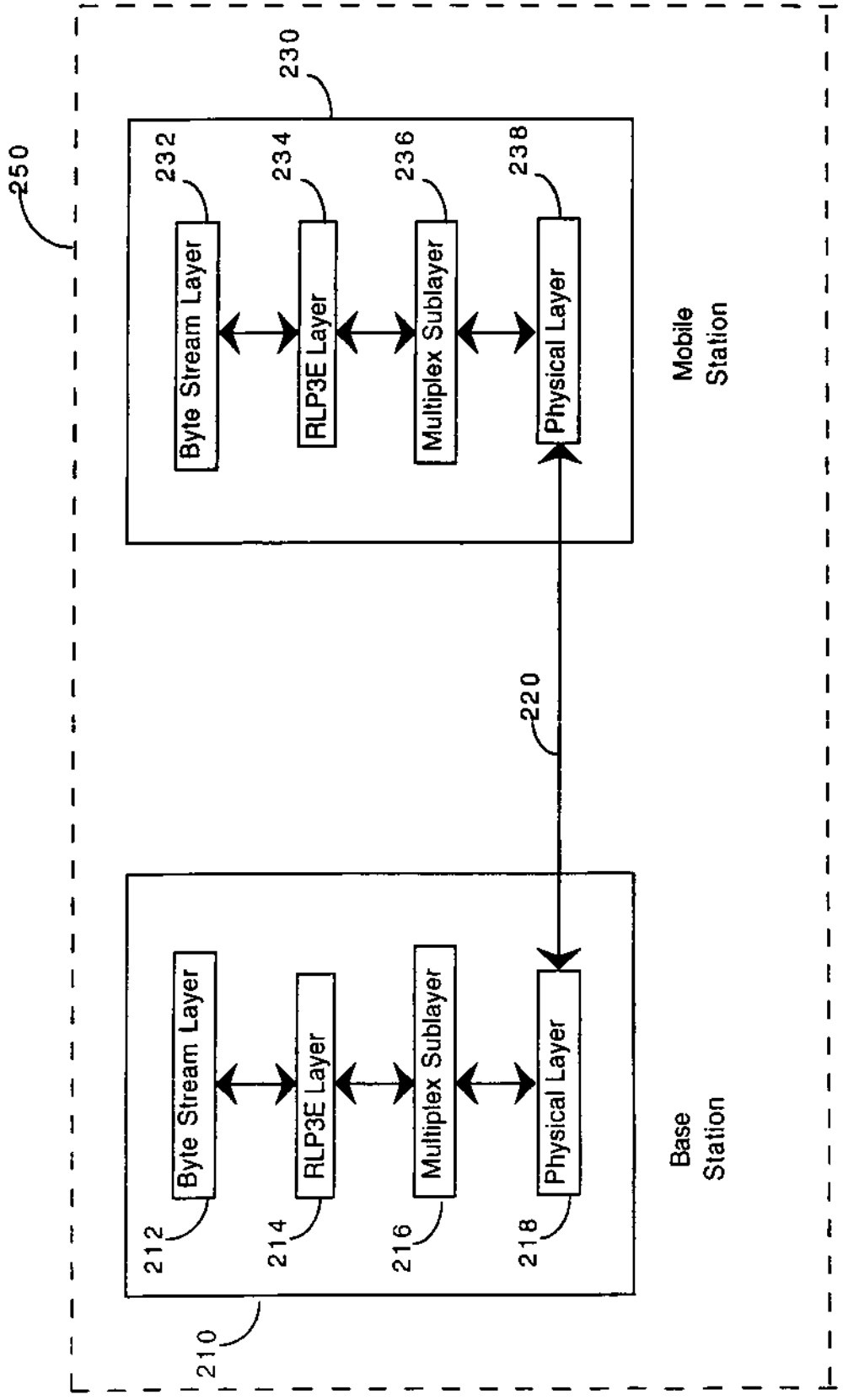

250
230
232
234
236
238
Byte Stream Layer
RLP3E Layer
Multiplex Sublayer
Physical Layer
Mobile Station
220
212
214
216
218
Byte Stream Layer
RLP3E Layer
Multiplex Sublayer
Physical Layer
Base Station
210

