FIG.1

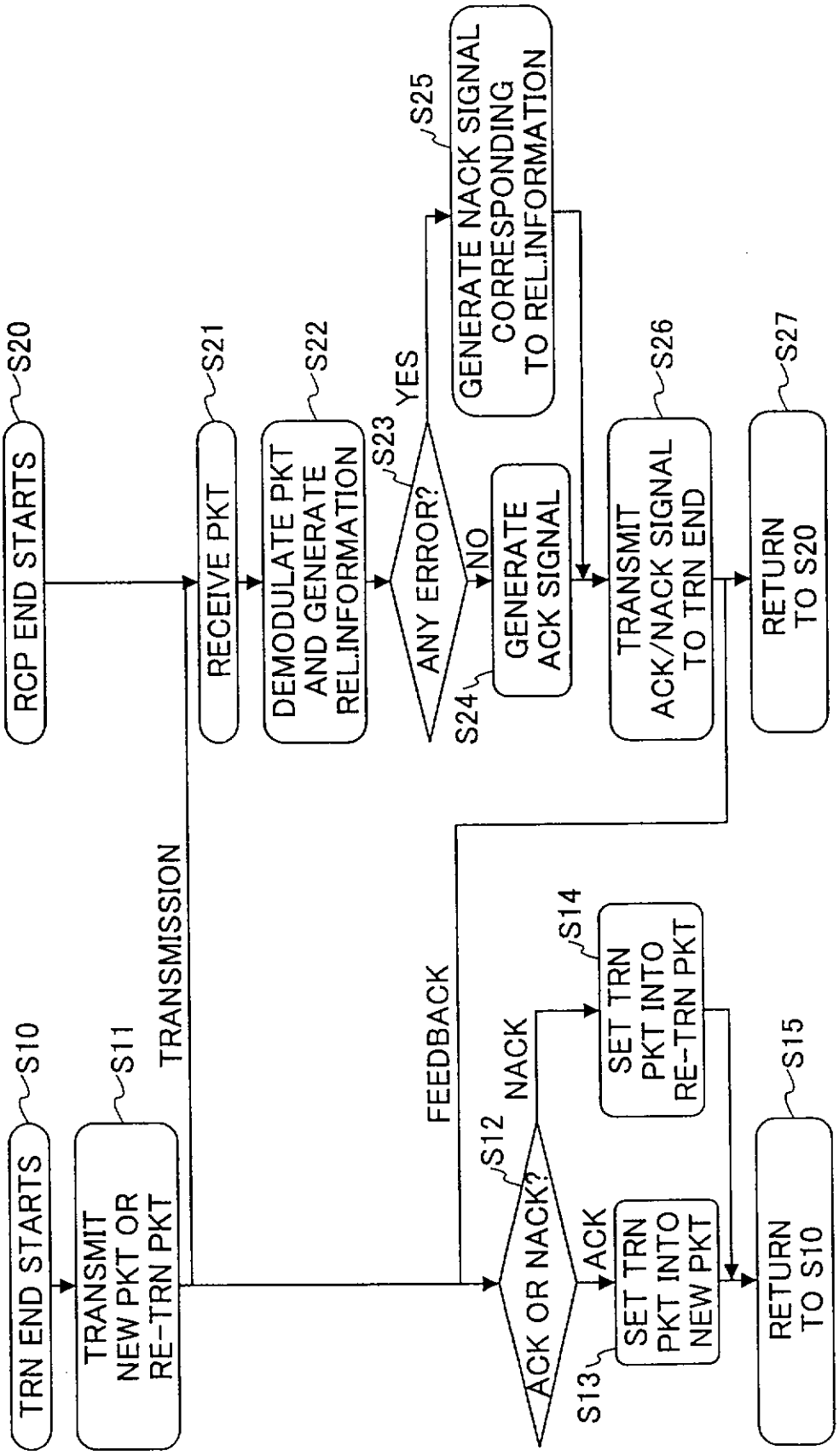

TRN END STARTS
S10
TRANSMIT NEW PKT OR RE-TRN PKT
S11
TRANSMISSION
RCP END STARTS
S20
RECEIVE PKT
S21
DEMODULATE PKT AND GENERATE REL.INFORMATION
S22
ANY ERROR?
S23
YES
NO
GENERATE NACK SIGNAL CORRESPONDING TO REL.INFORMATION
S25
GENERATE ACK SIGNAL
S24
FEEDBACK
ACK OR NACK?
S12
NACK
ACK
SET TRN PKT INTO RE-TRN PKT
S14
SET TRN PKT INTO NEW PKT
S13
TRANSMIT ACK/NACK SIGNAL TO TRN END
S26
RETURN TO S20
S27
RETURN TO S10
S15

