Fig. 1

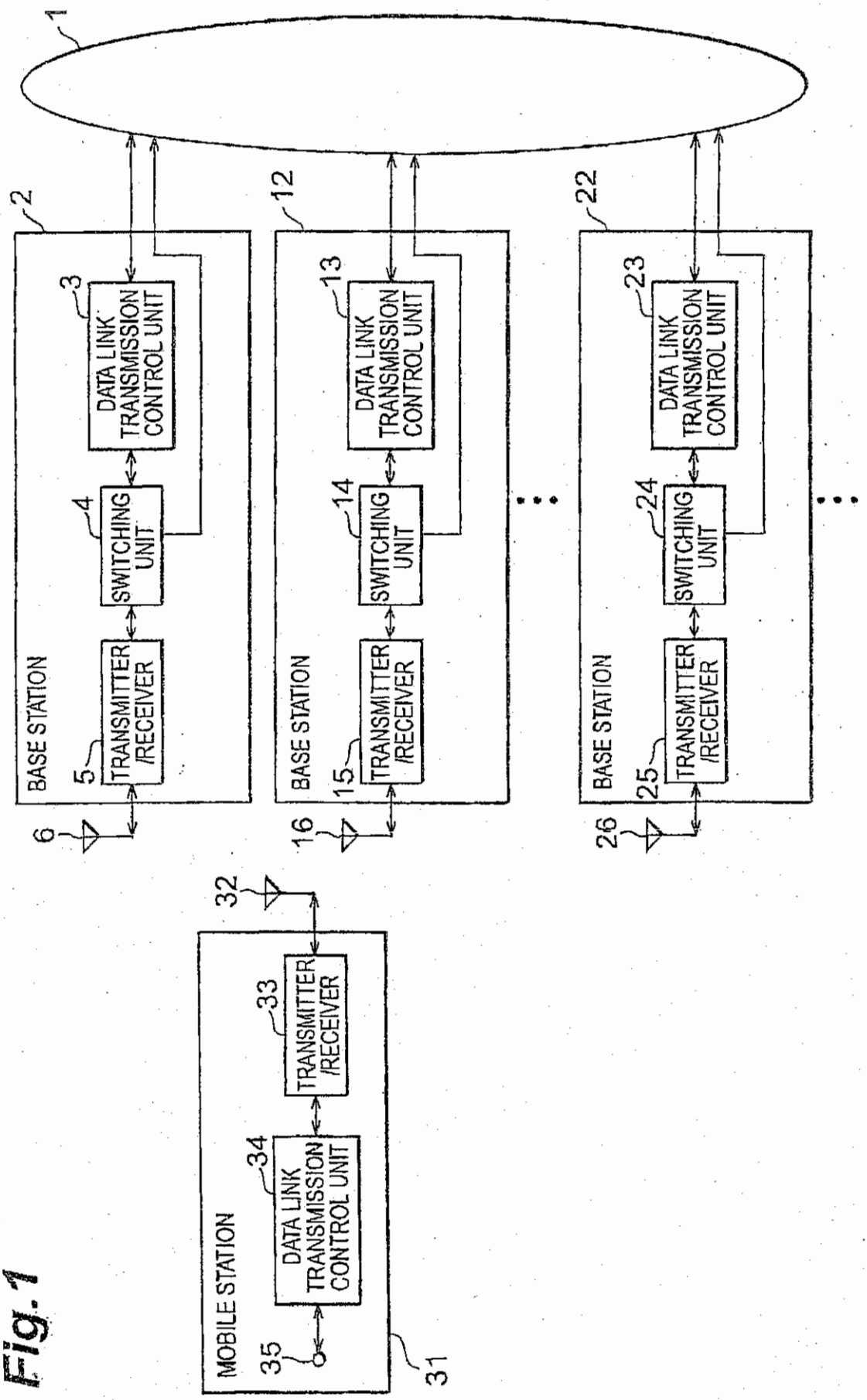

1
2
BASE STATION
3
DATA LINK TRANSMISSION CONTROL UNIT
4
SWITCHING UNIT
5
TRANSMITTER /RECEIVER
6
12
BASE STATION
13
DATA LINK TRANSMISSION CONTROL UNIT
14
SWITCHING UNIT
15
TRANSMITTER /RECEIVER
16
22
BASE STATION
23
DATA LINK TRANSMISSION CONTROL UNIT
24
SWITCHING UNIT
25
TRANSMITTER /RECEIVER
26
31
MOBILE STATION
32
33
TRANSMITTER /RECEIVER
34
DATA LINK TRANSMISSION CONTROL UNIT
35

Fig.2

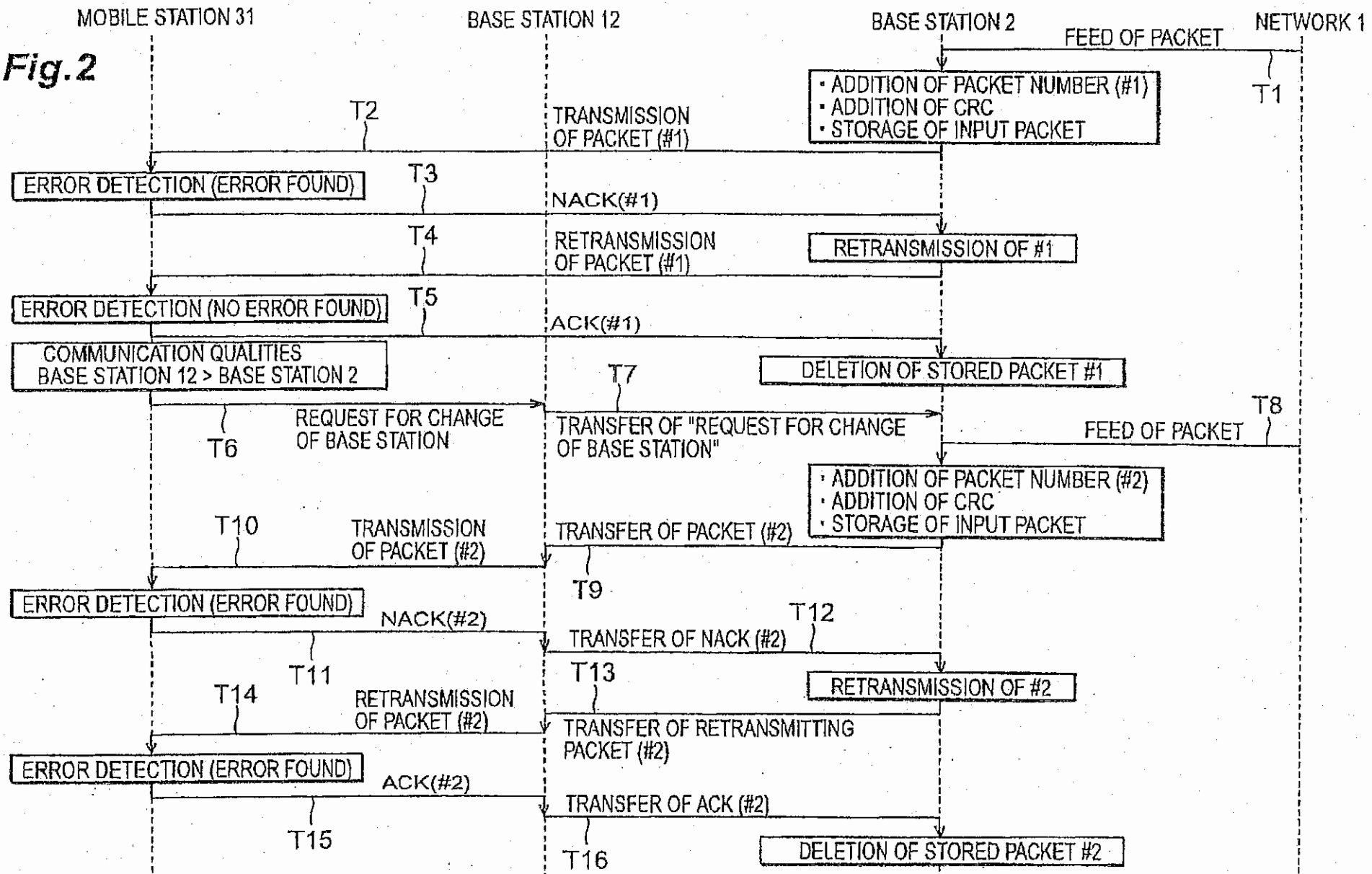

MOBILE STATION 31
BASE STATION 12
BASE STATION 2
NETWORK 1
FEED OF PACKET
T1
・ADDITION OF PACKET NUMBER (#1)
・ADDITION OF CRC
・STORAGE OF INPUT PACKET
T2
TRANSMISSION OF PACKET (#1)
ERROR DETECTION (ERROR FOUND)
T3
NACK(#1)
T4
RETRANSMISSION OF PACKET (#1)
RETRANSMISSION OF #1
ERROR DETECTION (NO ERROR FOUND)
T5
ACK(#1)
COMMUNICATION QUALITIES BASE STATION 12 > BASE STATION 2
DELETION OF STORED PACKET #1
T7
T6
REQUEST FOR CHANGE OF BASE STATION
TRANSFER OF "REQUEST FOR CHANGE OF BASE STATION"
T8
FEED OF PACKET
・ADDITION OF PACKET NUMBER (#2)
・ADDITION OF CRC
・STORAGE OF INPUT PACKET
T10
TRANSMISSION OF PACKET (#2)
TRANSFER OF PACKET (#2)
T9
ERROR DETECTION (ERROR FOUND)
NACK(#2)
T12
TRANSFER OF NACK (#2)
T11
T13
RETRANSMISSION OF #2
T14
RETRANSMISSION OF PACKET (#2)
TRANSFER OF RETRANSMITTING PACKET (#2)
ERROR DETECTION (ERROR FOUND)
ACK(#2)
TRANSFER OF ACK (#2)
T15
T16
DELETION OF STORED PACKET #2

Fig.3

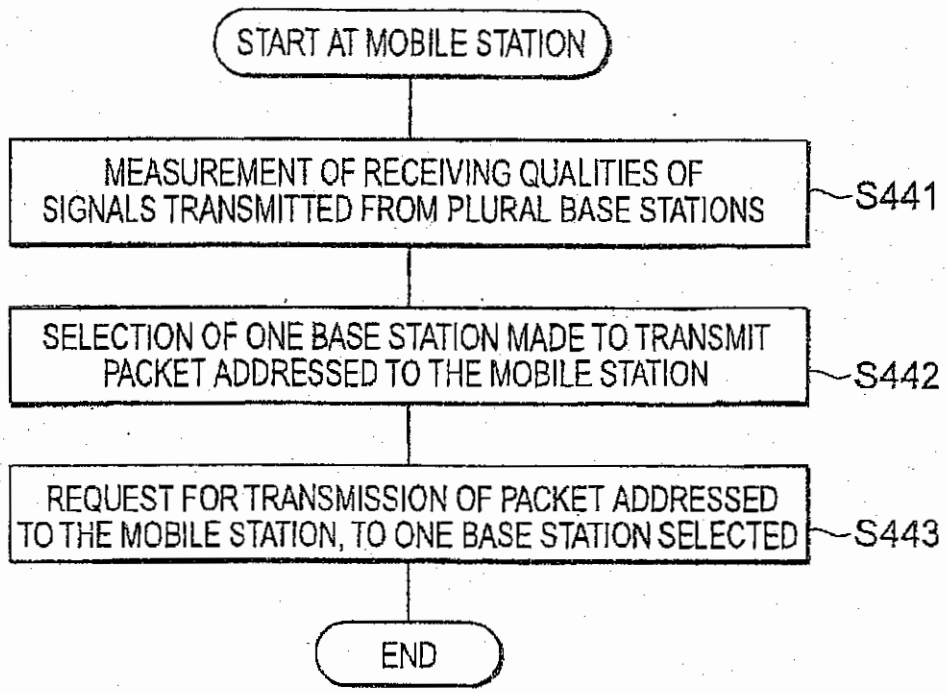

START AT MOBILE STATION
MEASUREMENT OF RECEIVING QUALITIES OF SIGNALS TRANSMITTED FROM PLURAL BASE STATIONS
S441
SELECTION OF ONE BASE STATION MADE TO TRANSMIT PACKET ADDRESSED TO THE MOBILE STATION
S442
REQUEST FOR TRANSMISSION OF PACKET ADDRESSED TO THE MOBILE STATION, TO ONE BASE STATION SELECTED
S443
END

Fig.4

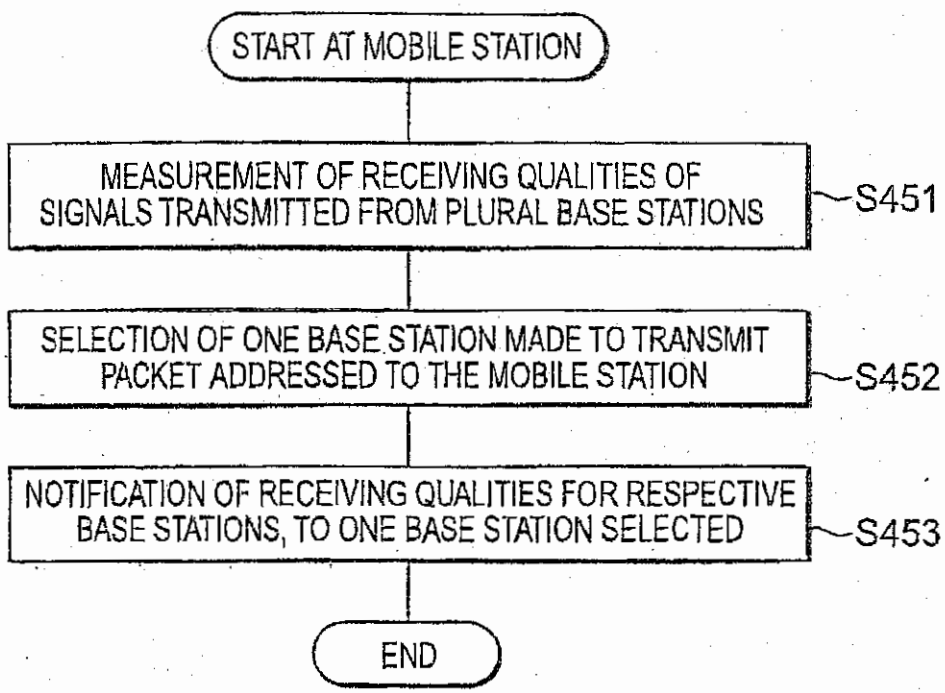

START AT MOBILE STATION
MEASUREMENT OF RECEIVING QUALITIES OF SIGNALS TRANSMITTED FROM PLURAL BASE STATIONS
S451
SELECTION OF ONE BASE STATION MADE TO TRANSMIT PACKET ADDRESSED TO THE MOBILE STATION
S452
NOTIFICATION OF RECEIVING QUALITIES FOR RESPECTIVE BASE STATIONS, TO ONE BASE STATION SELECTED
S453
END

Fig.5

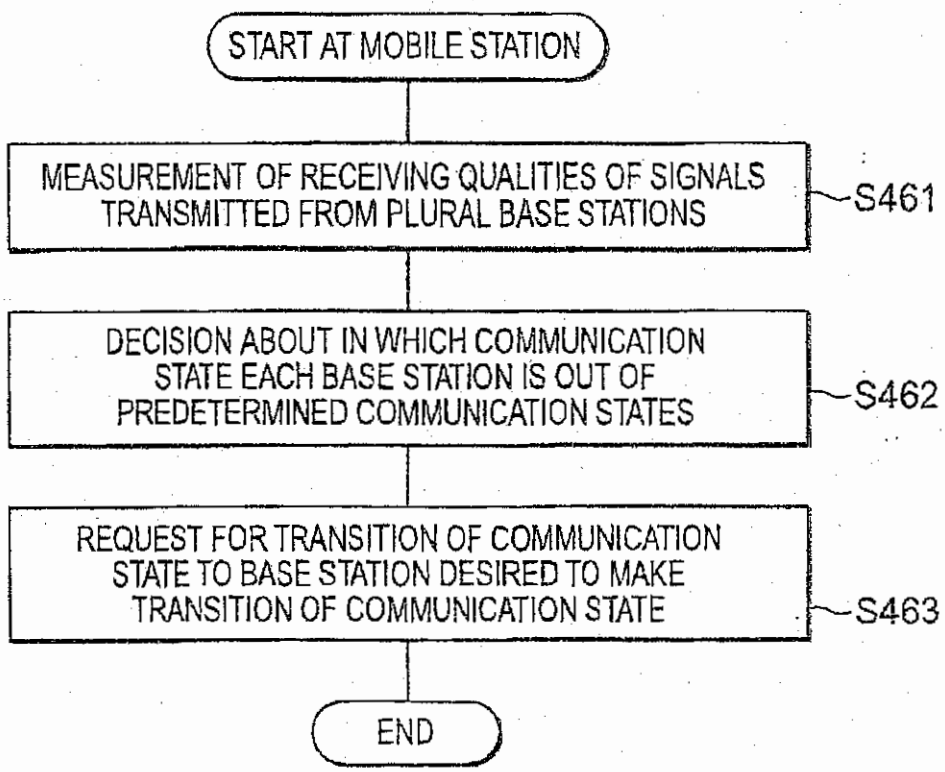
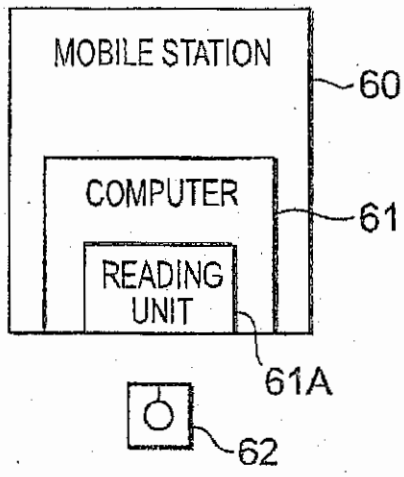

START AT MOBILE STATION
MEASUREMENT OF RECEIVING QUALITIES OF SIGNALS TRANSMITTED FROM PLURAL BASE STATIONS
S461
DECISION ABOUT IN WHICH COMMUNICATION STATE EACH BASE STATION IS OUT OF PREDETERMINED COMMUNICATION STATES
S462
REQUEST FOR TRANSITION OF COMMUNICATION STATE TO BASE STATION DESIRED TO MAKE TRANSITION OF COMMUNICATION STATE
S463
END

