FIG. 1

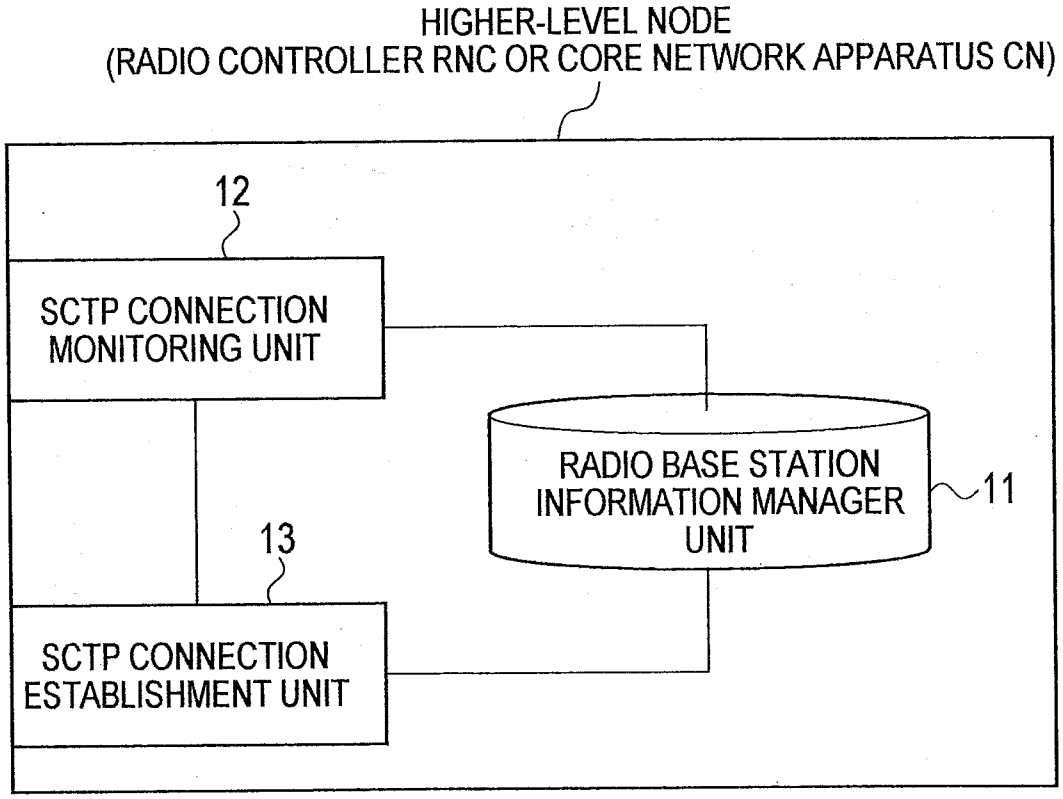

HIGHER-LEVEL NODE
(RADIO CONTROLLER RNC OR CORE NETWORK APPARATUS CN)
12
SCTP CONNECTION MONITORING UNIT
RADIO BASE STATION INFORMATION MANAGER UNIT
11
13
SCTP CONNECTION ESTABLISHMENT UNIT

