8 JUL 2004

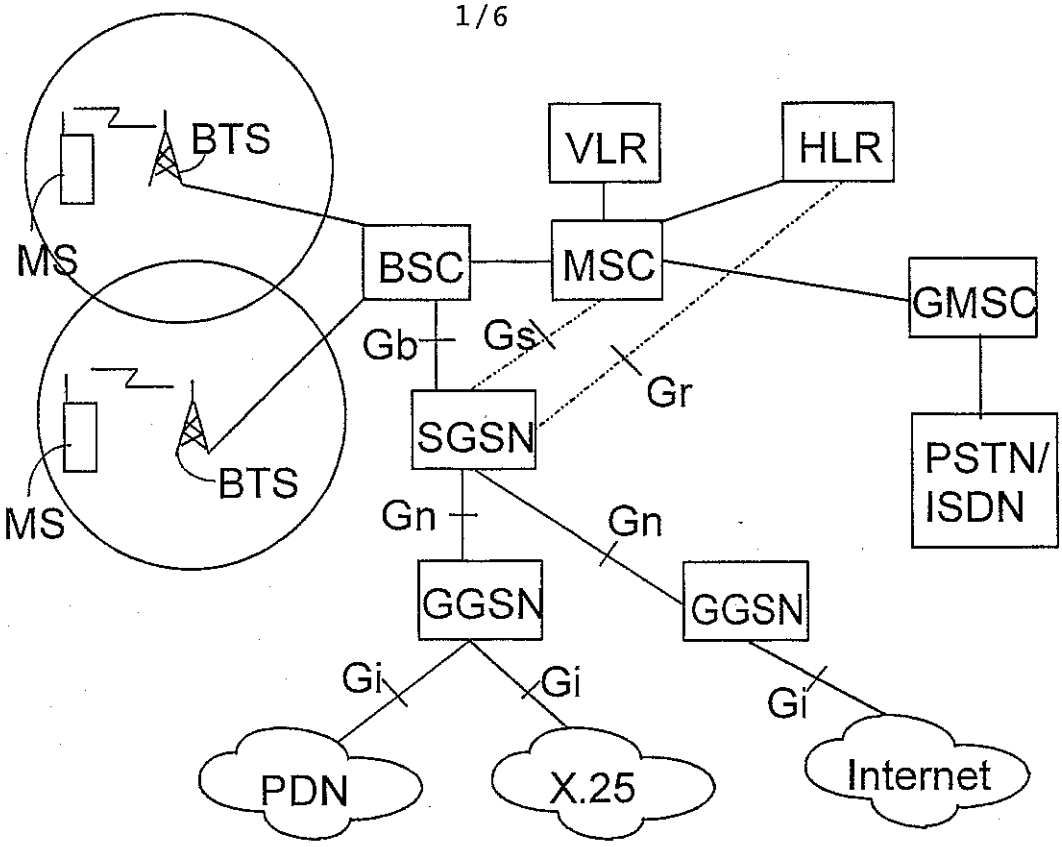

FIG. 1

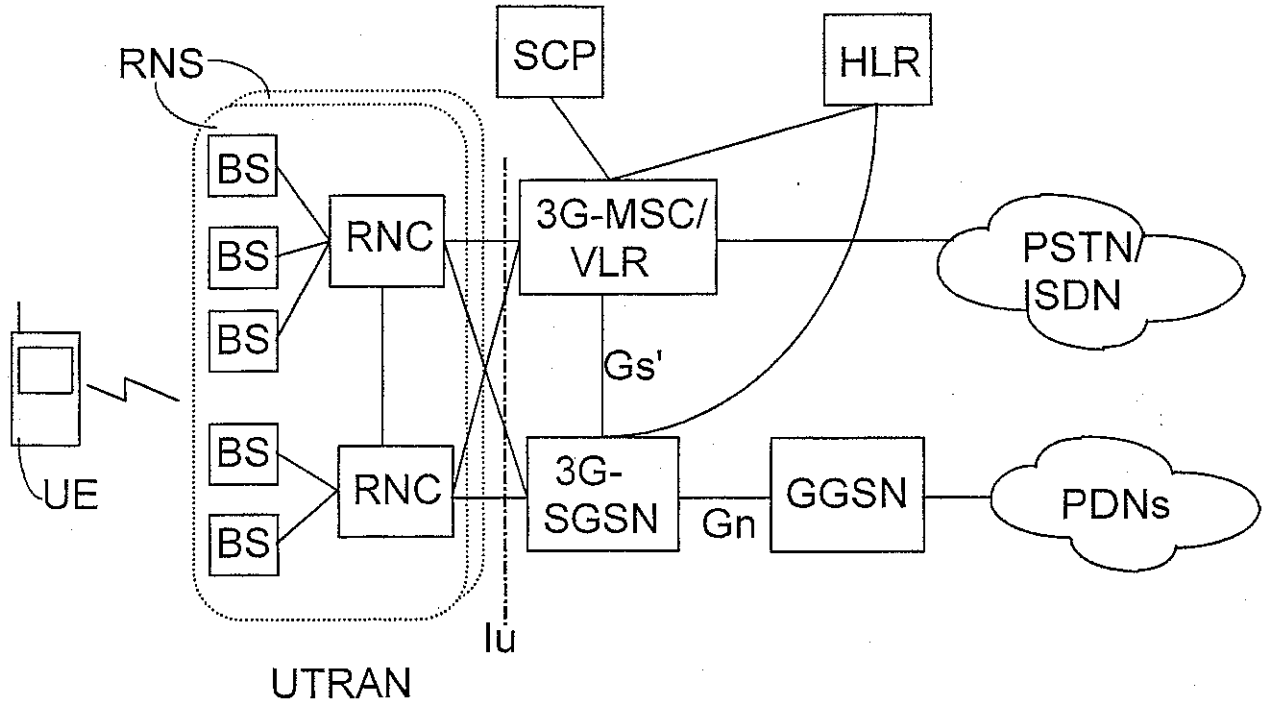

FIG. 2

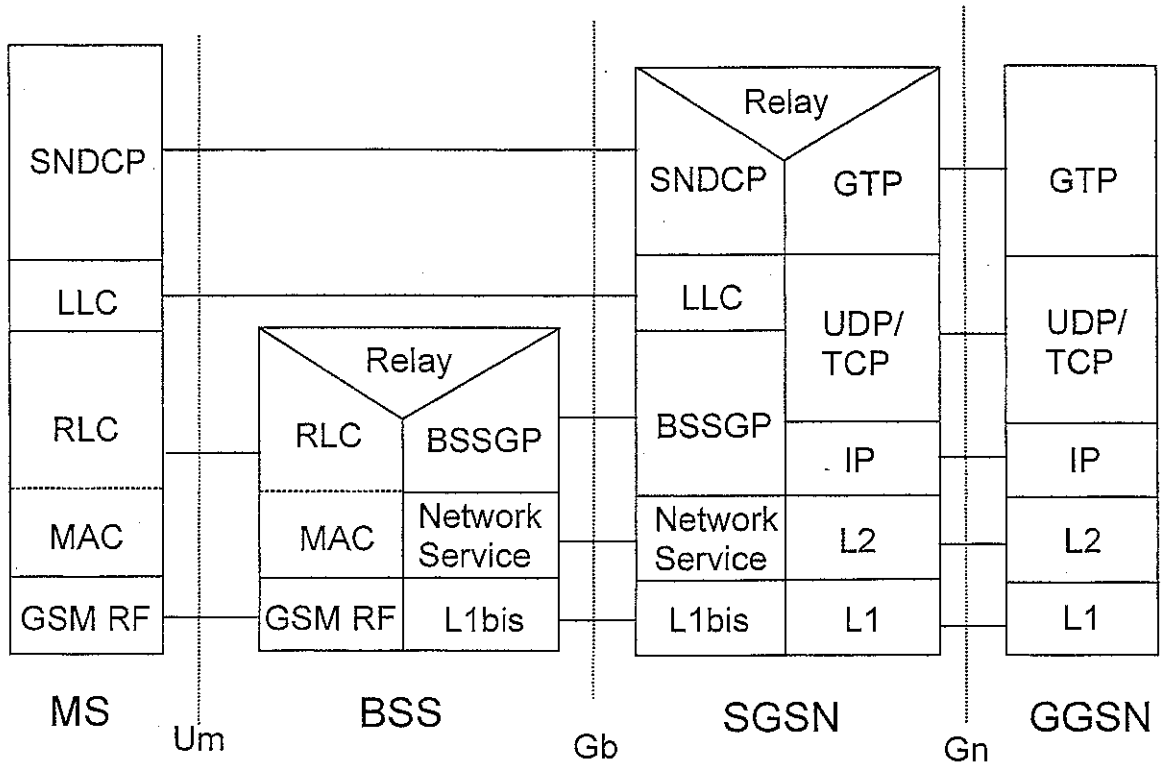
SNDCP
LLC
RLC
MAC
GSM RF
Relay
RLC
BSSGP
MAC
Network Service
GSM RF
L1bis
Relay
SNDCP
GTP
LLC
UDP/ TCP
BSSGP
IP
Network Service
L2
L1bis
L1
GTP
UDP/ TCP
IP
L2
L1
MS
Um
BSS
Gb
SGSN
Gn
GGSN