FIG.2

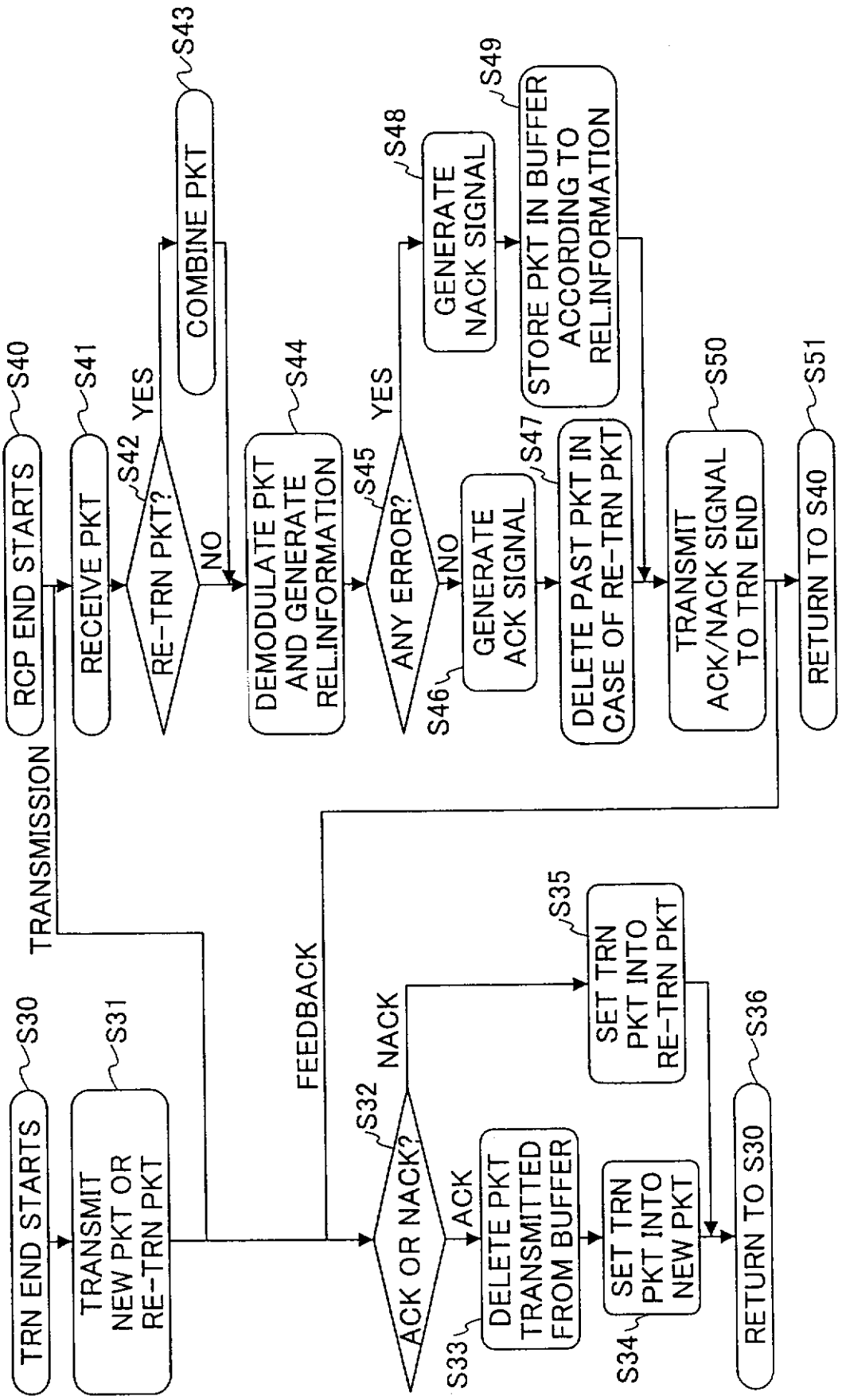

TRN END STARTS
S30
TRANSMIT NEW PKT OR RE-TRN PKT
S31
TRANSMISSION
RCP END STARTS
S40
RECEIVE PKT
S41
RE-TRN PKT?
S42
YES
COMBINE PKT
S43
NO
DEMODULATE PKT AND GENERATE REL.INFORMATION
S44
ANY ERROR?
S45
YES
GENERATE NACK SIGNAL
S48
STORE PKT IN BUFFER ACCORDING TO REL.INFORMATION
S49
NO
GENERATE ACK SIGNAL
S46
S47
DELETE PAST PKT IN CASE OF RE-TRN PKT
TRANSMIT ACK/NACK SIGNAL TO TRN END
S50
RETURN TO S40
S51
FEEDBACK
ACK OR NACK?
S32
NACK
ACK
SET TRN PKT INTO RE-TRN PKT
S35
DELETE PKT TRANSMITTED FROM BUFFER
S33
SET TRN PKT INTO NEW PKT
S34
RETURN TO S30
S36

