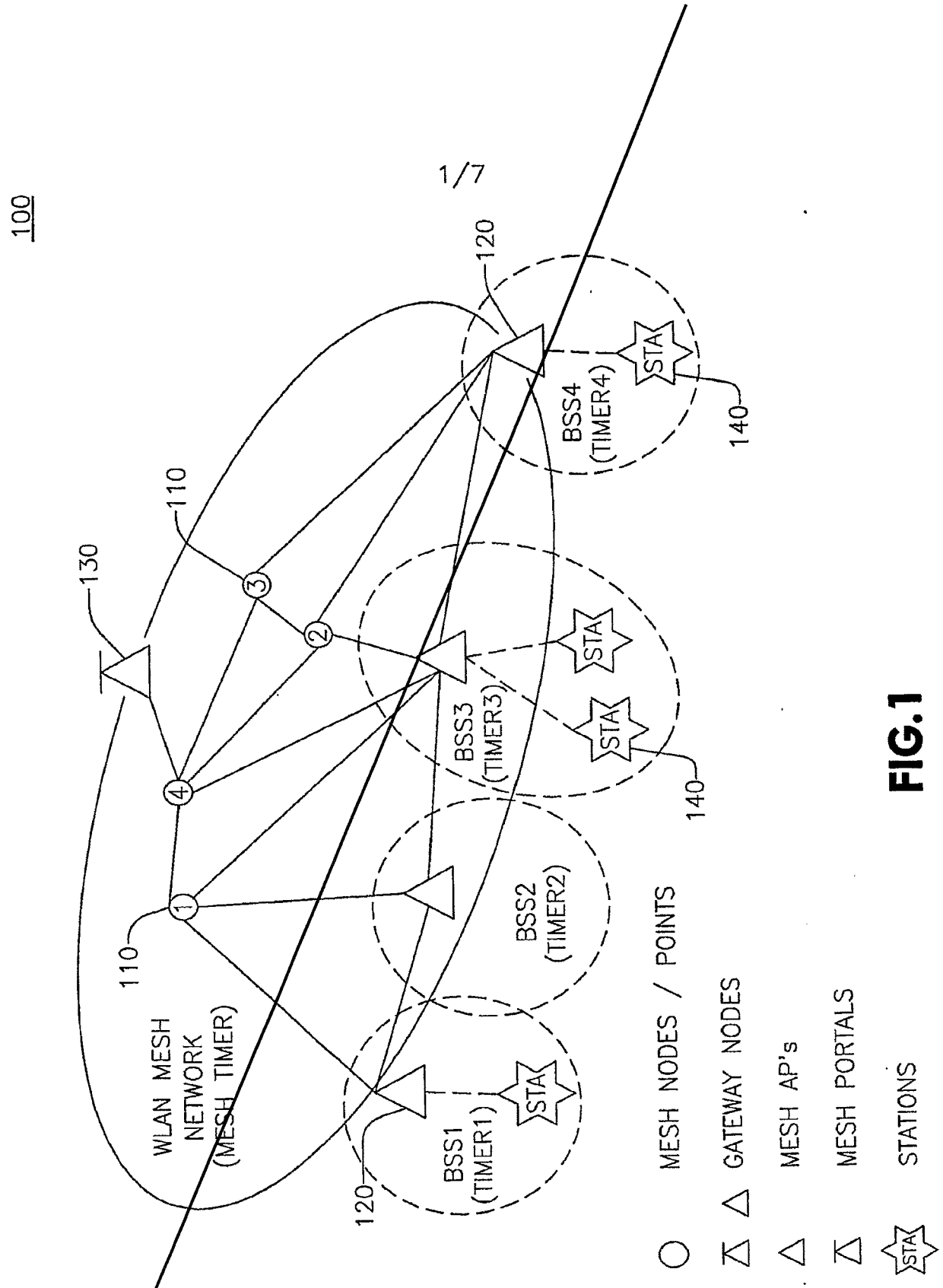

100
WLAN MESH NETWORK (MESH TIMER)
110
120
130
140
BSS1 (TIMER1)
BSS2 (TIMER2)
BSS3 (TIMER3)
BSS4 (TIMER4)
STA
MESH NODES / POINTS
GATEWAY NODES
MESH AP's
MESH PORTALS
STATIONS