FIG. 2

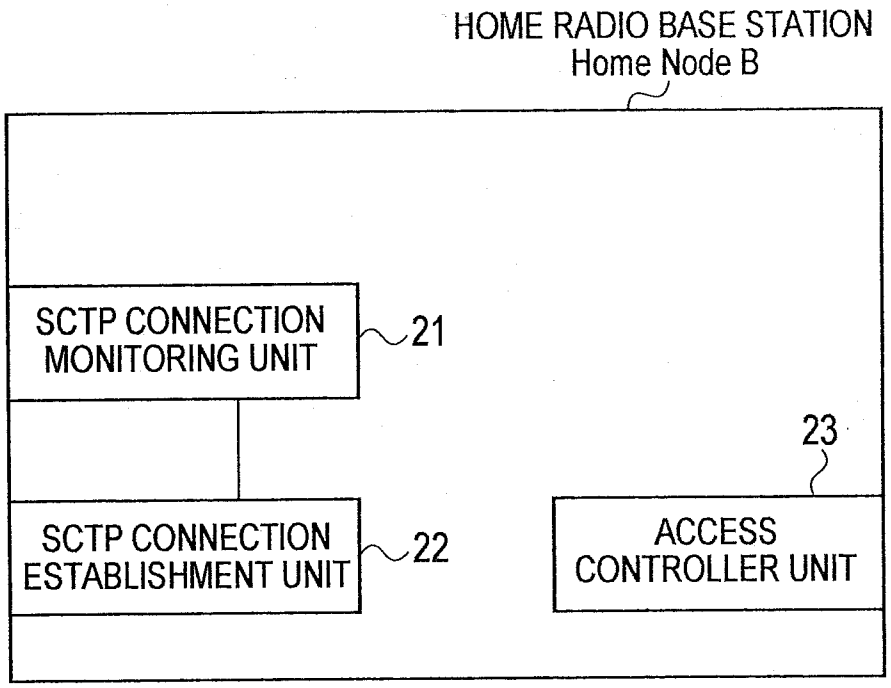

HOME RADIO BASE STATION
Home Node B
SCTP CONNECTION MONITORING UNIT
21
23
SCTP CONNECTION ESTABLISHMENT UNIT
22
ACCESS CONTROLLER UNIT

