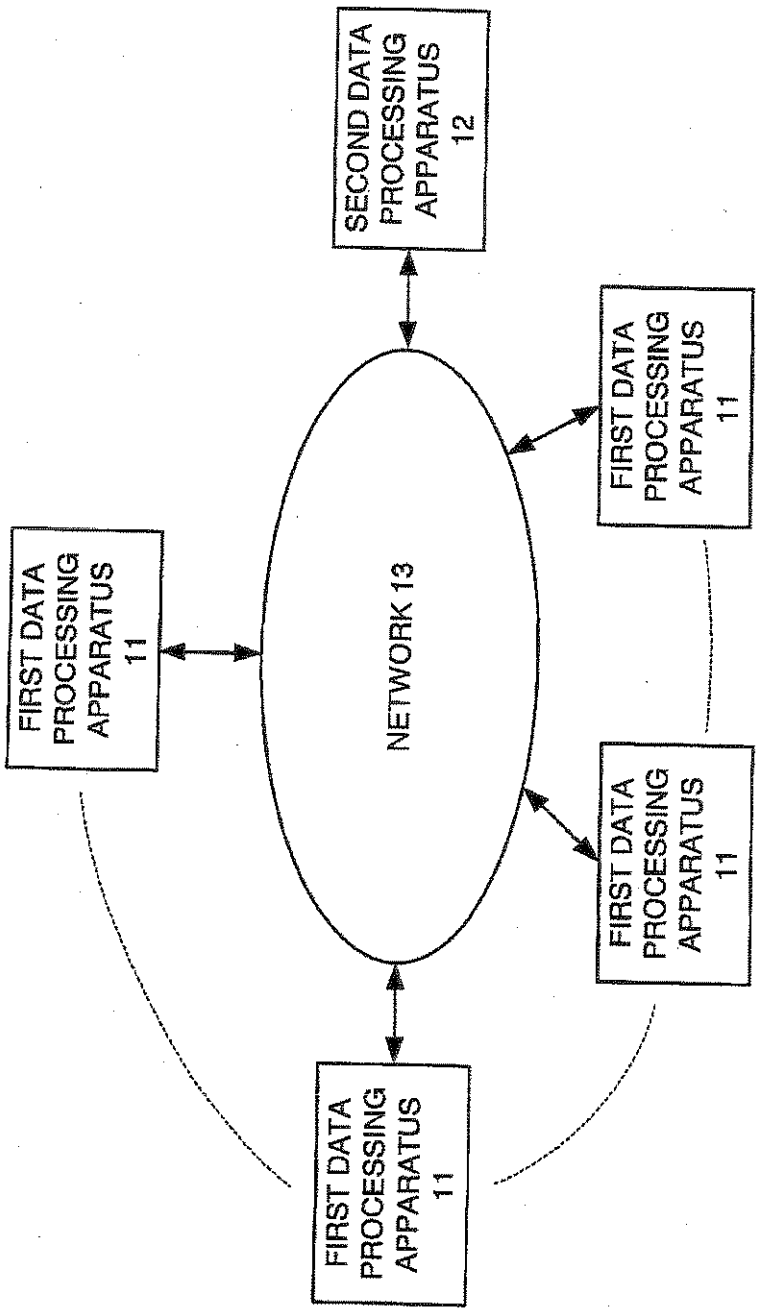

SECOND DATA PROCESSING APPARATUS 12
FIRST DATA PROCESSING APPARATUS 11
FIRST DATA PROCESSING APPARATUS 11
FIRST DATA PROCESSING APPARATUS 11
FIRST DATA PROCESSING APPARATUS 11
NETWORK 13

FIG. 1

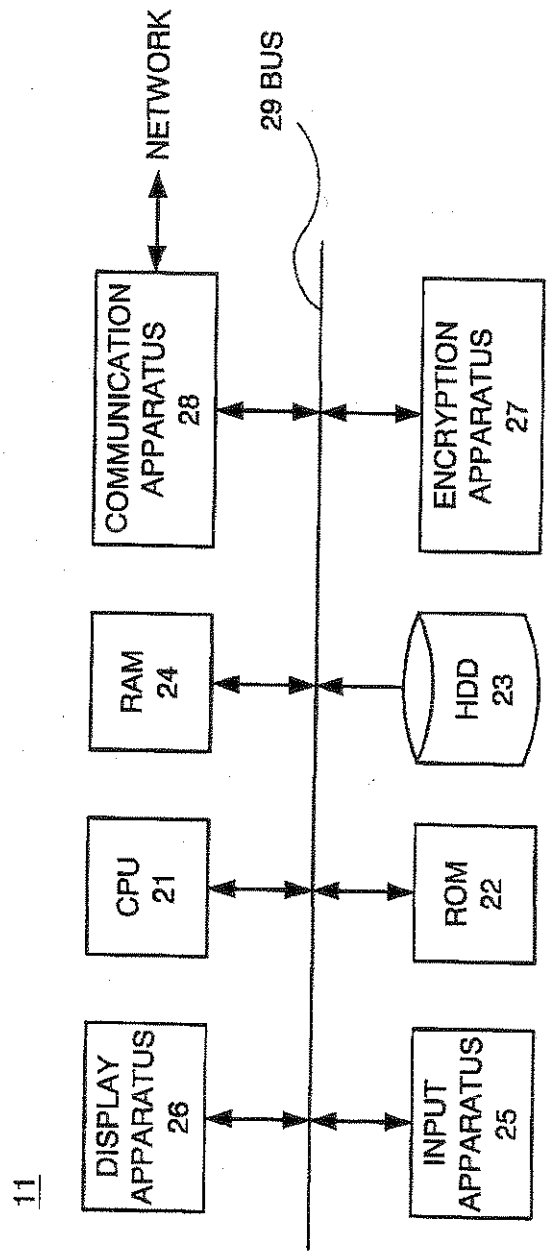

11
DISPLAY APPARATUS 26
CPU 21
RAM 24
COMMUNICATION APPARATUS 28
NETWORK
29 BUS
INPUT APPARATUS 25
ROM 22
HDD 23
ENCRYPTION APPARATUS 27