FIG. 2

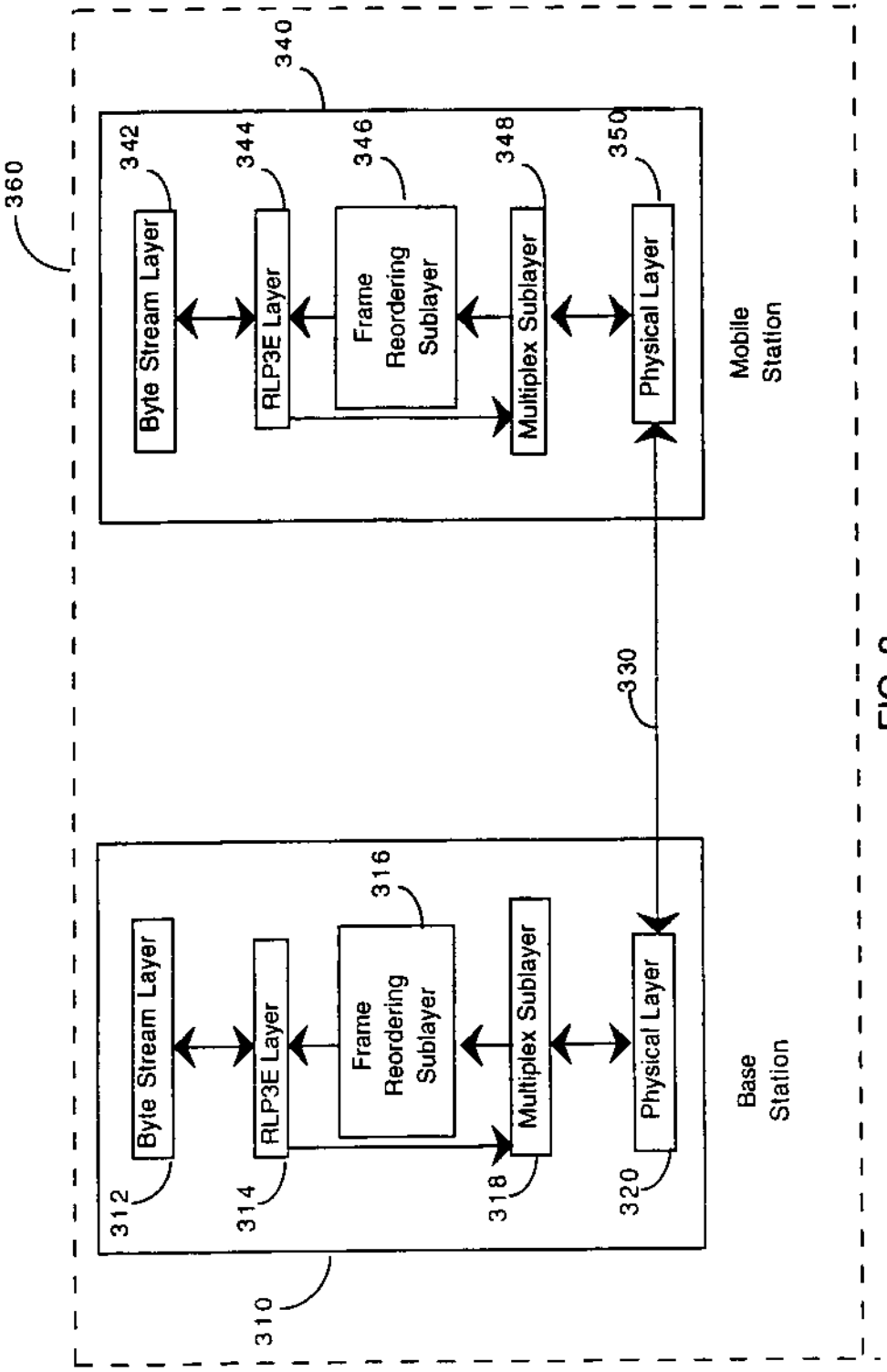

360
340
342
344
346
348
350
Byte Stream Layer
RLP3E Layer
Frame Reordering Sublayer
Multiplex Sublayer
Physical Layer
Mobile Station
330
316
312
314
318
320
Byte Stream Layer
RLP3E Layer
Frame Reordering Sublayer
Multiplex Sublayer
Physical Layer
Base Station
310

FIG. 3

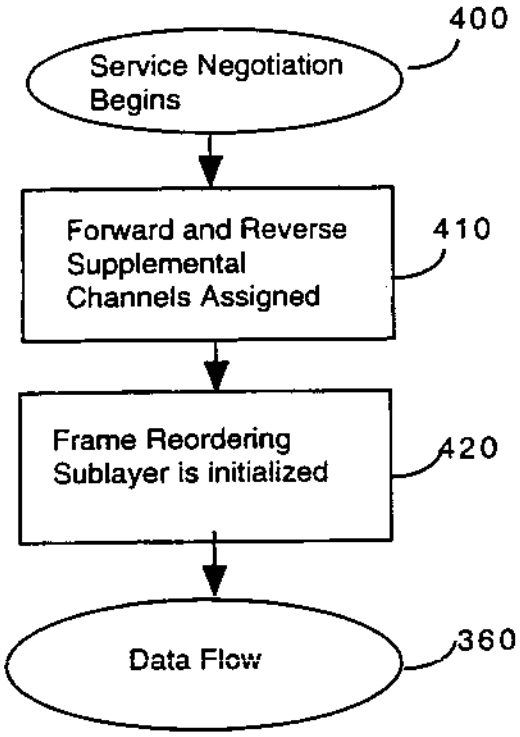

400
Service Negotiation Begins
Forward and Reverse Supplemental Channels Assigned
410
Frame Reordering Sublayer is initialized
420
Data Flow
360