FIG. 3a

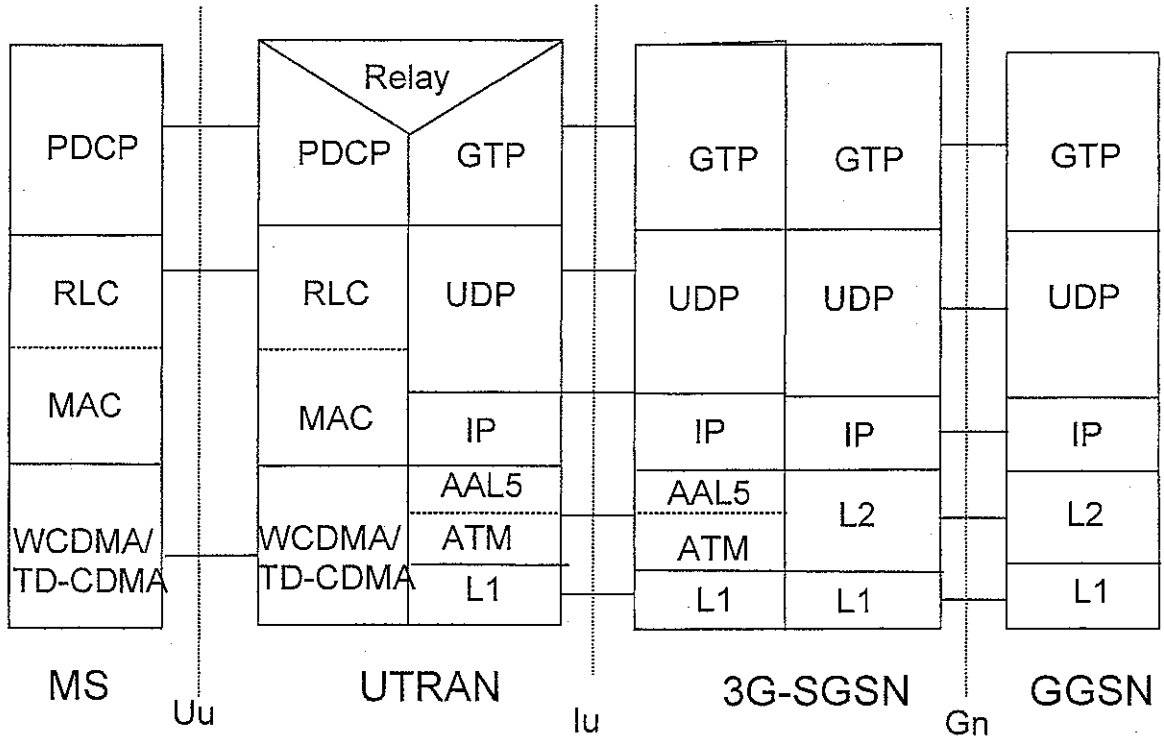
PDCP
RLC
MAC
WCDMA/ TD-CDMA
Relay
PDCP
GTP
RLC
UDP
MAC
IP
AAL5
WCDMA/ TD-CDMA
ATM
L1
GTP
GTP
UDP
UDP
IP
IP
AAL5
ATM
L2
L1
L1
GTP
UDP
IP
L2
L1
MS
Uu
UTRAN
Iu
3G-SGSN
Gn
GGSN