Fig.6



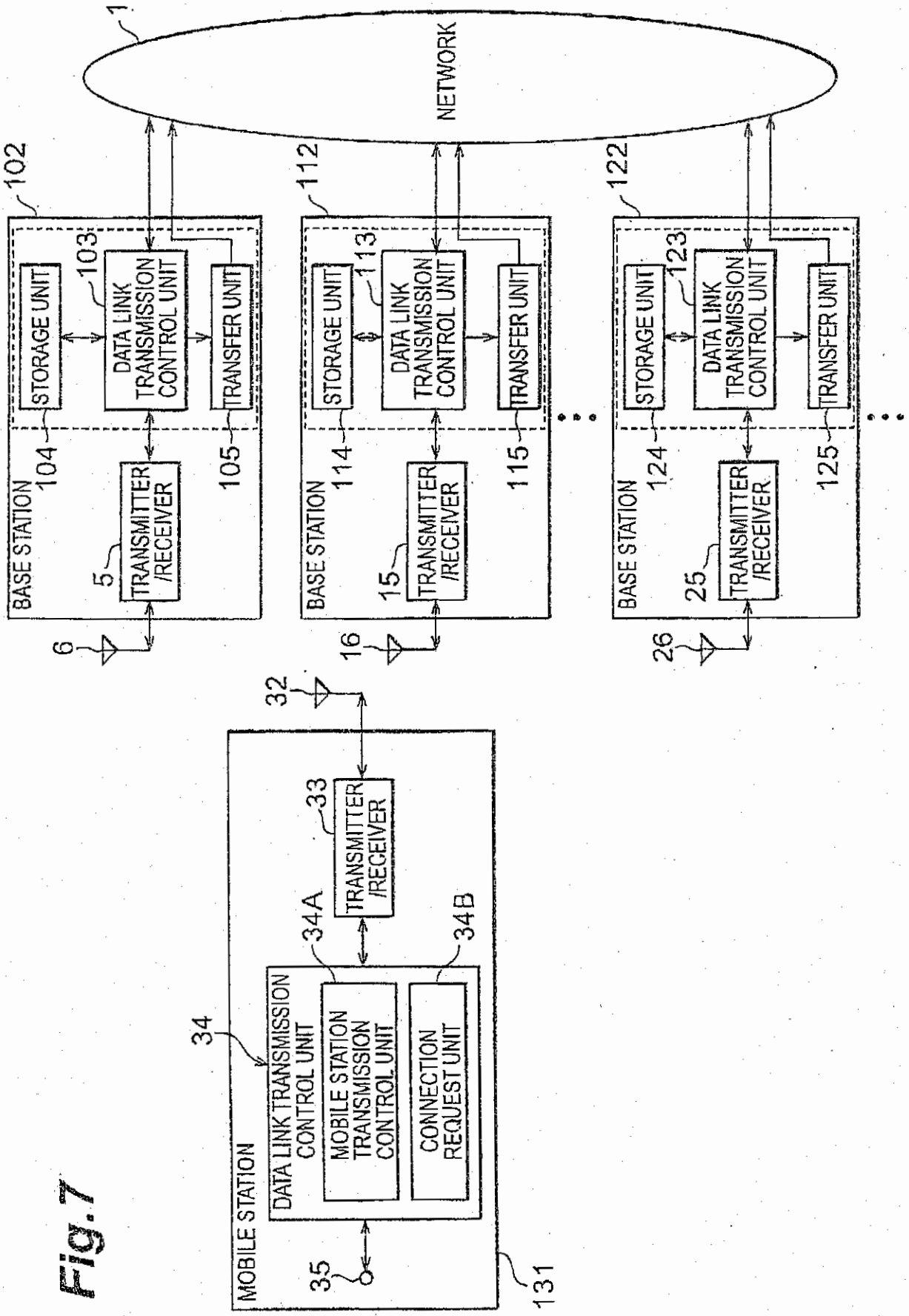

1
NETWORK
102
BASE STATION
STORAGE UNIT
103
DATA LINK TRANSMISSION CONTROL UNIT
TRANSFER UNIT
104
105
TRANSMITTER /RECEIVER
5
6
112
BASE STATION
STORAGE UNIT
113
DATA LINK TRANSMISSION CONTROL UNIT
TRANSFER UNIT
114
115
TRANSMITTER /RECEIVER
15
16
122
BASE STATION
STORAGE UNIT
123
DATA LINK TRANSMISSION CONTROL UNIT
TRANSFER UNIT
124
125
TRANSMITTER /RECEIVER
25
26
32
33
TRANSMITTER /RECEIVER
34
DATA LINK TRANSMISSION CONTROL UNIT
34A
MOBILE STATION TRANSMISSION CONTROL UNIT
34B
CONNECTION REQUEST UNIT
MOBILE STATION
35
131

Fig. 7

Fig.8

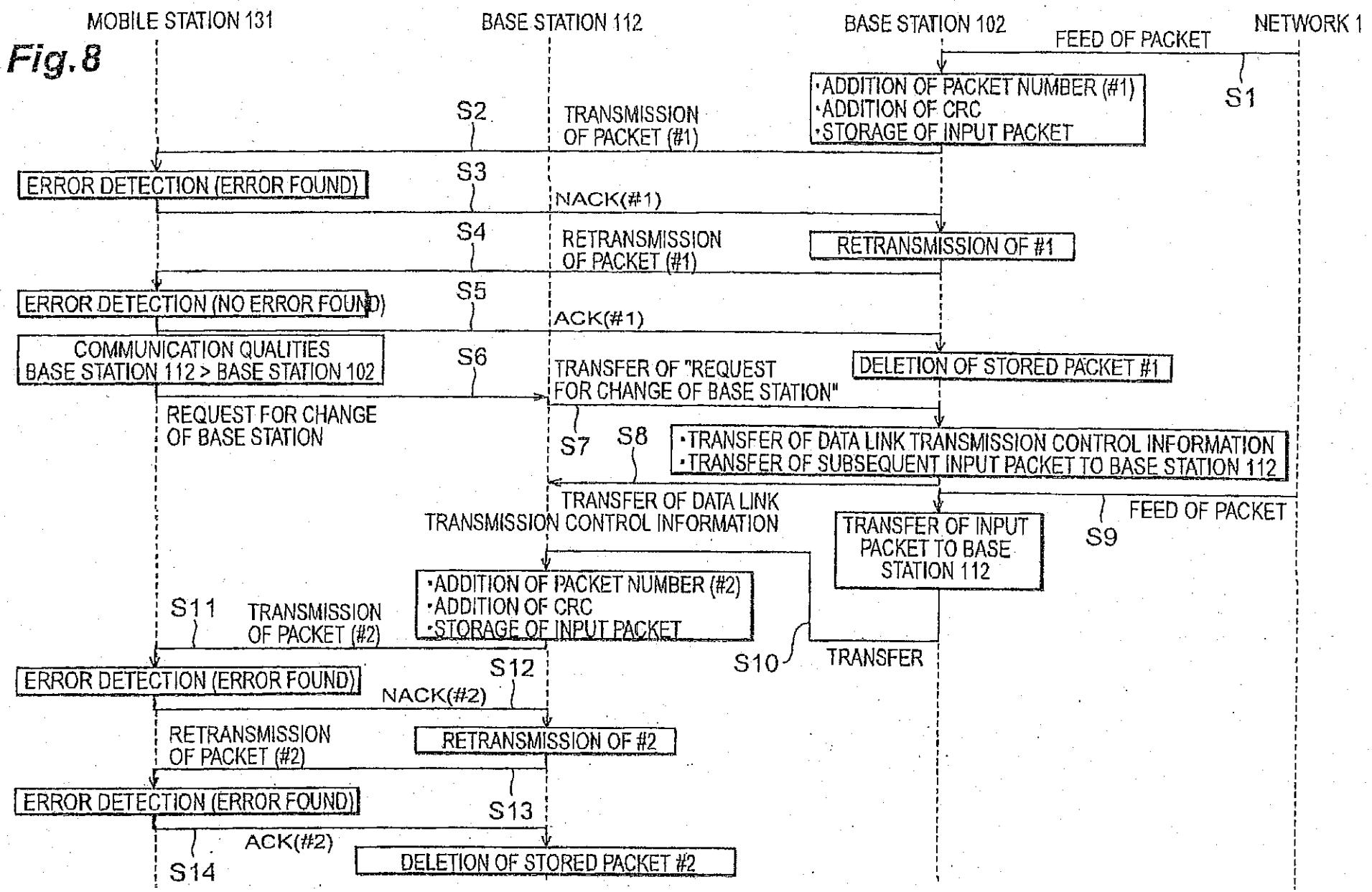

MOBILE STATION 131
BASE STATION 112
BASE STATION 102
NETWORK 1
FEED OF PACKET
S1
·ADDITION OF PACKET NUMBER (#1)
·ADDITION OF CRC
·STORAGE OF INPUT PACKET
S2
TRANSMISSION OF PACKET (#1)
ERROR DETECTION (ERROR FOUND)
S3
NACK(#1)
S4
RETRANSMISSION OF PACKET (#1)
RETRANSMISSION OF #1
ERROR DETECTION (NO ERROR FOUND)
S5
ACK(#1)
COMMUNICATION QUALITIES BASE STATION 112 > BASE STATION 102
S6
TRANSFER OF "REQUEST FOR CHANGE OF BASE STATION"
DELETION OF STORED PACKET #1
REQUEST FOR CHANGE OF BASE STATION
S7
S8
·TRANSFER OF DATA LINK TRANSMISSION CONTROL INFORMATION
·TRANSFER OF SUBSEQUENT INPUT PACKET TO BASE STATION 112
TRANSFER OF DATA LINK TRANSMISSION CONTROL INFORMATION
FEED OF PACKET
S9
TRANSFER OF INPUT PACKET TO BASE STATION 112
·ADDITION OF PACKET NUMBER (#2)
·ADDITION OF CRC
·STORAGE OF INPUT PACKET
S11
TRANSMISSION OF PACKET (#2)
S10
TRANSFER
S12
ERROR DETECTION (ERROR FOUND)
NACK(#2)
RETRANSMISSION OF PACKET (#2)
RETRANSMISSION OF #2
ERROR DETECTION (ERROR FOUND)
S13
ACK(#2)
S14
DELETION OF STORED PACKET #2

Fig. 9

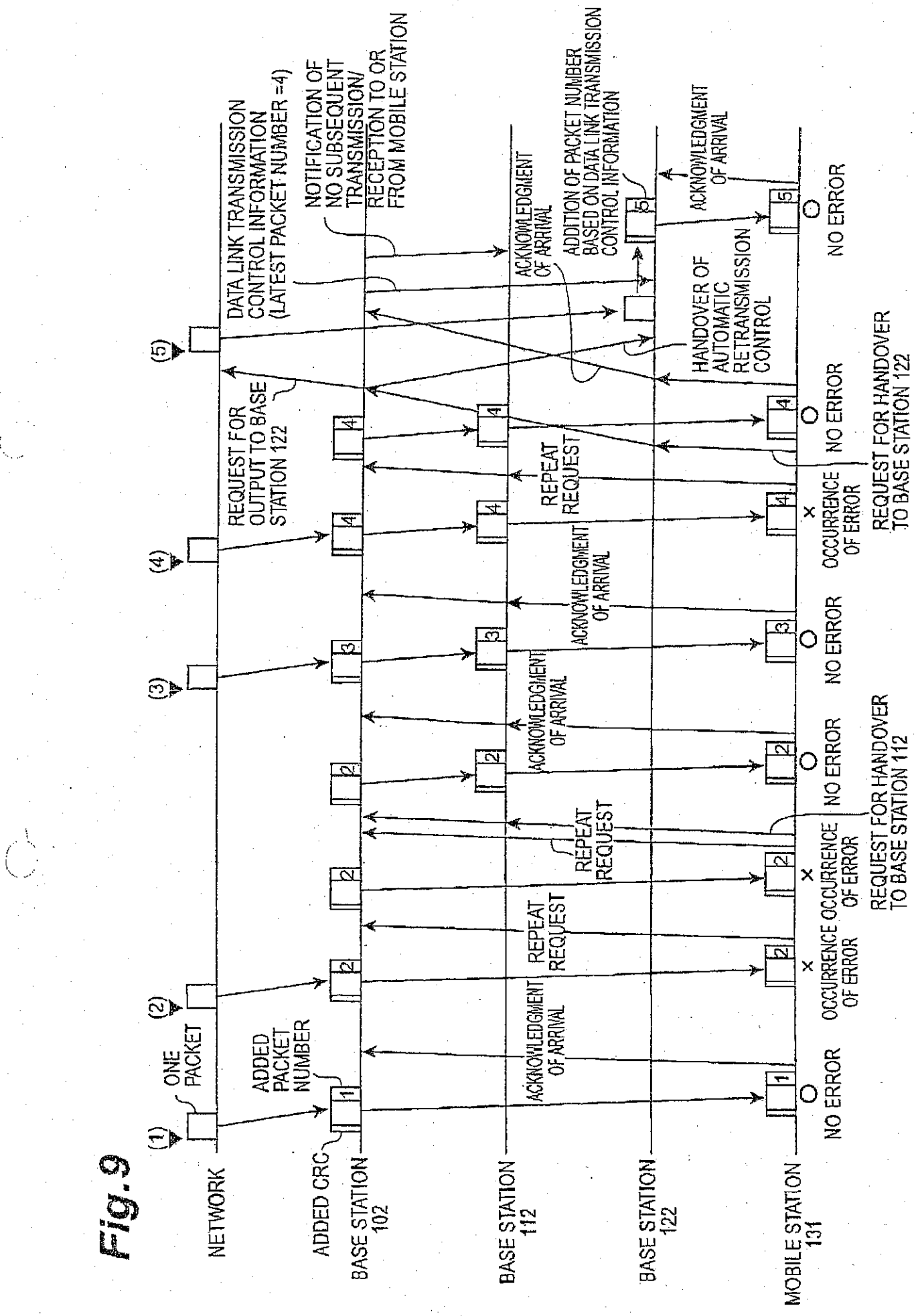

NETWORK
BASE STATION 102
BASE STATION 112
BASE STATION 122
MOBILE STATION 131
(1)
ONE PACKET
(2)
(3)
(4)
(5)
ADDED PACKET NUMBER
ADDED CRC
ACKNOWLEDGMENT OF ARRIVAL
REPEAT REQUEST
OCCURRENCE OF ERROR
NO ERROR
REQUEST FOR OUTPUT TO BASE STATION 122
DATA LINK TRANSMISSION CONTROL INFORMATION (LATEST PACKET NUMBER =4)
NOTIFICATION OF NO SUBSEQUENT TRANSMISSION/ RECEPTION TO OR FROM MOBILE STATION
ADDITION OF PACKET NUMBER BASED ON DATA LINK TRANSMISSION CONTROL INFORMATION
HANDOVER OF AUTOMATIC RETRANSMISSION CONTROL
REQUEST FOR HANDOVER TO BASE STATION 112
REQUEST FOR HANDOVER TO BASE STATION 122