FIG. 4

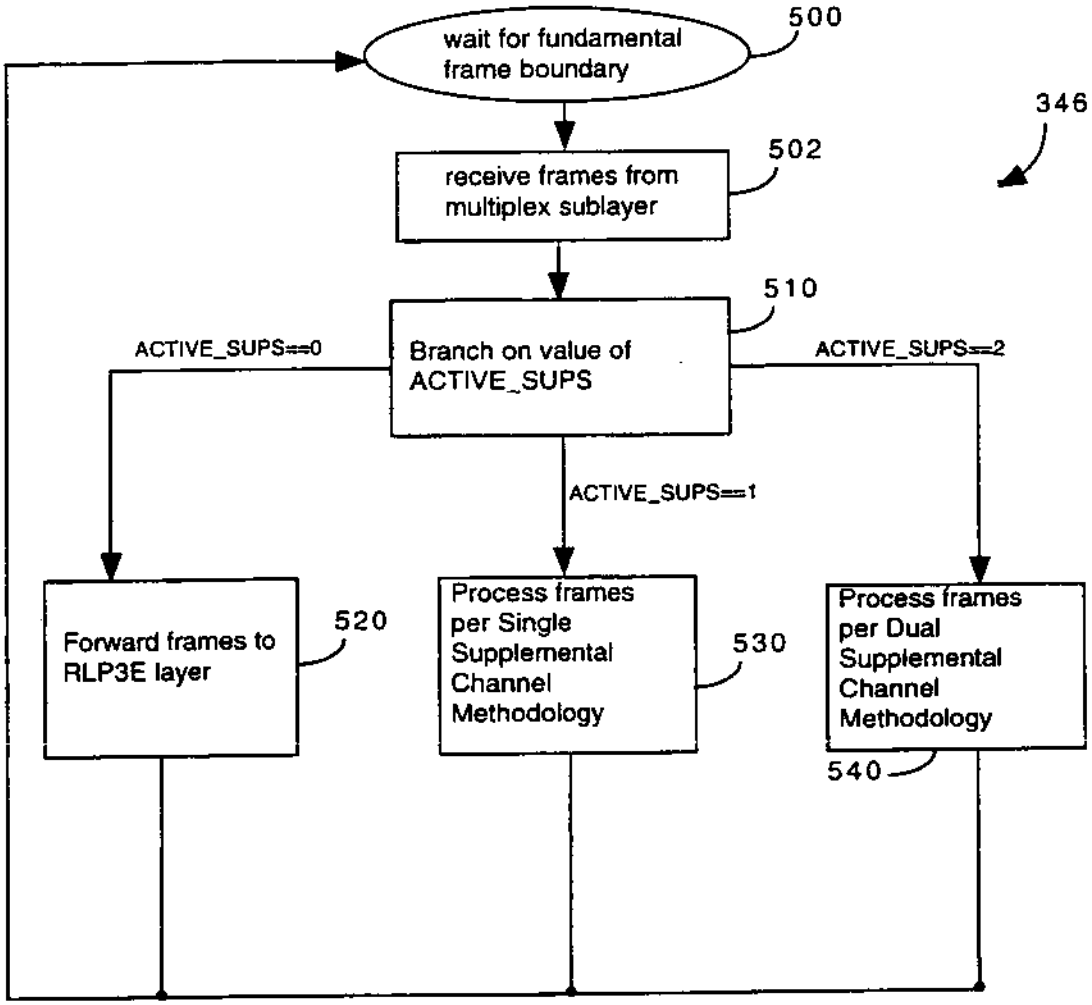

wait for fundamental frame boundary
500
346
receive frames from multiplex sublayer
502
510
Branch on value of ACTIVE_SUPS
ACTIVE_SUPS==0
ACTIVE_SUPS==1
ACTIVE_SUPS==2
Forward frames to RLP3E layer
520
Process frames per Single Supplemental Channel Methodology
530
Process frames per Dual Supplemental Channel Methodology
540

