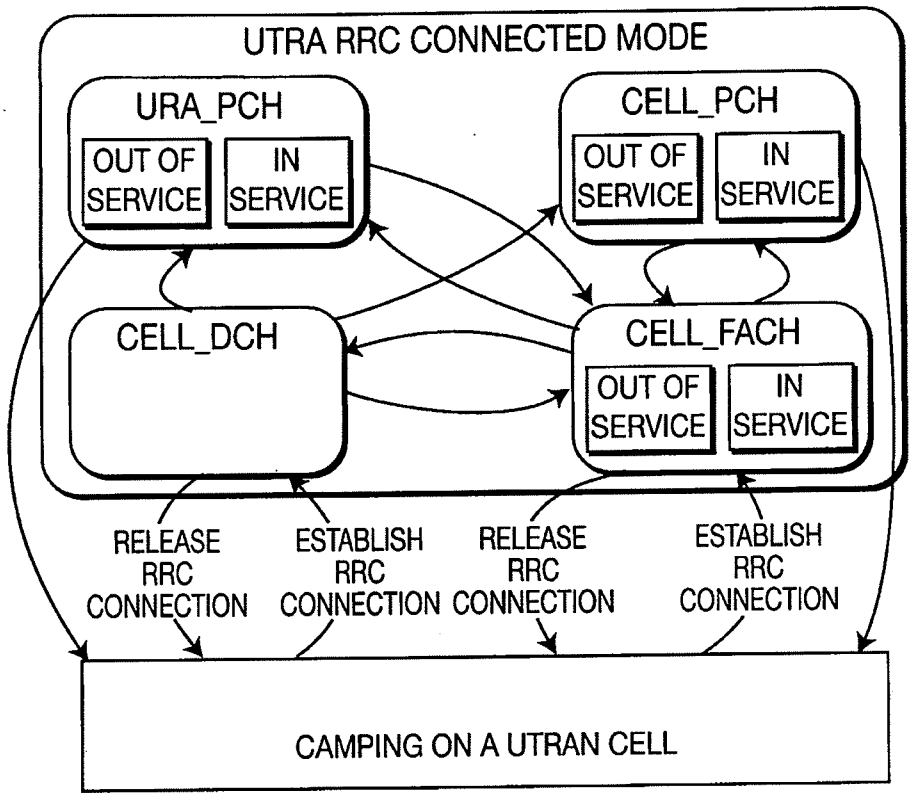


FIG. 1
PRIOR ART

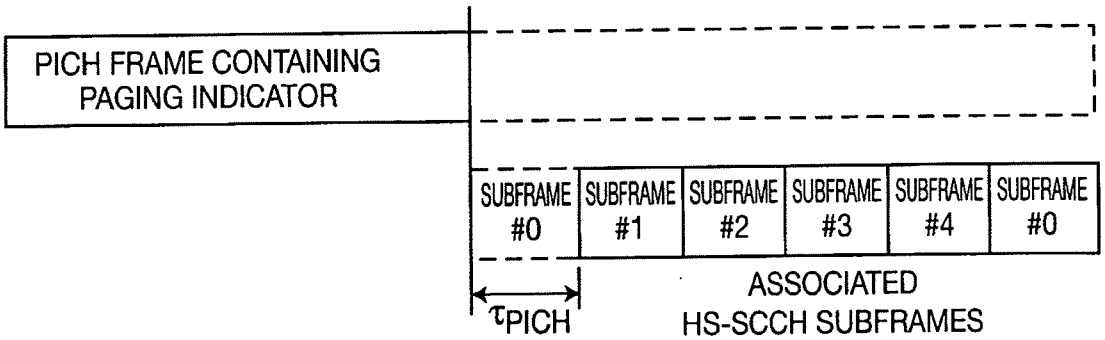


FIG. 5

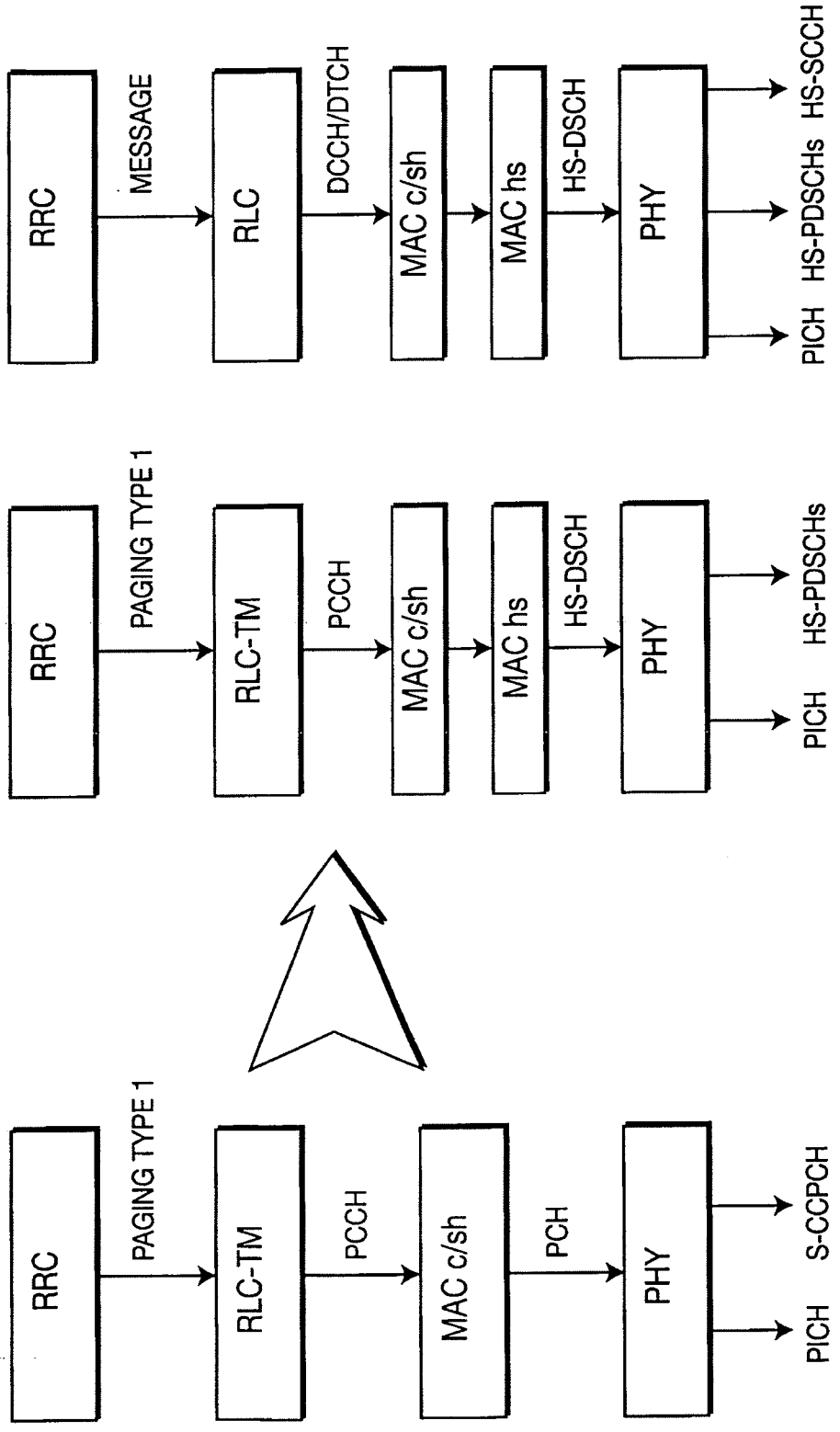

RRC
PAGING TYPE 1
RLC-TM
PCCH
MAC c/sh
PCH
PHY
PICH
S-CCPCH
PAGING
RRC
PAGING TYPE 1
RLC-TM
PCCH
MAC c/sh
MAC hs
HS-DSCH
PHY
PICH
HS-PDSCHs
RRC
MESSAGE
RLC
DCCH/DTCH
MAC c/sh
MAC hs
HS-DSCH
PHY
PICH
HS-PDSCHs
HS-SCCH
HSDPA PAGING