FIG. 3

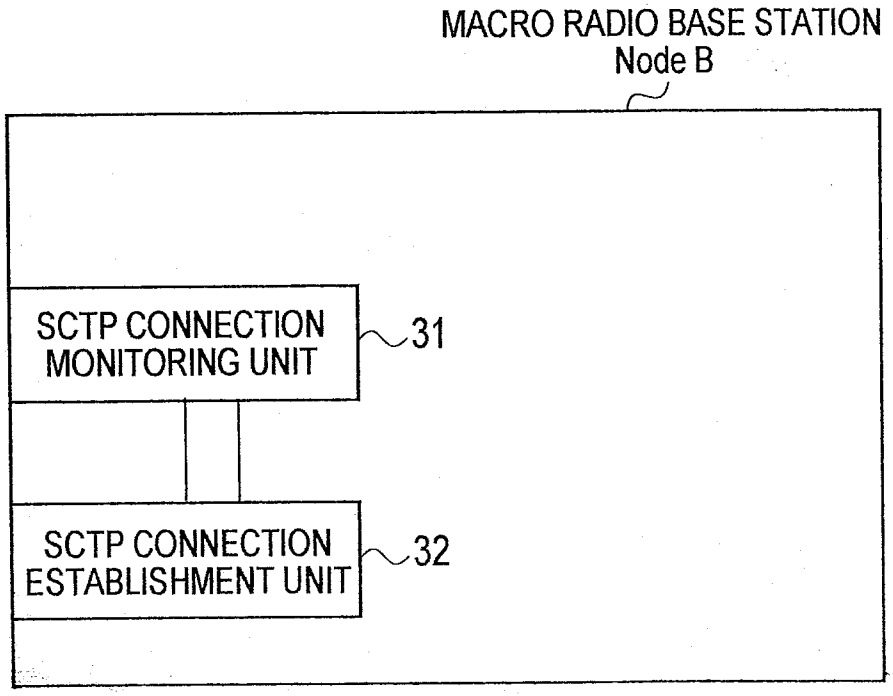

MACRO RADIO BASE STATION
Node B
SCTP CONNECTION MONITORING UNIT
31
SCTP CONNECTION ESTABLISHMENT UNIT
32

FIG. 4

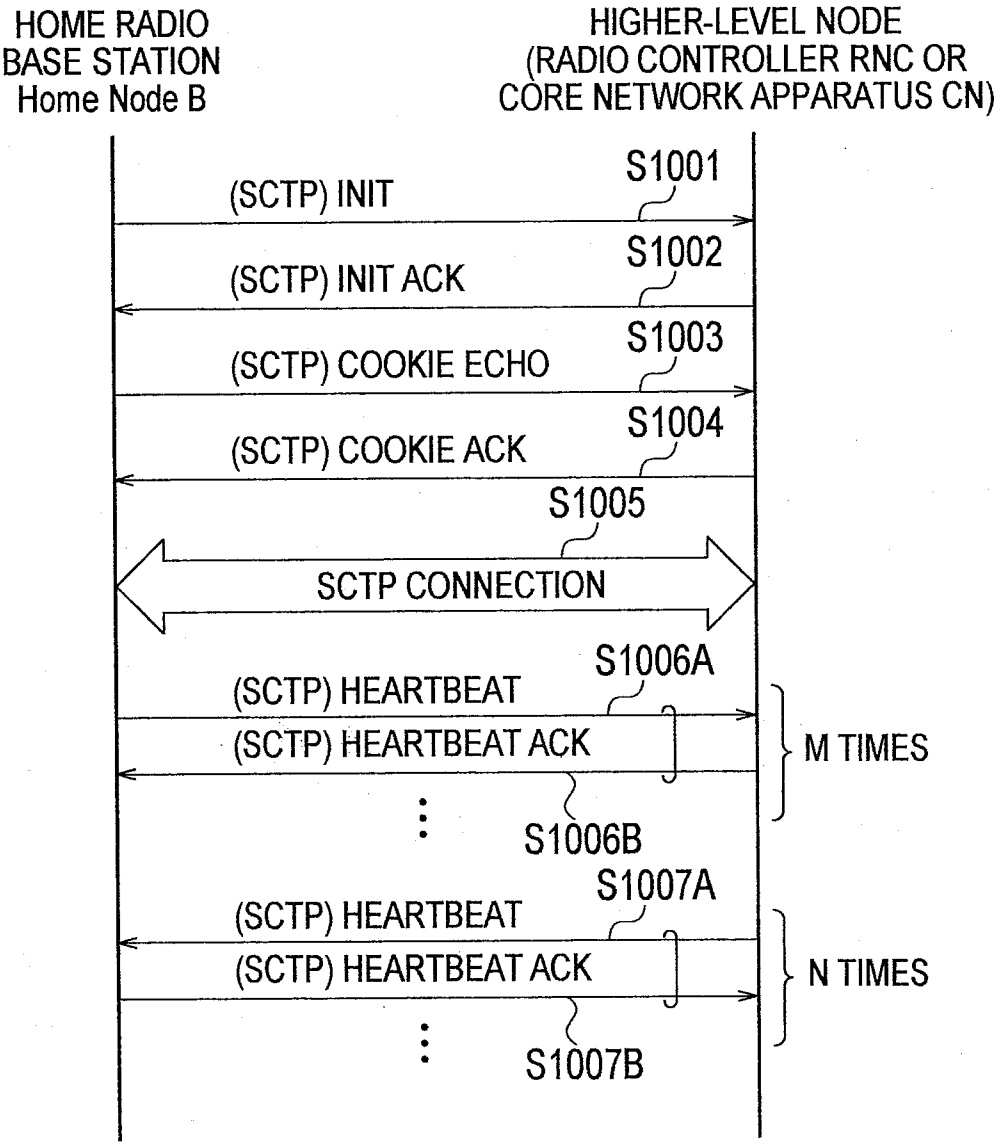

HOME RADIO BASE STATION Home Node B
HIGHER-LEVEL NODE (RADIO CONTROLLER RNC OR CORE NETWORK APPARATUS CN)
S1001
(SCTP) INIT
S1002
(SCTP) INIT ACK
S1003
(SCTP) COOKIE ECHO
S1004
(SCTP) COOKIE ACK
S1005
SCTP CONNECTION
S1006A
(SCTP) HEARTBEAT
(SCTP) HEARTBEAT ACK
M TIMES
S1006B
S1007A
(SCTP) HEARTBEAT
(SCTP) HEARTBEAT ACK
N TIMES
S1007B