FIG. 5

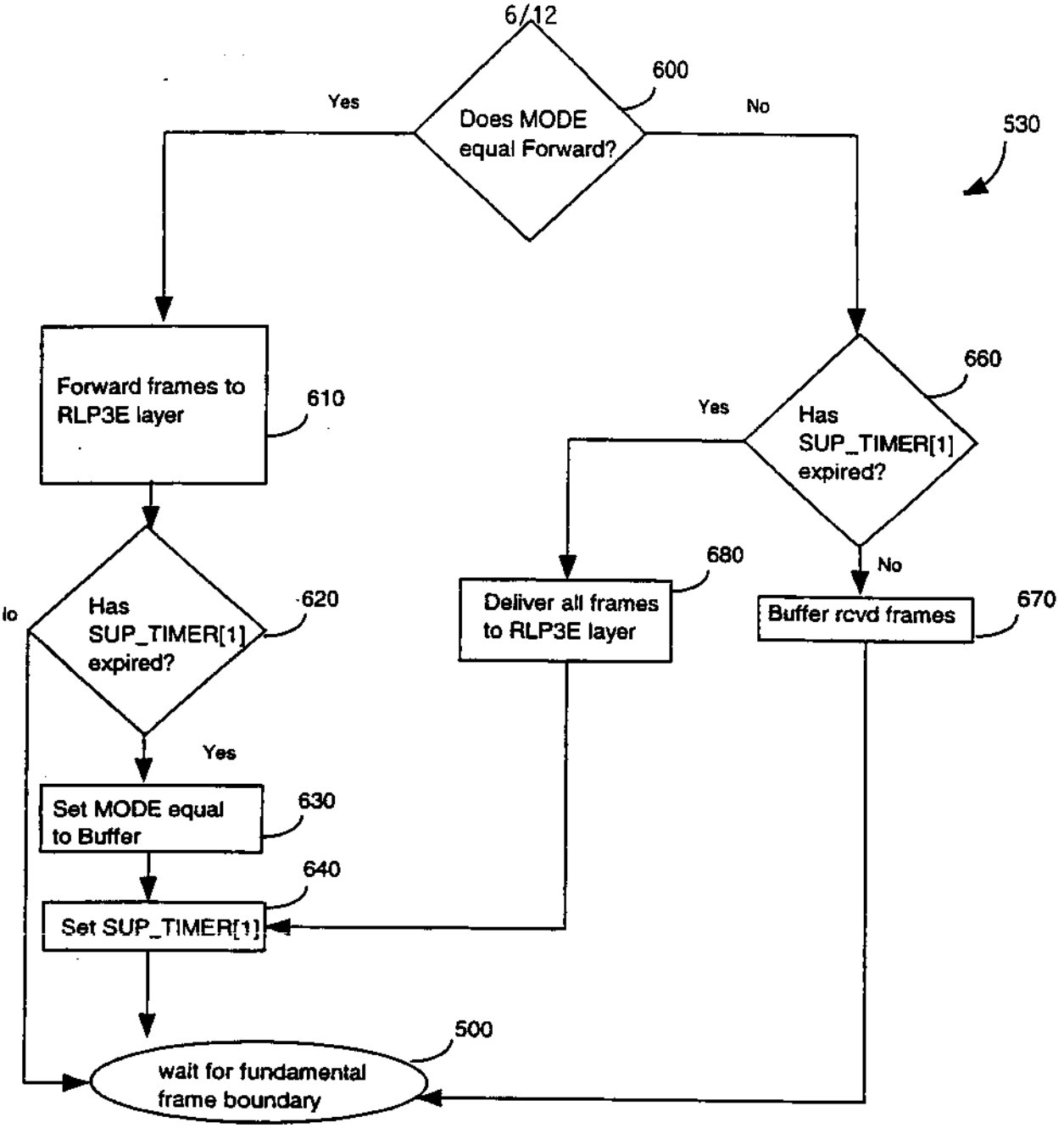

Does MODE equal Forward?
600
Yes
No
530
Forward frames to RLP3E layer
610
Has SUP_TIMER[1] expired?
620
Yes
Set MODE equal to Buffer
630
Set SUP_TIMER[1]
640
Has SUP_TIMER[1] expired?
660
Yes
No
Deliver all frames to RLP3E layer
680
Buffer rcvd frames
670
wait for fundamental frame boundary
500

FIG. 6

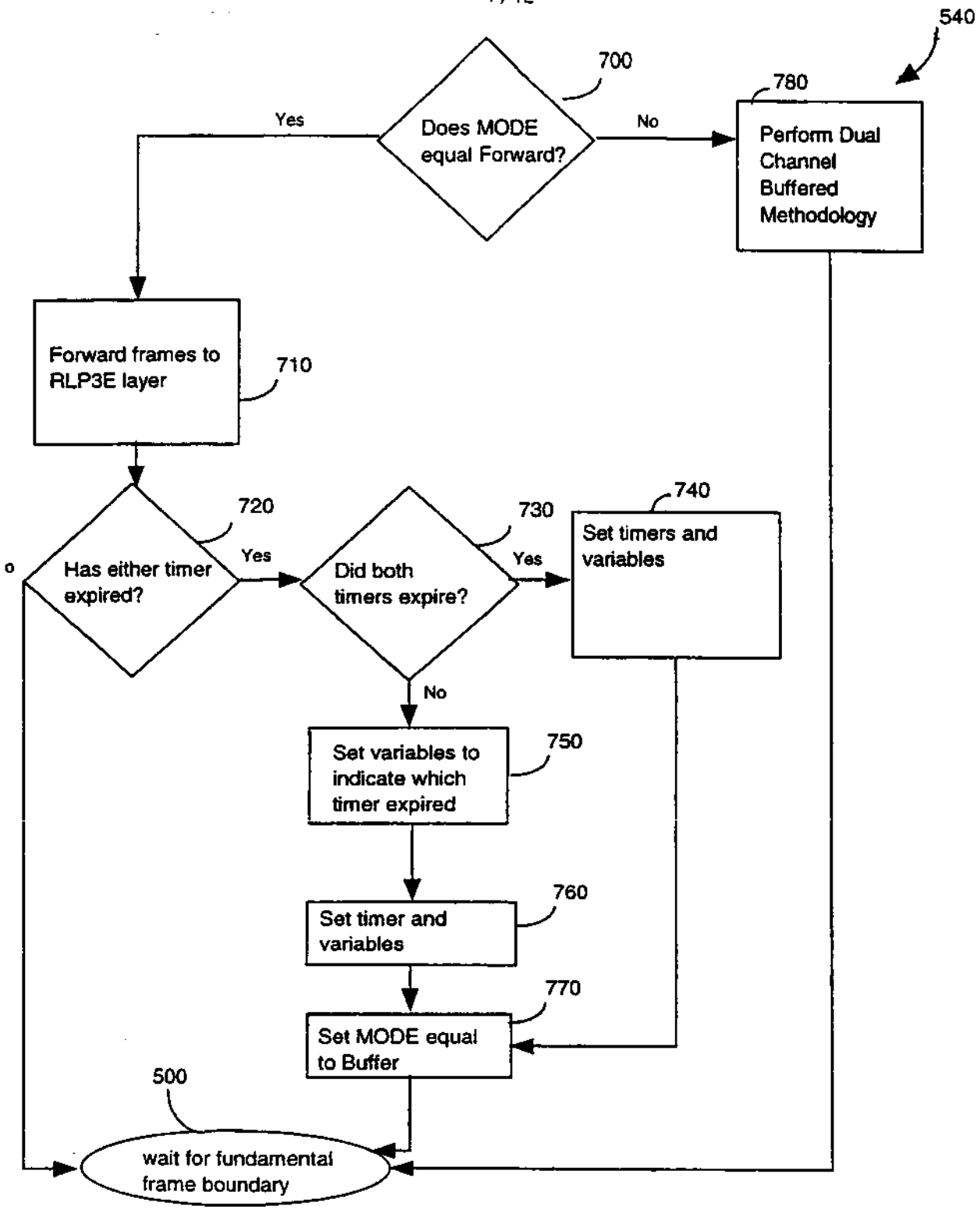

540
700
Does MODE equal Forward?
Yes
No
780
Perform Dual Channel Buffered Methodology
Forward frames to RLP3E layer
710
720
Has either timer expired?
Yes
730
Did both timers expire?
Yes
740
Set timers and variables
No
750
Set variables to indicate which timer expired
760
Set timer and variables
770
Set MODE equal to Buffer
500
wait for fundamental frame boundary