Fig.10A

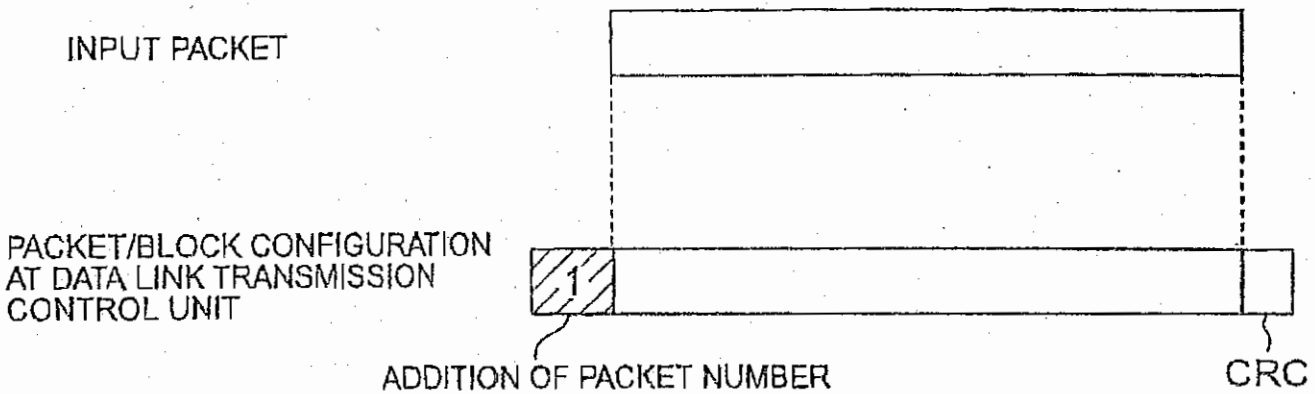


Fig.10B

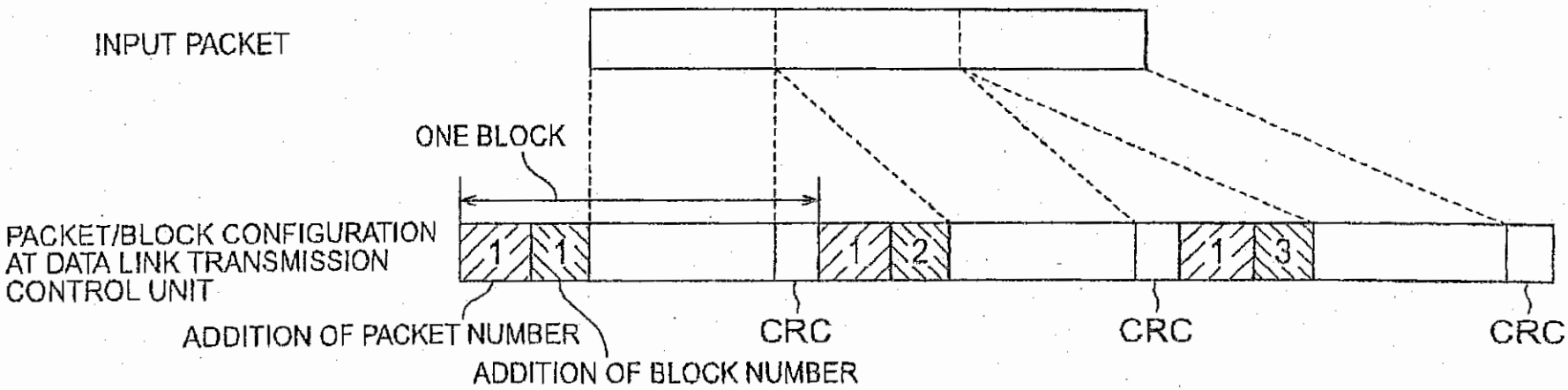


Fig. 11

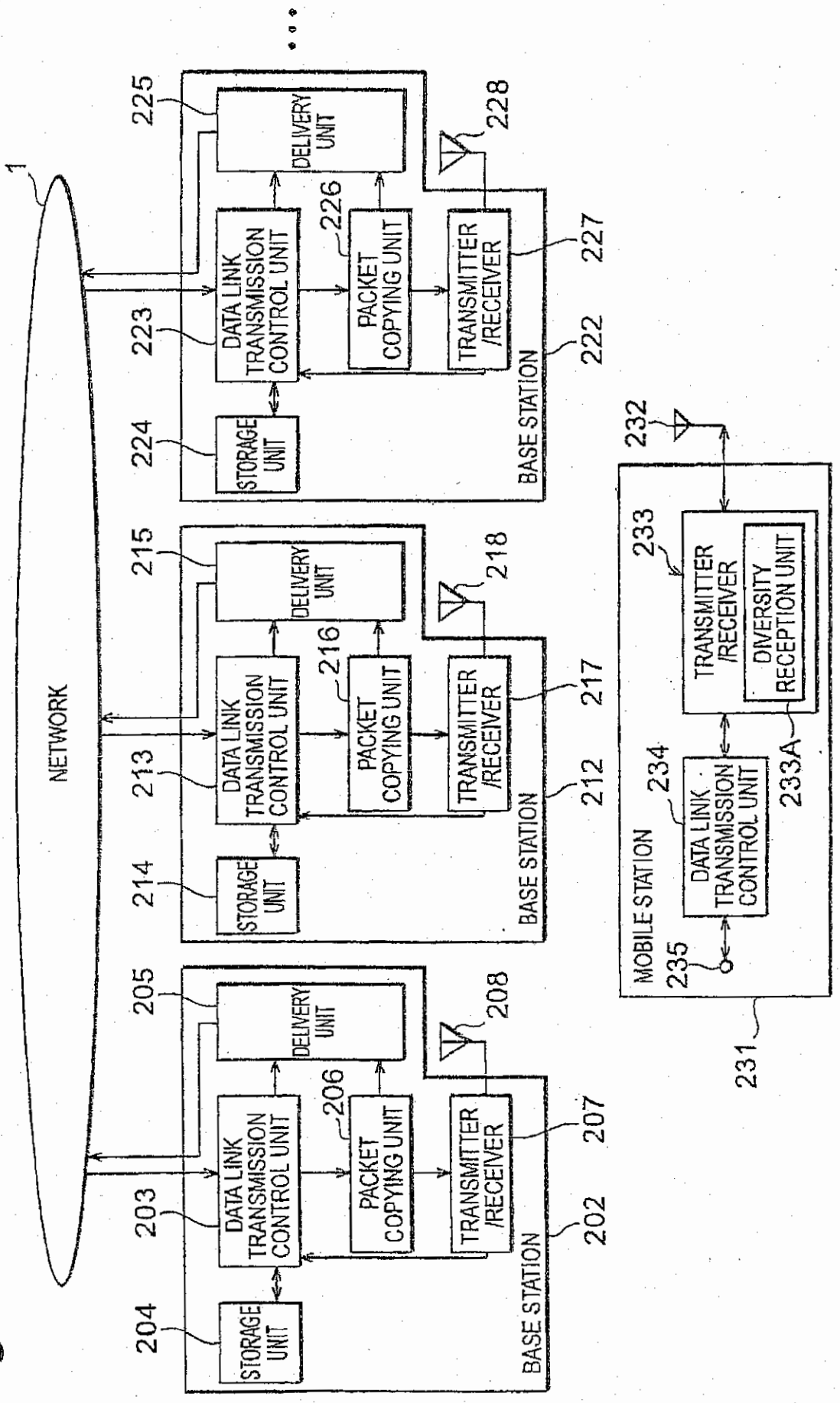

NETWORK
1
BASE STATION
202
203
204
205
206
207
208
DATA LINK TRANSMISSION CONTROL UNIT
PACKET COPYING UNIT
TRANSMITTER /RECEIVER
STORAGE UNIT
DELIVERY UNIT
BASE STATION
212
213
214
215
216
217
218
DATA LINK TRANSMISSION CONTROL UNIT
PACKET COPYING UNIT
TRANSMITTER /RECEIVER
STORAGE UNIT
DELIVERY UNIT
BASE STATION
222
223
224
225
226
227
228
DATA LINK TRANSMISSION CONTROL UNIT
PACKET COPYING UNIT
TRANSMITTER /RECEIVER
STORAGE UNIT
DELIVERY UNIT
MOBILE STATION
231
232
233
233A
234
235
TRANSMITTER /RECEIVER
DIVERSITY RECEPTION UNIT
DATA LINK TRANSMISSION CONTROL UNIT

Fig.12

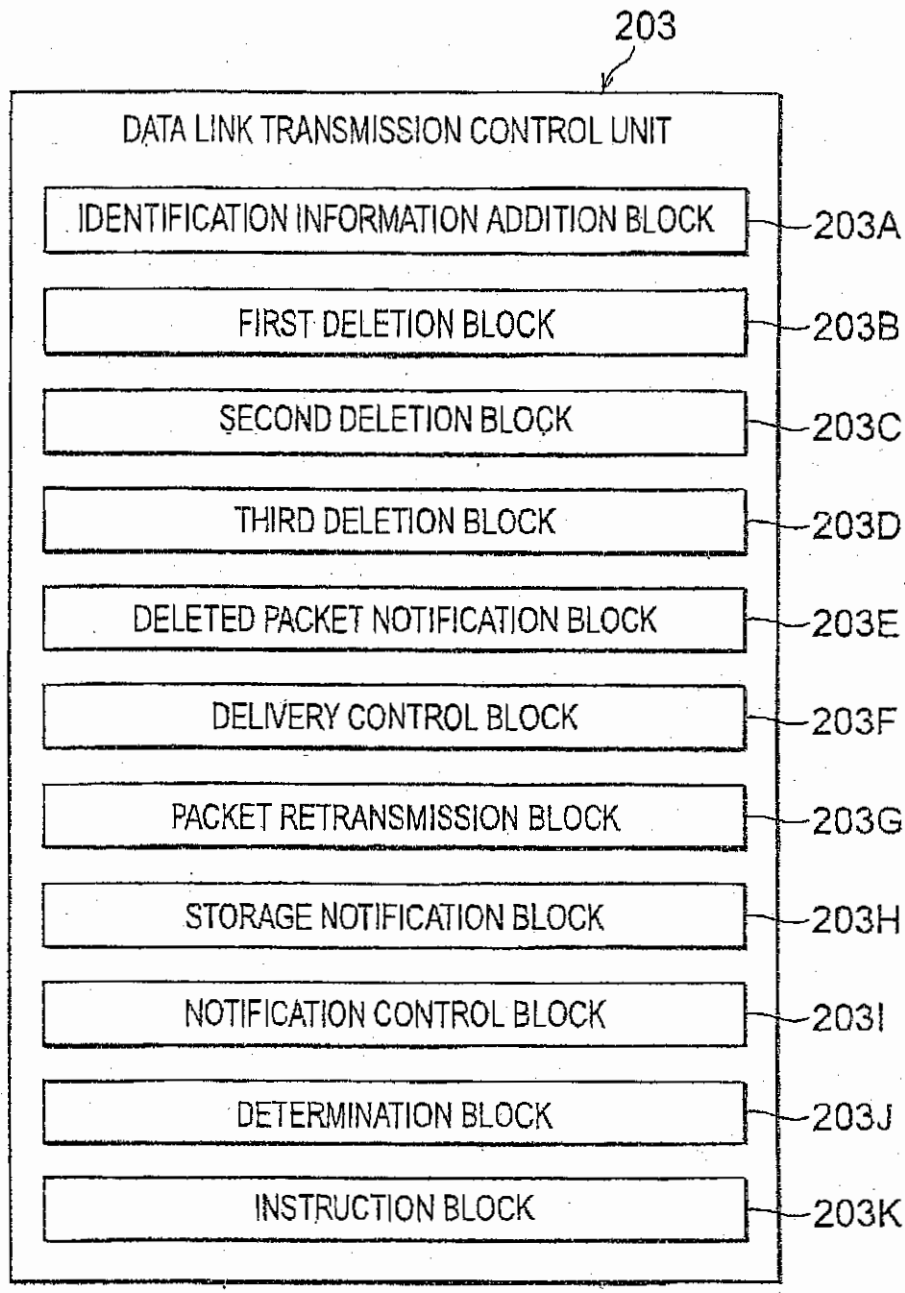

203
DATA LINK TRANSMISSION CONTROL UNIT
IDENTIFICATION INFORMATION ADDITION BLOCK
203A
FIRST DELETION BLOCK
203B
SECOND DELETION BLOCK
203C
THIRD DELETION BLOCK
203D
DELETED PACKET NOTIFICATION BLOCK
203E
DELIVERY CONTROL BLOCK
203F
PACKET RETRANSMISSION BLOCK
203G
STORAGE NOTIFICATION BLOCK
203H
NOTIFICATION CONTROL BLOCK
203I
DETERMINATION BLOCK
203J
INSTRUCTION BLOCK
203K

Fig.13

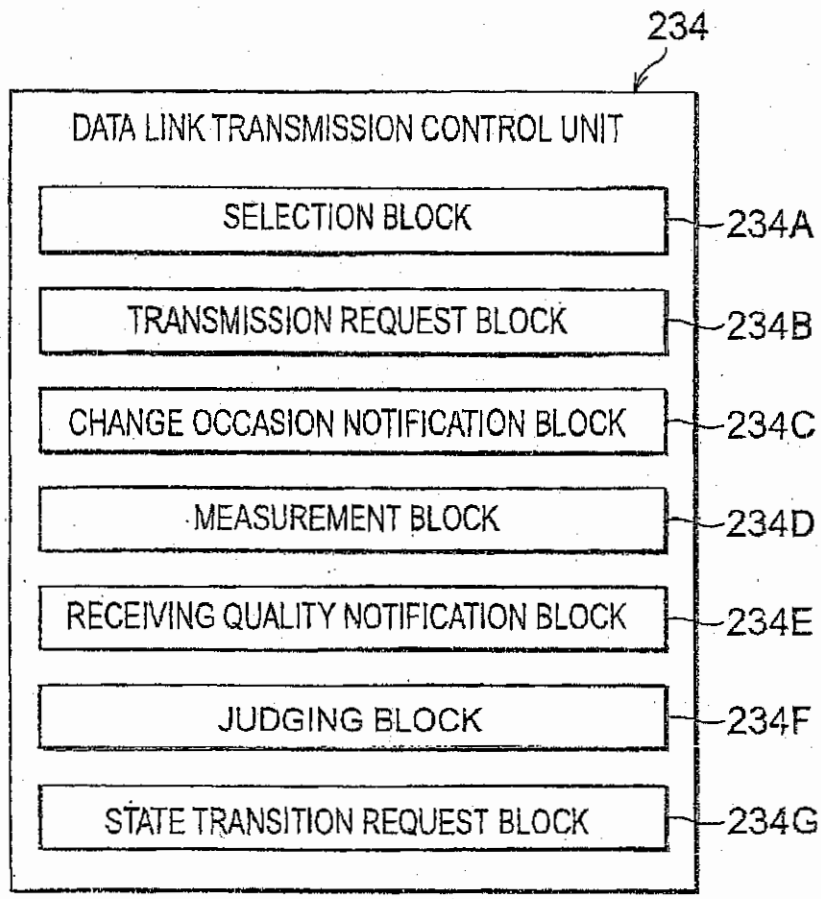

234
DATA LINK TRANSMISSION CONTROL UNIT
SELECTION BLOCK
234A
TRANSMISSION REQUEST BLOCK
234B
CHANGE OCCASION NOTIFICATION BLOCK
234C
MEASUREMENT BLOCK
234D
RECEIVING QUALITY NOTIFICATION BLOCK
234E
JUDGING BLOCK
234F
STATE TRANSITION REQUEST BLOCK
234G

Fig.14A

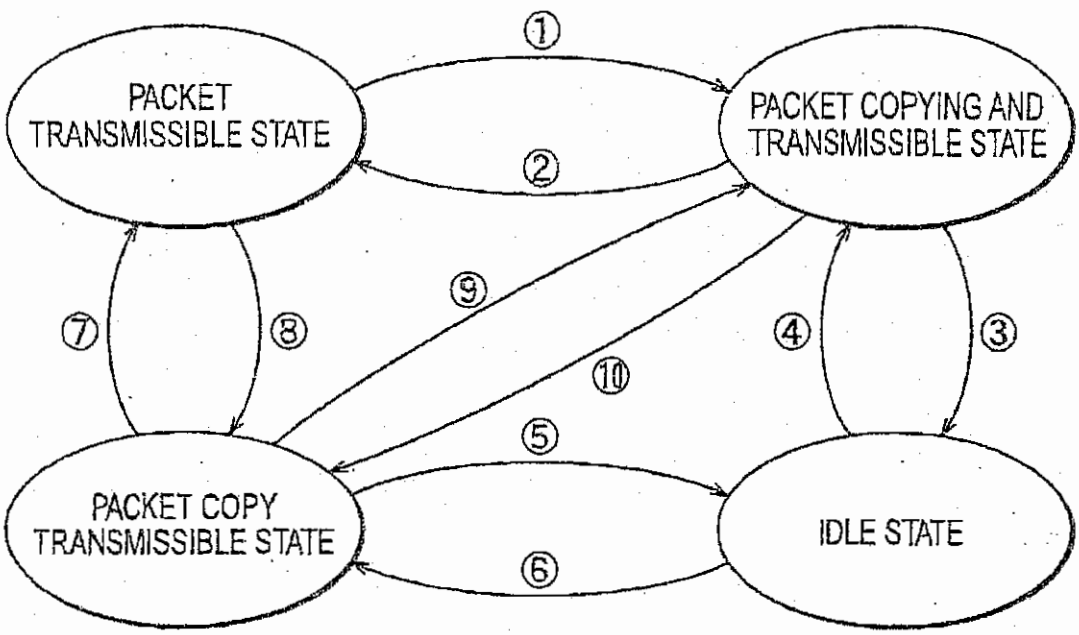


Fig.14B

EVENT NAME	STATE TRANSITION OF CERTAIN BASE STATION		STATE TRANSITION OF ANOTHER BASE STATION
EVENT A	①	—	⑥
EVENT B	②	—	⑤
EVENT C	③	—	⑦
EVENT D	④	—	⑧
EVENT E	⑨	—	⑩