FIG.1

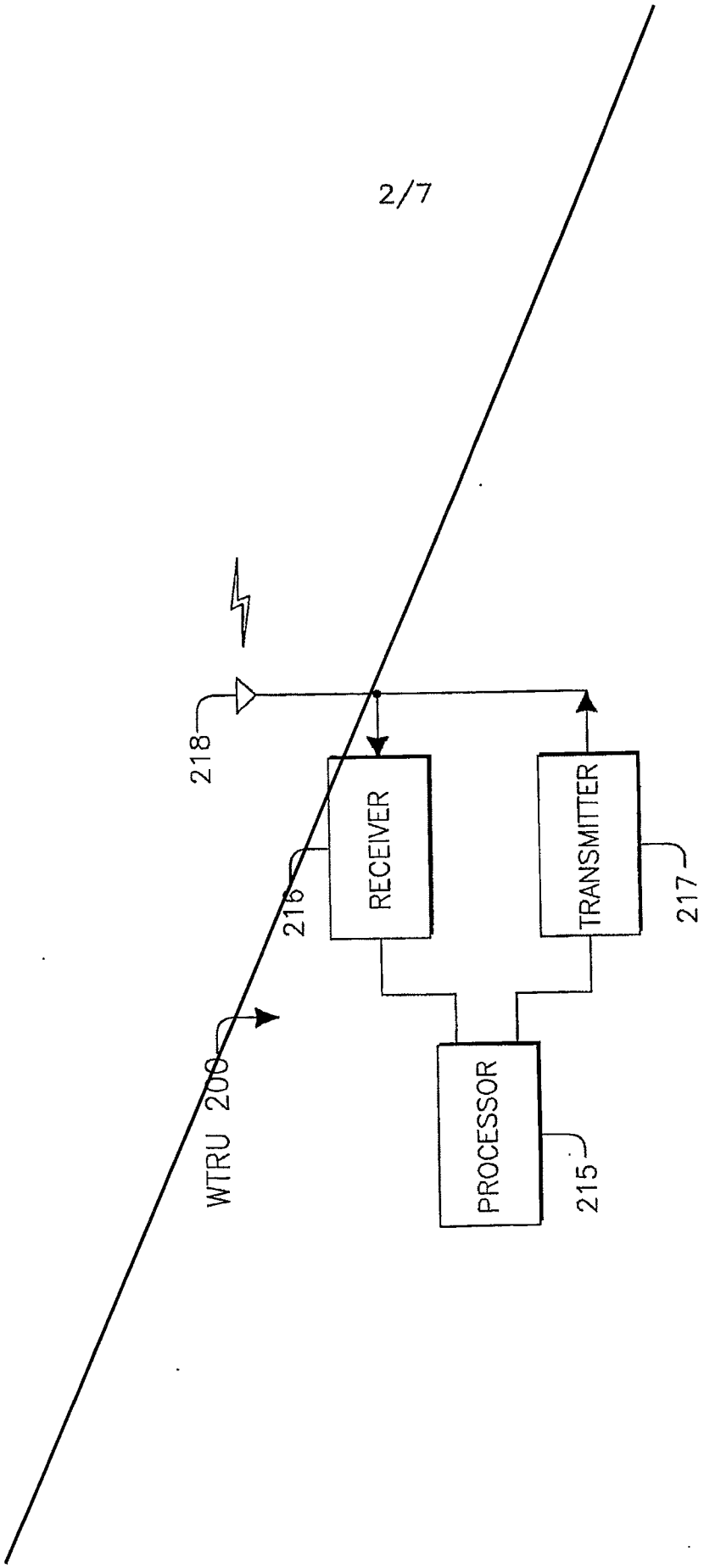


FIG.2

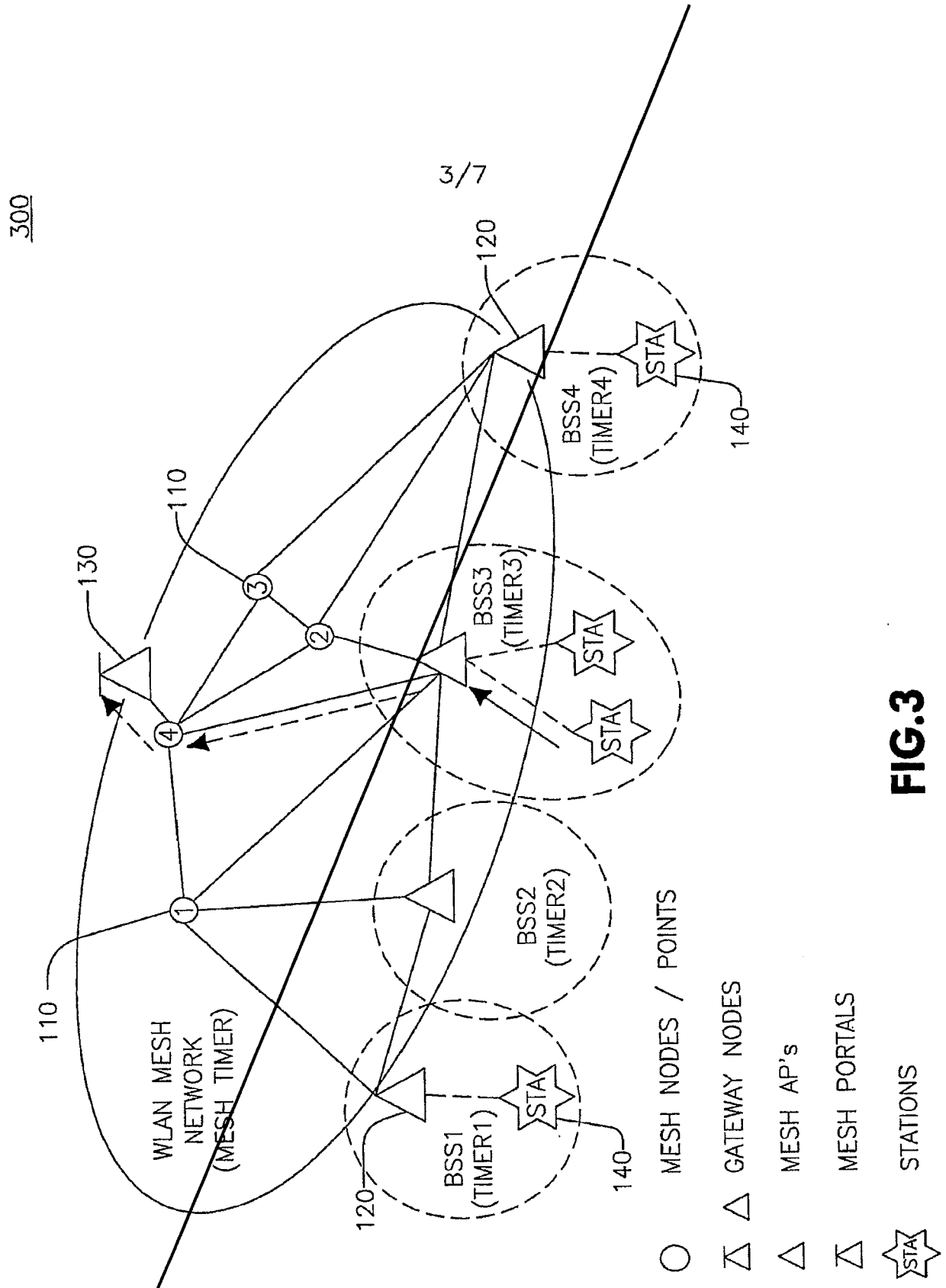

300
110
WLAN MESH NETWORK (MESH TIMER)
130
110
120
BSS1 (TIMER1)
STA
140
BSS2 (TIMER2)
BSS3 (TIMER3)
STA
STA
BSS4 (TIMER4)
STA
140
1
2
3
4
MESH NODES / POINTS
GATEWAY NODES
MESH AP's
MESH PORTALS
STATIONS
STA