FIG. 7

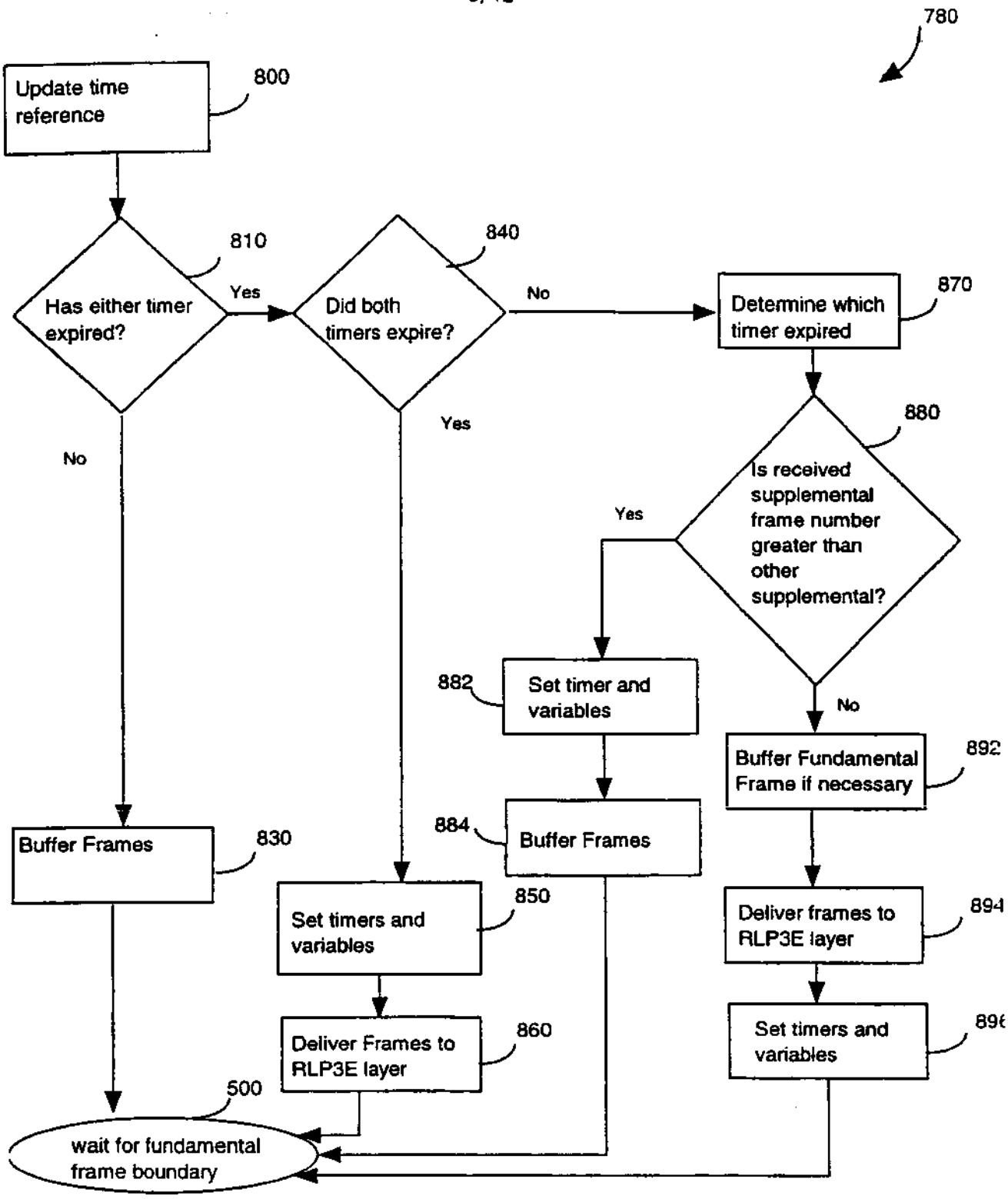

780
Update time reference
800
Has either timer expired?
810
Yes
Did both timers expire?
840
No
Determine which timer expired
870
No
Yes
Is received supplemental frame number greater than other supplemental?
880
Yes
No
Buffer Frames
830
Set timers and variables
850
Deliver Frames to RLP3E layer
860
Set timer and variables
882
Buffer Frames
884
Buffer Fundamental Frame if necessary
892
Deliver frames to RLP3E layer
894
Set timers and variables
500
wait for fundamental frame boundary