FIG. 3b

8 JUL 2004

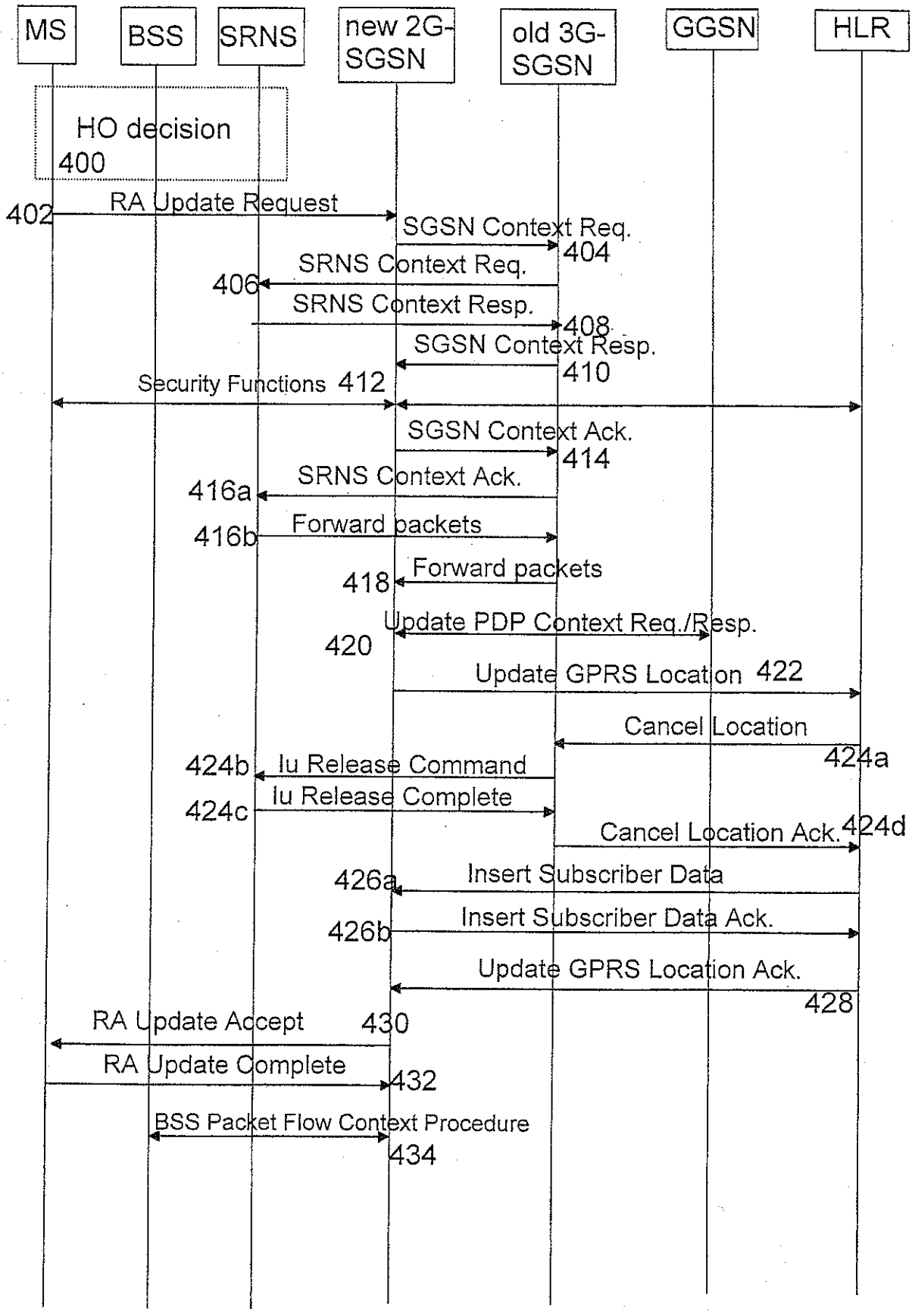

FIG. 4

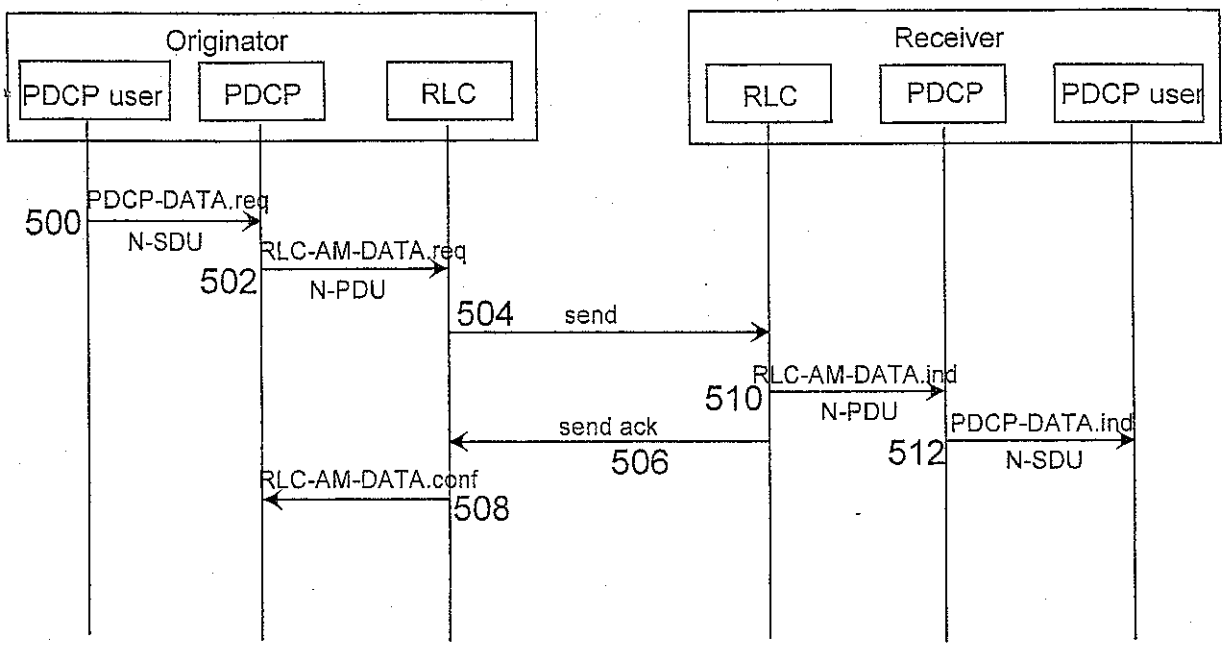
Originator
PDCP user
PDCP
RLC
Receiver
RLC
PDCP
PDCP user
500
PDCP-DATA.req
N-SDU
502
RLC-AM-DATA.req
N-PDU
504
send
510
RLC-AM-DATA.ind
N-PDU
send ack
506