FIG. 2

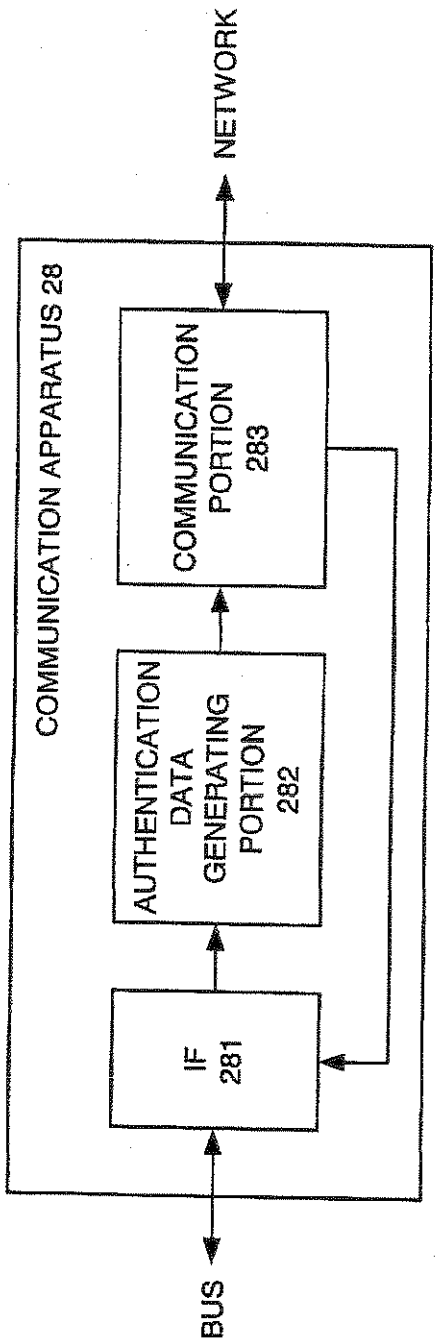

NETWORK
COMMUNICATION APPARATUS 28
COMMUNICATION PORTION 283
AUTHENTICATION DATA GENERATING PORTION 282
IF 281
BUS

FIG. 3

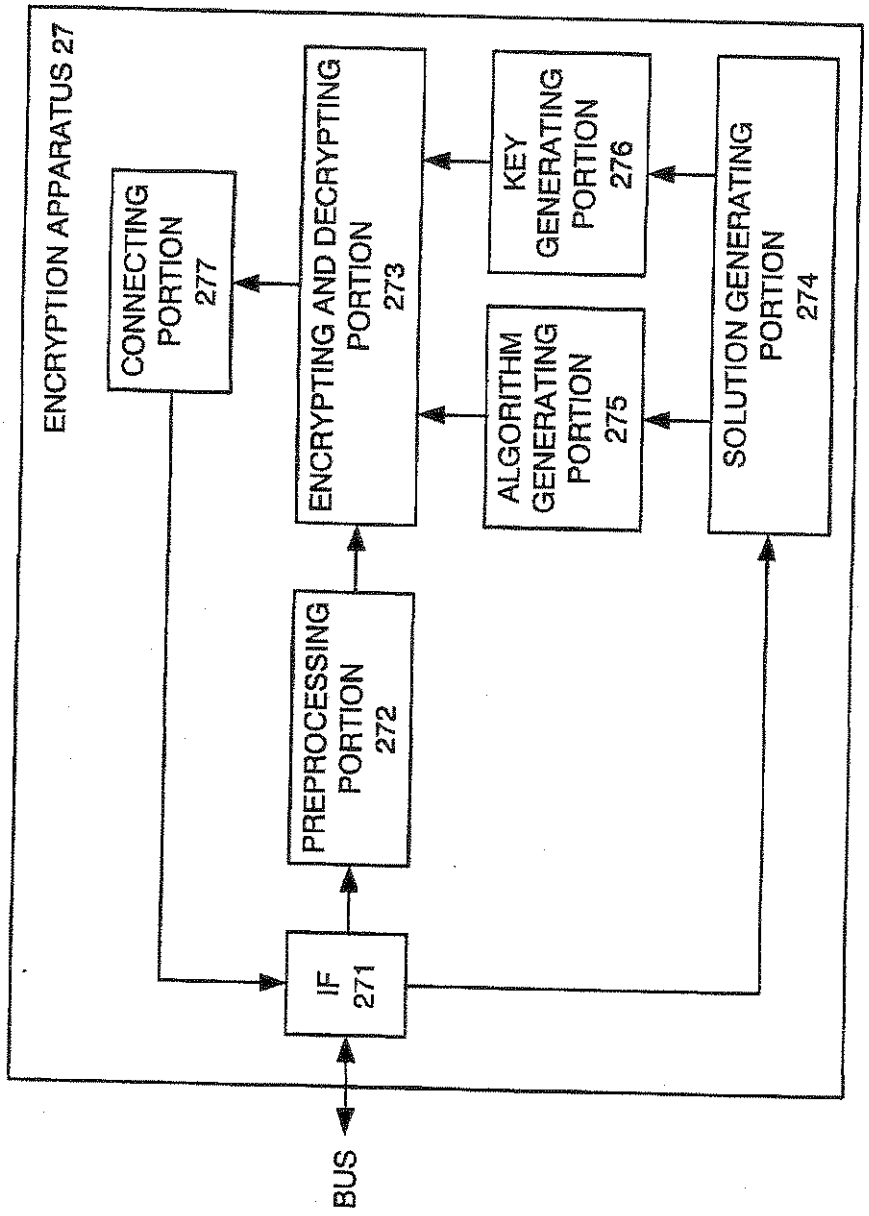

ENCRYPTION APPARATUS 27
CONNECTING PORTION 277
ENCRYPTING AND DECRYPTING PORTION 273
KEY GENERATING PORTION 276
ALGORITHM GENERATING PORTION 275
SOLUTION GENERATING PORTION 274
PREPROCESSING PORTION 272
IF 271
BUS