FIG.3

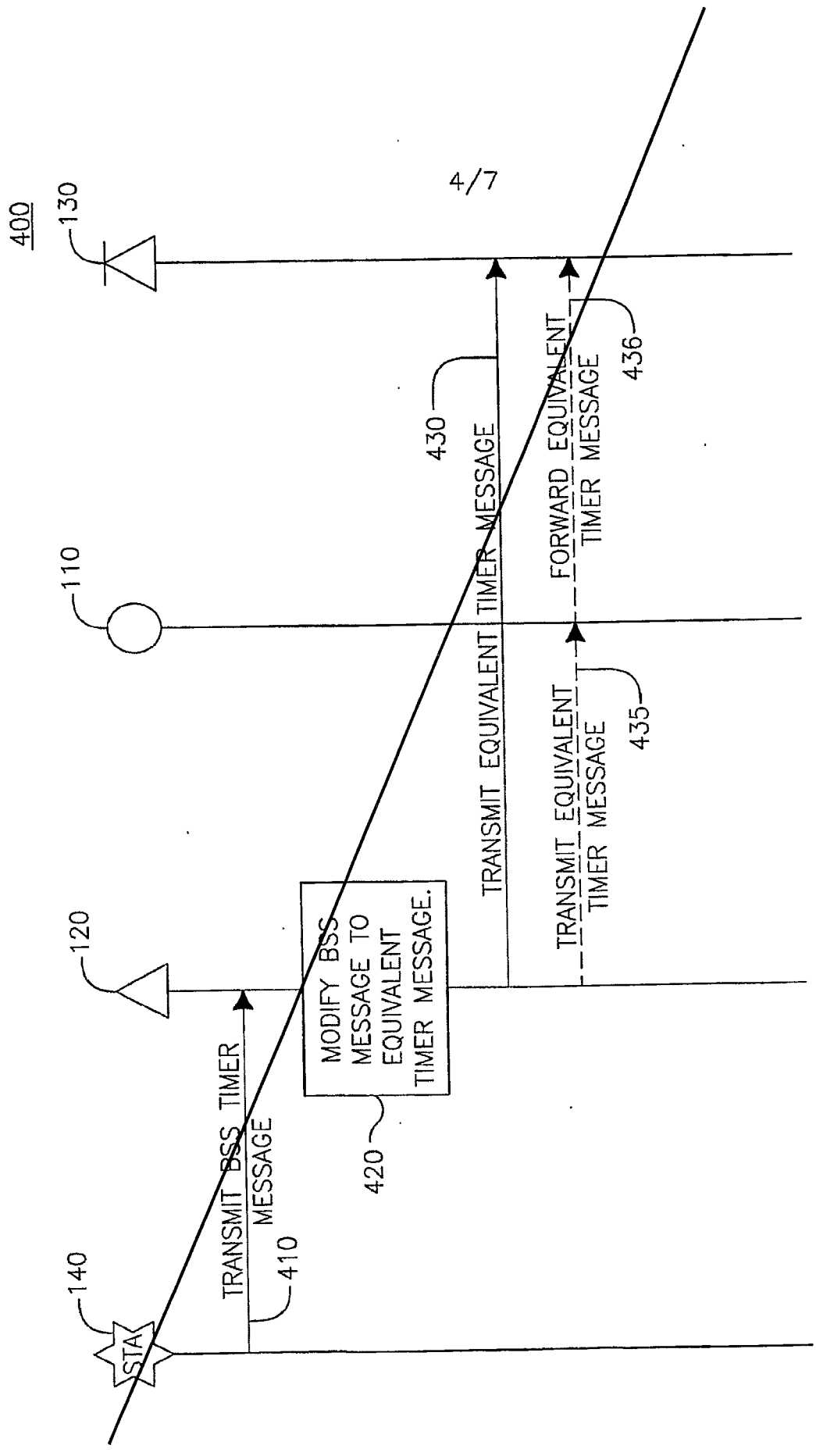

400
130
110
120
140
STA
TRANSMIT BSS TIMER MESSAGE
410
MODIFY BSS MESSAGE TO EQUIVALENT TIMER MESSAGE.
420
TRANSMIT EQUIVALENT TIMER MESSAGE
430
TRANSMIT EQUIVALENT TIMER MESSAGE
435
FORWARD EQUIVALENT TIMER MESSAGE
436

FIG.4

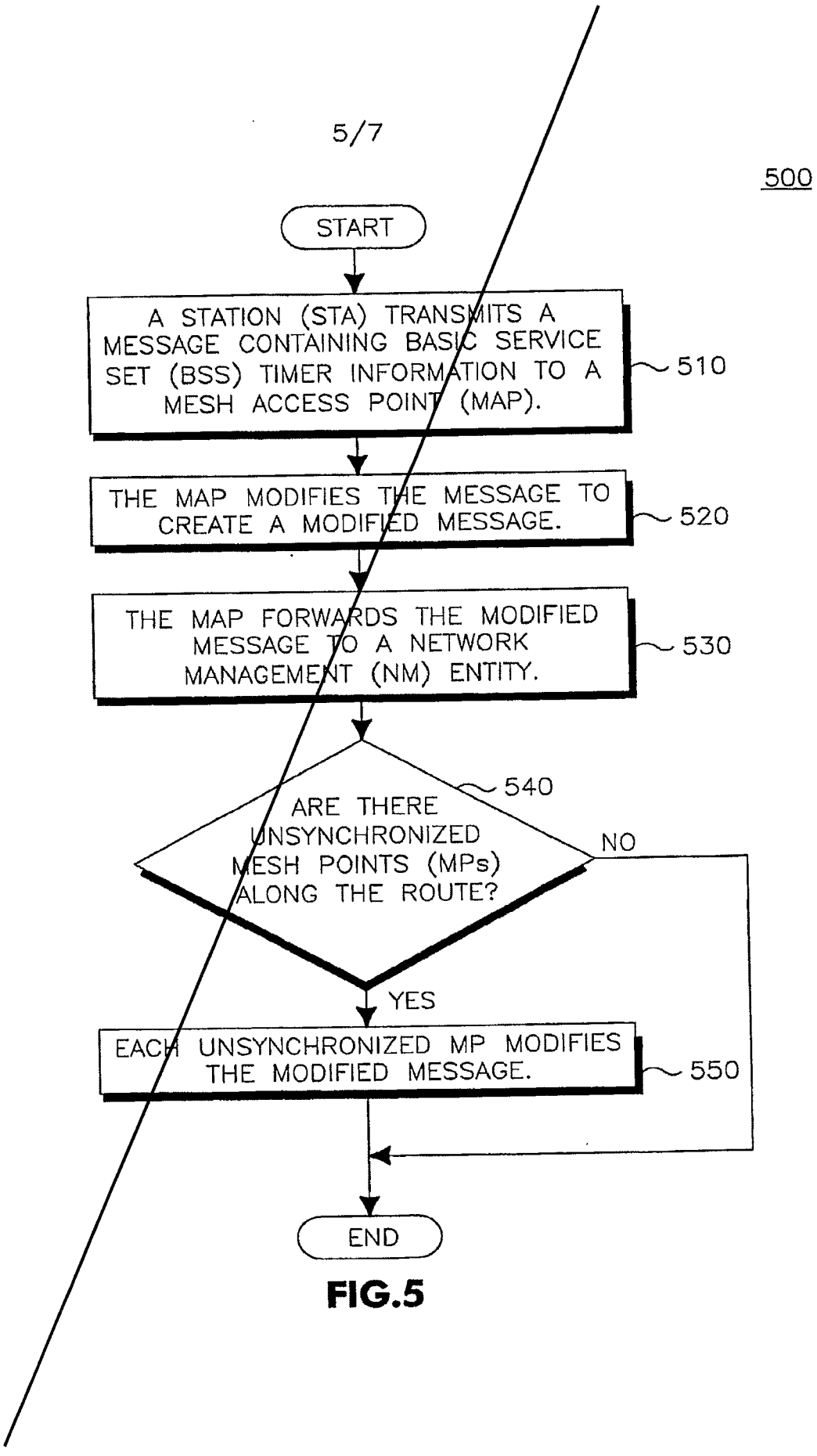

500
START
A STATION (STA) TRANSMITS A MESSAGE CONTAINING BASIC SERVICE SET (BSS) TIMER INFORMATION TO A MESH ACCESS POINT (MAP).
510
THE MAP MODIFIES THE MESSAGE TO CREATE A MODIFIED MESSAGE.
520
THE MAP FORWARDS THE MODIFIED MESSAGE TO A NETWORK MANAGEMENT (NM) ENTITY.
530
ARE THERE UNSYNCHRONIZED MESH POINTS (MPs) ALONG THE ROUTE?
540
NO
YES
EACH UNSYNCHRONIZED MP MODIFIES THE MODIFIED MESSAGE.
550
END