512
PDCP-DATA.ind
N-SDU
RLC-AM-DATA.conf
508

FIG. 5

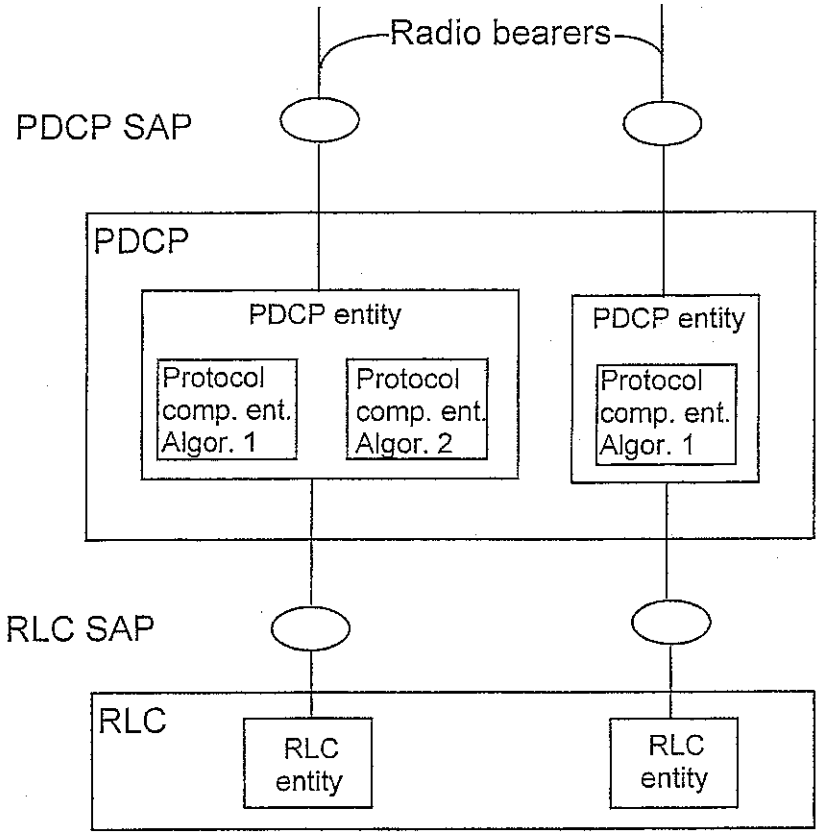
Radio bearers
PDCP SAP
PDCP
PDCP entity
Protocol comp. ent. Algor. 1
Protocol comp. ent. Algor. 2
PDCP entity
Protocol comp. ent. Algor. 1
RLC SAP
RLC
RLC entity
RLC entity