FIG. 4

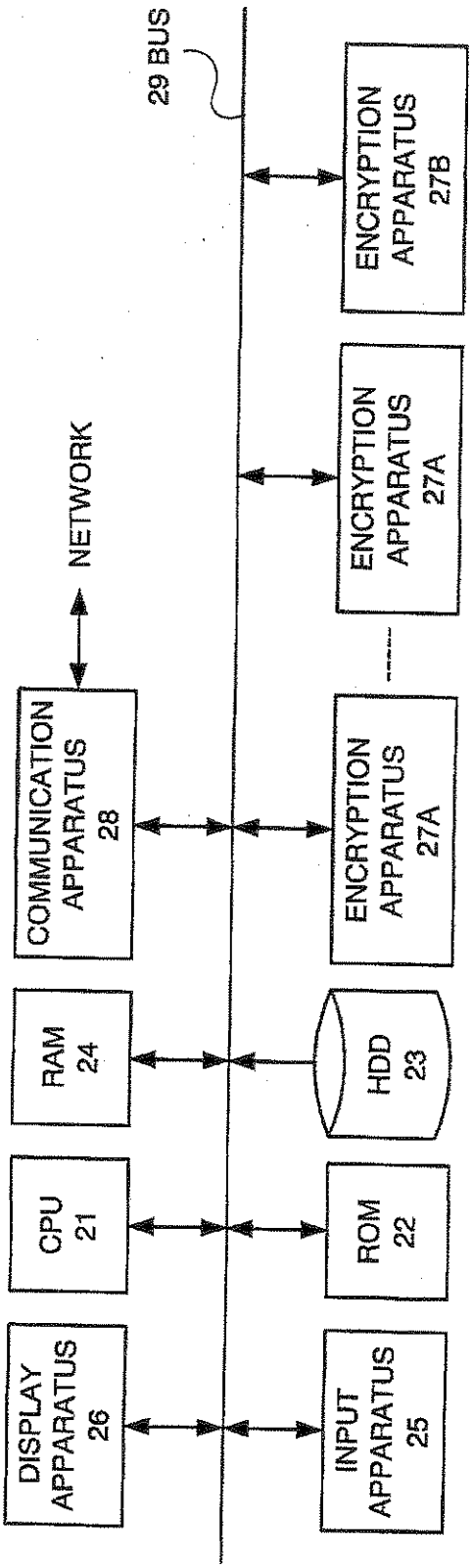

12
DISPLAY APPARATUS 26
CPU 21
RAM 24
COMMUNICATION APPARATUS 28
NETWORK
29 BUS
INPUT APPARATUS 25
ROM 22
HDD 23
ENCRYPTION APPARATUS 27A
ENCRYPTION APPARATUS 27A
ENCRYPTION APPARATUS 27B