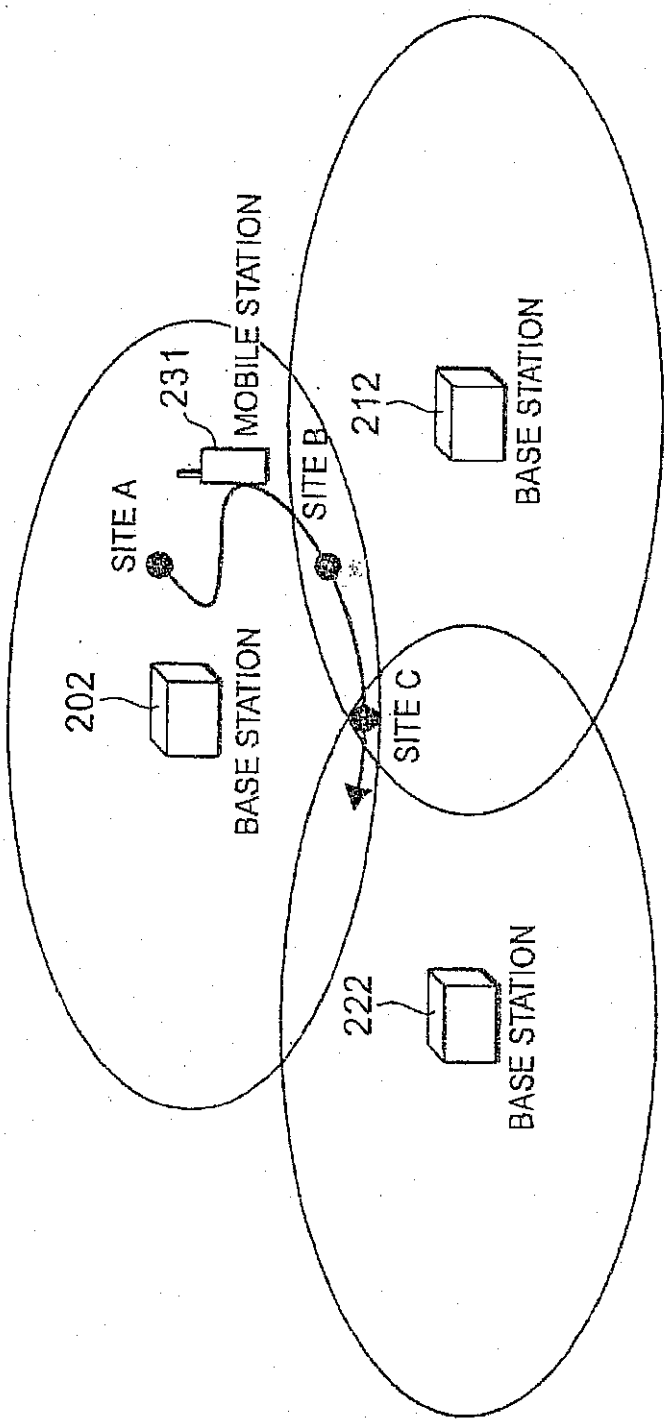

202
BASE STATION
SITE A
231
MOBILE STATION
SITE B
212
BASE STATION
SITE C
222
BASE STATION

Fig.15

Fig. 16

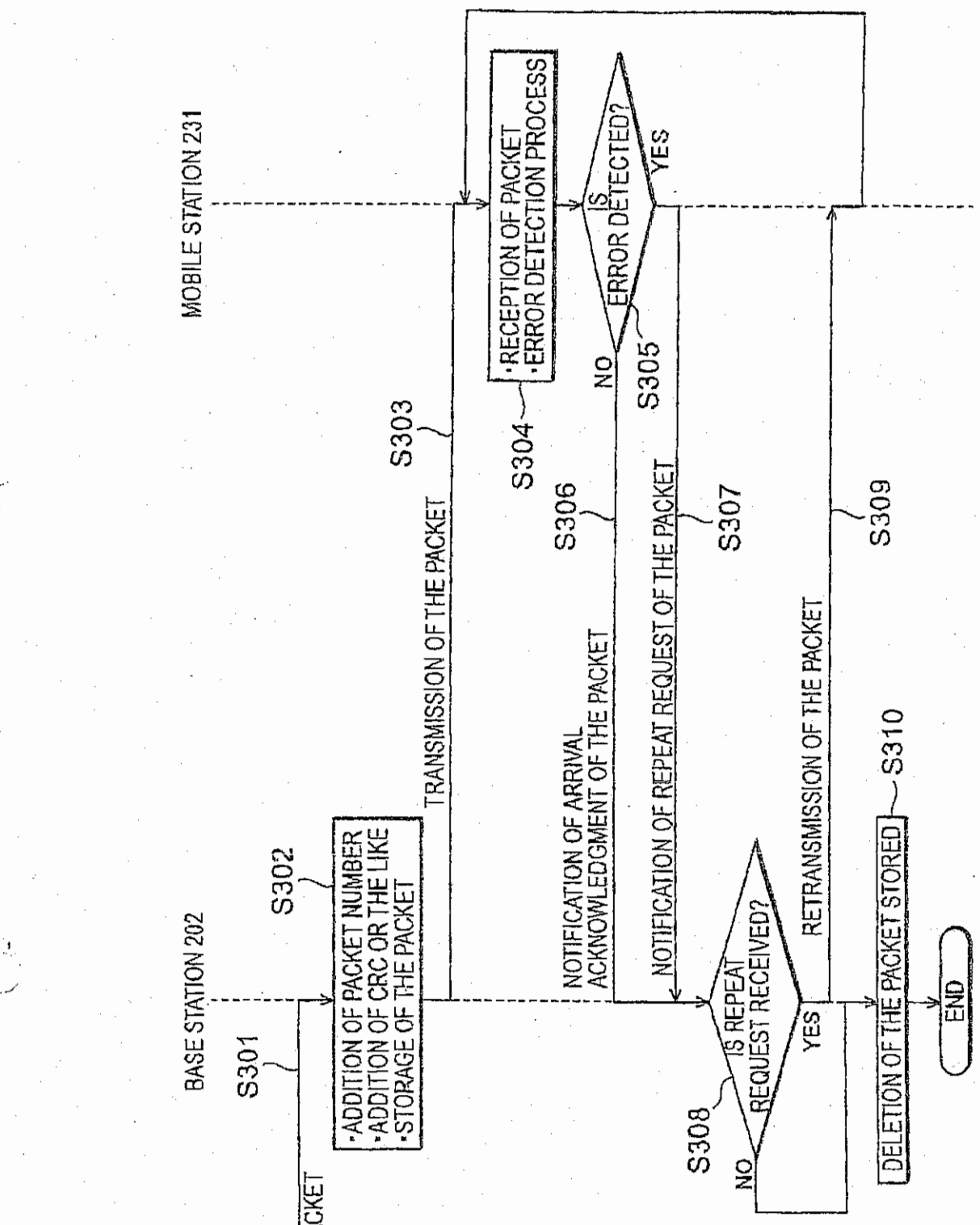

NETWORK 1
BASE STATION 202
MOBILE STATION 231
START
S301
FEED OF PACKET
S302
·ADDITION OF PACKET NUMBER
·ADDITION OF CRC OR THE LIKE
·STORAGE OF THE PACKET
S303
TRANSMISSION OF THE PACKET
S304
·RECEPTION OF PACKET
·ERROR DETECTION PROCESS
S305
IS ERROR DETECTED?
NO
YES
S306
NOTIFICATION OF ARRIVAL ACKNOWLEDGMENT OF THE PACKET
S307
NOTIFICATION OF REPEAT REQUEST OF THE PACKET
S308
IS REPEAT REQUEST RECEIVED?
NO
YES
S309
RETRANSMISSION OF THE PACKET
S310
DELETION OF THE PACKET STORED
END

Fig.17

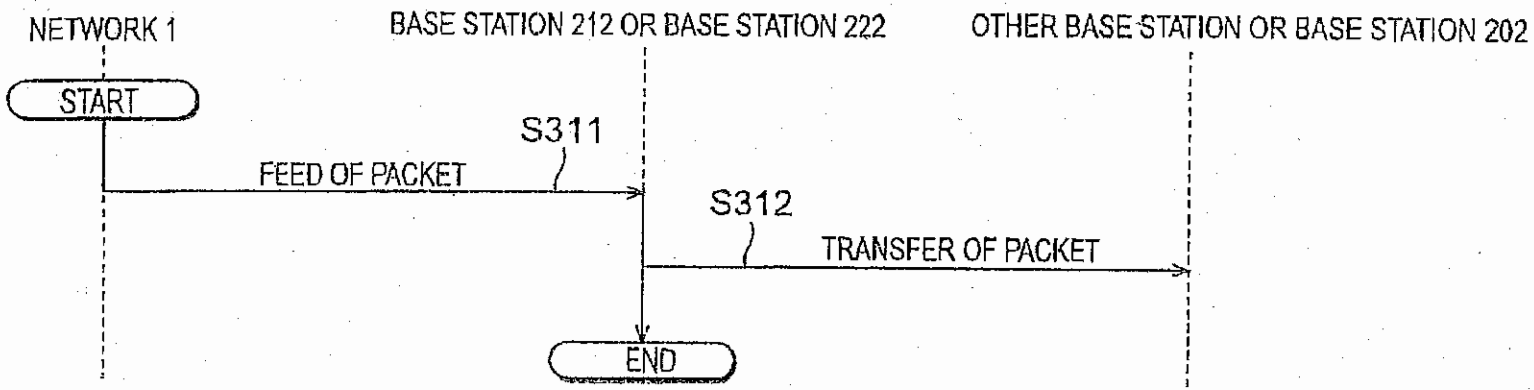

NETWORK 1
BASE STATION 212 OR BASE STATION 222
OTHER BASE STATION OR BASE STATION 202
START
S311
FEED OF PACKET
S312
TRANSFER OF PACKET
END

Fig. 18

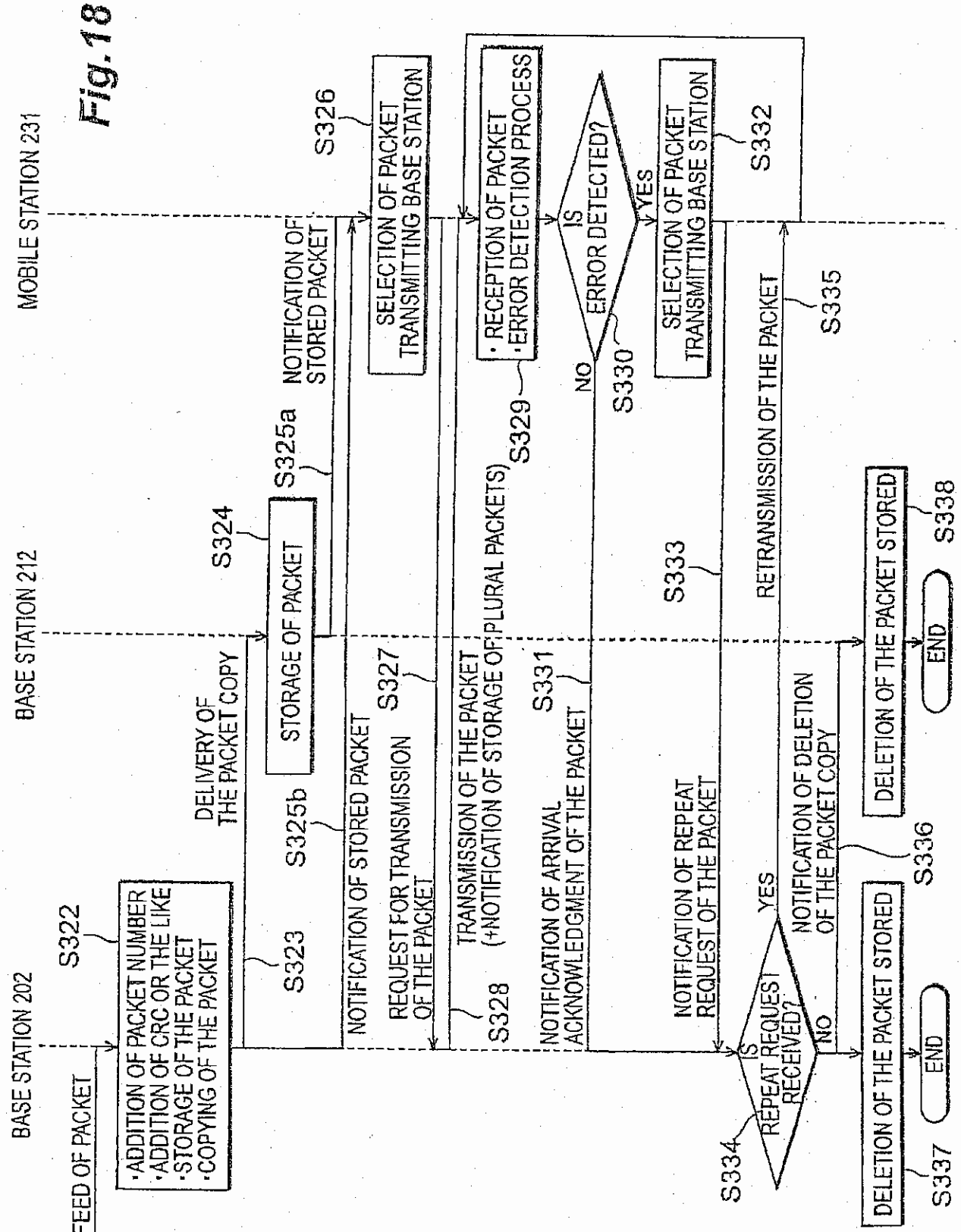

NETWORK 1
BASE STATION 202
BASE STATION 212
MOBILE STATION 231
START
FEED OF PACKET
S321
S322
·ADDITION OF PACKET NUMBER
·ADDITION OF CRC OR THE LIKE
·STORAGE OF THE PACKET
·COPYING OF THE PACKET
DELIVERY OF THE PACKET COPY
S323
S324
STORAGE OF PACKET
S325a
NOTIFICATION OF STORED PACKET
S325b
NOTIFICATION OF STORED PACKET
S326
SELECTION OF PACKET TRANSMITTING BASE STATION
REQUEST FOR TRANSMISSION OF THE PACKET
S327
TRANSMISSION OF THE PACKET (+NOTIFICATION OF STORAGE OF PLURAL PACKETS)
S328
·RECEPTION OF PACKET
·ERROR DETECTION PROCESS
S329
IS ERROR DETECTED?
S330
NO
YES
NOTIFICATION OF ARRIVAL ACKNOWLEDGMENT OF THE PACKET
S331
SELECTION OF PACKET TRANSMITTING BASE STATION
S332
NOTIFICATION OF REPEAT REQUEST OF THE PACKET
S333
RETRANSMISSION OF THE PACKET
S335
IS REPEAT REQUEST RECEIVED?
S334
YES
NO
NOTIFICATION OF DELETION OF THE PACKET COPY
S336
DELETION OF THE PACKET STORED
S338
END
DELETION OF THE PACKET STORED
S337
END

Fig.19A

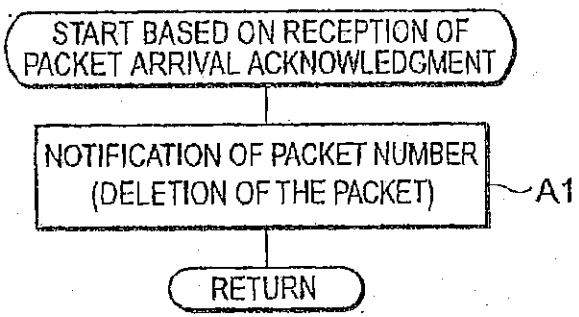


Fig.19B

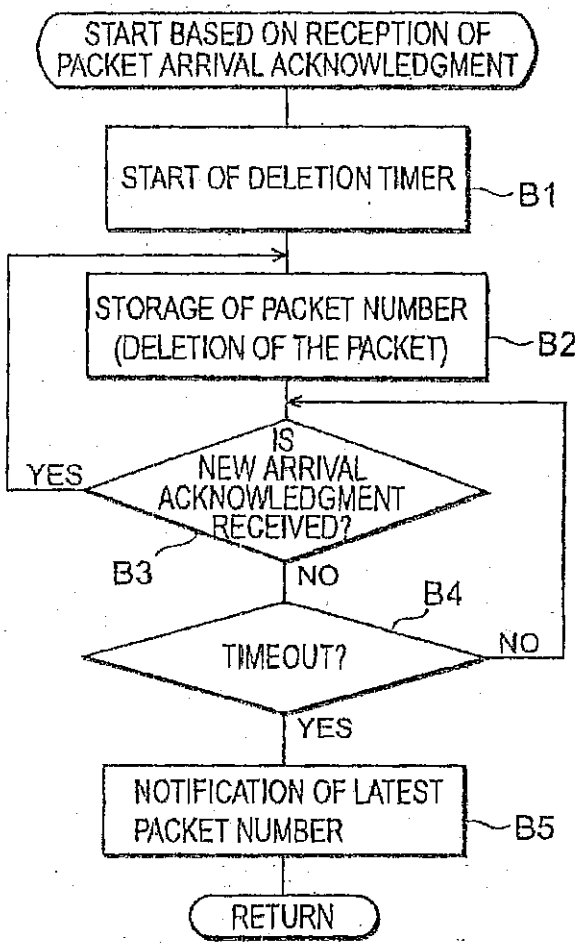


Fig.19C

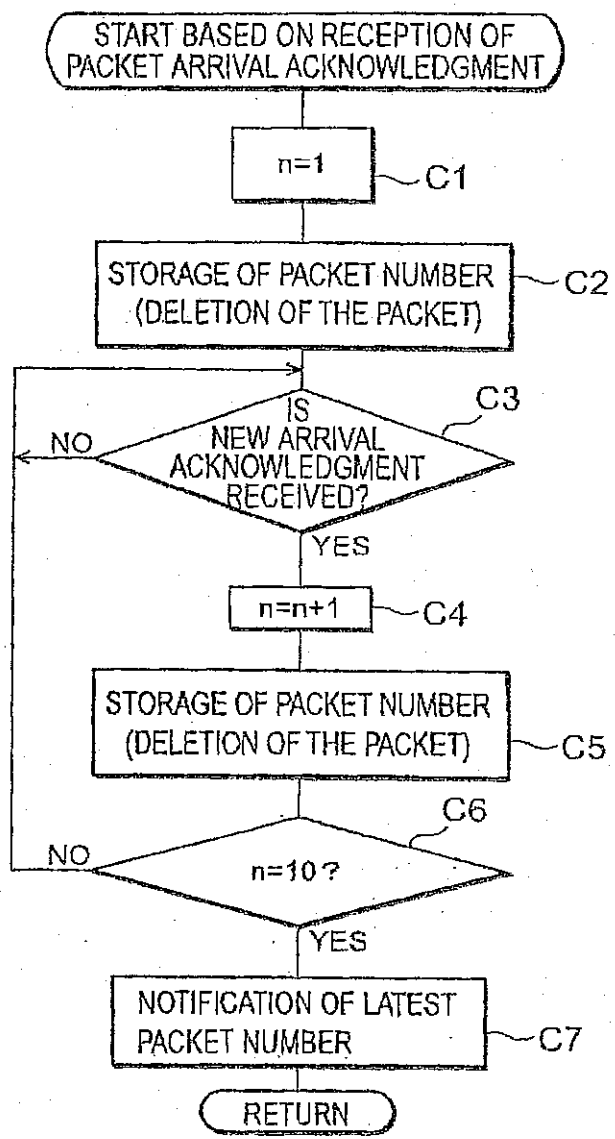


Fig. 20

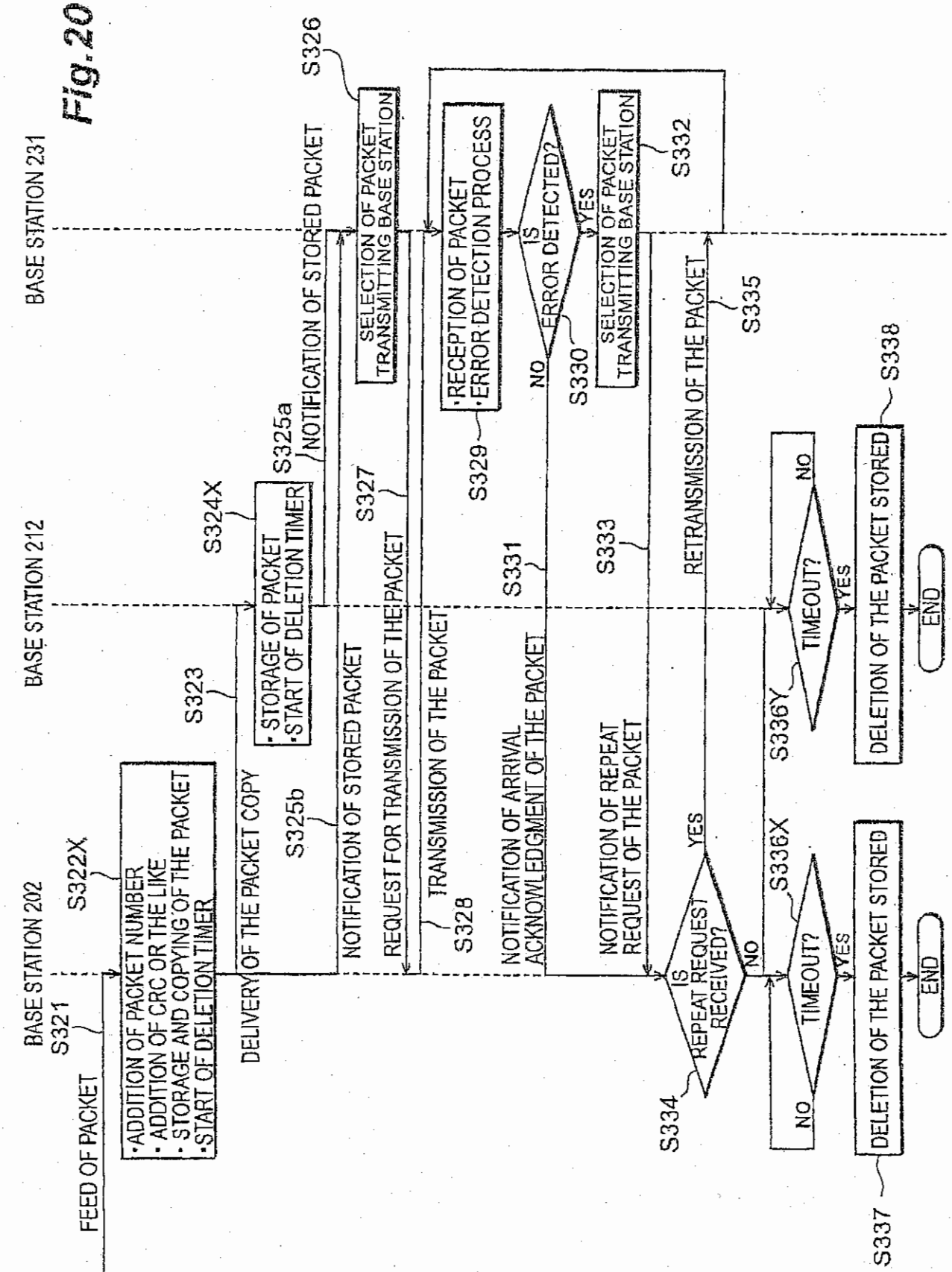

NETWORK 1
BASE STATION 202
BASE STATION 212
BASE STATION 231
START
FEED OF PACKET
S321
·ADDITION OF PACKET NUMBER
·ADDITION OF CRC OR THE LIKE
·STORAGE AND COPYING OF THE PACKET
·START OF DELETION TIMER
S322X
DELIVERY OF THE PACKET COPY
S323
·STORAGE OF PACKET
·START OF DELETION TIMER
S324X
NOTIFICATION OF STORED PACKET
S325a
NOTIFICATION OF STORED PACKET
S325b
SELECTION OF PACKET TRANSMITTING BASE STATION
S326
REQUEST FOR TRANSMISSION OF THE PACKET
S327
TRANSMISSION OF THE PACKET
S328
·RECEPTION OF PACKET
·ERROR DETECTION PROCESS
S329
IS ERROR DETECTED?
S330
NO
YES
NOTIFICATION OF ARRIVAL ACKNOWLEDGMENT OF THE PACKET
S331
SELECTION OF PACKET TRANSMITTING BASE STATION
S332
NOTIFICATION OF REPEAT REQUEST OF THE PACKET
S333
RETRANSMISSION OF THE PACKET
S335
IS REPEAT REQUEST RECEIVED?
S334
YES
NO
TIMEOUT?
S336X
NO
YES
TIMEOUT?
S336Y
NO
YES
DELETION OF THE PACKET STORED
S337
DELETION OF THE PACKET STORED
S338
END
END