FIG. 5

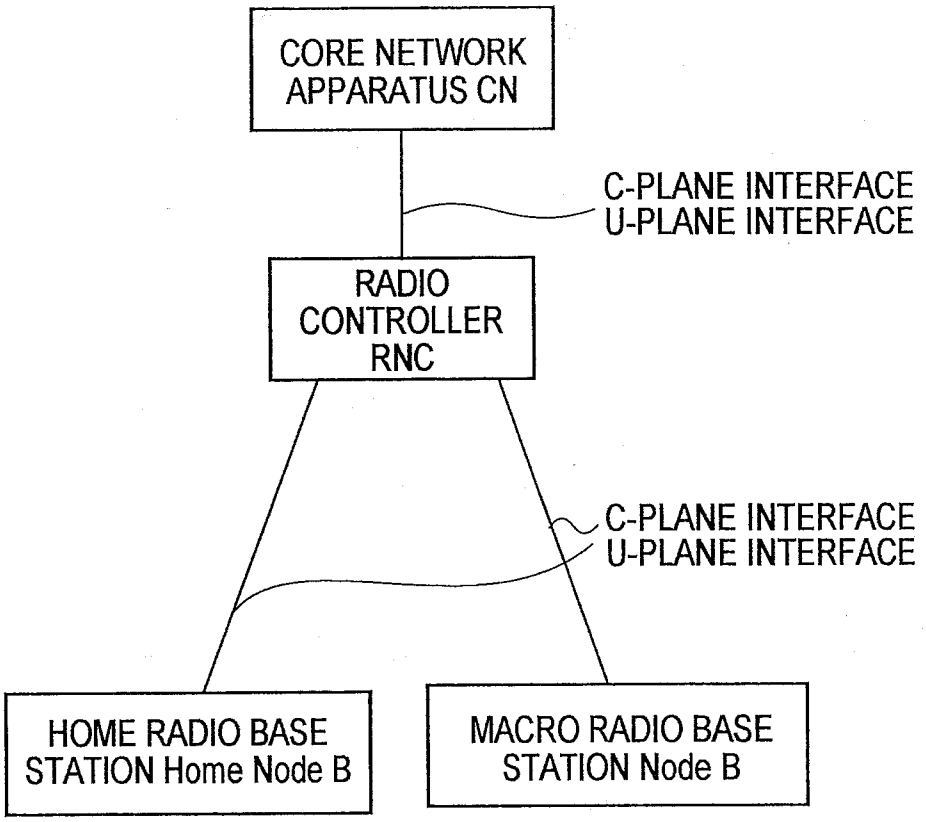

CORE NETWORK APPARATUS CN
C-PLANE INTERFACE
U-PLANE INTERFACE
RADIO CONTROLLER RNC
C-PLANE INTERFACE
U-PLANE INTERFACE
HOME RADIO BASE STATION Home Node B
MACRO RADIO BASE STATION Node B

FIG. 6

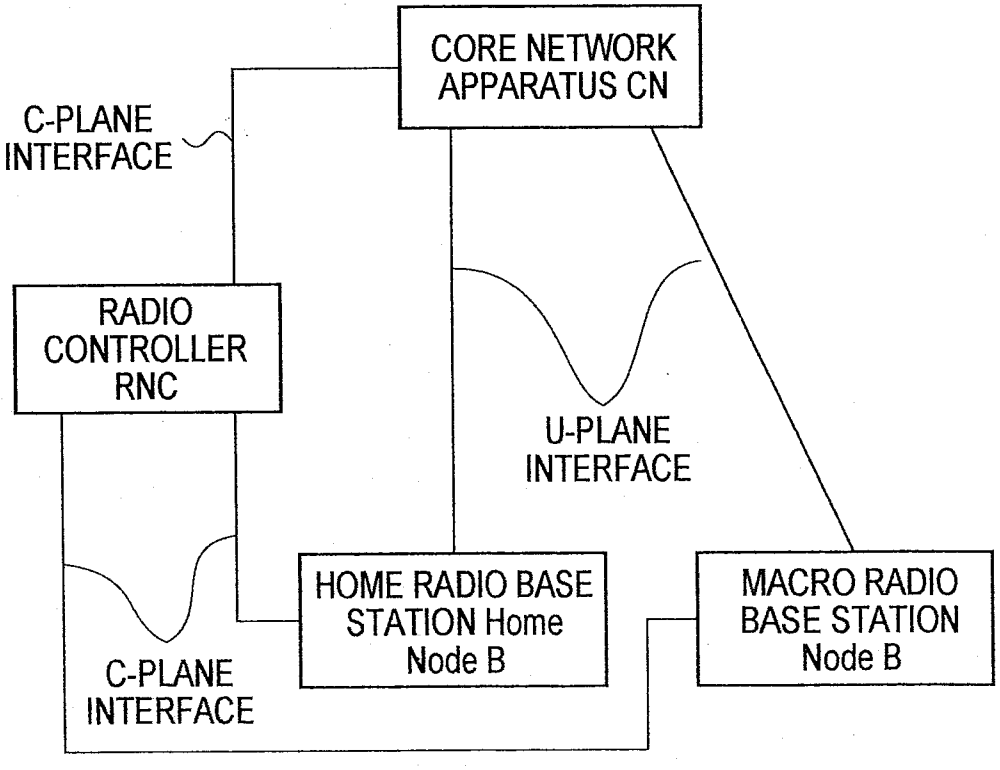

CORE NETWORK APPARATUS CN
C-PLANE INTERFACE
RADIO CONTROLLER RNC
U-PLANE INTERFACE
HOME RADIO BASE STATION Home Node B
MACRO RADIO BASE STATION Node B
C-PLANE INTERFACE