FIG. 5

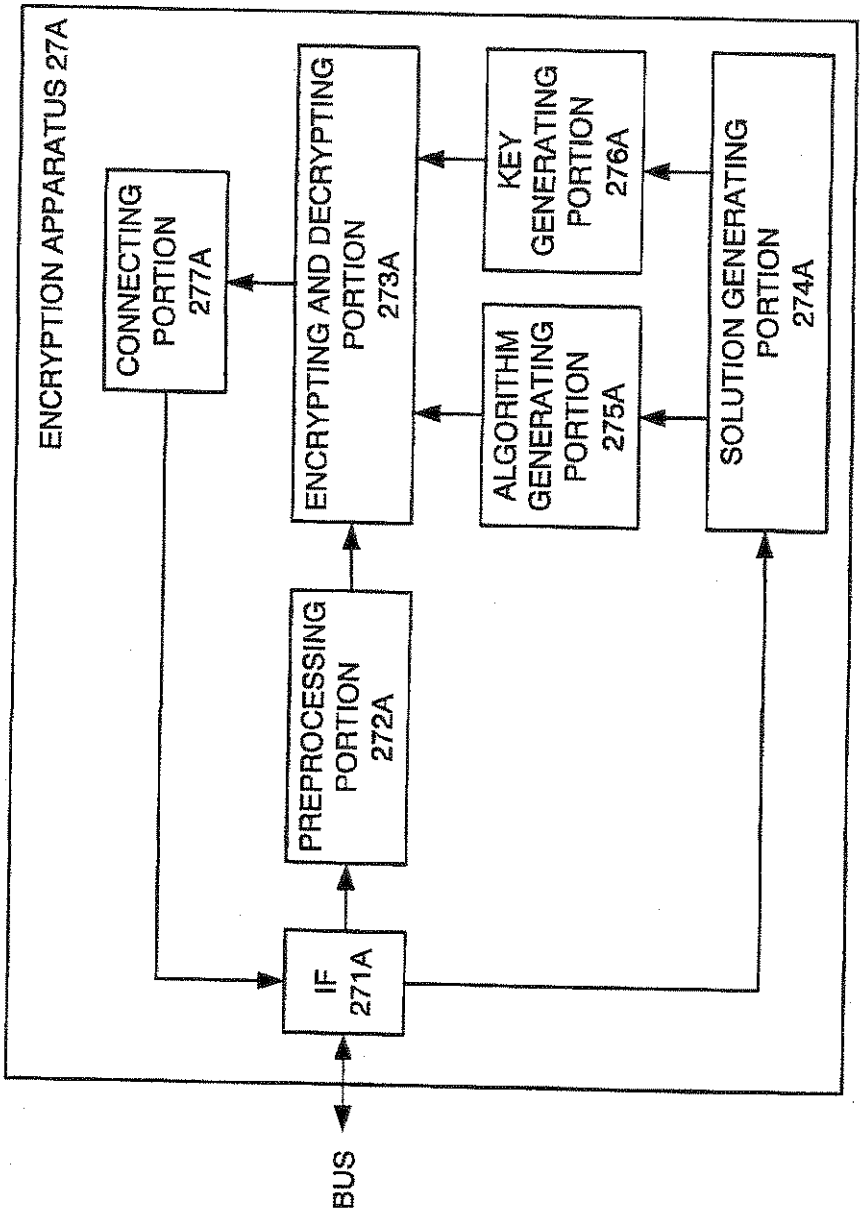

ENCRYPTION APPARATUS 27A
CONNECTING PORTION 277A
ENCRYPTING AND DECRYPTING PORTION 273A
KEY GENERATING PORTION 276A
ALGORITHM GENERATING PORTION 275A
SOLUTION GENERATING PORTION 274A
PREPROCESSING PORTION 272A
IF 271A
BUS

FIG. 6

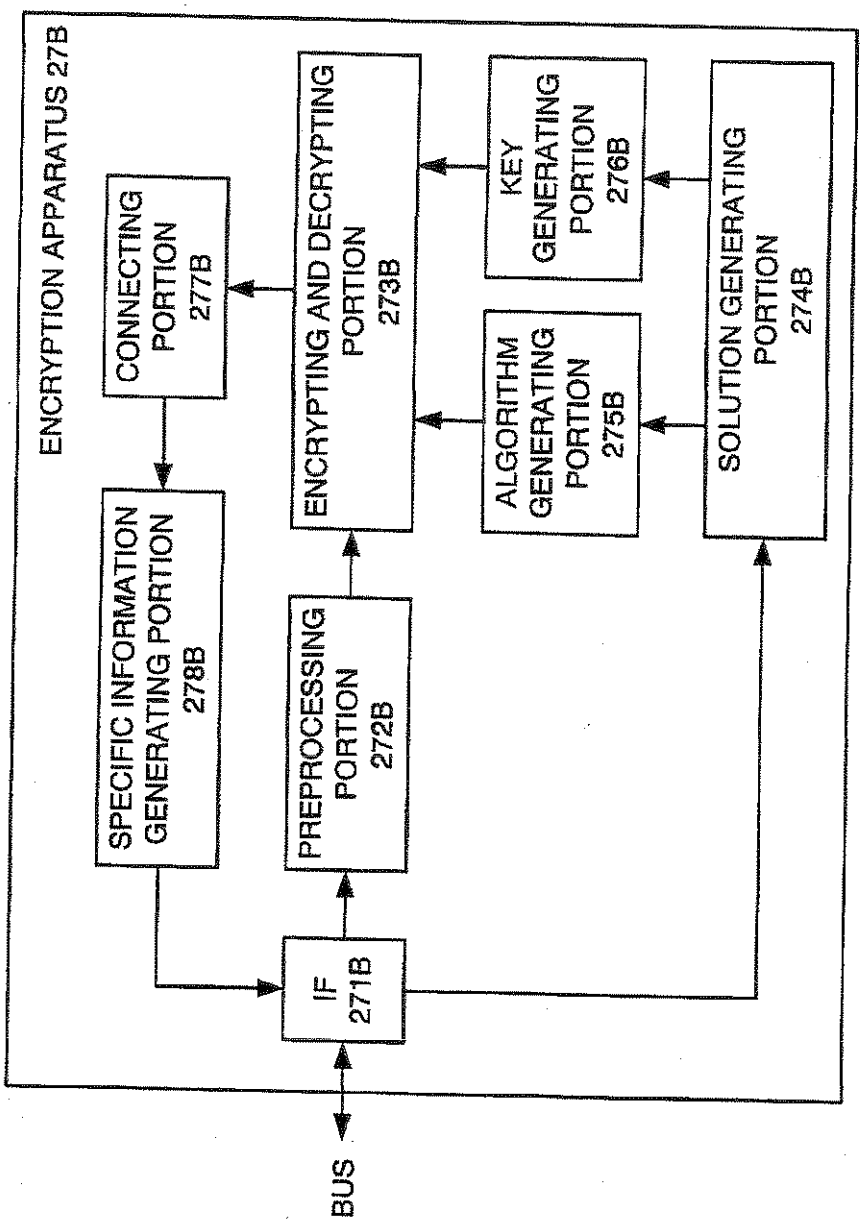

ENCRYPTION APPARATUS 27B
CONNECTING PORTION 277B
ENCRYPTING AND DECRYPTING PORTION 273B
KEY GENERATING PORTION 276B
SPECIFIC INFORMATION GENERATING PORTION 278B
PREPROCESSING PORTION 272B
ALGORITHM GENERATING PORTION 275B
SOLUTION GENERATING PORTION 274B
IF 271B
BUS