FIG. 2

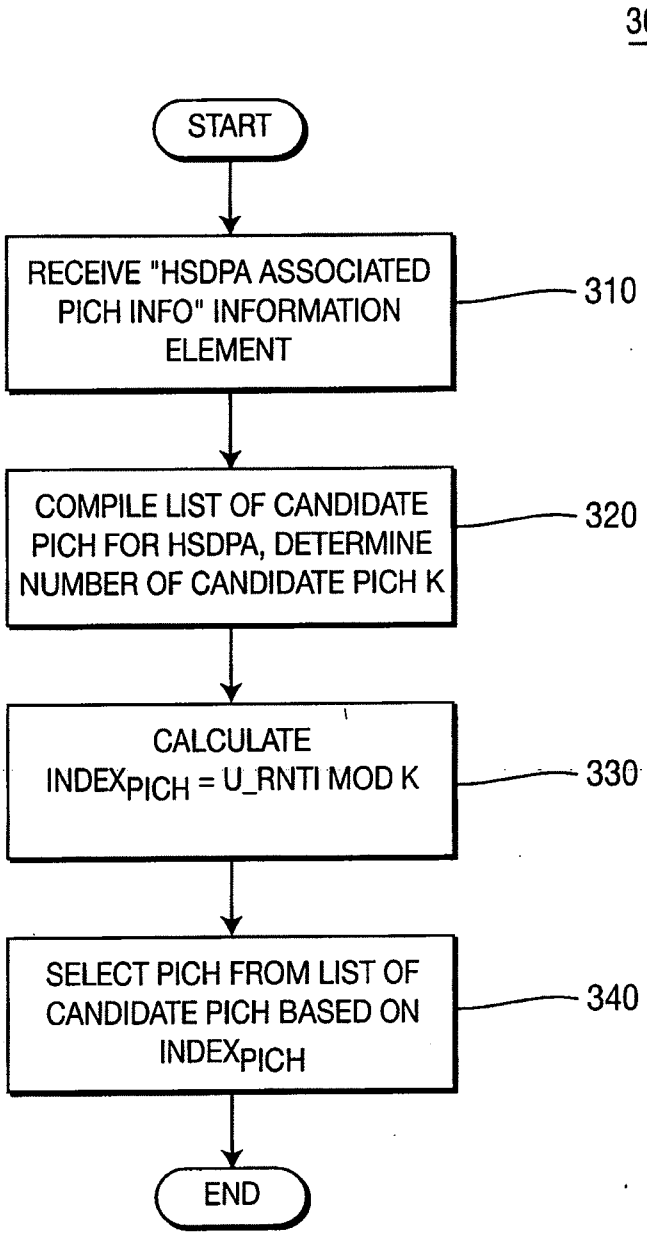

300
START
RECEIVE "HSDPA ASSOCIATED PICH INFO" INFORMATION ELEMENT
310
COMPILE LIST OF CANDIDATE PICH FOR HSDPA, DETERMINE NUMBER OF CANDIDATE PICH K
320
CALCULATE INDEX$_{PICH}$ = U_RNTI MOD K
330
SELECT PICH FROM LIST OF CANDIDATE PICH BASED ON INDEX$_{PICH}$
340
END