FIG.3

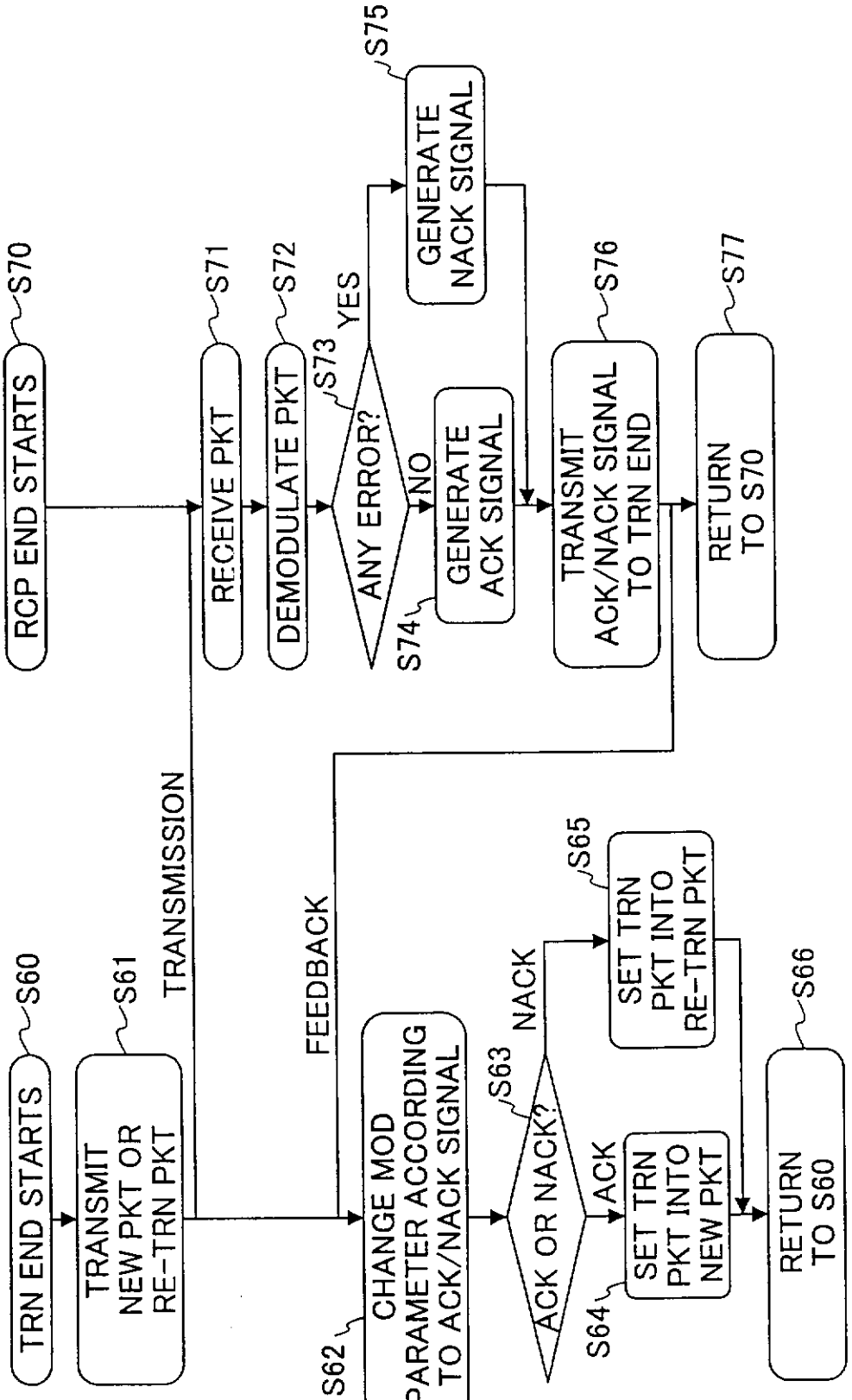

TRN END STARTS
S60
TRANSMIT NEW PKT OR RE-TRN PKT
S61
TRANSMISSION
RCP END STARTS
S70
RECEIVE PKT
S71
DEMODULATE PKT
S72
ANY ERROR?
S73
YES
NO
S74
GENERATE NACK SIGNAL
S75
GENERATE ACK SIGNAL
TRANSMIT ACK/NACK SIGNAL TO TRN END
S76
RETURN TO S70
S77
FEEDBACK
CHANGE MOD PARAMETER ACCORDING TO ACK/NACK SIGNAL
S62
ACK OR NACK?
S63
NACK
ACK
S64
SET TRN PKT INTO RE-TRN PKT
S65
SET TRN PKT INTO NEW PKT
RETURN TO S60
S66

FIG.4

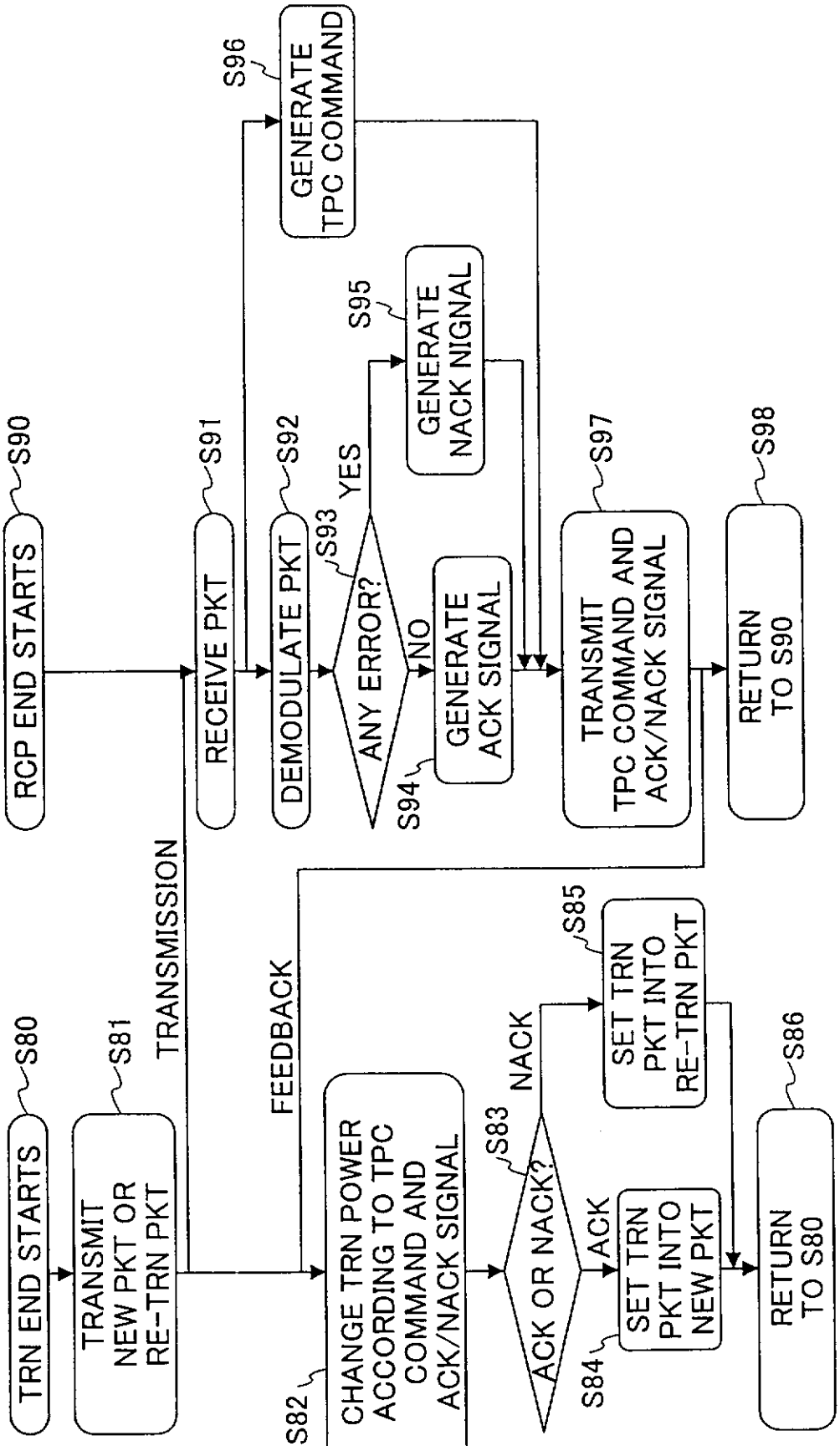

TRN END STARTS
S80
TRANSMIT NEW PKT OR RE-TRN PKT
S81
TRANSMISSION
RCP END STARTS
S90
RECEIVE PKT
S91
DEMODULATE PKT
S92
ANY ERROR?
S93
YES
NO
S94
GENERATE NACK NIGNAL
S95
GENERATE TPC COMMAND
S96
GENERATE ACK SIGNAL
TRANSMIT TPC COMMAND AND ACK/NACK SIGNAL
S97
RETURN TO S90
S98
FEEDBACK
CHANGE TRN POWER ACCORDING TO TPC COMMAND AND ACK/NACK SIGNAL
S82
ACK OR NACK?
S83
NACK
ACK
SET TRN PKT INTO RE-TRN PKT
S85
SET TRN PKT INTO NEW PKT
S84
RETURN TO S80
S86