FIG. 7

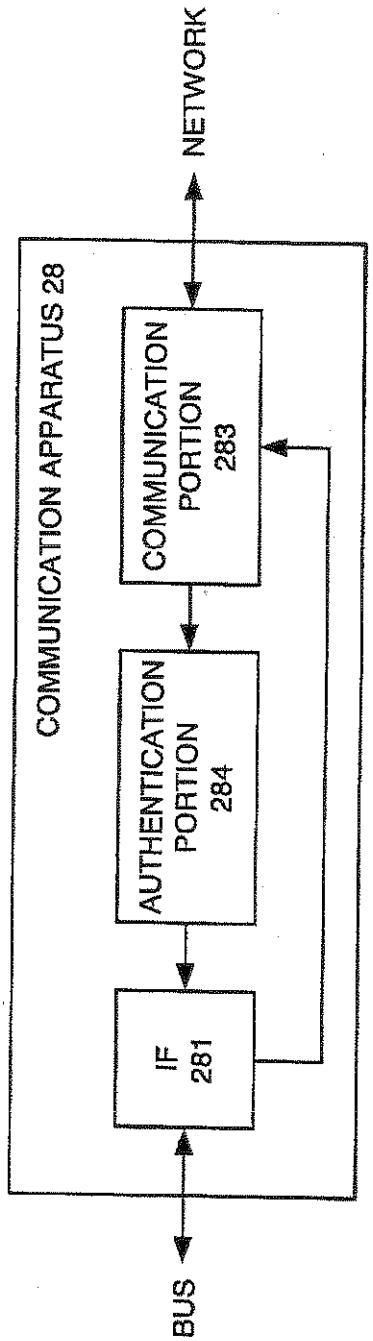

NETWORK
COMMUNICATION APPARATUS 28
COMMUNICATION PORTION 283
AUTHENTICATION PORTION 284
IF 281
BUS

FIG. 8

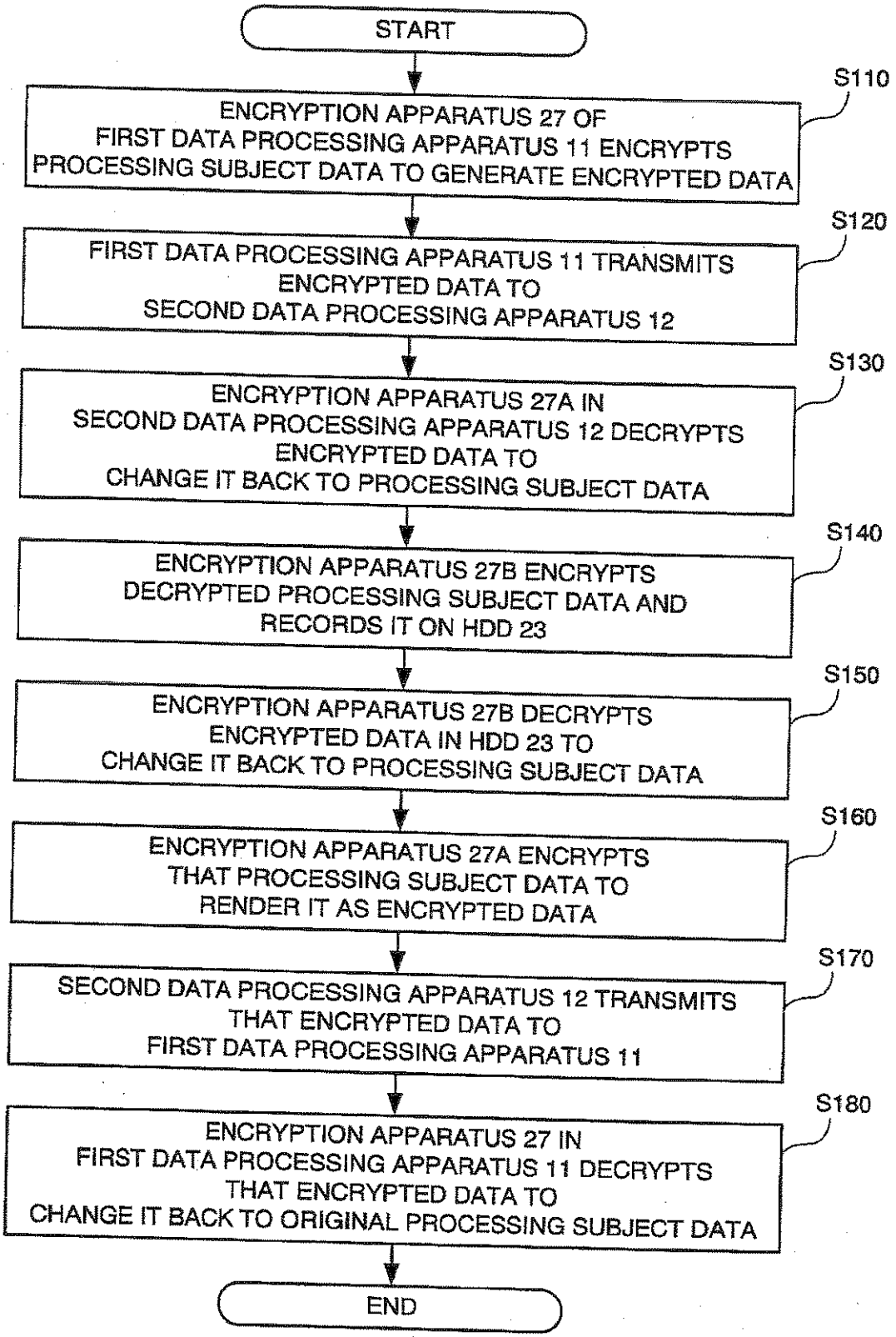

START
ENCRYPTION APPARATUS 27 OF FIRST DATA PROCESSING APPARATUS 11 ENCRYPTS PROCESSING SUBJECT DATA TO GENERATE ENCRYPTED DATA
S110
FIRST DATA PROCESSING APPARATUS 11 TRANSMITS ENCRYPTED DATA TO SECOND DATA PROCESSING APPARATUS 12
S120
ENCRYPTION APPARATUS 27A IN SECOND DATA PROCESSING APPARATUS 12 DECRYPTS ENCRYPTED DATA TO CHANGE IT BACK TO PROCESSING SUBJECT DATA
S130
ENCRYPTION APPARATUS 27B ENCRYPTS DECRYPTED PROCESSING SUBJECT DATA AND RECORDS IT ON HDD 23
S140