FIG. 3

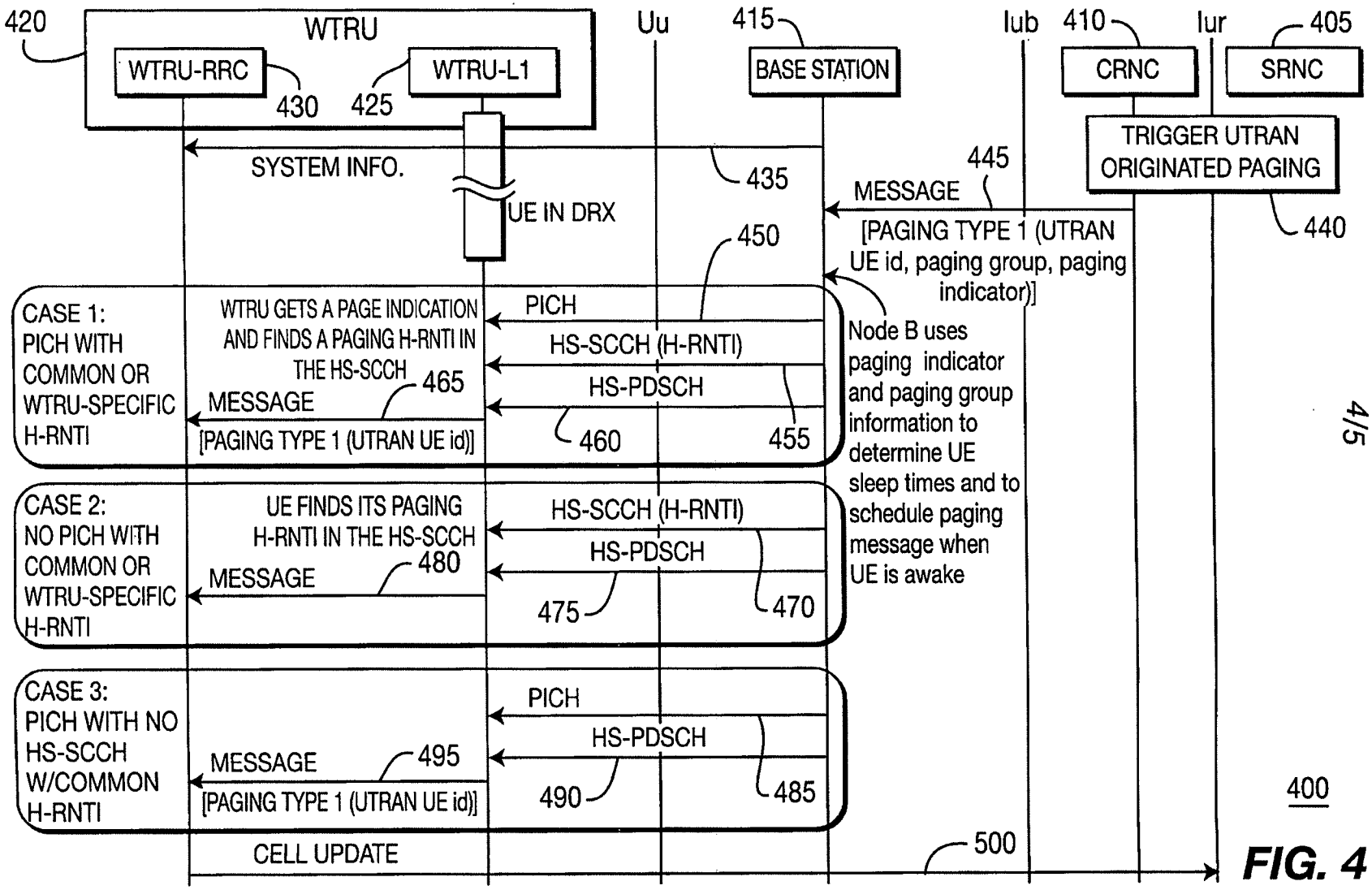

420
WTRU
WTRU-RRC
430
425
WTRU-L1
Uu
415
BASE STATION
Iub
410
CRNC
Iur
405
SRNC
TRIGGER UTRAN ORIGINATED PAGING
440
445
SYSTEM INFO.
435
UE IN DRX
MESSAGE
[PAGING TYPE 1 (UTRAN UE id, paging group, paging indicator)]
450
CASE 1:
PICH WITH COMMON OR WTRU-SPECIFIC H-RNTI
WTRU GETS A PAGE INDICATION AND FINDS A PAGING H-RNTI IN THE HS-SCCH
PICH
HS-SCCH (H-RNTI)
HS-PDSCH
465
MESSAGE
[PAGING TYPE 1 (UTRAN UE id)]
460
455
Node B uses paging indicator and paging group information to determine UE sleep times and to schedule paging message when UE is awake
CASE 2:
NO PICH WITH COMMON OR WTRU-SPECIFIC H-RNTI
UE FINDS ITS PAGING H-RNTI IN THE HS-SCCH
HS-SCCH (H-RNTI)
HS-PDSCH
480
MESSAGE
475
470
CASE 3:
PICH WITH NO HS-SCCH W/COMMON H-RNTI
PICH
HS-PDSCH
495
MESSAGE
[PAGING TYPE 1 (UTRAN UE id)]
490
485
CELL UPDATE
500
400
4/5