FIG.5

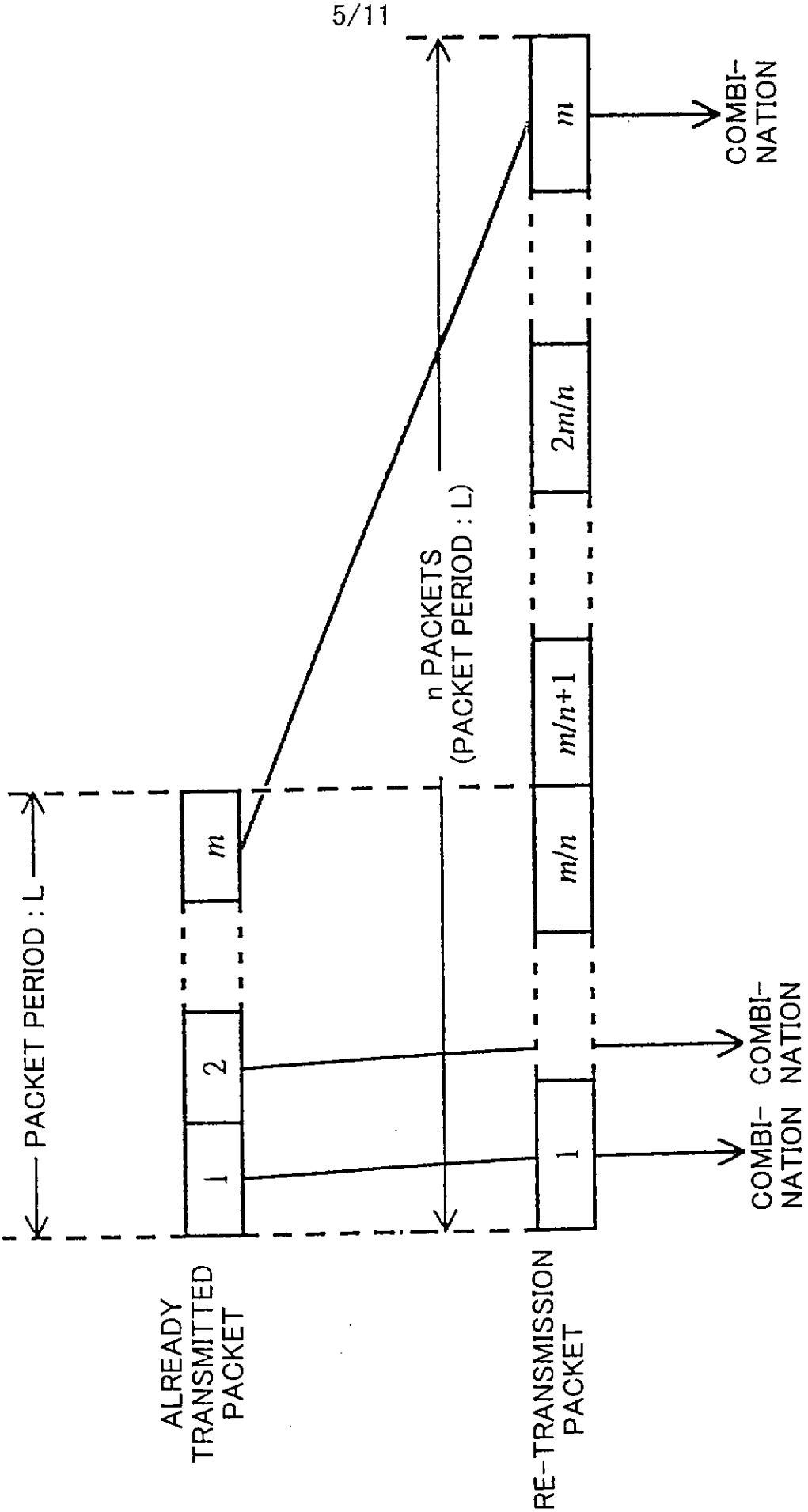

PACKET PERIOD : L
n PACKETS
(PACKET PERIOD : L)
ALREADY TRANSMITTED PACKET
RE-TRANSMISSION PACKET
COMBI-NATION
COMBI-NATION
COMBI-NATION
1
2
m
1
m/n
m/n+1
2m/n
n