Fig.21

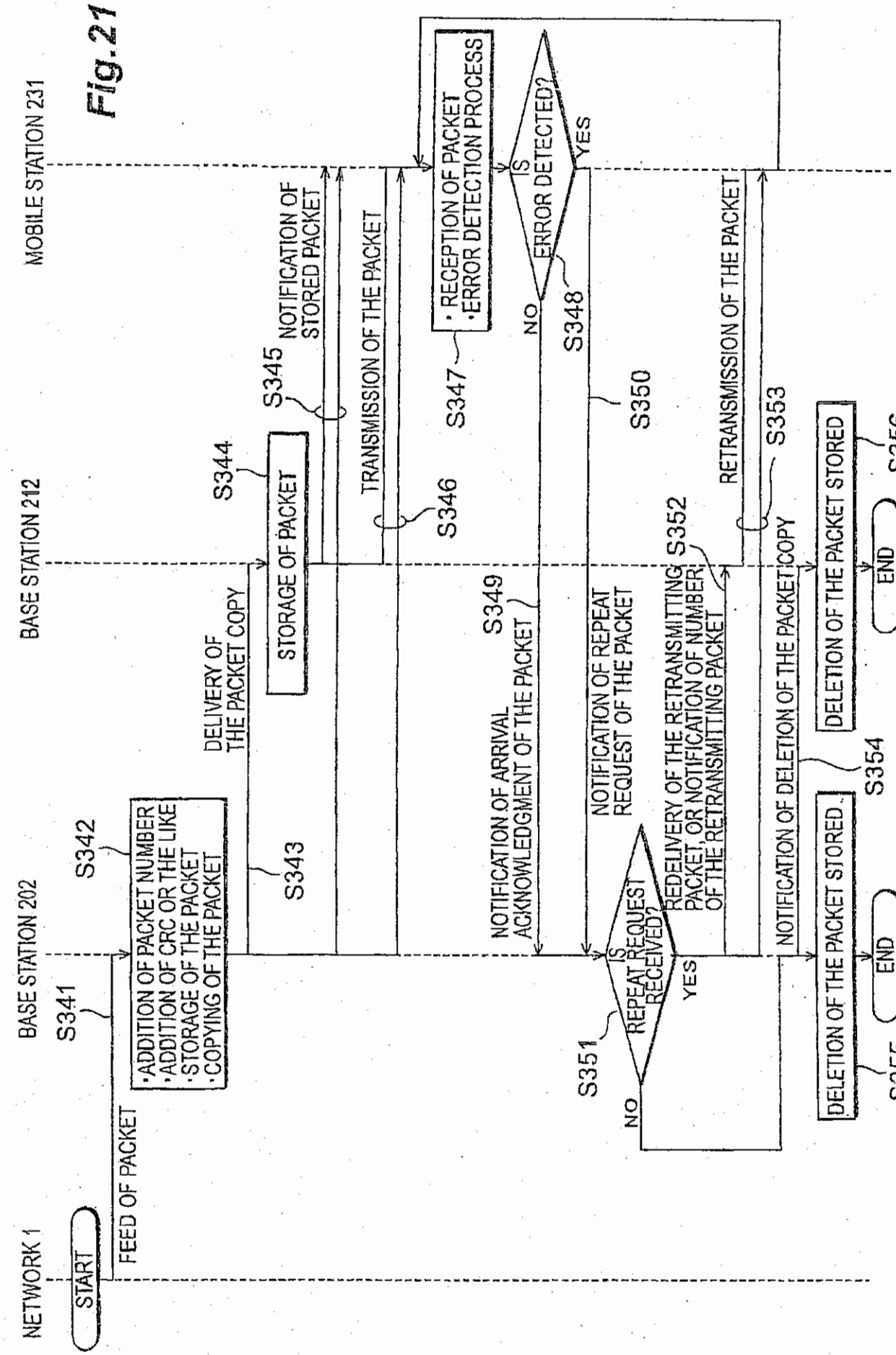

NETWORK 1
BASE STATION 202
BASE STATION 212
MOBILE STATION 231
START
FEED OF PACKET
S341
·ADDITION OF PACKET NUMBER
·ADDITION OF CRC OR THE LIKE
·STORAGE OF THE PACKET
·COPYING OF THE PACKET
S342
DELIVERY OF THE PACKET COPY
S343
STORAGE OF PACKET
S344
NOTIFICATION OF STORED PACKET
S345
TRANSMISSION OF THE PACKET
S346
· RECEPTION OF PACKET
·ERROR DETECTION PROCESS
S347
IS ERROR DETECTED?
YES
NO
S348
NOTIFICATION OF ARRIVAL ACKNOWLEDGMENT OF THE PACKET
S349
S350
NOTIFICATION OF REPEAT REQUEST OF THE PACKET
S351
IS REPEAT REQUEST RECEIVED?
YES
NO
REDELIVERY OF THE RETRANSMITTING PACKET, OR NOTIFICATION OF NUMBER OF THE RETRANSMITTING PACKET
S352
RETRANSMISSION OF THE PACKET
S353
NOTIFICATION OF DELETION OF THE PACKET COPY
S354
DELETION OF THE PACKET STORED
S355
END
DELETION OF THE PACKET STORED
S356
END

Fig.22

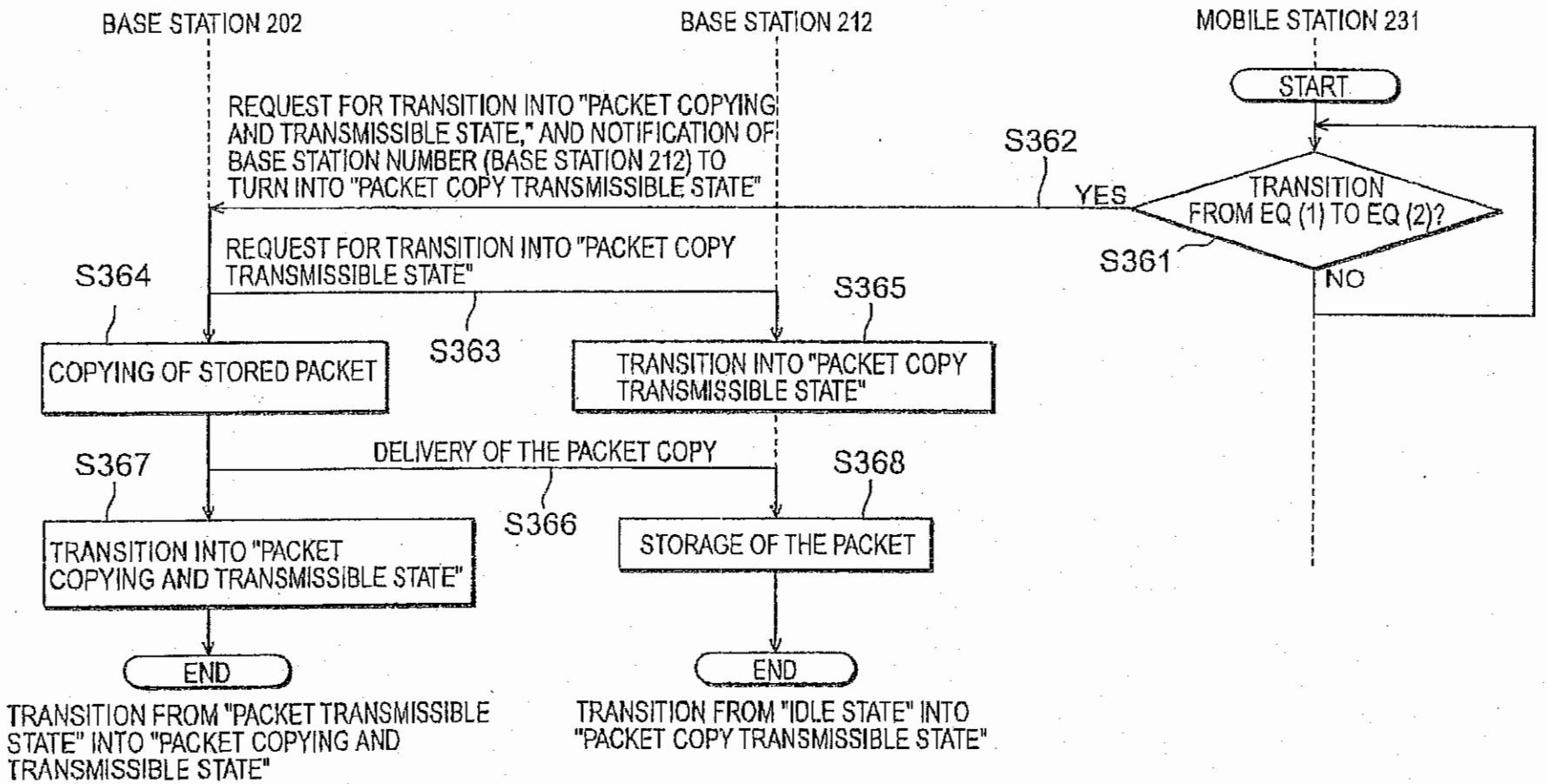

BASE STATION 202
BASE STATION 212
MOBILE STATION 231
START
REQUEST FOR TRANSITION INTO "PACKET COPYING AND TRANSMISSIBLE STATE," AND NOTIFICATION OF BASE STATION NUMBER (BASE STATION 212) TO TURN INTO "PACKET COPY TRANSMISSIBLE STATE"
S362
YES
TRANSITION FROM EQ (1) TO EQ (2)?
S361
NO
REQUEST FOR TRANSITION INTO "PACKET COPY TRANSMISSIBLE STATE"
S364
S363
S365
COPYING OF STORED PACKET
TRANSITION INTO "PACKET COPY TRANSMISSIBLE STATE"
DELIVERY OF THE PACKET COPY
S367
S366
S368
TRANSITION INTO "PACKET COPYING AND TRANSMISSIBLE STATE"
STORAGE OF THE PACKET
END
END
TRANSITION FROM "PACKET TRANSMISSIBLE STATE" INTO "PACKET COPYING AND TRANSMISSIBLE STATE"
TRANSITION FROM "IDLE STATE" INTO "PACKET COPY TRANSMISSIBLE STATE"

Fig.23

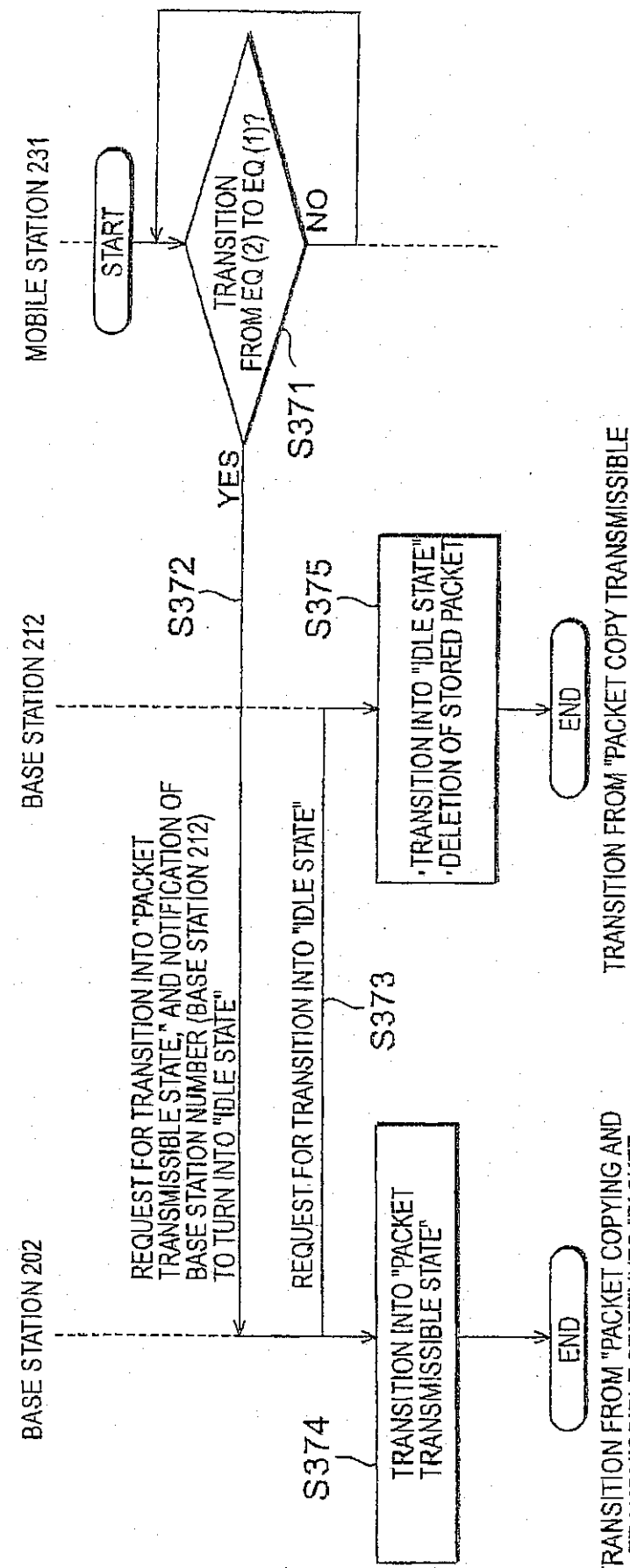
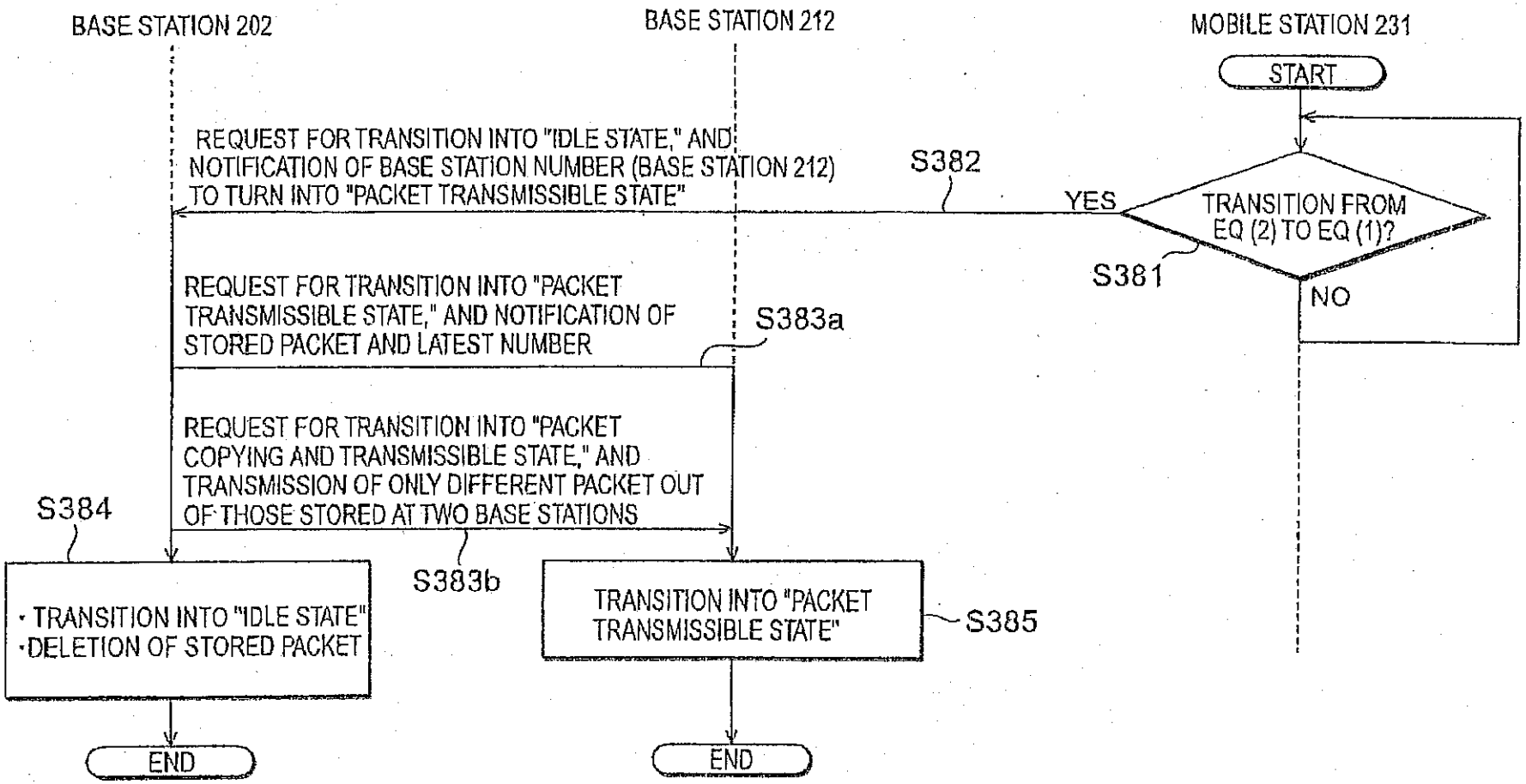