FIG. 7

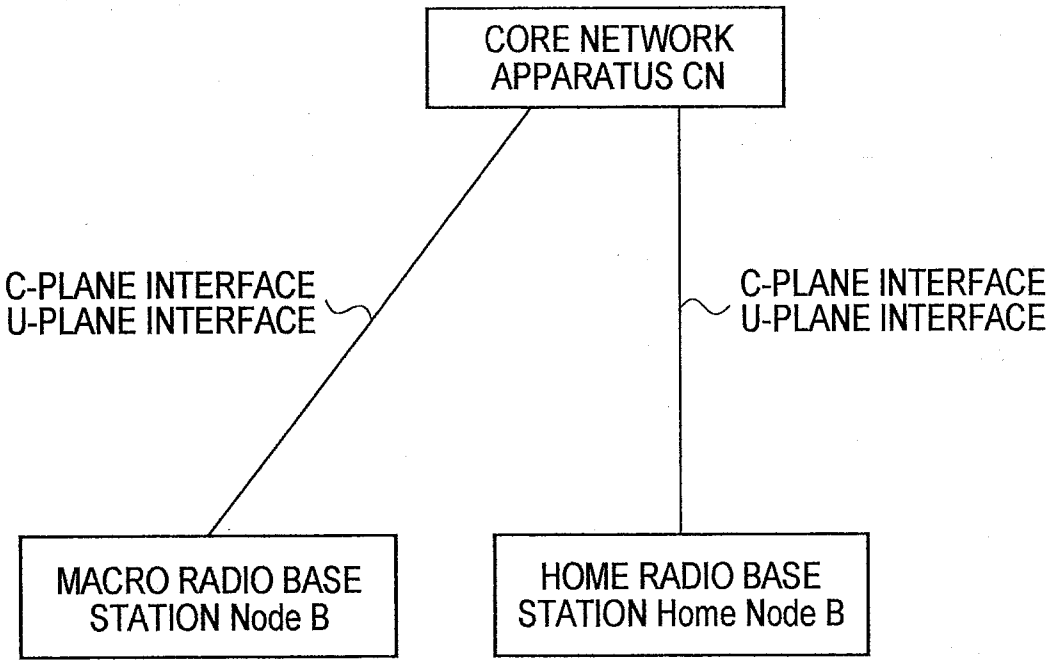

CORE NETWORK APPARATUS CN
C-PLANE INTERFACE
U-PLANE INTERFACE
C-PLANE INTERFACE
U-PLANE INTERFACE
MACRO RADIO BASE STATION Node B
HOME RADIO BASE STATION Home Node B