FIG.6

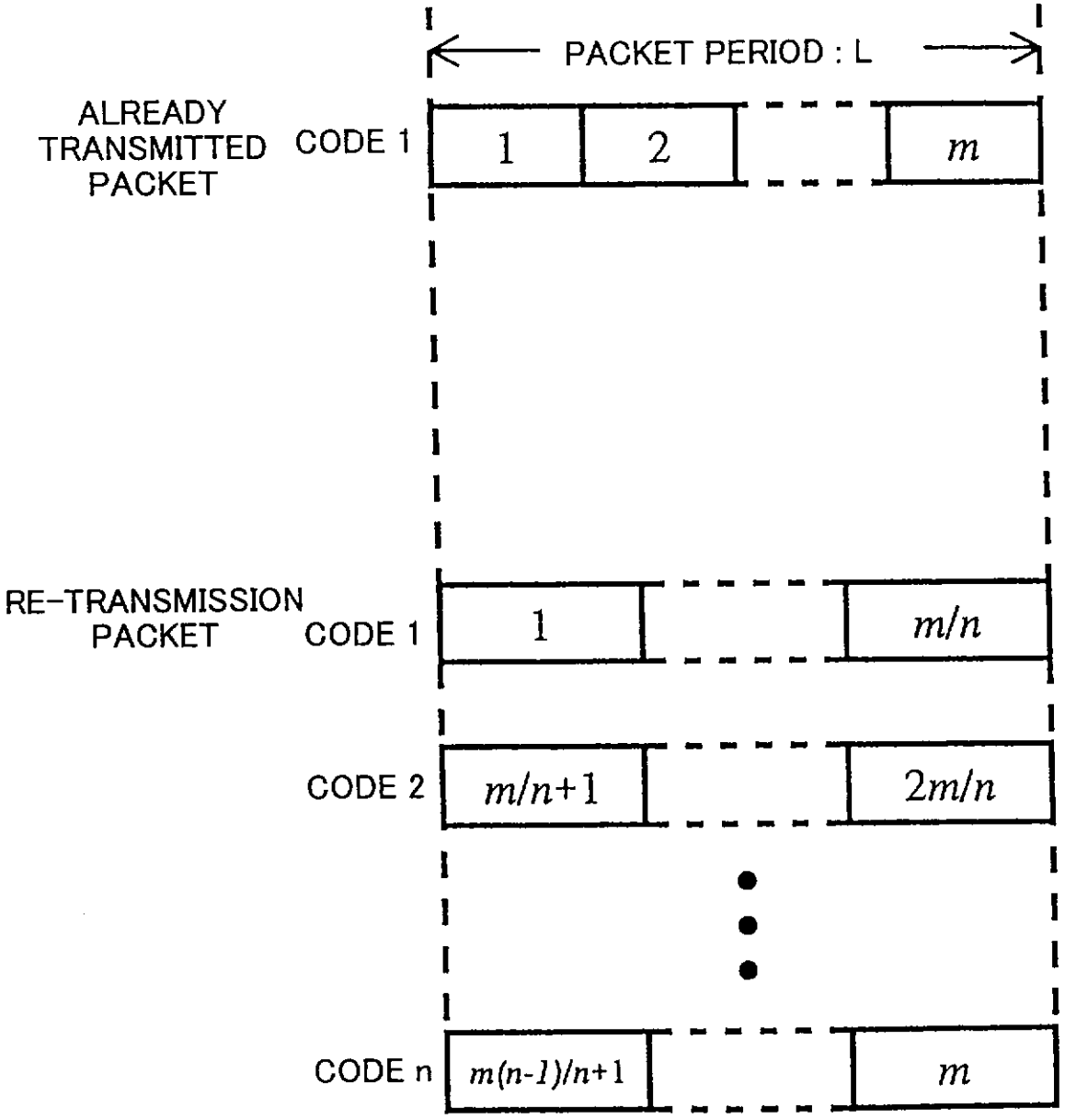

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
CODE 1
1
2
m
RE-TRANSMISSION PACKET
CODE 1
1
m/n
CODE 2
m/n+1
2m/n
CODE n
m(n-1)/n+1
m

FIG.7

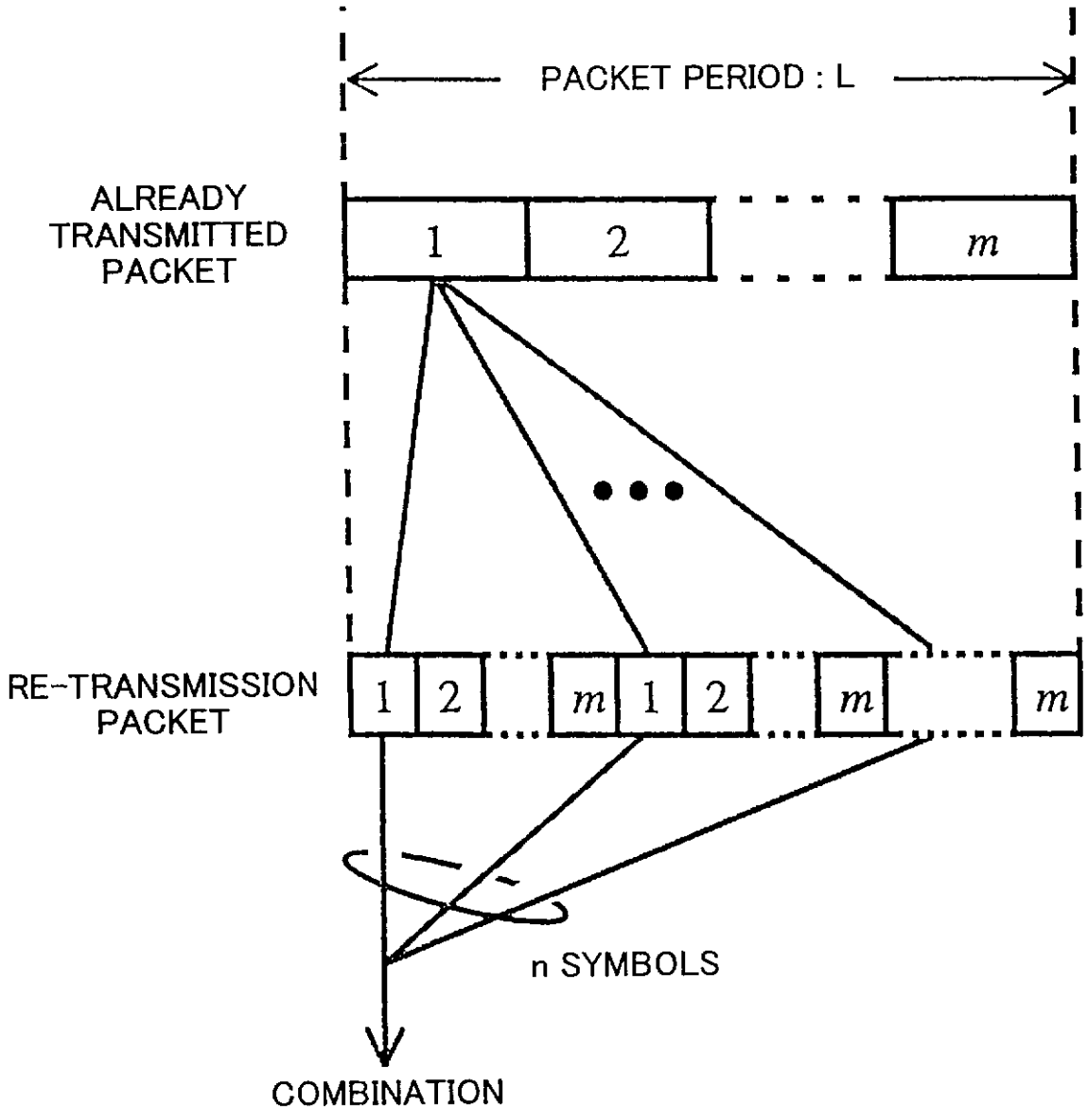

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
RE-TRANSMISSION PACKET
1
2
m
1
2
m
m
n SYMBOLS
COMBINATION