BASE STATION 202
BASE STATION 212
MOBILE STATION 231
START
TRANSITION FROM EQ (2) TO EQ (1)?
NO
YES
S371
S372
S373
S374
S375
REQUEST FOR TRANSITION INTO "PACKET TRANSMISSIBLE STATE," AND NOTIFICATION OF BASE STATION NUMBER (BASE STATION 212) TO TURN INTO "IDLE STATE"
REQUEST FOR TRANSITION INTO "IDLE STATE"
TRANSITION INTO "PACKET TRANSMISSIBLE STATE"
'TRANSITION INTO "IDLE STATE"
'DELETION OF STORED PACKET
END
END
TRANSITION FROM "PACKET COPYING AND TRANSMISSIBLE STATE" INTO "PACKET TRANSMISSIBLE STATE"
TRANSITION FROM "PACKET COPY TRANSMISSIBLE STATE" INTO "IDLE STATE"

Fig.24



TRANSITION FROM "PACKET COPYING AND TRANSMISSIBLE STATE" INTO "IDLE STATE"

TRANSITION FROM "PACKET COPY TRANSMISSIBLE STATE" INTO "PACKET TRANSMISSIBLE STATE"

Fig. 25

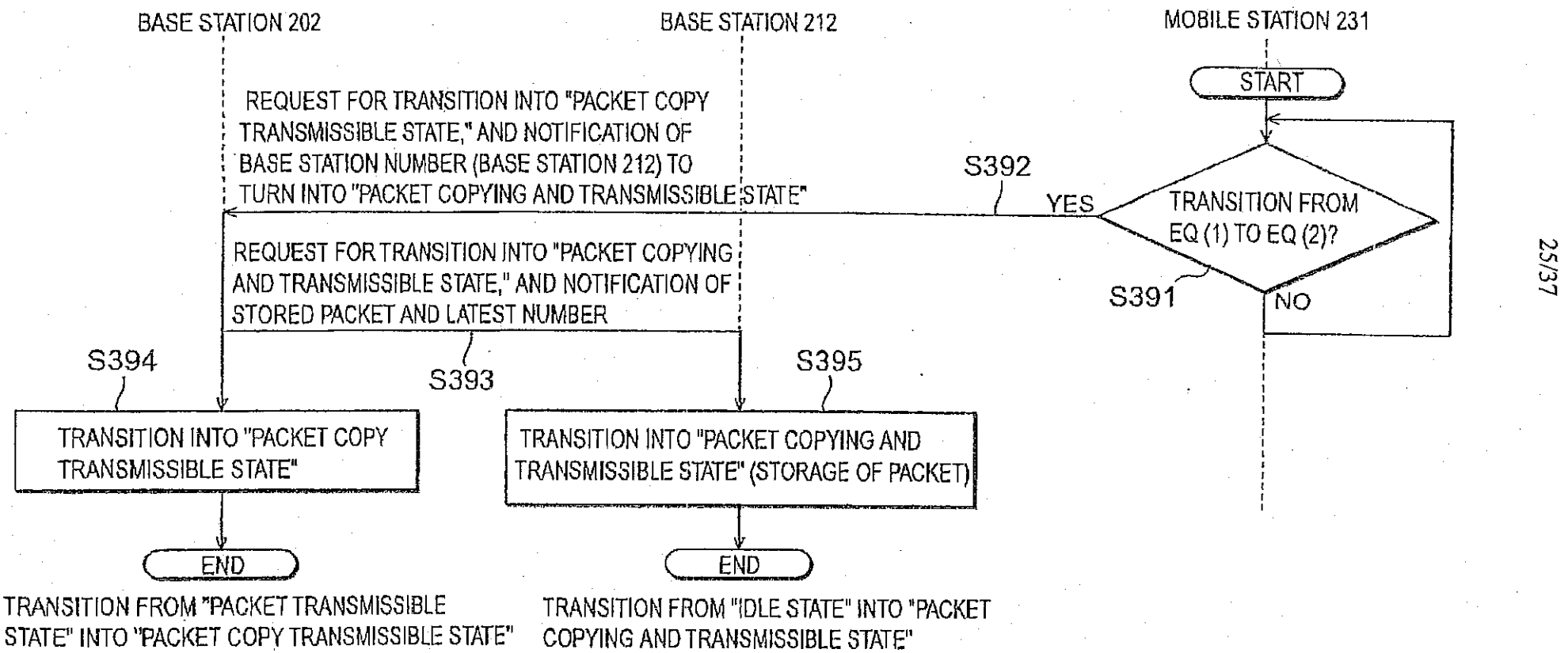

BASE STATION 202
BASE STATION 212
MOBILE STATION 231
START
REQUEST FOR TRANSITION INTO "PACKET COPY TRANSMISSIBLE STATE," AND NOTIFICATION OF BASE STATION NUMBER (BASE STATION 212) TO TURN INTO "PACKET COPYING AND TRANSMISSIBLE STATE"
S392
YES
TRANSITION FROM EQ (1) TO EQ (2)?
S391
NO
REQUEST FOR TRANSITION INTO "PACKET COPYING AND TRANSMISSIBLE STATE," AND NOTIFICATION OF STORED PACKET AND LATEST NUMBER
S393
S394
S395
TRANSITION INTO "PACKET COPY TRANSMISSIBLE STATE"
TRANSITION INTO "PACKET COPYING AND TRANSMISSIBLE STATE" (STORAGE OF PACKET)
END
END
TRANSITION FROM "PACKET TRANSMISSIBLE STATE" INTO "PACKET COPY TRANSMISSIBLE STATE"
TRANSITION FROM "IDLE STATE" INTO "PACKET COPYING AND TRANSMISSIBLE STATE"

Fig. 26

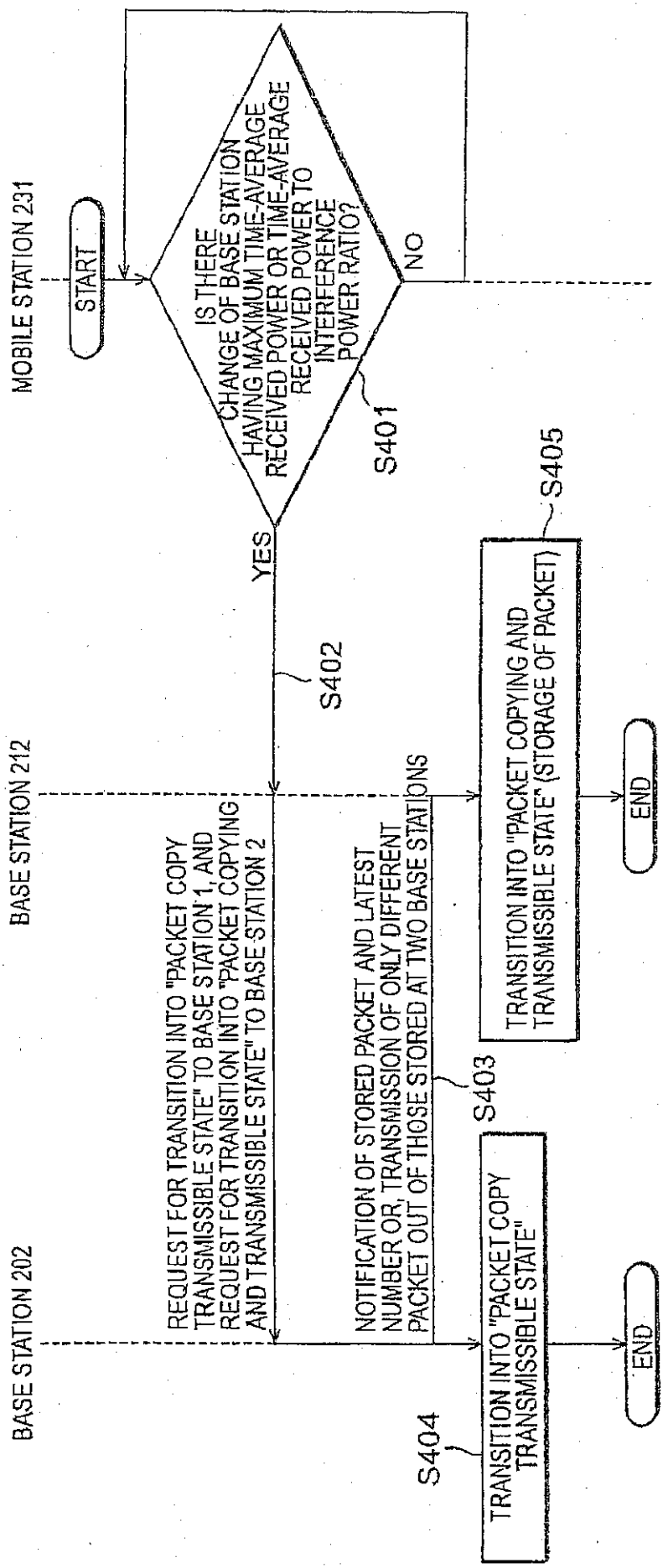

MOBILE STATION 231
BASE STATION 212
BASE STATION 202
START
IS THERE CHANGE OF BASE STATION HAVING MAXIMUM TIME-AVERAGE RECEIVED POWER OR TIME-AVERAGE RECEIVED POWER TO INTERFERENCE POWER RATIO?
S401
NO
YES
S402
REQUEST FOR TRANSITION INTO "PACKET COPY TRANSMISSIBLE STATE" TO BASE STATION 1, AND REQUEST FOR TRANSITION INTO "PACKET COPYING AND TRANSMISSIBLE STATE" TO BASE STATION 2
NOTIFICATION OF STORED PACKET AND LATEST NUMBER OR, TRANSMISSION OF ONLY DIFFERENT PACKET OUT OF THOSE STORED AT TWO BASE STATIONS
S403
S404
TRANSITION INTO "PACKET COPY TRANSMISSIBLE STATE"
TRANSITION INTO "PACKET COPYING AND TRANSMISSIBLE STATE" (STORAGE OF PACKET)
S405
END
END

Fig.27

NUMBER OF PACKET FED TO PACKET COPYING AND TRANSMISSIBLE BASE STATION	$S_i(j)$			ADDED IDENTIFIERS		
	FIRST BASE STATION (PACKET COPYING AND TRANSMISSIBLE BASE STATION)	SECOND BASE STATION (PACKET COPY TRANSMISSIBLE BASE STATION)	THIRD BASE STATION (PACKET COPY TRANSMISSIBLE BASE STATION)	FIRST BASE STATION (PACKET COPYING AND TRANSMISSIBLE BASE STATION)	SECOND BASE STATION (PACKET COPY TRANSMISSIBLE BASE STATION)	THIRD BASE STATION (PACKET COPY TRANSMISSIBLE BASE STATION)
K	$S_1(1)=\frac{1}{6}\times 1=\frac{1}{6}$	$S_2(0)=\frac{2}{6}\times 0=0$	$S_3(0)=\frac{3}{6}\times 0=0$	1	0	0
K+1	$S_1(1)=\frac{1}{6}\times 1=\frac{1}{6}$	$S_2(1)=\frac{2}{6}\times 1=\frac{2}{6}$	$S_3(0)=\frac{3}{6}\times 0=0$	0	1	0
K+2	$S_1(1)=\frac{1}{6}\times 1=\frac{1}{6}$	$S_2(1)=\frac{2}{6}\times 1=\frac{2}{6}$	$S_3(1)=\frac{3}{6}\times 1=\frac{3}{6}$	0	0	1
K+3	$S_1(2)=\frac{1}{6}\times 2=\frac{2}{6}$	$S_2(1)=\frac{2}{6}\times 1=\frac{2}{6}$	$S_3(1)=\frac{3}{6}\times 1=\frac{3}{6}$	1	0	0
K+4	$S_1(3)=\frac{1}{6}\times 3=\frac{3}{6}$	$S_2(1)=\frac{2}{6}\times 1=\frac{2}{6}$	$S_3(1)=\frac{3}{6}\times 1=\frac{3}{6}$	1	0	0
K+5	$S_1(3)=\frac{1}{6}\times 3=\frac{3}{6}$	$S_2(2)=\frac{2}{6}\times 2=\frac{4}{6}$	$S_3(1)=\frac{3}{6}\times 1=\frac{3}{6}$	0	1	0
K+6	$S_1(4)=\frac{1}{6}\times 4=\frac{4}{6}$	$S_2(2)=\frac{2}{6}\times 2=\frac{4}{6}$	$S_3(1)=\frac{3}{6}\times 1=\frac{3}{6}$	1	0	0
K+7	$S_1(4)=\frac{1}{6}\times 4=\frac{4}{6}$	$S_2(2)=\frac{2}{6}\times 2=\frac{4}{6}$	$S_3(2)=\frac{3}{6}\times 2=\frac{6}{6}$	0	0	1
K+8	$S_1(5)=\frac{1}{6}\times 5=\frac{5}{6}$	$S_2(2)=\frac{2}{6}\times 2=\frac{4}{6}$	$S_3(2)=\frac{3}{6}\times 2=\frac{6}{6}$	1	0	0
K+9	$S_1(5)=\frac{1}{6}\times 5=\frac{5}{6}$	$S_2(3)=\frac{2}{6}\times 3=\frac{6}{6}$	$S_3(2)=\frac{3}{6}\times 2=\frac{6}{6}$	0	1	0
K+10	$S_1(6)=\frac{1}{6}\times 6=\frac{6}{6}$	$S_2(3)=\frac{2}{6}\times 3=\frac{6}{6}$	$S_3(2)=\frac{3}{6}\times 2=\frac{6}{6}$	1	0	0

Fig. 28

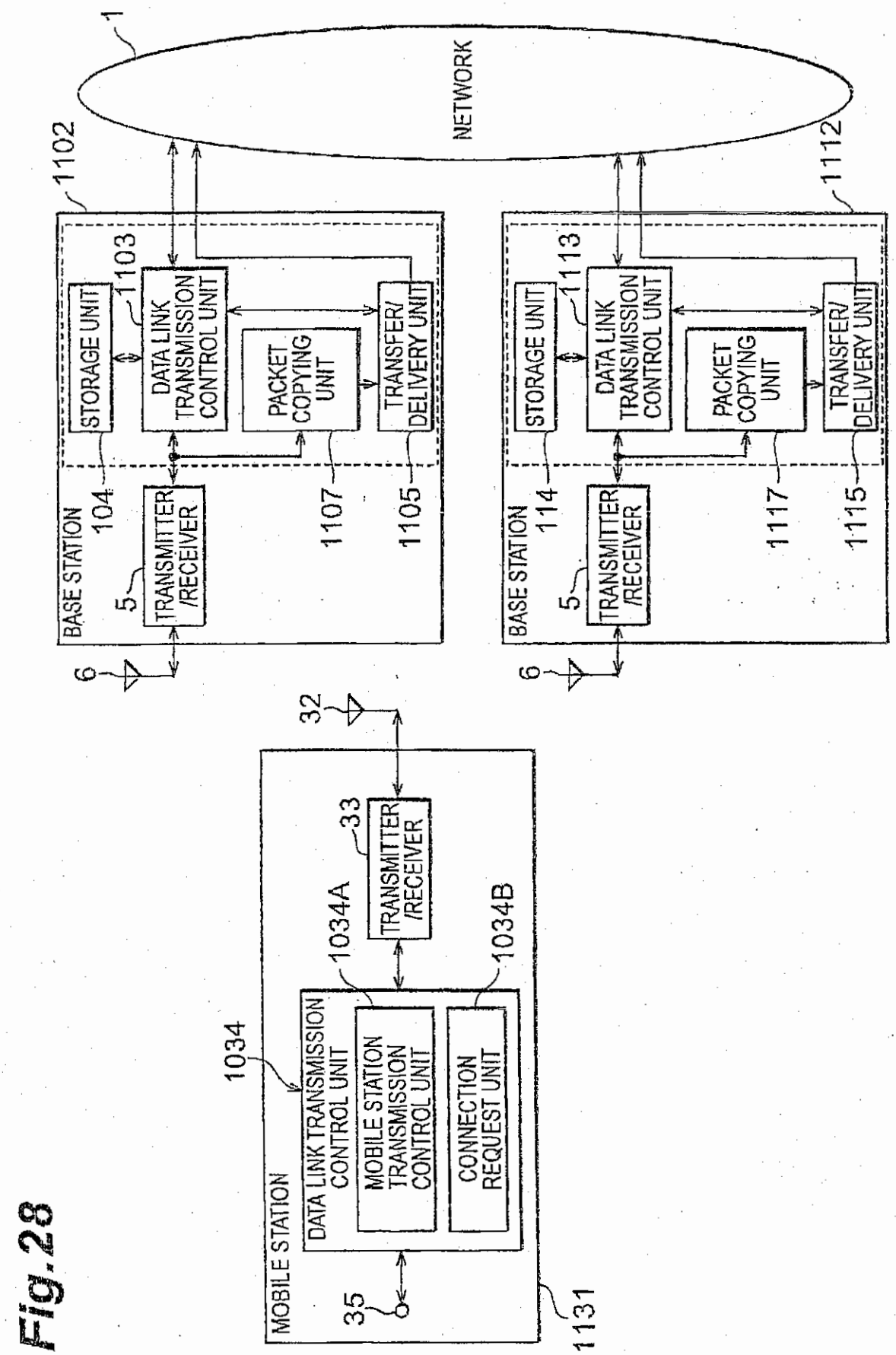

NETWORK
1
1102
1112
BASE STATION
104
114
STORAGE UNIT
1103
1113
DATA LINK TRANSMISSION CONTROL UNIT
PACKET COPYING UNIT
1107
1117
TRANSFER/ DELIVERY UNIT
1105
1115
TRANSMITTER /RECEIVER
5
6
32
33
MOBILE STATION
1034
DATA LINK TRANSMISSION CONTROL UNIT
1034A
MOBILE STATION TRANSMISSION CONTROL UNIT
CONNECTION REQUEST UNIT
1034B
35
1131