FIG. 8

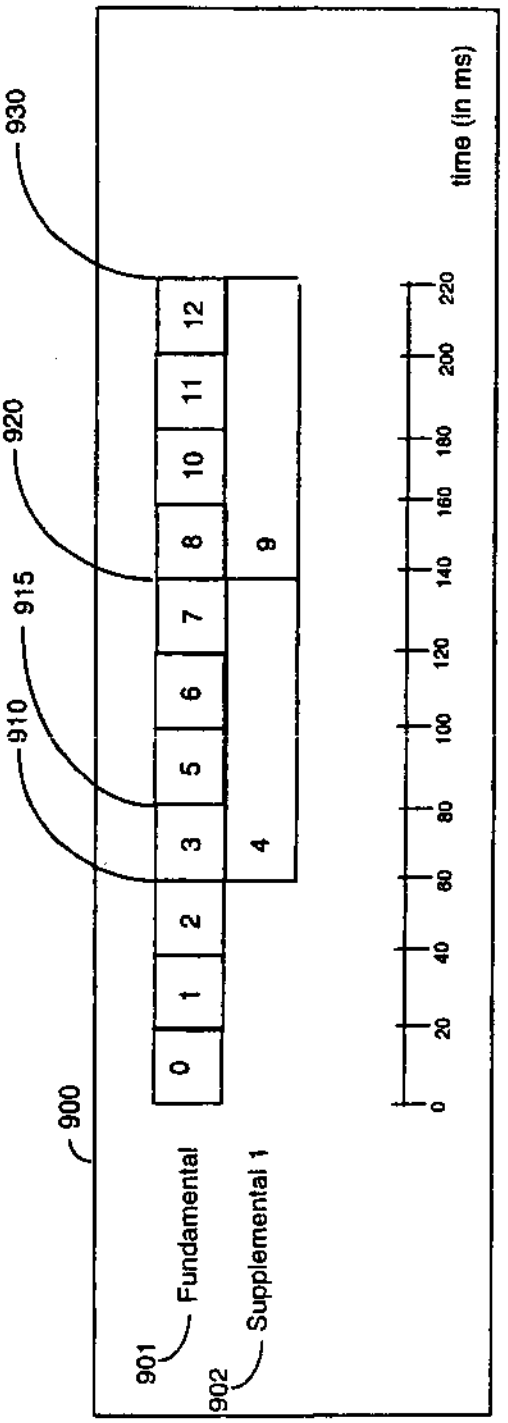

900
901
Fundamental
902
Supplemental 1
930
920
915
910
0
1
2
3
4
5
6
7
8
9
10
11
12
time (in ms)
0
20
40
60
80
100
120
140
160
180
200
220

FIG. 9A

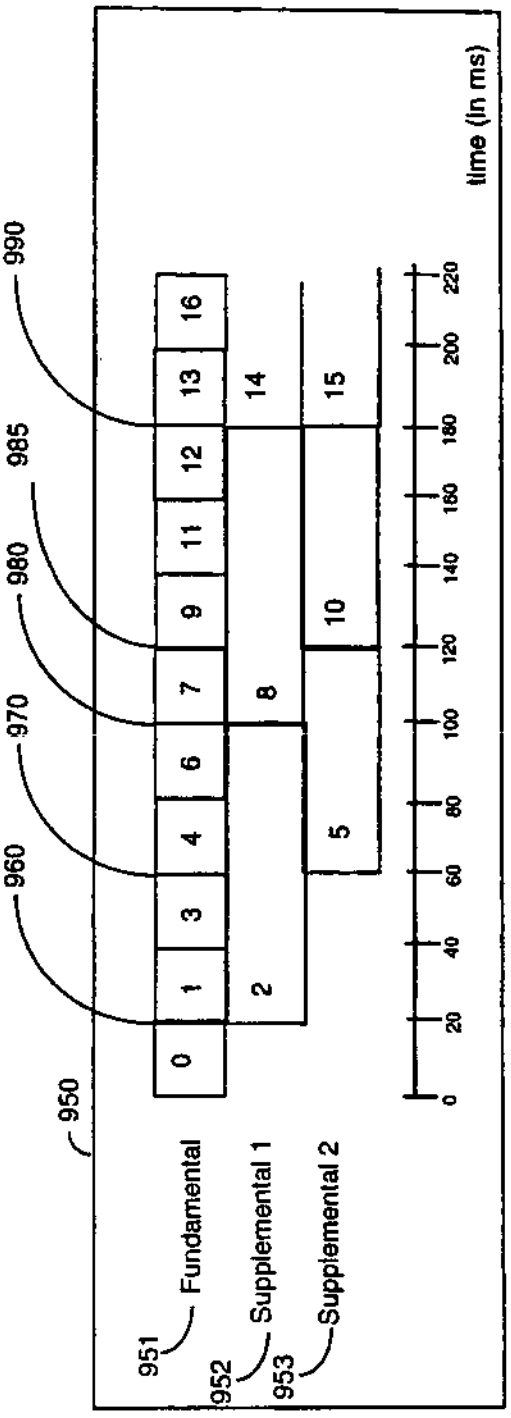

950
951
Fundamental
952
Supplemental 1
953
Supplemental 2
990
985
980
970
960
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
time (in ms)
0
20
40
60
80
100
120
140
160
180
200
220