FIG.8

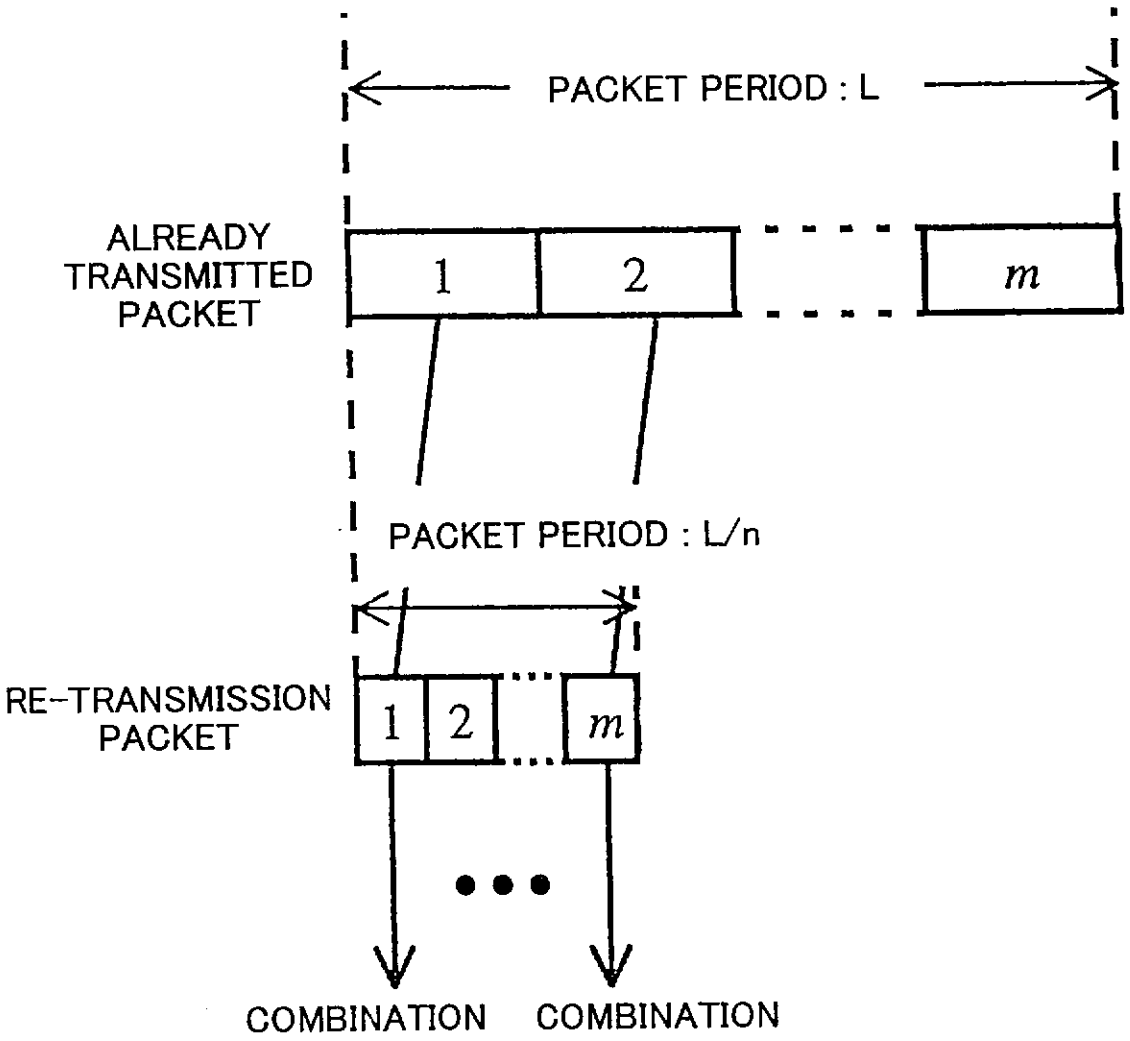

PACKET PERIOD : L
ALREADY TRANSMITTED PACKET
1
2
m
PACKET PERIOD : L/n
RE-TRANSMISSION PACKET
1
2
m
COMBINATION
COMBINATION