ENCRYPTION APPARATUS 27B DECRYPTS ENCRYPTED DATA IN HDD 23 TO CHANGE IT BACK TO PROCESSING SUBJECT DATA
S150
ENCRYPTION APPARATUS 27A ENCRYPTS THAT PROCESSING SUBJECT DATA TO RENDER IT AS ENCRYPTED DATA
S160
SECOND DATA PROCESSING APPARATUS 12 TRANSMITS THAT ENCRYPTED DATA TO FIRST DATA PROCESSING APPARATUS 11
S170
ENCRYPTION APPARATUS 27 IN FIRST DATA PROCESSING APPARATUS 11 DECRYPTS THAT ENCRYPTED DATA TO CHANGE IT BACK TO ORIGINAL PROCESSING SUBJECT DATA
S180
END

FIG. 9

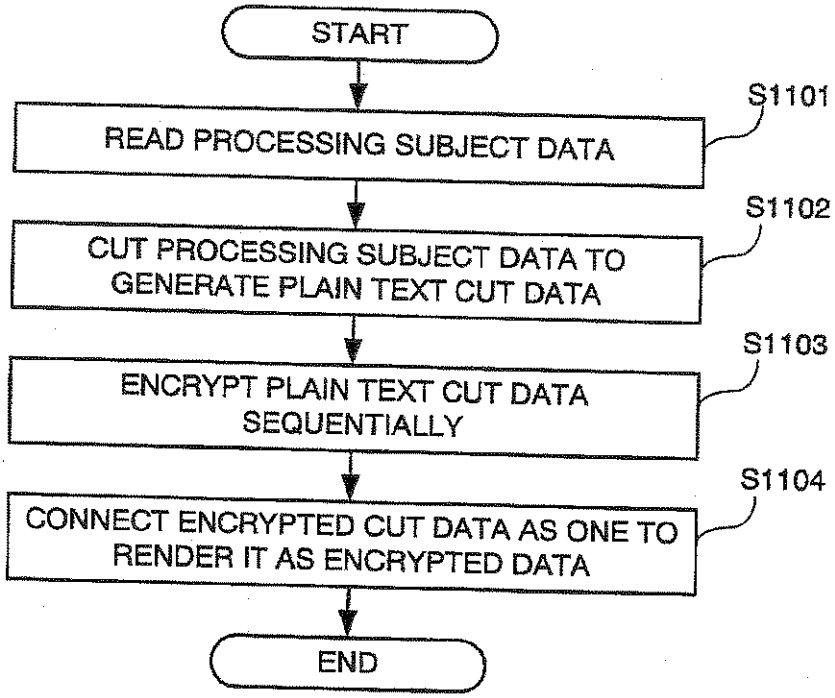

START
READ PROCESSING SUBJECT DATA
S1101
CUT PROCESSING SUBJECT DATA TO GENERATE PLAIN TEXT CUT DATA
S1102
ENCRYPT PLAIN TEXT CUT DATA SEQUENTIALLY
S1103
CONNECT ENCRYPTED CUT DATA AS ONE TO RENDER IT AS ENCRYPTED DATA
S1104
END