FIG. 9B

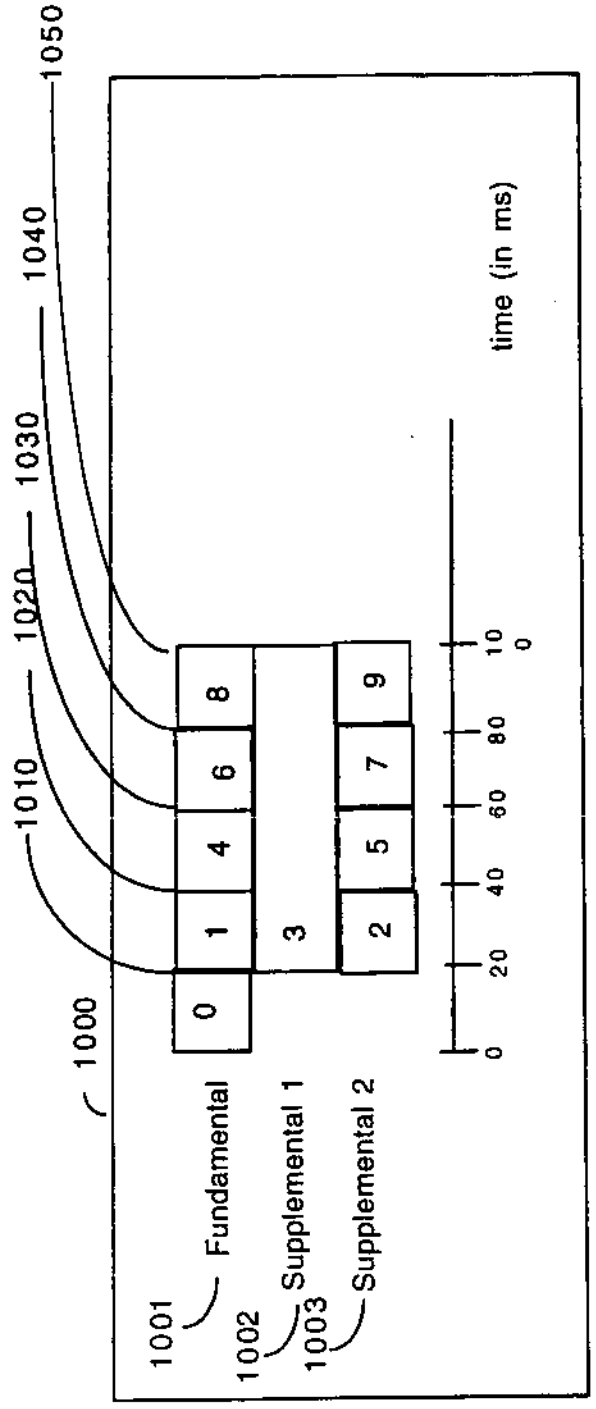

1050
1040
1030
1020
1010
1000
0
1
4
6
8
3
2
5
7
9
0
20
40
60
80
100
time (in ms)
1001
Fundamental
1002
Supplemental 1
1003
Supplemental 2