FIG. 8

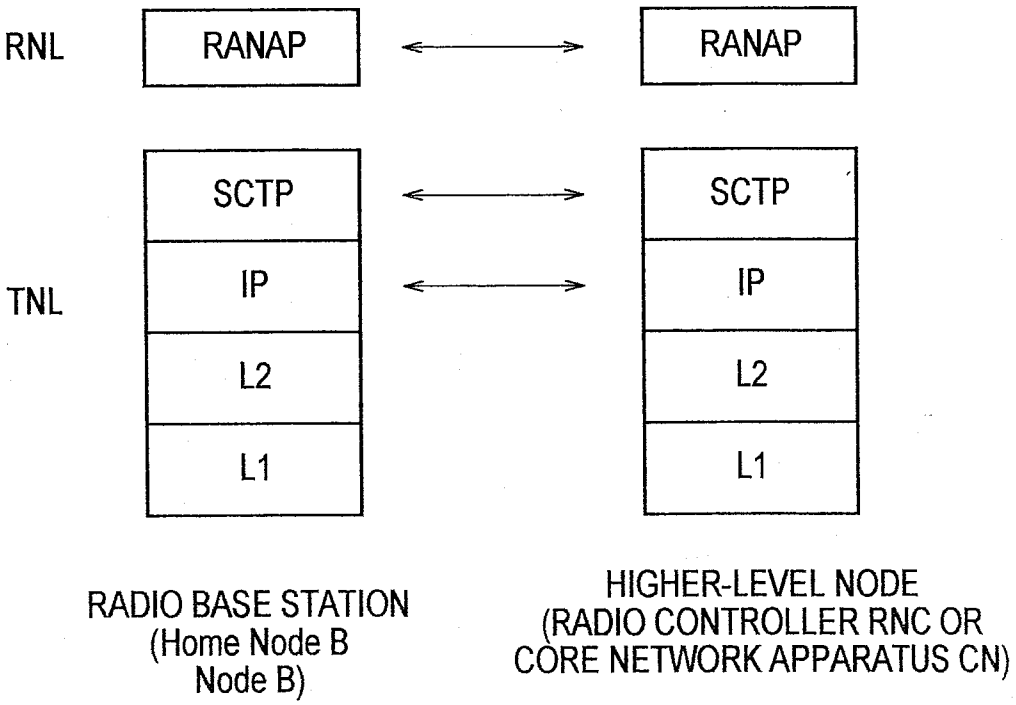
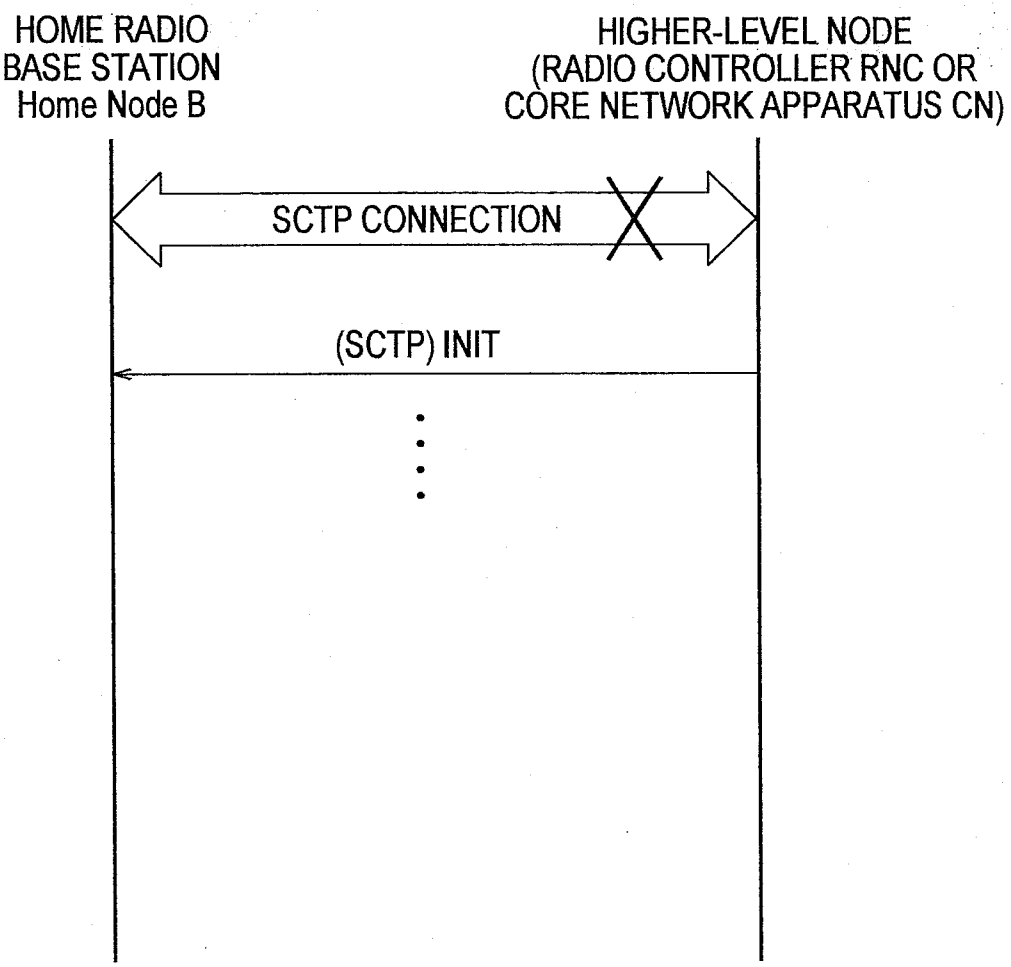

RNL
RANAP
RANAP
TNL
SCTP
IP
L2
L1
SCTP
IP
L2
L1
RADIO BASE STATION (Home Node B Node B)
HIGHER-LEVEL NODE (RADIO CONTROLLER RNC OR CORE NETWORK APPARATUS CN)

FIG. 9


HOME RADIO
BASE STATION
Home Node B
HIGHER-LEVEL NODE
(RADIO CONTROLLER RNC OR
CORE NETWORK APPARATUS CN)
SCTP CONNECTION
(SCTP) INIT