FIG. 6

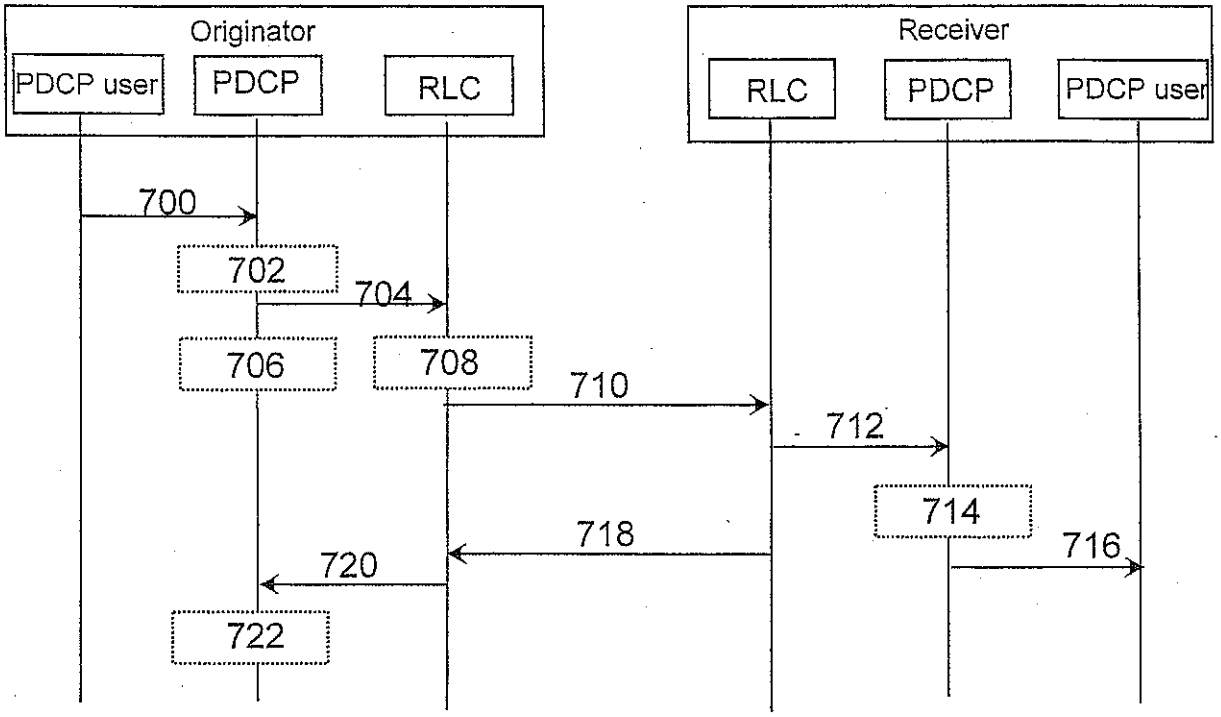
Originator
PDCP user
PDCP
RLC
Receiver
RLC
PDCP
PDCP user
700
702
704
706
708
710
712
714
716
718
720
722

FIG. 7

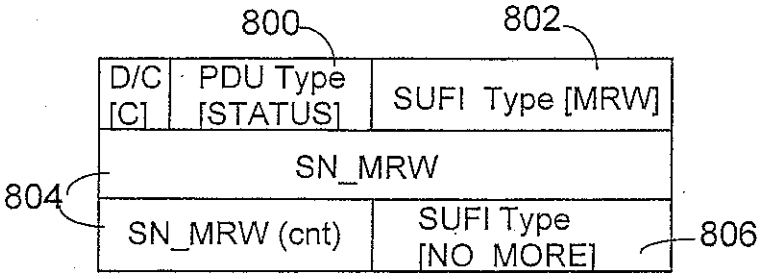
800
802
D/C [C]
PDU Type [STATUS]
SUFI Type [MRW]
SN_MRW
804
SN_MRW (cnt)
SUFI Type [NO MORE]
806