FIG. 10

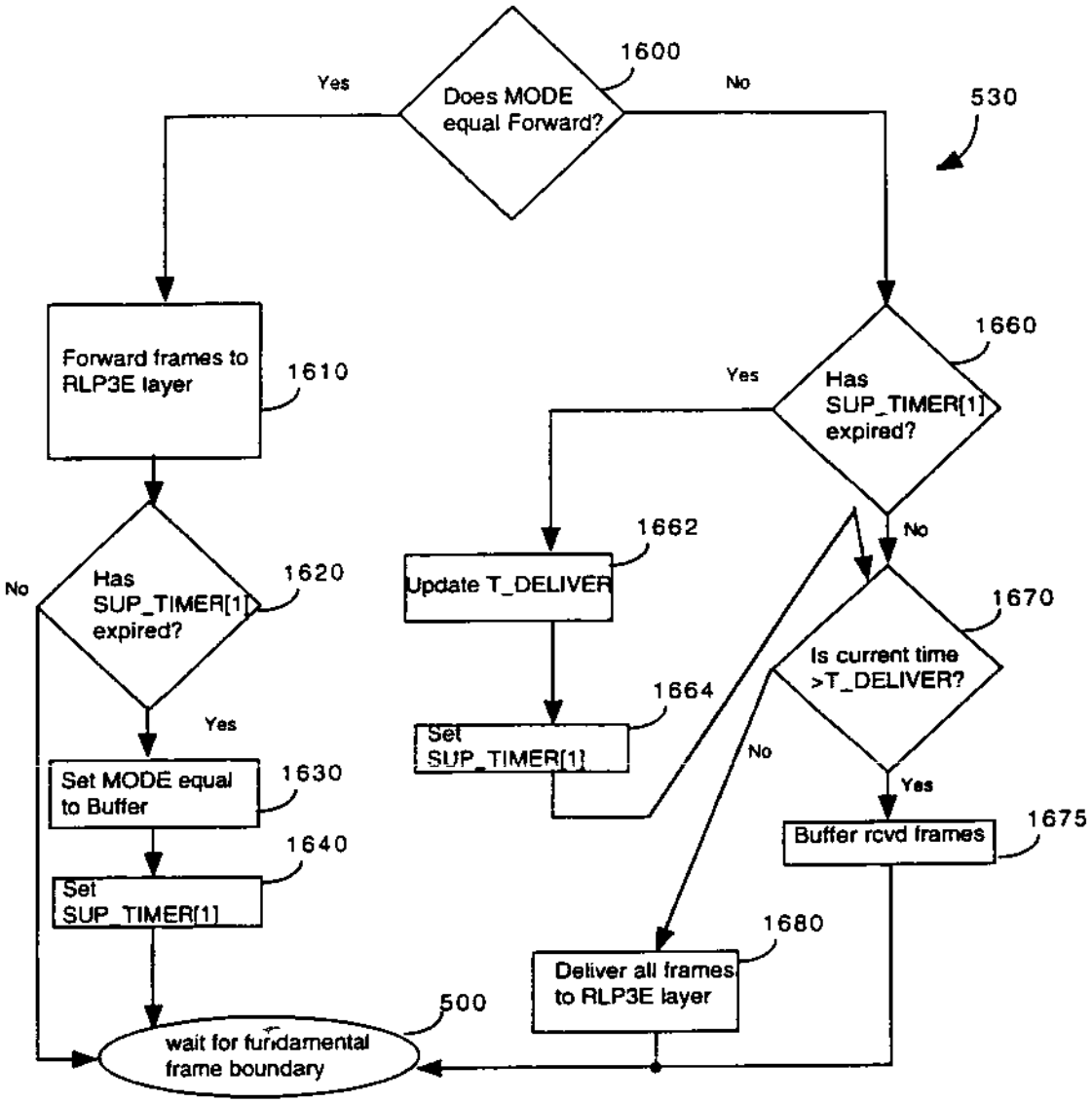

Does MODE equal Forward?
1600
Yes
No
530
Forward frames to RLP3E layer
1610
Has SUP_TIMER[1] expired?
1620
No
Yes
Set MODE equal to Buffer
1630
Set SUP_TIMER[1]
1640
Has SUP_TIMER[1] expired?
1660
Yes
No
Update T_DELIVER
1662
Set SUP_TIMER[1]
1664
Is current time >T_DELIVER?
1670
No
Yes
Buffer rcvd frames
1675
Deliver all frames to RLP3E layer
1680
wait for fundamental frame boundary
500

FIG. 11

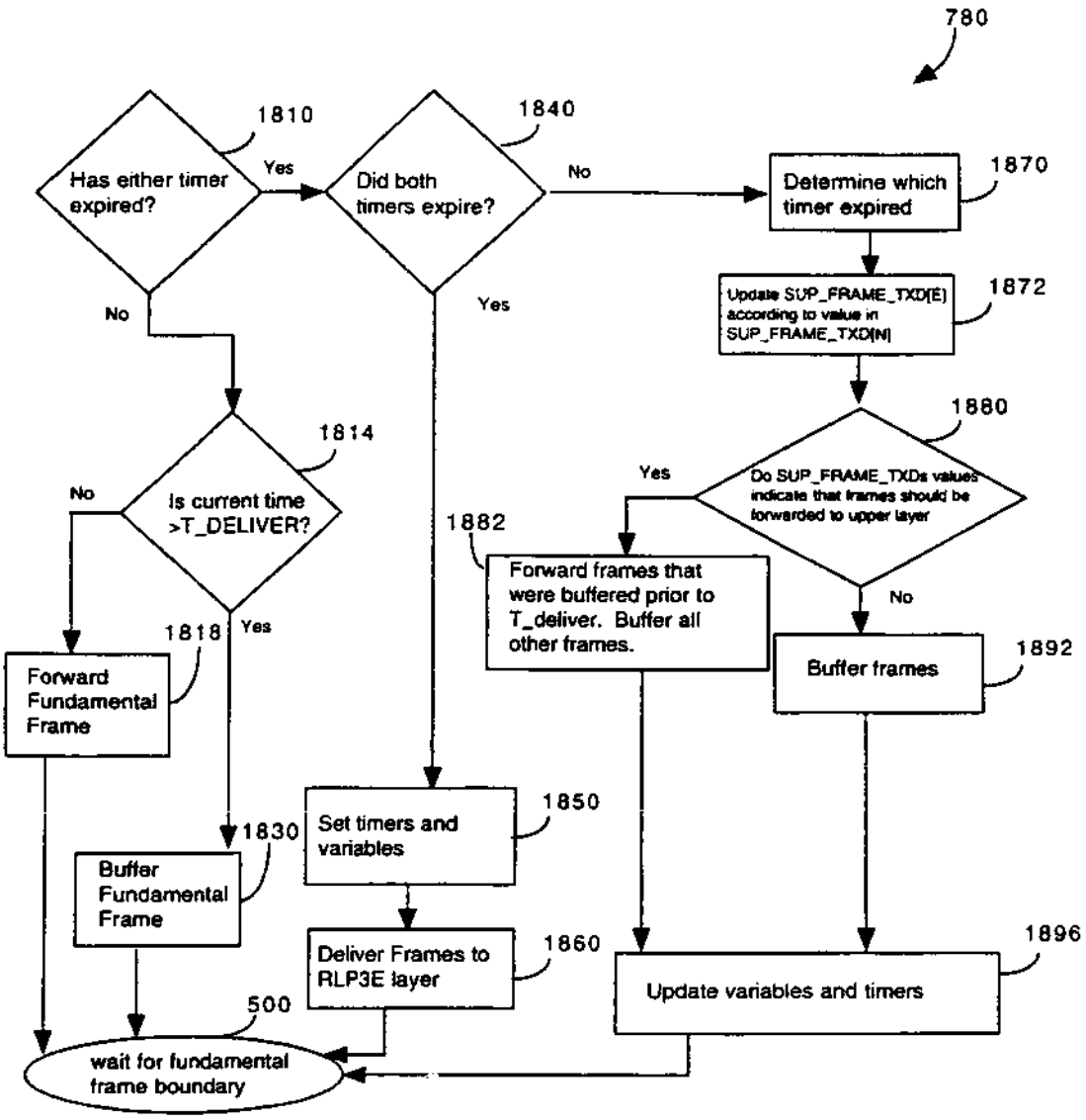

780
1810
Has either timer expired?
Yes
1840
Did both timers expire?
No
1870
Determine which timer expired
1872
Update SUP_FRAME_TXD[E] according to value in SUP_FRAME_TXD[N]
1880
Do SUP_FRAME_TXDs values indicate that frames should be forwarded to upper layer
Yes
No
1882
Forward frames that were buffered prior to T_deliver. Buffer all other frames.
1892
Buffer frames
No
1814
Is current time >T_DELIVER?
Yes
No
1818
Forward Fundamental Frame
Yes
1850
Set timers and variables
1830
Buffer Fundamental Frame
1860
Deliver Frames to RLP3E layer
1896
Update variables and timers
500
wait for fundamental frame boundary

FIG. 12