FIG. 10

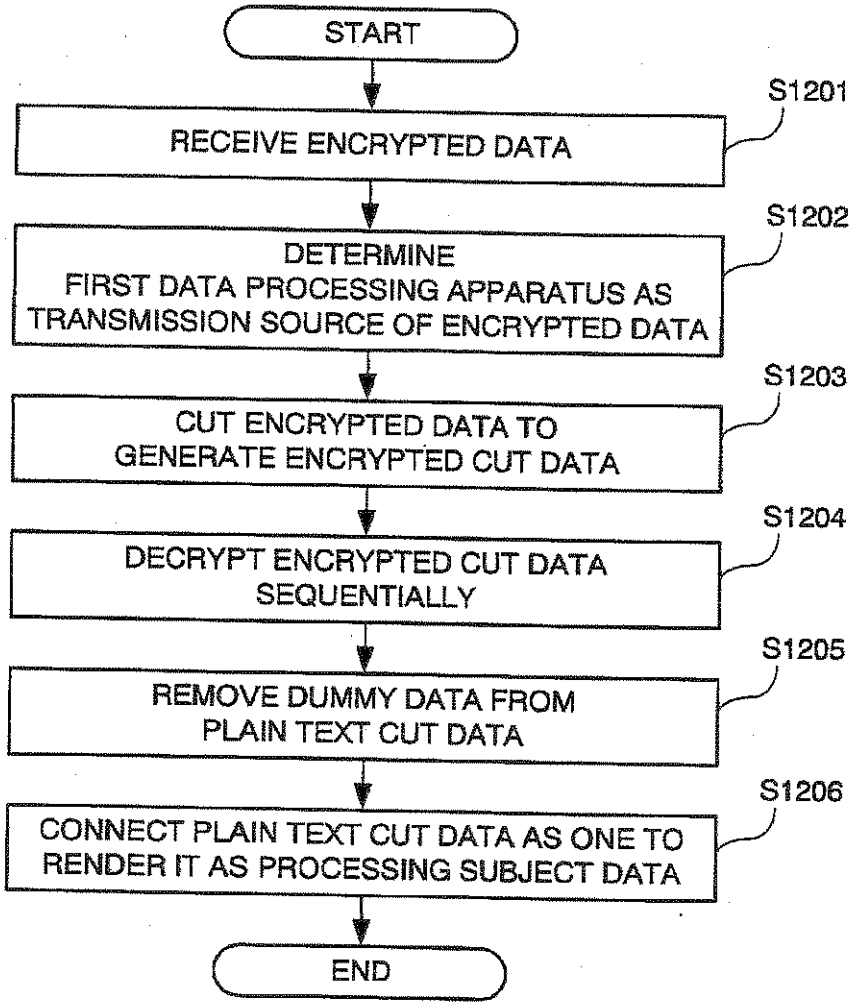

START
S1201
RECEIVE ENCRYPTED DATA
S1202
DETERMINE
FIRST DATA PROCESSING APPARATUS AS
TRANSMISSION SOURCE OF ENCRYPTED DATA
S1203
CUT ENCRYPTED DATA TO
GENERATE ENCRYPTED CUT DATA
S1204
DECRYPT ENCRYPTED CUT DATA
SEQUENTIALLY
S1205
REMOVE DUMMY DATA FROM
PLAIN TEXT CUT DATA
S1206
CONNECT PLAIN TEXT CUT DATA AS ONE TO
RENDER IT AS PROCESSING SUBJECT DATA
END

FIG. 11

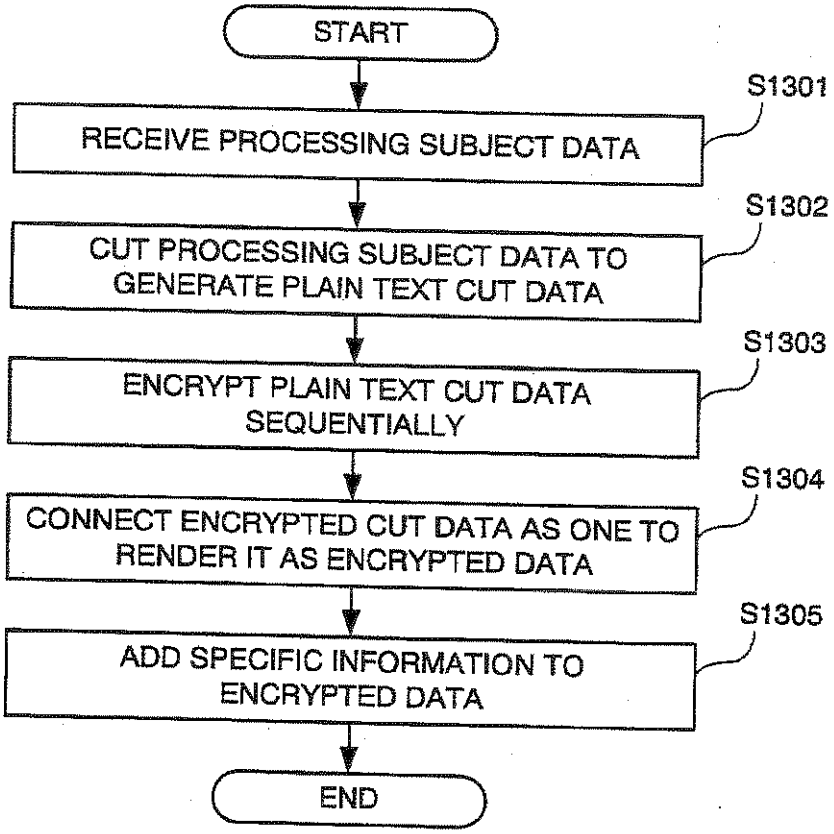

START
S1301
RECEIVE PROCESSING SUBJECT DATA
S1302
CUT PROCESSING SUBJECT DATA TO GENERATE PLAIN TEXT CUT DATA
S1303
ENCRYPT PLAIN TEXT CUT DATA SEQUENTIALLY
S1304
CONNECT ENCRYPTED CUT DATA AS ONE TO RENDER IT AS ENCRYPTED DATA
S1305
ADD SPECIFIC INFORMATION TO ENCRYPTED DATA
END