FIG.5

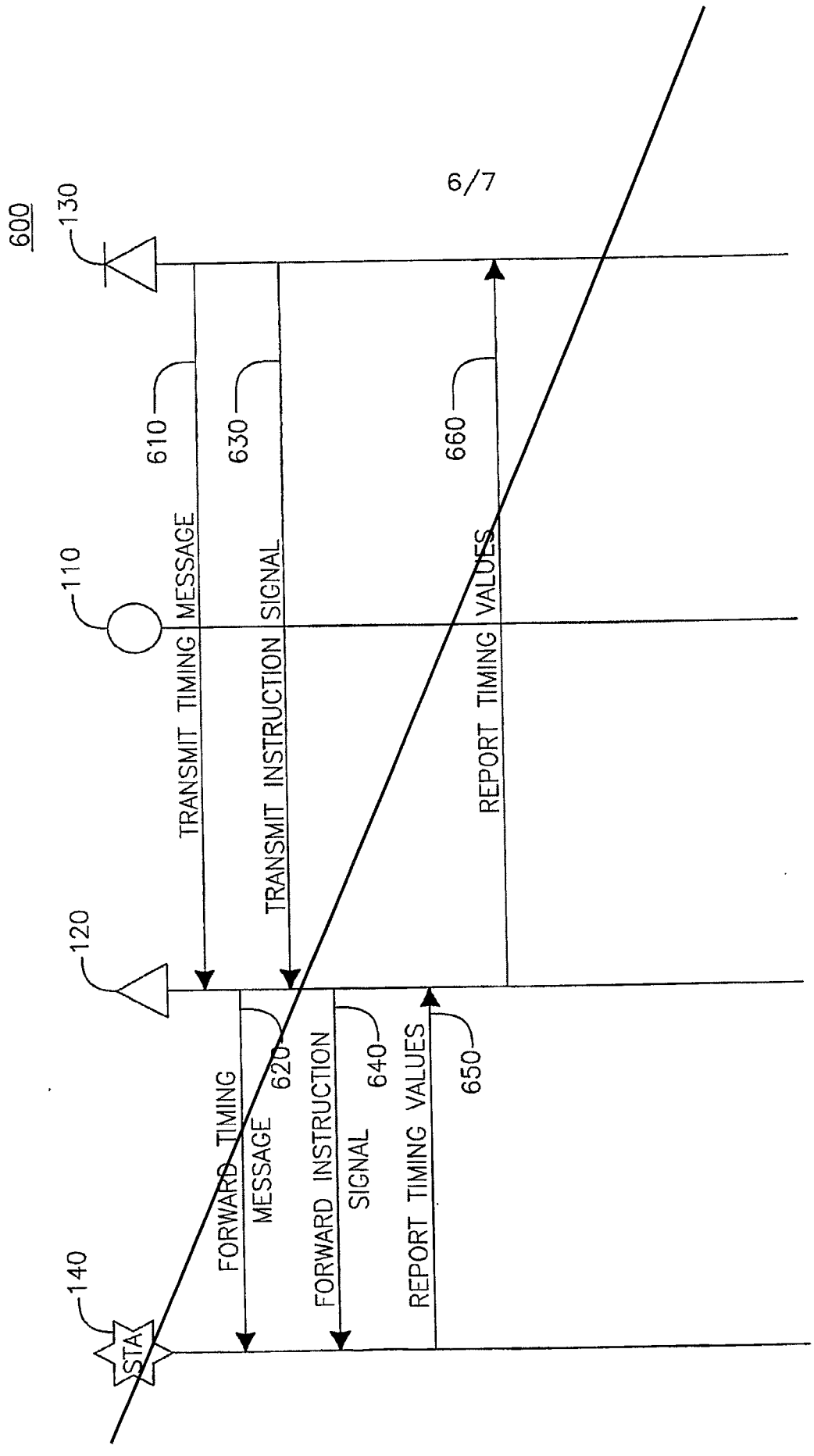

600
130
110
120
140
STA
610
TRANSMIT TIMING MESSAGE
630
TRANSMIT INSTRUCTION SIGNAL
660
REPORT TIMING VALUES
620
FORWARD TIMING MESSAGE
640
FORWARD INSTRUCTION SIGNAL
650
REPORT TIMING VALUES