FIG.9

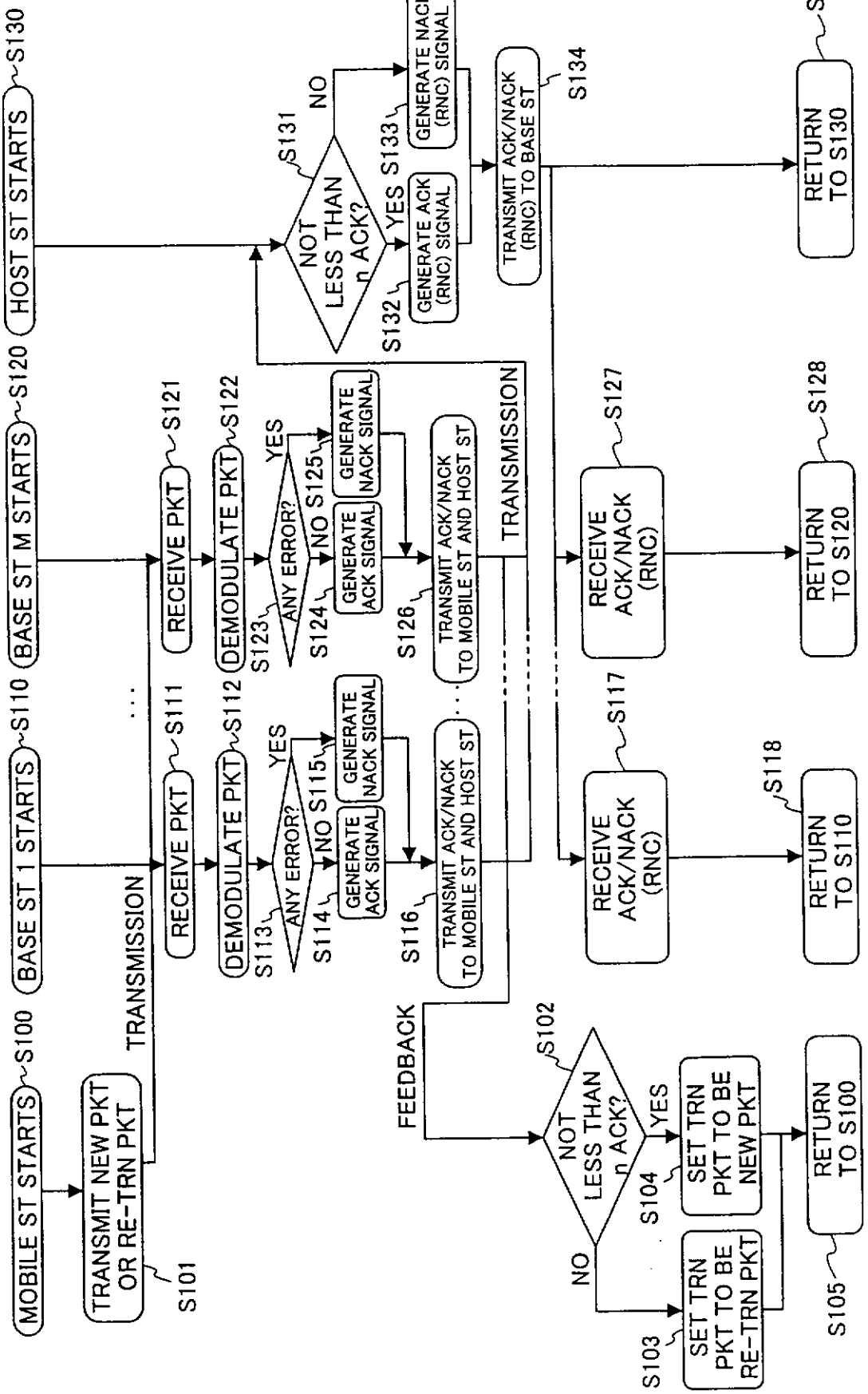

MOBILE ST STARTS
S100
TRANSMIT NEW PKT OR RE-TRN PKT
S101
BASE ST 1 STARTS
S110
TRANSMISSION
RECEIVE PKT
S111
DEMODULATE PKT
S112
ANY ERROR?
S113
YES
NO
S114
GENERATE ACK SIGNAL
GENERATE NACK SIGNAL
S115
S116
TRANSMIT ACK/NACK TO MOBILE ST AND HOST ST
FEEDBACK
NOT LESS THAN n ACK?
S102
NO
YES
S103
SET TRN PKT TO BE RE-TRN PKT
S104
SET TRN PKT TO BE NEW PKT
S105
RETURN TO S100
BASE ST M STARTS
S120
RECEIVE PKT
S121
DEMODULATE PKT
S122
ANY ERROR?
S123
YES
NO
S124
S125
GENERATE ACK SIGNAL
GENERATE NACK SIGNAL
S126
TRANSMIT ACK/NACK TO MOBILE ST AND HOST ST
TRANSMISSION
HOST ST STARTS
S130
NOT LESS THAN n ACK?
S131
NO
YES
S132
GENERATE ACK (RNC) SIGNAL
S133
GENERATE NACK (RNC) SIGNAL
TRANSMIT ACK/NACK (RNC) TO BASE ST
S134
RETURN TO S130
S135
RECEIVE ACK/NACK (RNC)
S117
RETURN TO S110
S118
RECEIVE ACK/NACK (RNC)
S127
RETURN TO S120
S128

FIG.10

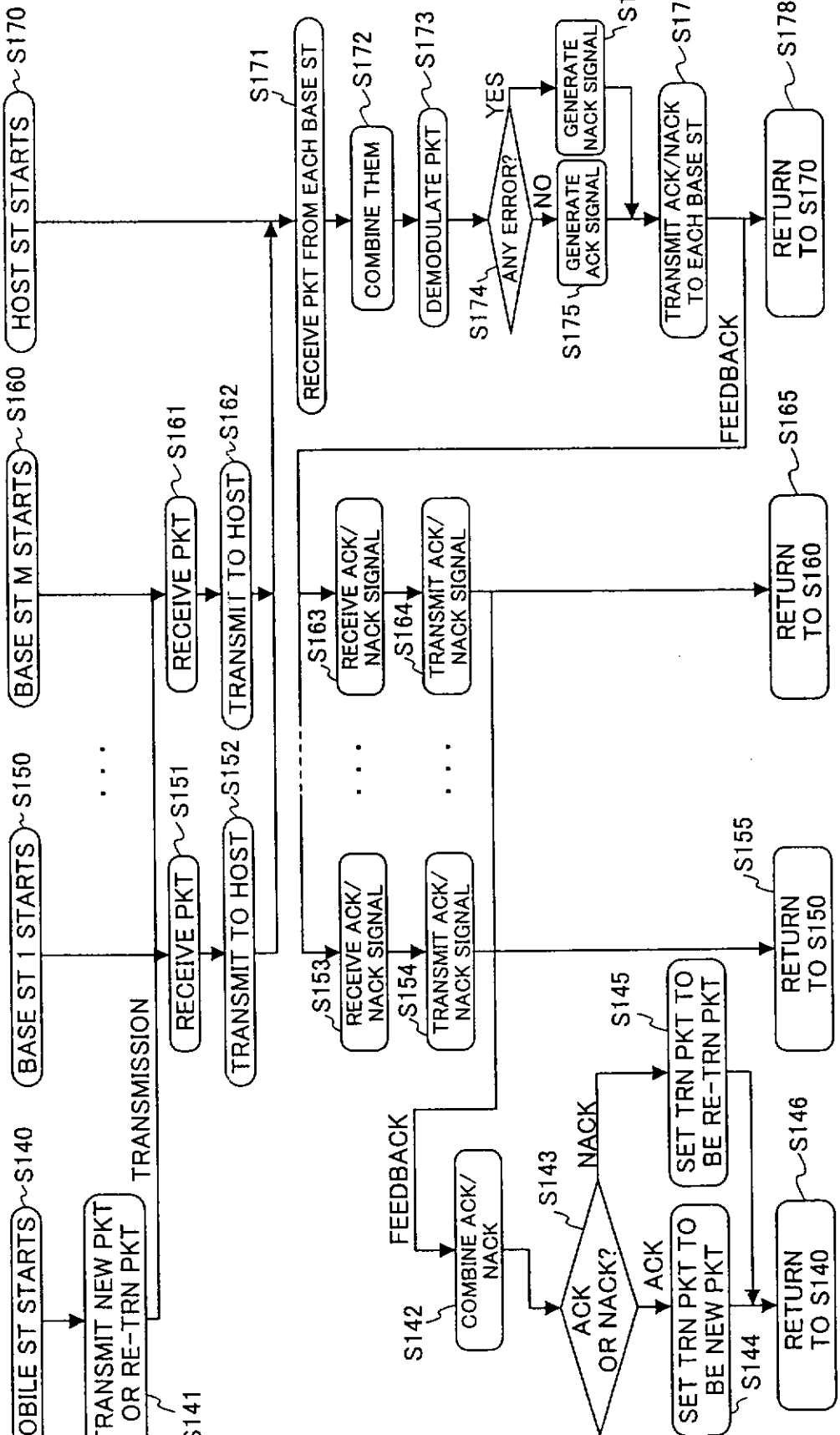
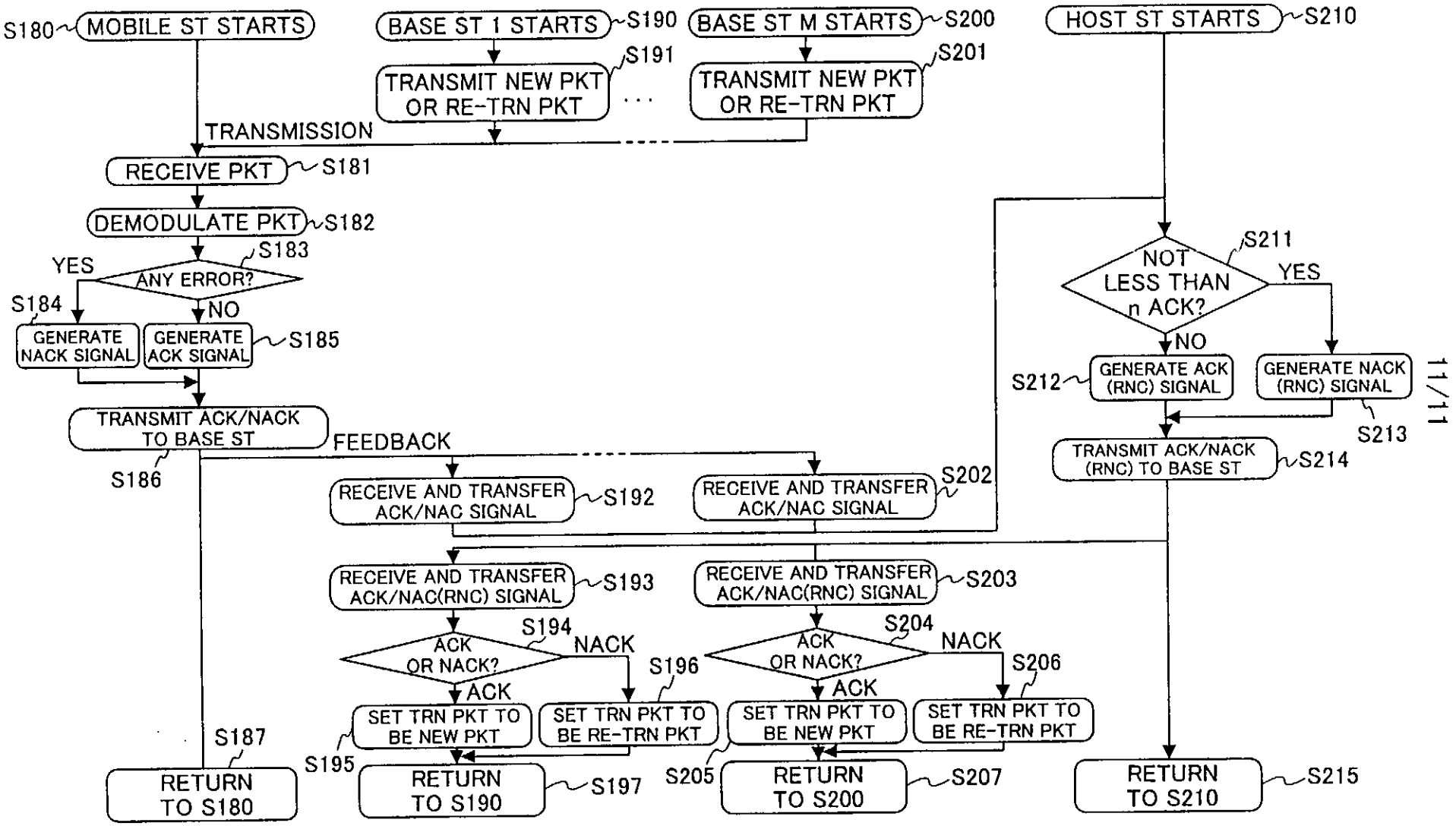