FIG. 8

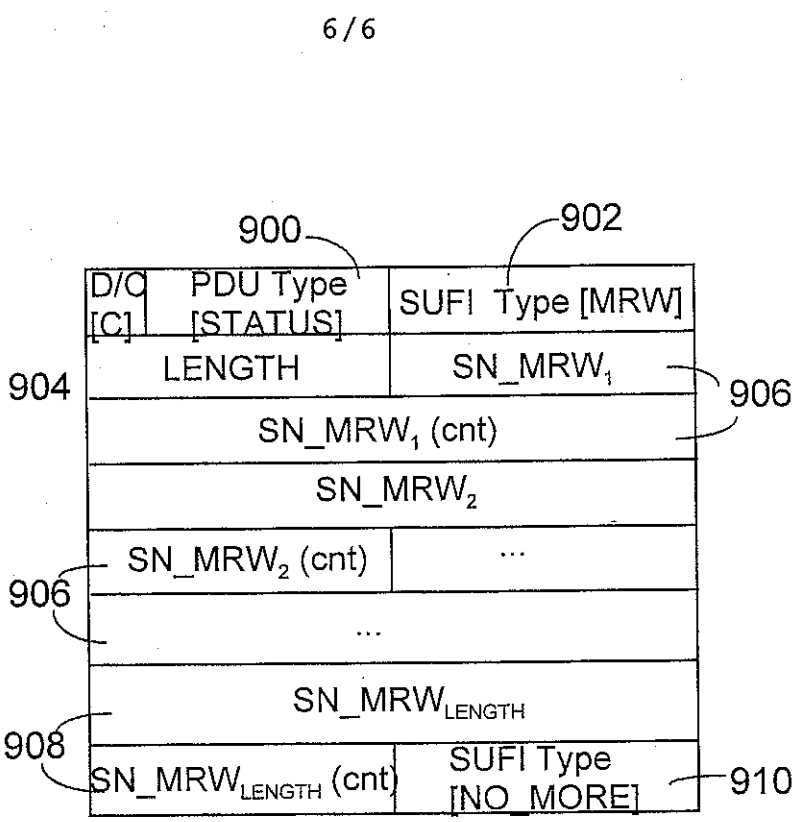
900
902
D/C [C]
PDU Type [STATUS]
SUFI Type [MRW]
LENGTH
SN_MRW1
904
906
SN_MRW1 (cnt)
SN_MRW2
SN_MRW2 (cnt)
...
906
...
SN_MRWLENGTH
908
SN_MRWLENGTH (cnt)
SUFI Type [NO_MORE]
910

FIG. 9a

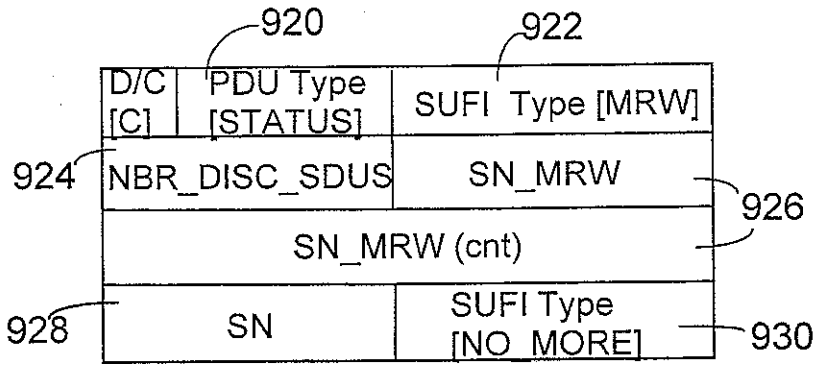
920
922
D/C [C]
PDU Type [STATUS]
SUFI Type [MRW]
924
NBR_DISC_SDUS
SN_MRW
926
SN_MRW (cnt)
928
SN
SUFI Type [NO_MORE]
930

FIG. 9b