FIG.6

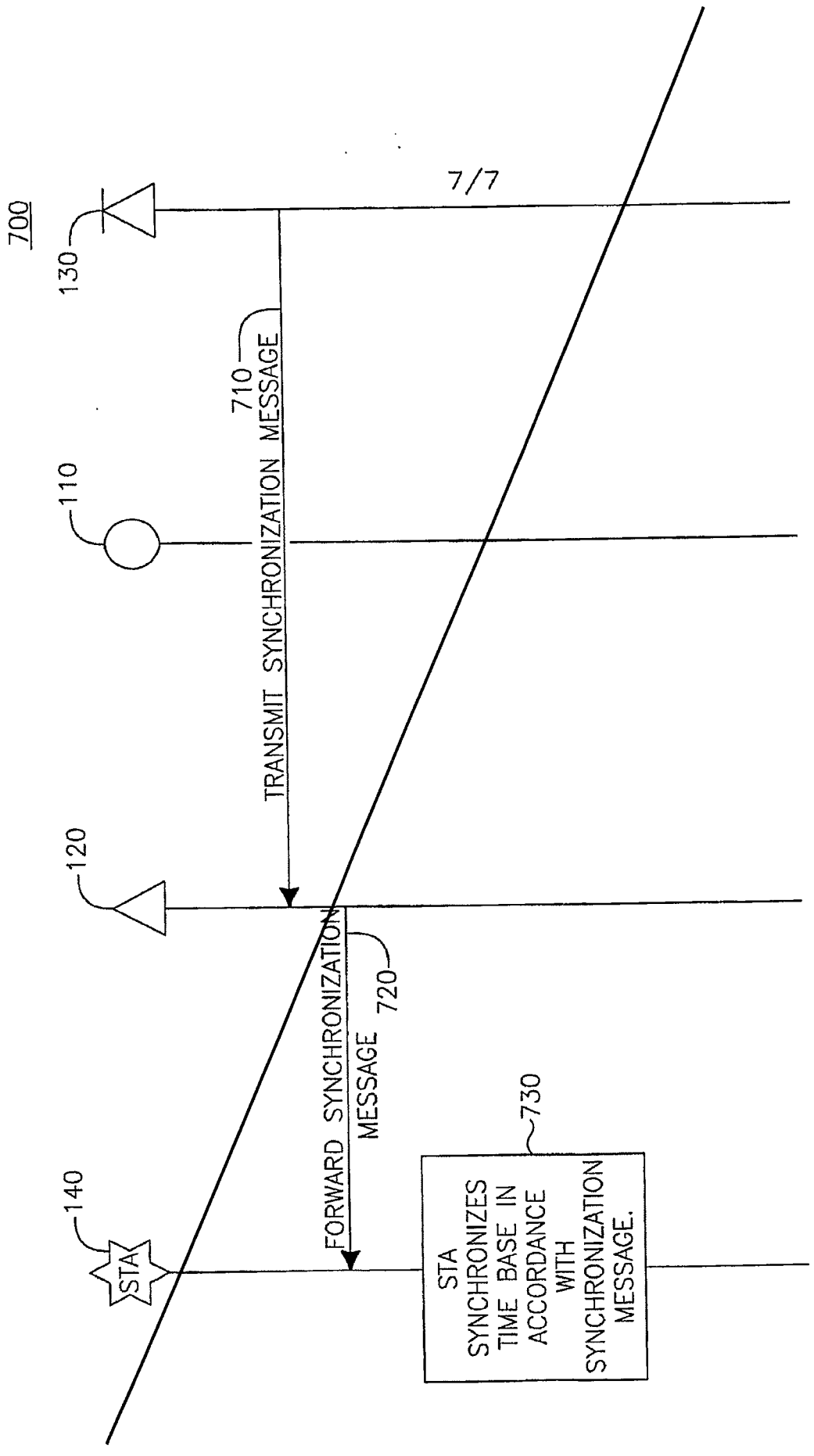

700
7/7
130
110
120
140
STA
TRANSMIT SYNCHRONIZATION MESSAGE
710
FORWARD SYNCHRONIZATION MESSAGE
720
730
STA SYNCHRONIZES TIME BASE IN ACCORDANCE WITH SYNCHRONIZATION MESSAGE.

FIG.7

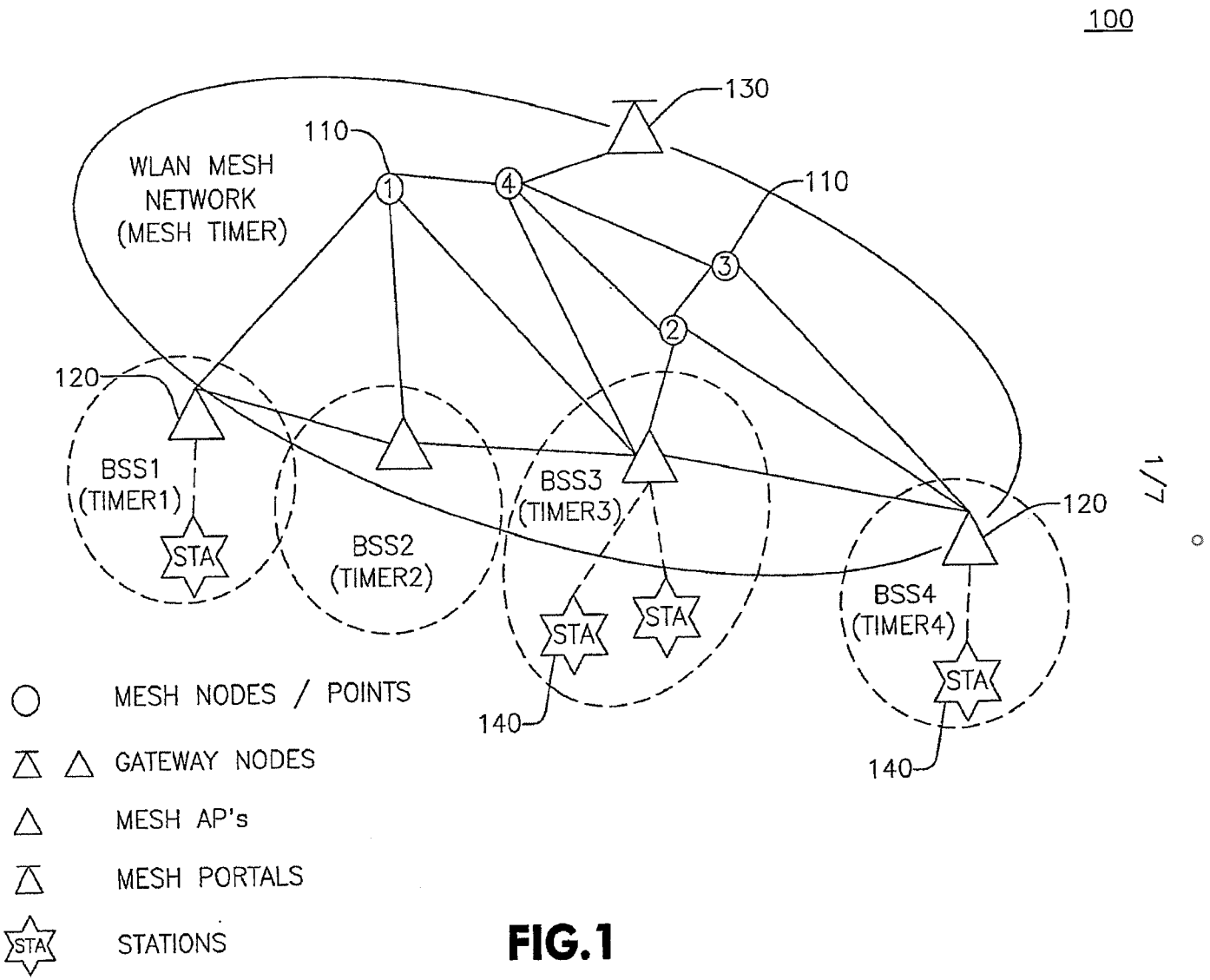

100
130
110
WLAN MESH
NETWORK
(MESH TIMER)
110
120
BSS1
(TIMER1)
STA
BSS2
(TIMER2)
BSS3
(TIMER3)
STA
STA
140
120
BSS4
(TIMER4)
STA
140
MESH NODES / POINTS
GATEWAY NODES
MESH AP's
MESH PORTALS
STA
STATIONS