MOBILE ST STARTS
S140
TRANSMIT NEW PKT OR RE-TRN PKT
S141
TRANSMISSION
BASE ST 1 STARTS
S150
RECEIVE PKT
S151
TRANSMIT TO HOST
S152
BASE ST M STARTS
S160
RECEIVE PKT
S161
TRANSMIT TO HOST
S162
HOST ST STARTS
S170
RECEIVE PKT FROM EACH BASE ST
S171
COMBINE THEM
S172
DEMODULATE PKT
S173
ANY ERROR?
S174
YES
NO
GENERATE NACK SIGNAL
S175
GENERATE ACK SIGNAL
S176
TRANSMIT ACK/NACK TO EACH BASE ST
S177
RETURN TO S170
S178
FEEDBACK
RECEIVE ACK/NACK SIGNAL
S163
TRANSMIT ACK/NACK SIGNAL
S164
RETURN TO S160
S165
RECEIVE ACK/NACK SIGNAL
S153
TRANSMIT ACK/NACK SIGNAL
S154
RETURN TO S150
S155
FEEDBACK
COMBINE ACK/NACK
S142
ACK OR NACK?
S143
NACK
SET TRN PKT TO BE RE-TRN PKT
S145
ACK
SET TRN PKT TO BE NEW PKT
S144
RETURN TO S140
S146

FIG.11


S180
MOBILE ST STARTS
BASE ST 1 STARTS
S190
BASE ST M STARTS
S200
HOST ST STARTS
S210
S191
TRANSMIT NEW PKT OR RE-TRN PKT
S201
TRANSMIT NEW PKT OR RE-TRN PKT
TRANSMISSION
RECEIVE PKT
S181
DEMODULATE PKT
S182
S183
YES
ANY ERROR?
NO
S184
GENERATE NACK SIGNAL
GENERATE ACK SIGNAL
S185
TRANSMIT ACK/NACK TO BASE ST
S186
FEEDBACK
RECEIVE AND TRANSFER ACK/NAC SIGNAL
S192
RECEIVE AND TRANSFER ACK/NAC SIGNAL
S202
S211
NOT LESS THAN n ACK?
YES
NO
S212
GENERATE ACK (RNC) SIGNAL
GENERATE NACK (RNC) SIGNAL
S213
TRANSMIT ACK/NACK (RNC) TO BASE ST
S214
RECEIVE AND TRANSFER ACK/NAC(RNC) SIGNAL
S193
RECEIVE AND TRANSFER ACK/NAC(RNC) SIGNAL
S203
S194
ACK OR NACK?
NACK
ACK
S204
ACK OR NACK?
NACK
ACK
S196
S206
SET TRN PKT TO BE NEW PKT
SET TRN PKT TO BE RE-TRN PKT
SET TRN PKT TO BE NEW PKT
SET TRN PKT TO BE RE-TRN PKT
S187
S195
S205
RETURN TO S180
RETURN TO S190
S197
RETURN TO S200
S207
RETURN TO S210
S215