Fig.29

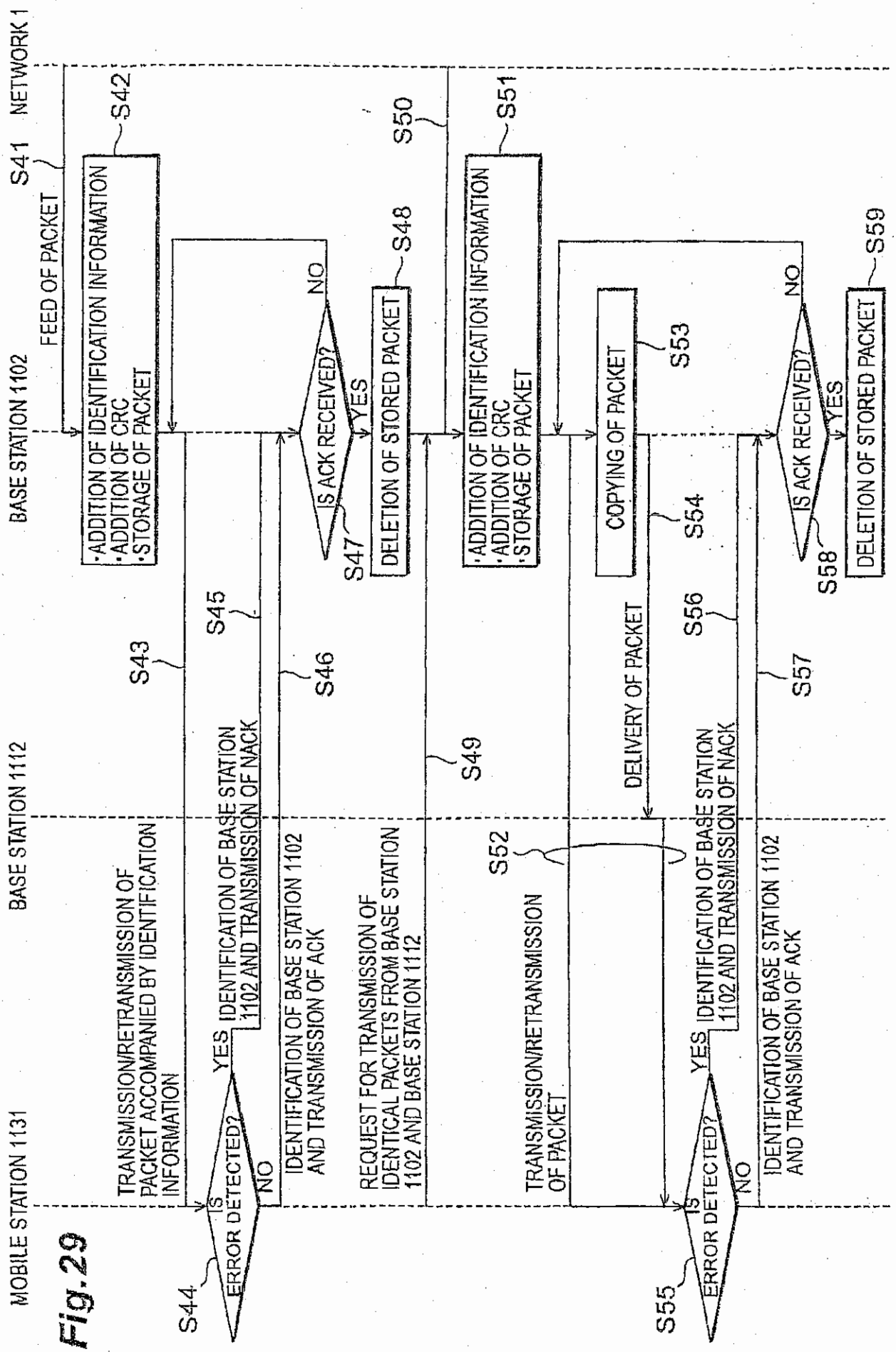

MOBILE STATION 1131
BASE STATION 1112
BASE STATION 1102
NETWORK 1
S41
FEED OF PACKET
S42
·ADDITION OF IDENTIFICATION INFORMATION
·ADDITION OF CRC
·STORAGE OF PACKET
S43
TRANSMISSION/RETRANSMISSION OF PACKET ACCOMPANIED BY IDENTIFICATION INFORMATION
S44
IS ERROR DETECTED?
YES
NO
S45
IDENTIFICATION OF BASE STATION 1102 AND TRANSMISSION OF NACK
S46
IDENTIFICATION OF BASE STATION 1102 AND TRANSMISSION OF ACK
S47
IS ACK RECEIVED?
NO
YES
S48
DELETION OF STORED PACKET
S49
REQUEST FOR TRANSMISSION OF IDENTICAL PACKETS FROM BASE STATION 1102 AND BASE STATION 1112
S50
S51
·ADDITION OF IDENTIFICATION INFORMATION
·ADDITION OF CRC
·STORAGE OF PACKET
S52
TRANSMISSION/RETRANSMISSION OF PACKET
DELIVERY OF PACKET
S53
COPYING OF PACKET
S54
S55
IS ERROR DETECTED?
YES
NO
S56
IDENTIFICATION OF BASE STATION 1102 AND TRANSMISSION OF NACK
S57
IDENTIFICATION OF BASE STATION 1102 AND TRANSMISSION OF ACK
S58
IS ACK RECEIVED?
NO
YES
S59
DELETION OF STORED PACKET

Fig.30

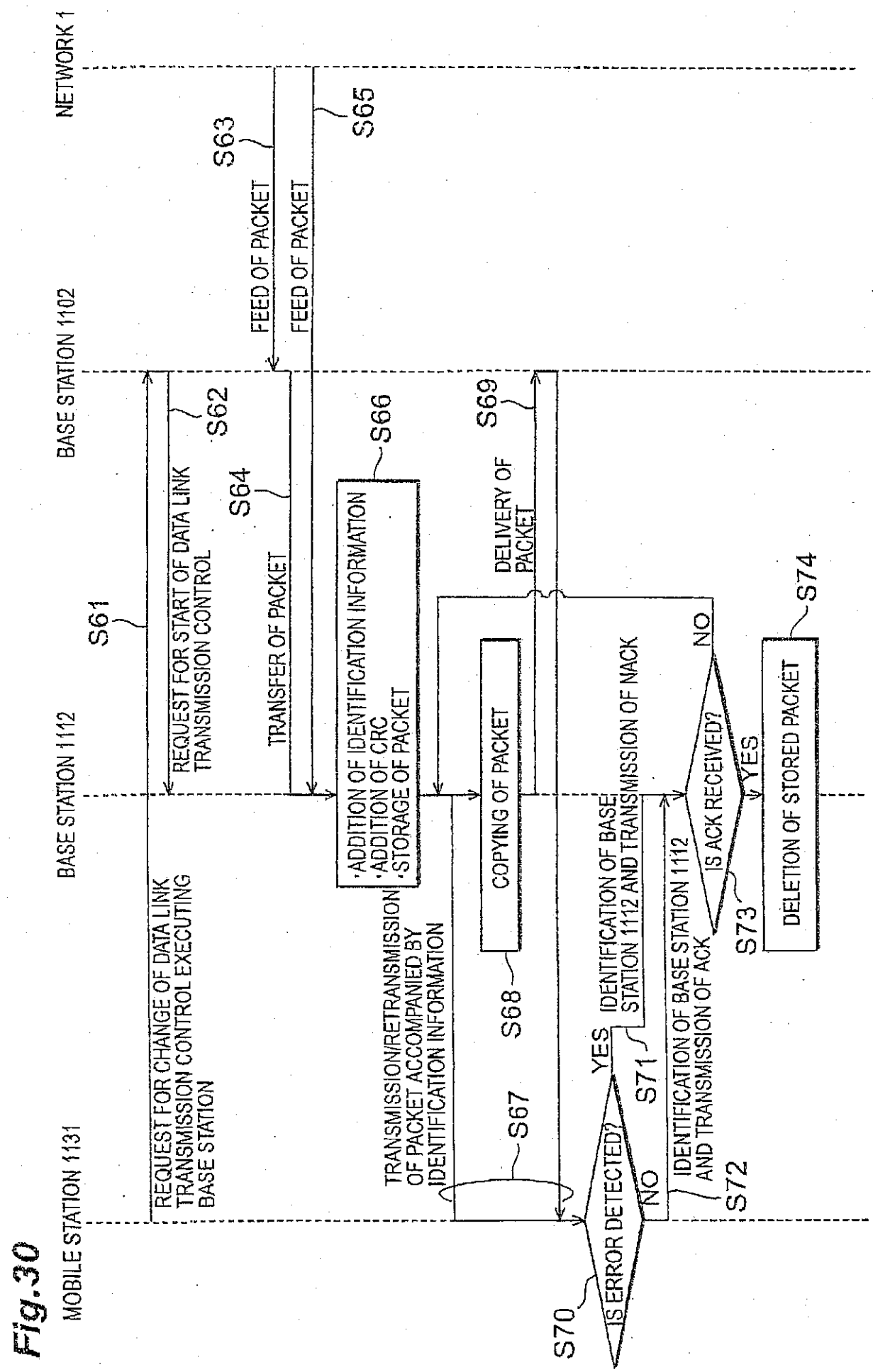

MOBILE STATION 1131
BASE STATION 1112
BASE STATION 1102
NETWORK 1
S61
REQUEST FOR CHANGE OF DATA LINK
TRANSMISSION CONTROL EXECUTING
BASE STATION
REQUEST FOR START OF DATA LINK
TRANSMISSION CONTROL
S62
S63
FEED OF PACKET
S64
TRANSFER OF PACKET
FEED OF PACKET
S65
·ADDITION OF IDENTIFICATION INFORMATION
·ADDITION OF CRC
·STORAGE OF PACKET
S66
TRANSMISSION/RETRANSMISSION
OF PACKET ACCOMPANIED BY
IDENTIFICATION INFORMATION
S67
COPYING OF PACKET
S68
DELIVERY OF
PACKET
S69
S70
IS ERROR DETECTED?
YES
NO
IDENTIFICATION OF BASE
STATION 1112 AND TRANSMISSION OF NACK
S71
IDENTIFICATION OF BASE STATION 1112
AND TRANSMISSION OF ACK
S72
IS ACK RECEIVED?
NO
YES
S73
DELETION OF STORED PACKET
S74

Fig.31

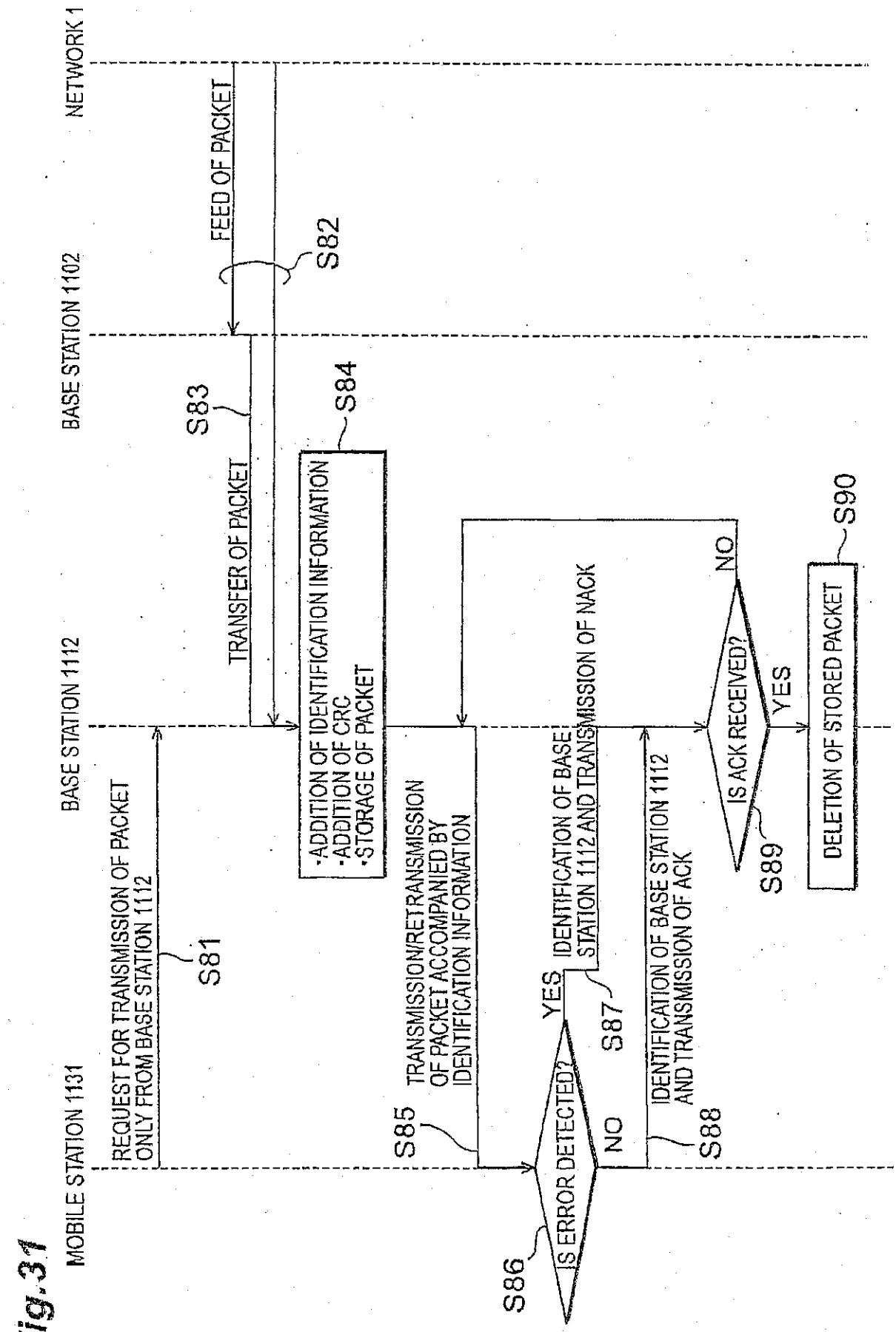

MOBILE STATION 1131
BASE STATION 1112
BASE STATION 1102
NETWORK 1
REQUEST FOR TRANSMISSION OF PACKET ONLY FROM BASE STATION 1112
S81
FEED OF PACKET
S82
TRANSFER OF PACKET
S83
·ADDITION OF IDENTIFICATION INFORMATION
·ADDITION OF CRC
·STORAGE OF PACKET
S84
TRANSMISSION/RETRANSMISSION OF PACKET ACCOMPANIED BY IDENTIFICATION INFORMATION
S85
IS ERROR DETECTED?
S86
YES
IDENTIFICATION OF BASE STATION 1112 AND TRANSMISSION OF ACK
S87
NO
IDENTIFICATION OF BASE STATION 1112 AND TRANSMISSION OF NACK
S88
IS ACK RECEIVED?
S89
NO
YES
DELETION OF STORED PACKET
S90

Fig.32

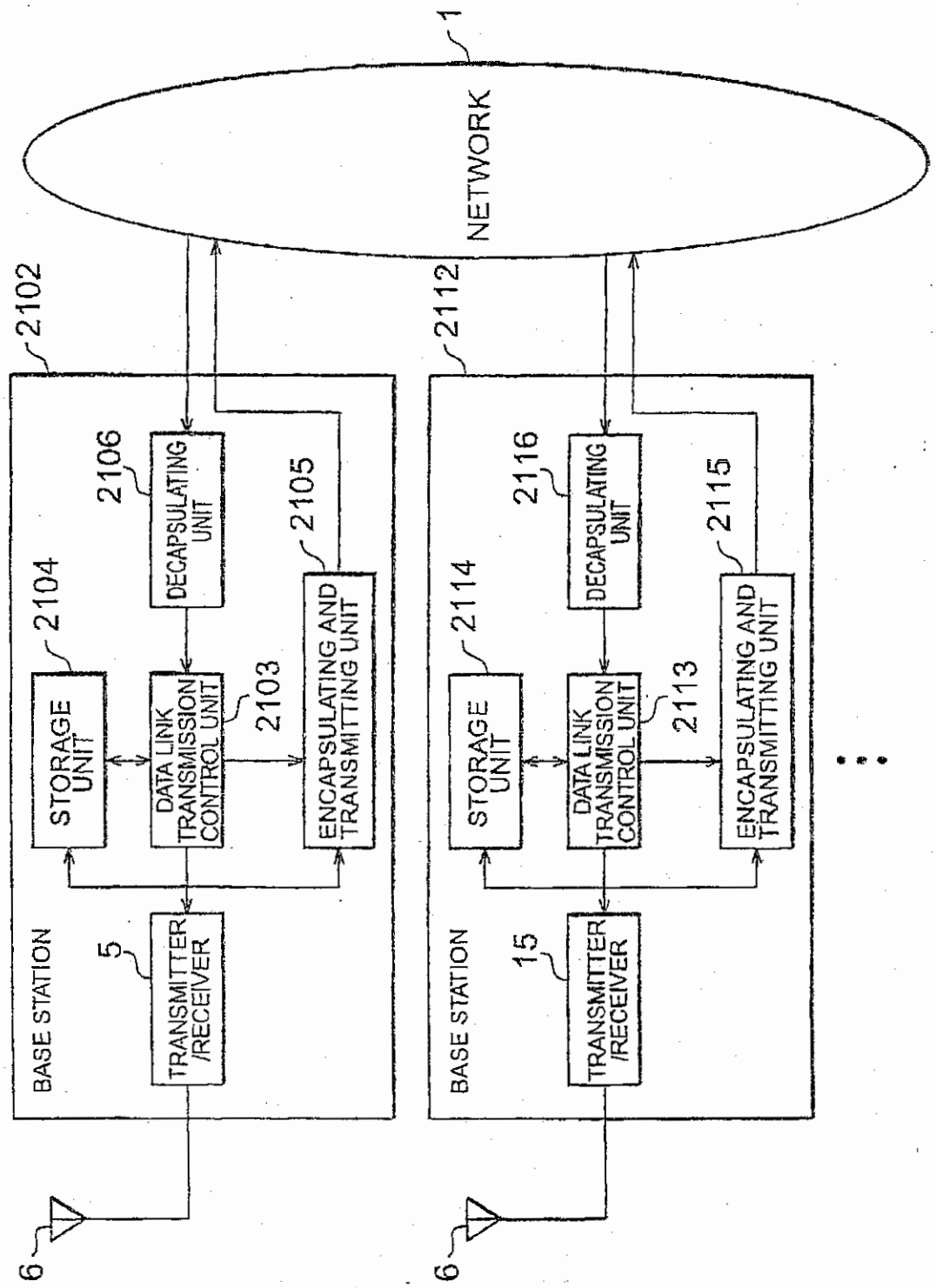

1
NETWORK
2102
2112
BASE STATION
BASE STATION
STORAGE UNIT
DATA LINK TRANSMISSION CONTROL UNIT
DECAPSULATING UNIT
ENCAPSULATING AND TRANSMITTING UNIT
TRANSMITTER /RECEIVER
2103
2104
2105
2106
2113
2114
2115
2116
5
15
6
16