FIG.1

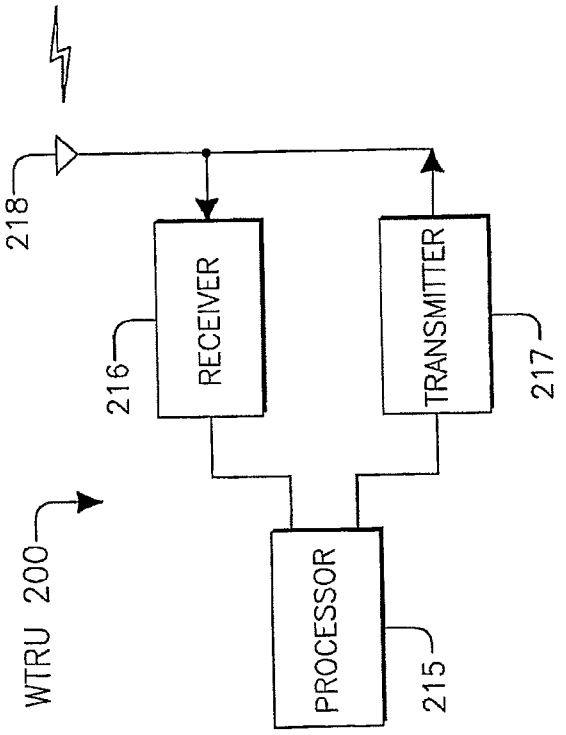


FIG.2

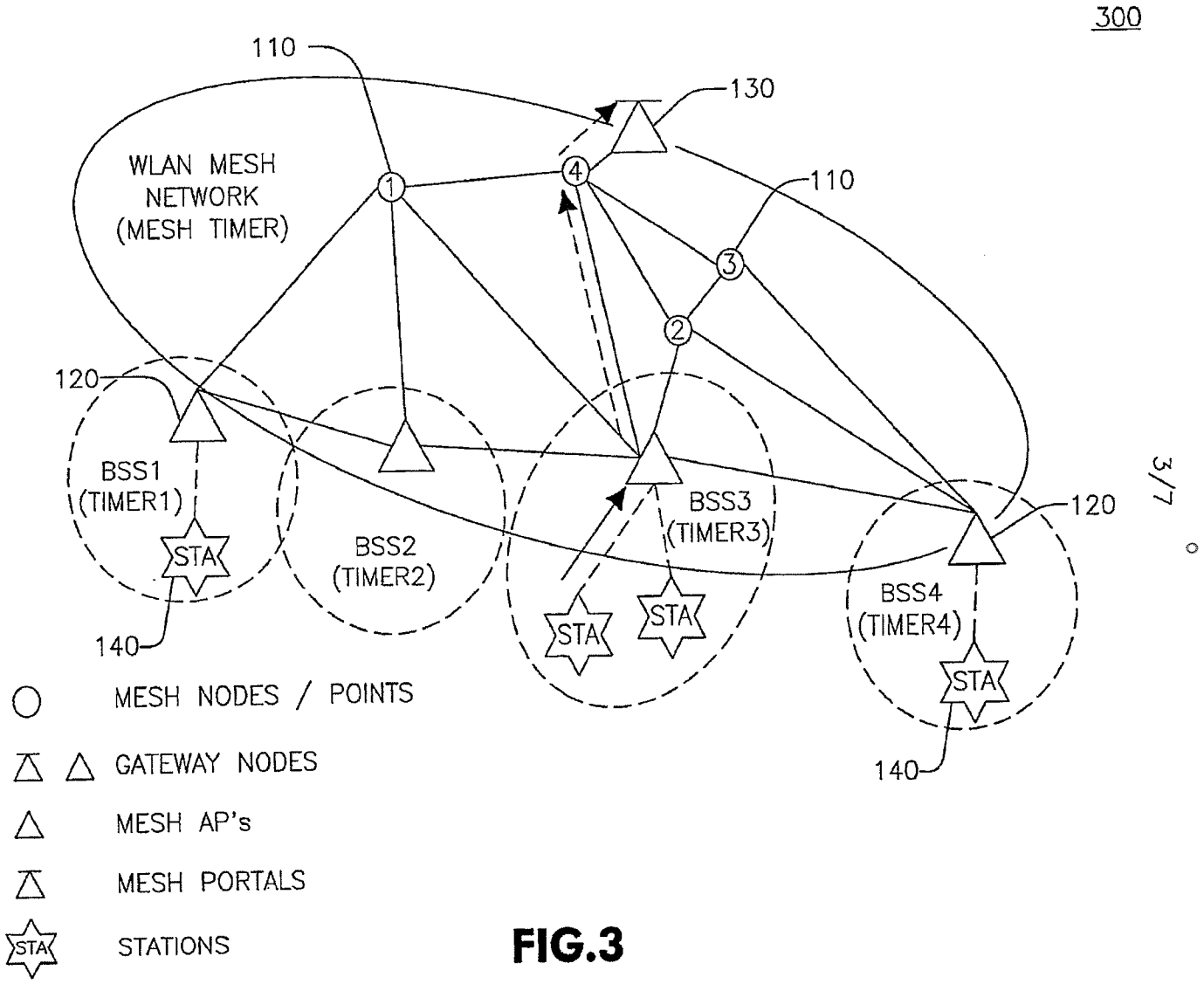

300
110
130
WLAN MESH
NETWORK
(MESH TIMER)
110
120
BSS1
(TIMER1)
STA
140
BSS2
(TIMER2)
BSS3
(TIMER3)
STA
STA
120
BSS4
(TIMER4)
STA
140
MESH NODES / POINTS
GATEWAY NODES
MESH AP's
MESH PORTALS
STA
STATIONS