FIG. 4

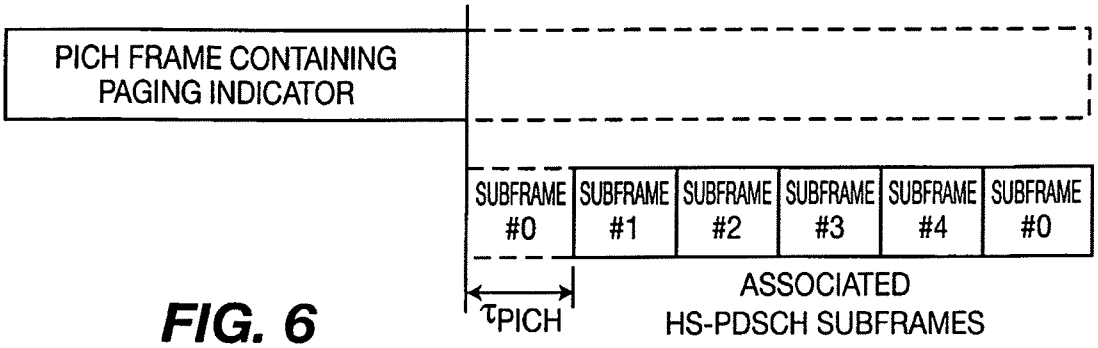

PICH FRAME CONTAINING PAGING INDICATOR
SUBFRAME #0
SUBFRAME #1
SUBFRAME #2
SUBFRAME #3
SUBFRAME #4
SUBFRAME #0
τPICH
ASSOCIATED HS-PDSCH SUBFRAMES

FIG. 6

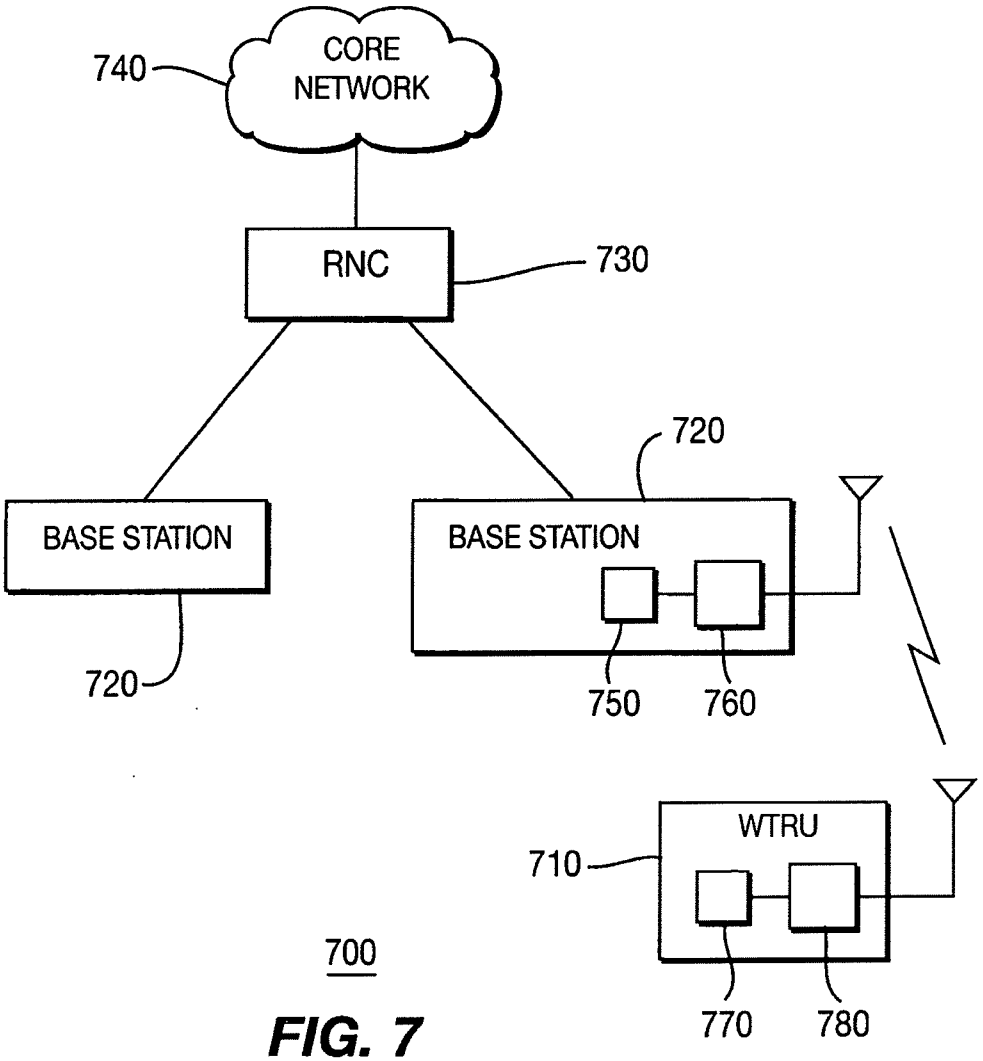

740
CORE NETWORK
RNC
730
720
BASE STATION
BASE STATION
720
750
760
WTRU
710
770
780
700

FIG. 7