Fig.33A

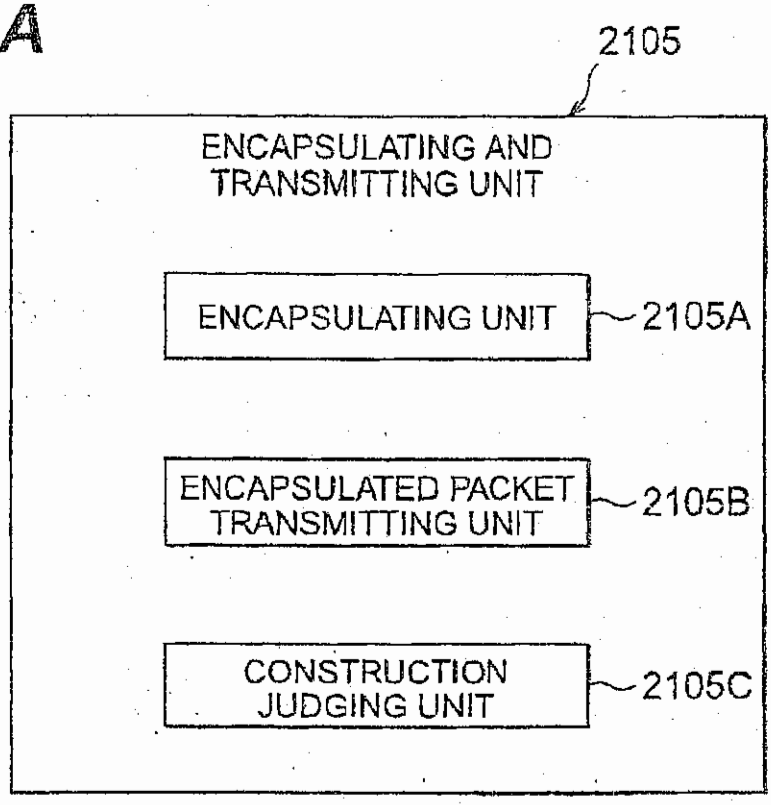


Fig.33B

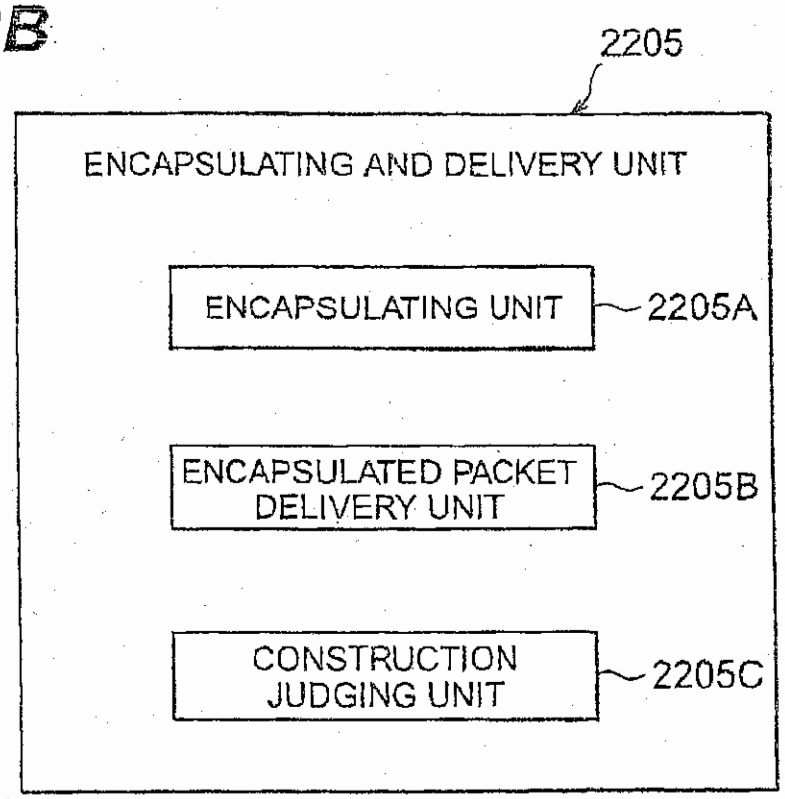
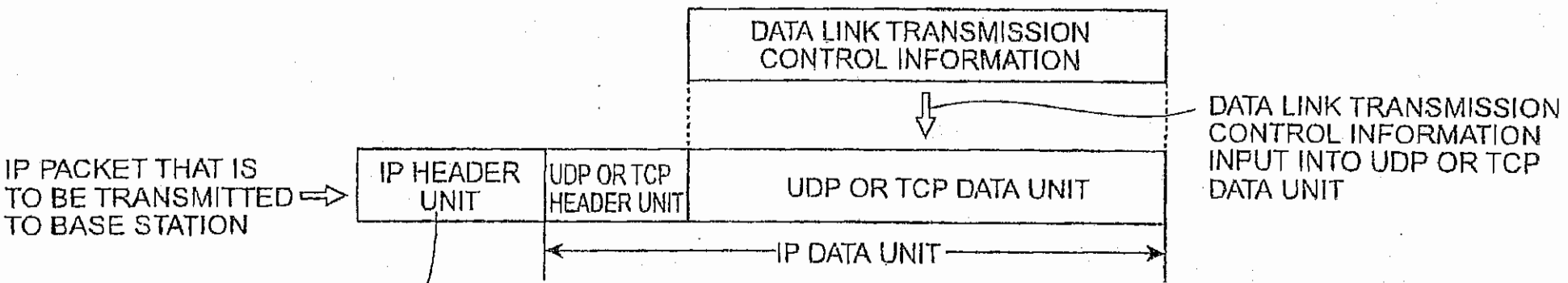
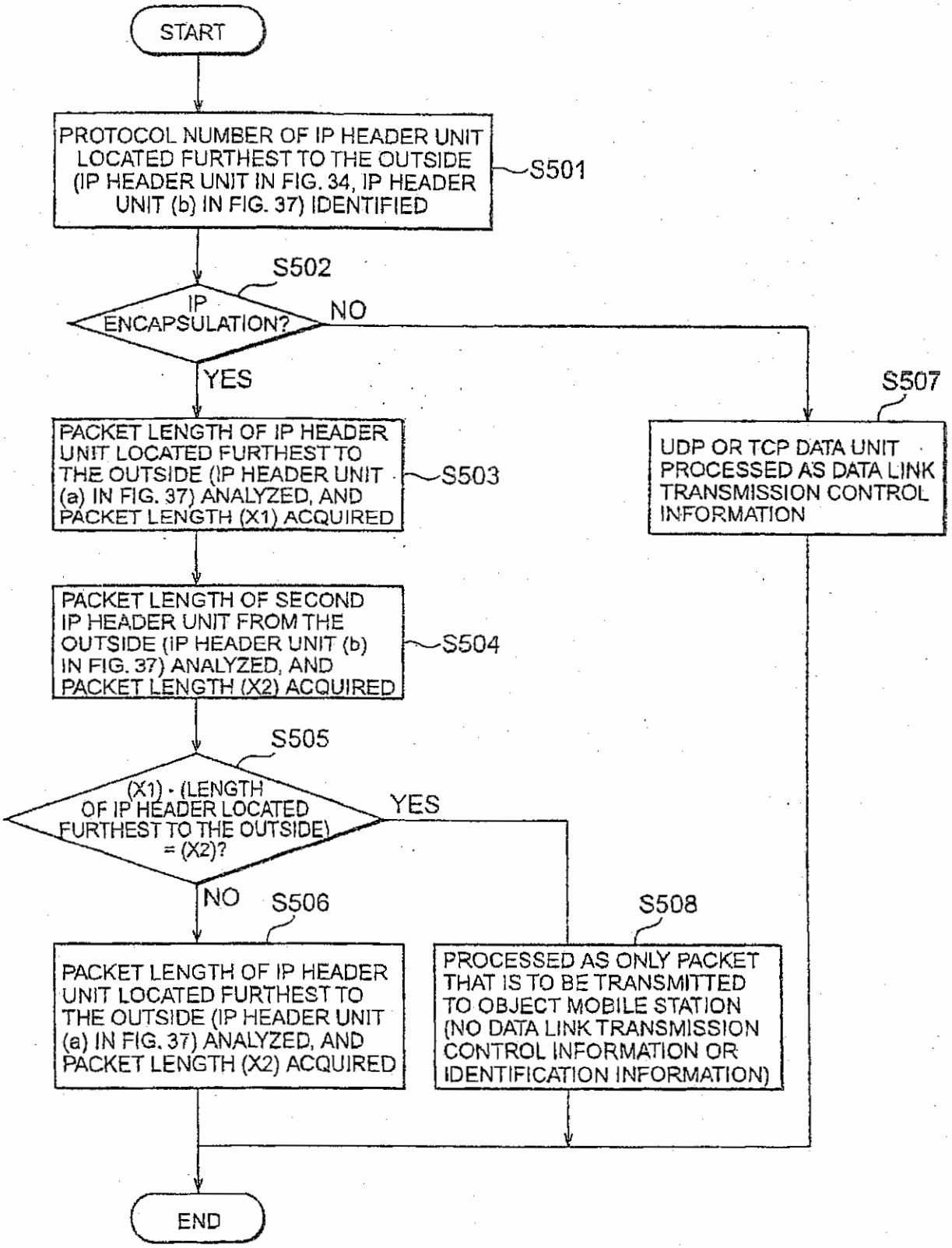


Fig.34



ITEM	CONTENT
ORIGINATING IP ADDRESS	IP ADDRESS OF BASE STATION 2102 SET
DESTINATION IP ADDRESS	IP ADDRESS OF BASE STATION 2112 SET
PROTOCOL NUMBER	NUMBER EXPRESSING UDP OR TCP SET
PACKET LENGTH	TOTAL VALUE OF LENGTHS OF IP HEADER UNIT AND IP DATA UNIT SE

Fig.35


START
PROTOCOL NUMBER OF IP HEADER UNIT LOCATED FURTHEST TO THE OUTSIDE (IP HEADER UNIT IN FIG. 34, IP HEADER UNIT (b) IN FIG. 37) IDENTIFIED
S501
S502
IP ENCAPSULATION?
NO
YES
S507
PACKET LENGTH OF IP HEADER UNIT LOCATED FURTHEST TO THE OUTSIDE (IP HEADER UNIT (a) IN FIG. 37) ANALYZED, AND PACKET LENGTH (X1) ACQUIRED
S503
UDP OR TCP DATA UNIT PROCESSED AS DATA LINK TRANSMISSION CONTROL INFORMATION
PACKET LENGTH OF SECOND IP HEADER UNIT FROM THE OUTSIDE (IP HEADER UNIT (b) IN FIG. 37) ANALYZED, AND PACKET LENGTH (X2) ACQUIRED
S504
S505
(X1) - (LENGTH OF IP HEADER LOCATED FURTHEST TO THE OUTSIDE) = (X2)?
YES
NO
S506
S508
PACKET LENGTH OF IP HEADER UNIT LOCATED FURTHEST TO THE OUTSIDE (IP HEADER UNIT (a) IN FIG. 37) ANALYZED, AND PACKET LENGTH (X2) ACQUIRED
PROCESSED AS ONLY PACKET THAT IS TO BE TRANSMITTED TO OBJECT MOBILE STATION (NO DATA LINK TRANSMISSION CONTROL INFORMATION OR IDENTIFICATION INFORMATION)
END

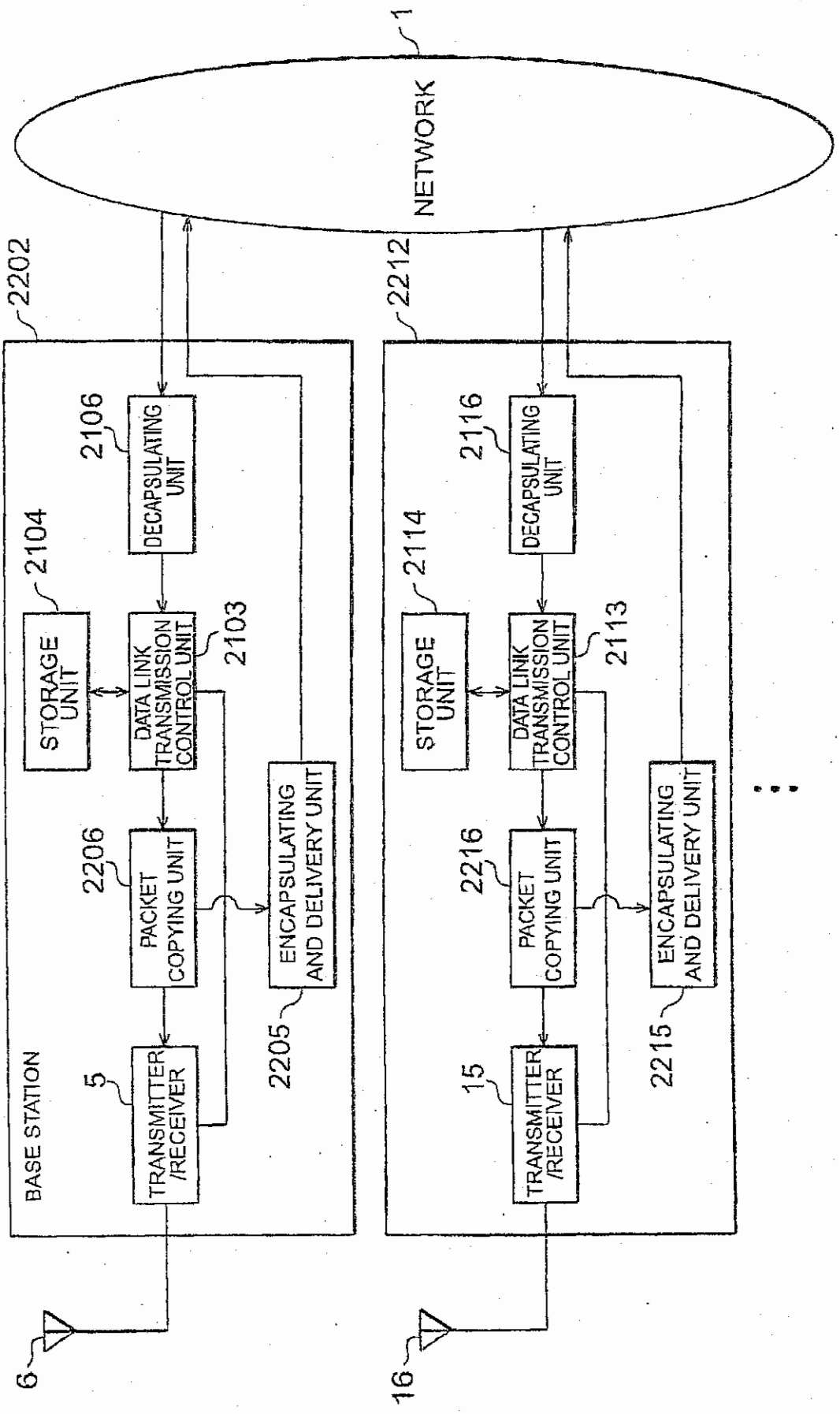
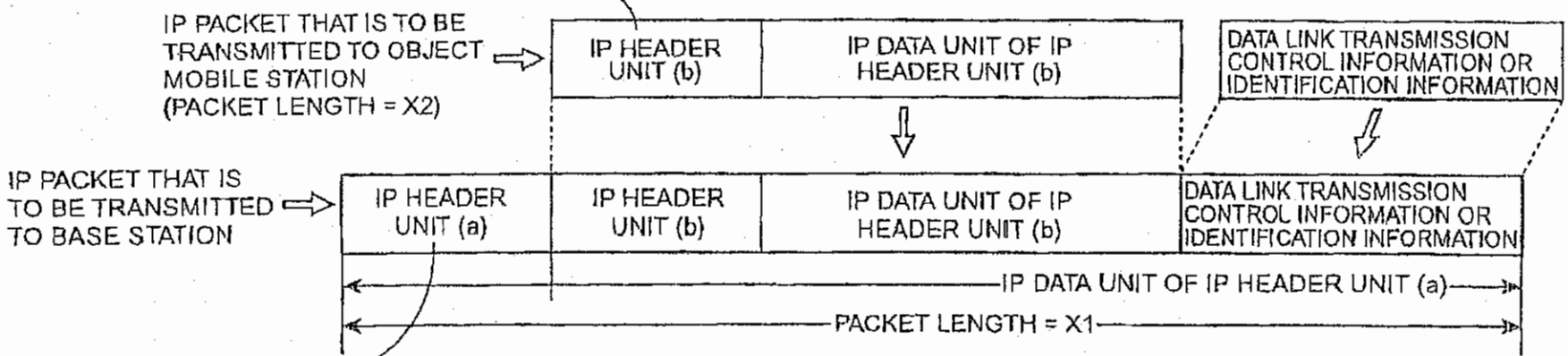

NETWORK
1
BASE STATION
2202
2212
2104
2114
STORAGE UNIT
2106
2116
DECAPSULATING UNIT
2103
2113
DATA LINK TRANSMISSION CONTROL UNIT
2206
2216
PACKET COPYING UNIT
2205
2215
ENCAPSULATING AND DELIVERY UNIT
5
15
TRANSMITTER /RECEIVER
6
16

Fig.36

Fig.37

THE VALUES (CONTENTS) ARE ALREADY SEAT
AT THE TRANSMISSION ORIGIN OF THE PACKETS

ITEM	CONTENT
ORIGINATING IP ADDRESS	ORIGINATING IP ADDRESS OF IP PACKET SET
DESTINATION IP ADDRESS	IP ADDRESS OF OBJECT MOBILE STATION SET
PROTOCOL NUMBER	SPECIFIED NUMBER SET
PACKET LENGTH	TOTAL VALUE (X2) OF LENGTHS OF IP HEADER UNIT (b) AND IP DATA SET



ITEM	CONTENT
ORIGINATING IP ADDRESS	IP ADDRESS OF BASE STATION 2102 SET
DESTINATION IP ADDRESS	IP ADDRESS OF BASE STATION 2112 SET
PROTOCOL NUMBER	NUMBER EXPRESSING IP ENCAPSULATION SET
PACKET LENGTH	TOTAL VALUE (X1) OF LENGTHS OF IP HEADER UNIT (a) AND DATA UNIT OF IP HEADER UNIT (a) (IP PACKET THAT IS TO BE TRANSMITTED, AND DATA LINK TRANSMISSION CONTROL INFORMATION OR IDENTIFICATION INFORMATION) SET