FIG.3

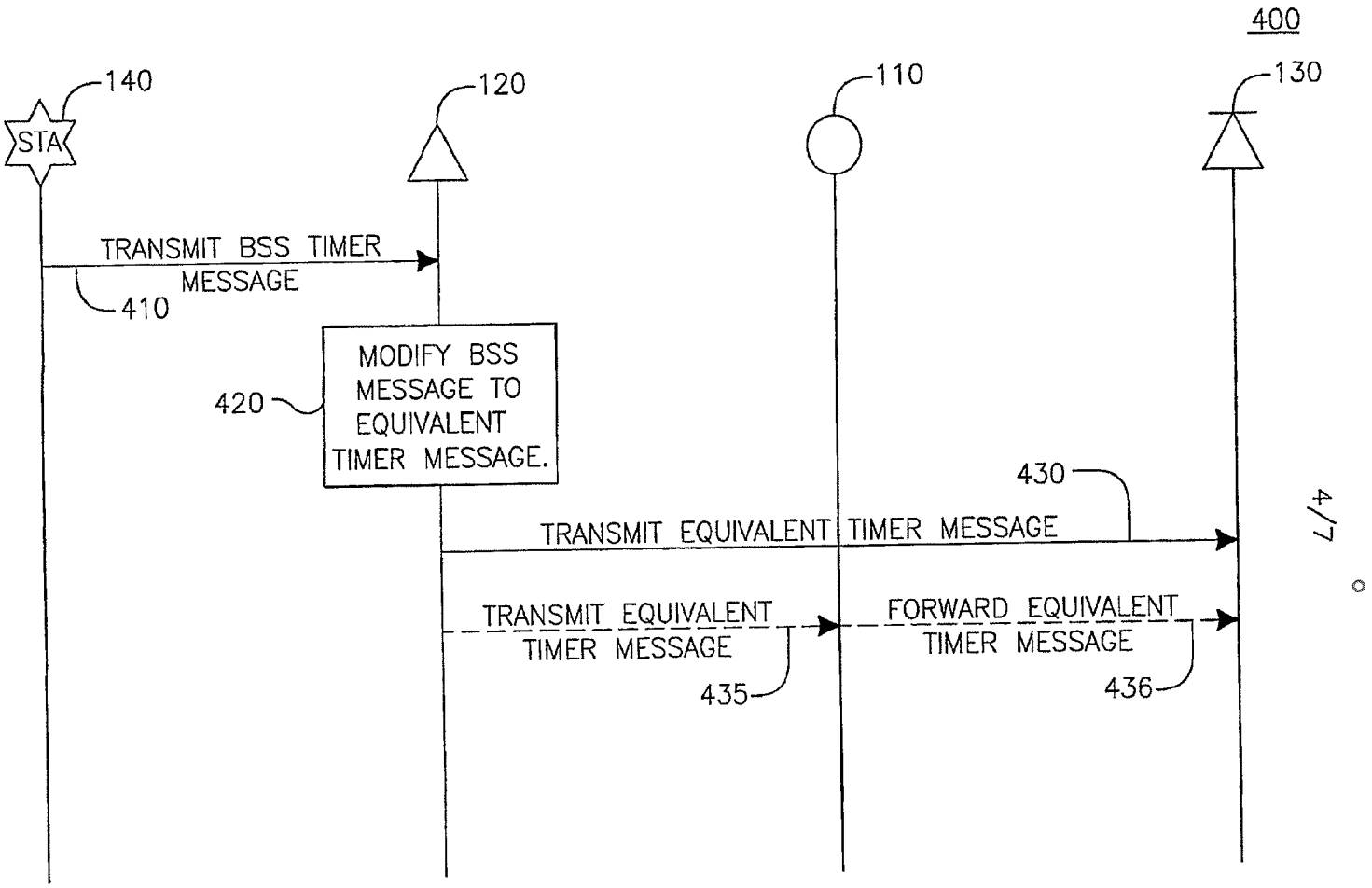

400
140
STA
120
110
130
TRANSMIT BSS TIMER MESSAGE
410
MODIFY BSS MESSAGE TO EQUIVALENT TIMER MESSAGE.
420
430
TRANSMIT EQUIVALENT TIMER MESSAGE
TRANSMIT EQUIVALENT TIMER MESSAGE
435
FORWARD EQUIVALENT TIMER MESSAGE
436
4/7

FIG.4

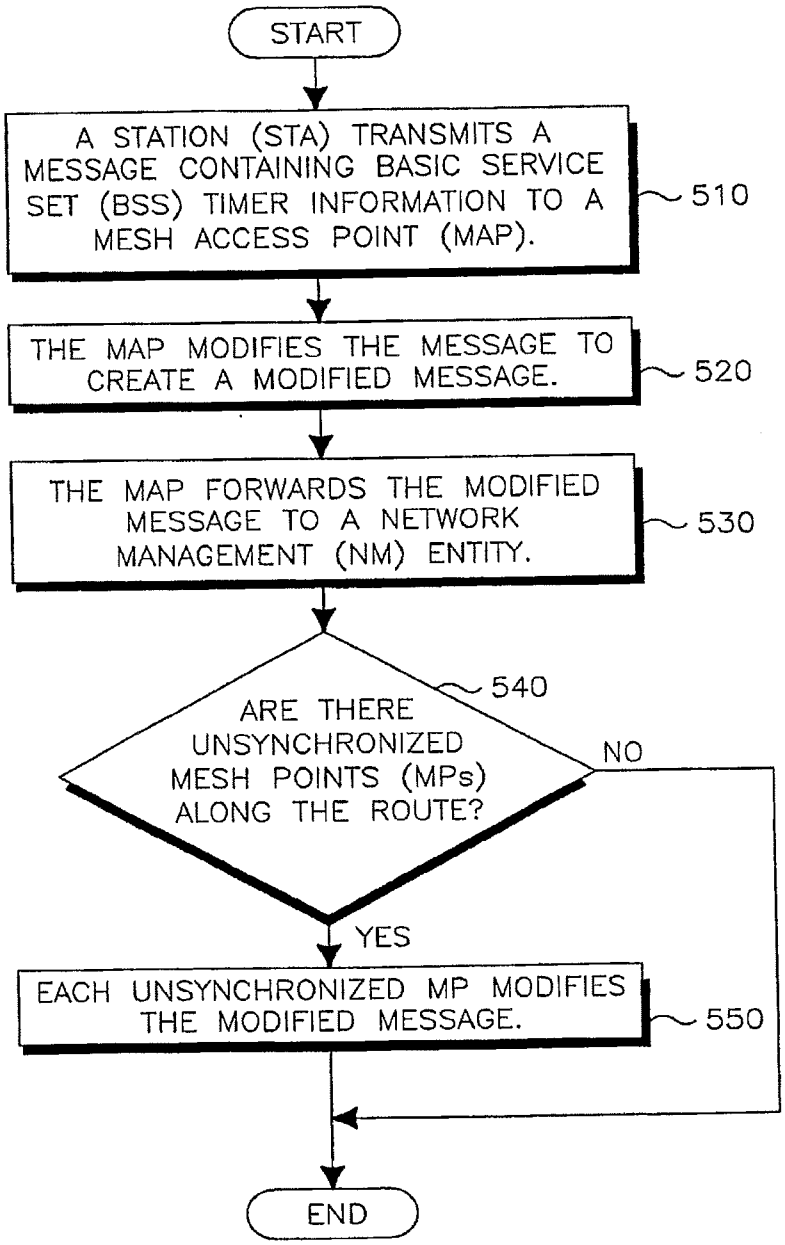

500
START
A STATION (STA) TRANSMITS A MESSAGE CONTAINING BASIC SERVICE SET (BSS) TIMER INFORMATION TO A MESH ACCESS POINT (MAP).
510
THE MAP MODIFIES THE MESSAGE TO CREATE A MODIFIED MESSAGE.
520
THE MAP FORWARDS THE MODIFIED MESSAGE TO A NETWORK MANAGEMENT (NM) ENTITY.
530
ARE THERE UNSYNCHRONIZED MESH POINTS (MPs) ALONG THE ROUTE?
540
NO
YES
EACH UNSYNCHRONIZED MP MODIFIES THE MODIFIED MESSAGE.
550
END

FIG.5

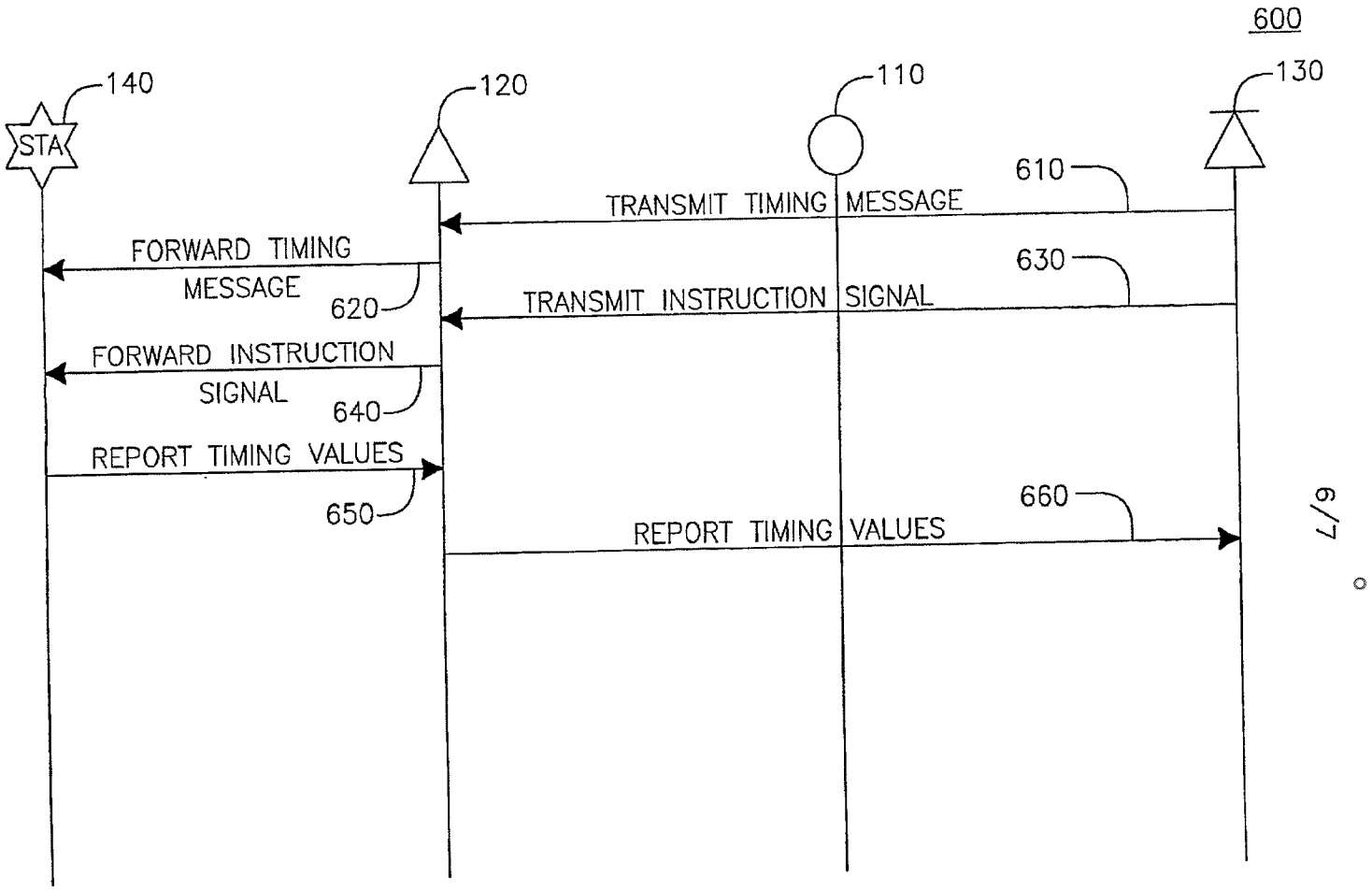

600
140
STA
120
110
130
610
TRANSMIT TIMING MESSAGE
FORWARD TIMING MESSAGE
620
630
TRANSMIT INSTRUCTION SIGNAL
FORWARD INSTRUCTION SIGNAL
640
REPORT TIMING VALUES
650
660
REPORT TIMING VALUES

FIG.6

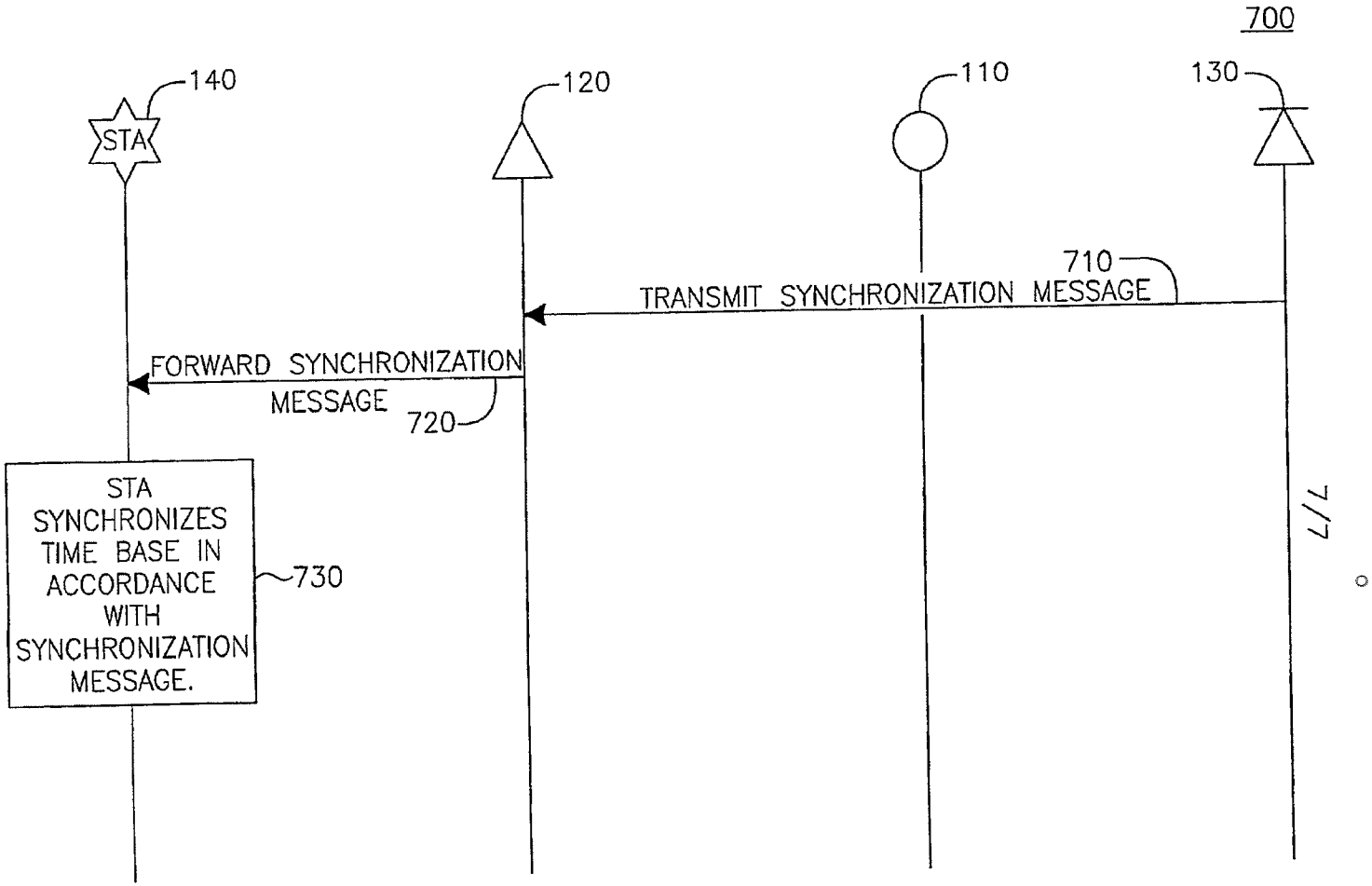

700
140
STA
120
110
130
710
TRANSMIT SYNCHRONIZATION MESSAGE
FORWARD SYNCHRONIZATION MESSAGE
720
STA SYNCHRONIZES TIME BASE IN ACCORDANCE WITH SYNCHRONIZATION MESSAGE.
730
7/7

FIG.7