FIG. 12

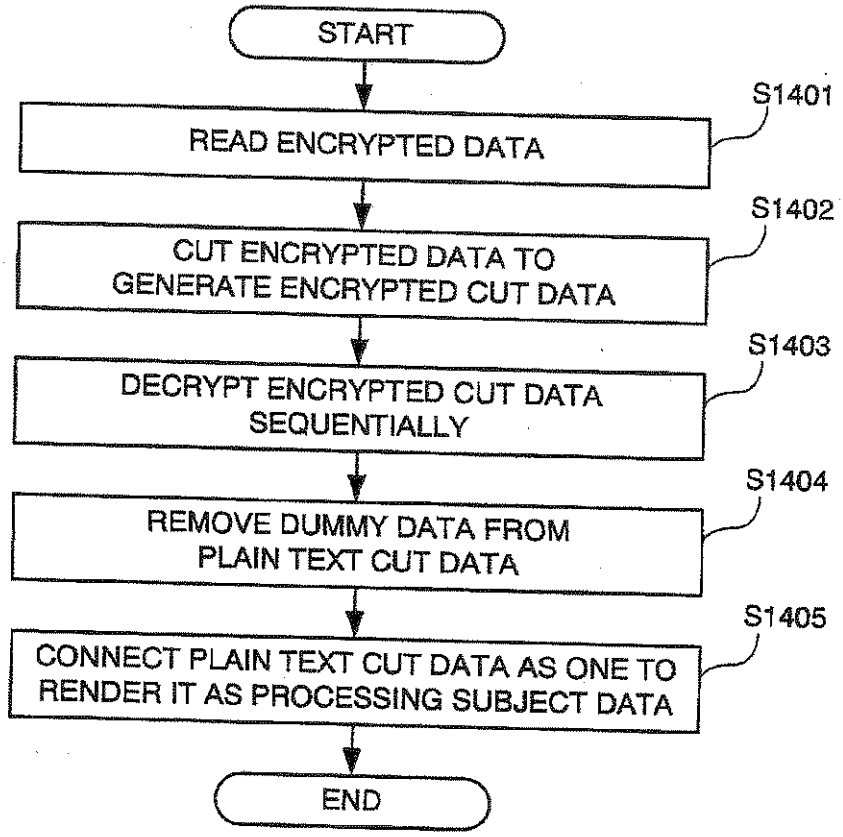

START
READ ENCRYPTED DATA
S1401
CUT ENCRYPTED DATA TO GENERATE ENCRYPTED CUT DATA
S1402
DECRYPT ENCRYPTED CUT DATA SEQUENTIALLY
S1403
REMOVE DUMMY DATA FROM PLAIN TEXT CUT DATA
S1404
CONNECT PLAIN TEXT CUT DATA AS ONE TO RENDER IT AS PROCESSING SUBJECT DATA
S1405
END

FIG. 13

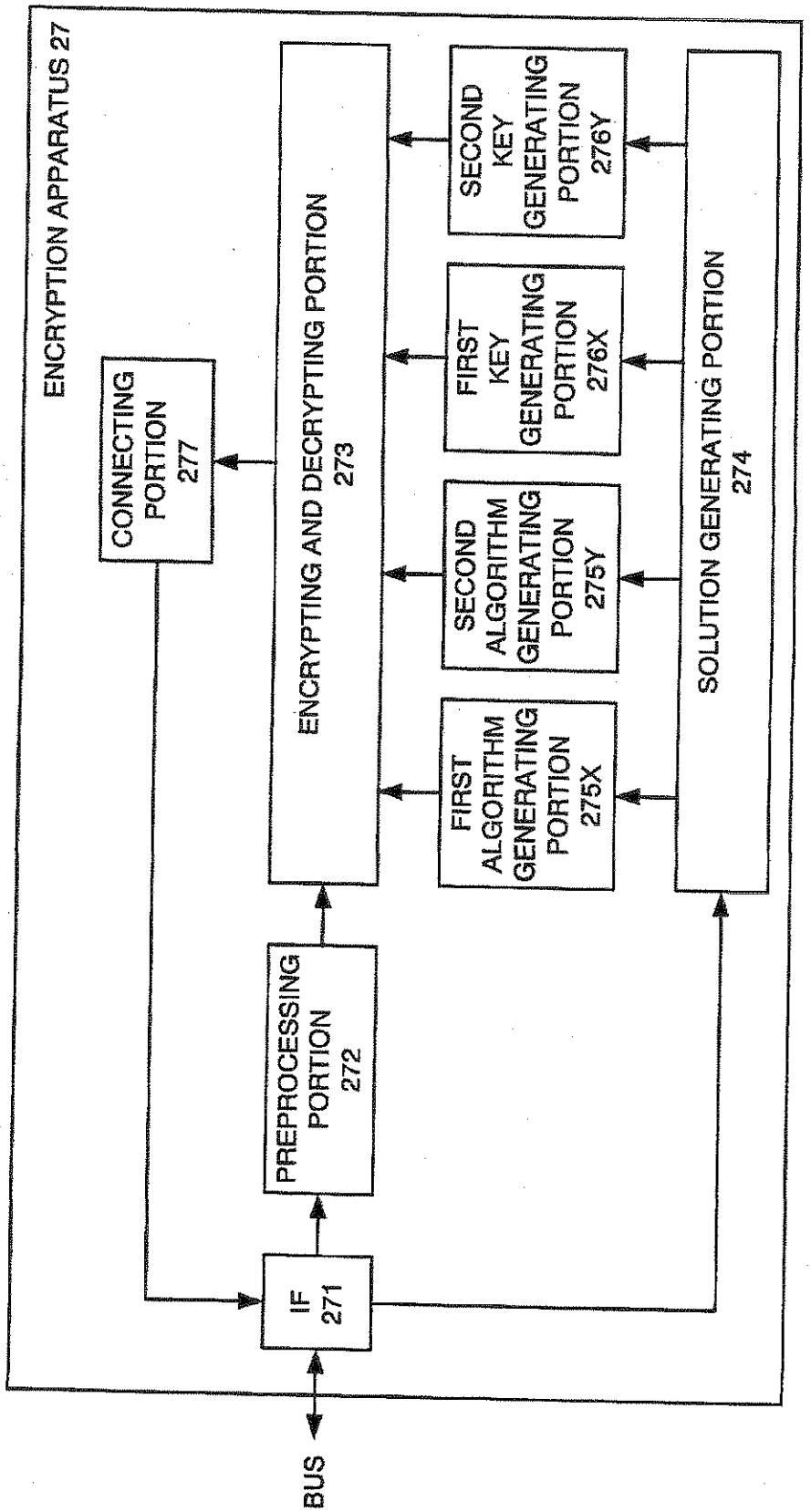

ENCRYPTION APPARATUS 27
CONNECTING PORTION 277
ENCRYPTING AND DECRYPTING PORTION 273
SECOND KEY GENERATING PORTION 276Y
FIRST KEY GENERATING PORTION 276X
SECOND ALGORITHM GENERATING PORTION 275Y
FIRST ALGORITHM GENERATING PORTION 275X
SOLUTION GENERATING PORTION 274
PREPROCESSING PORTION 272
IF 271
BUS

FIG. 14

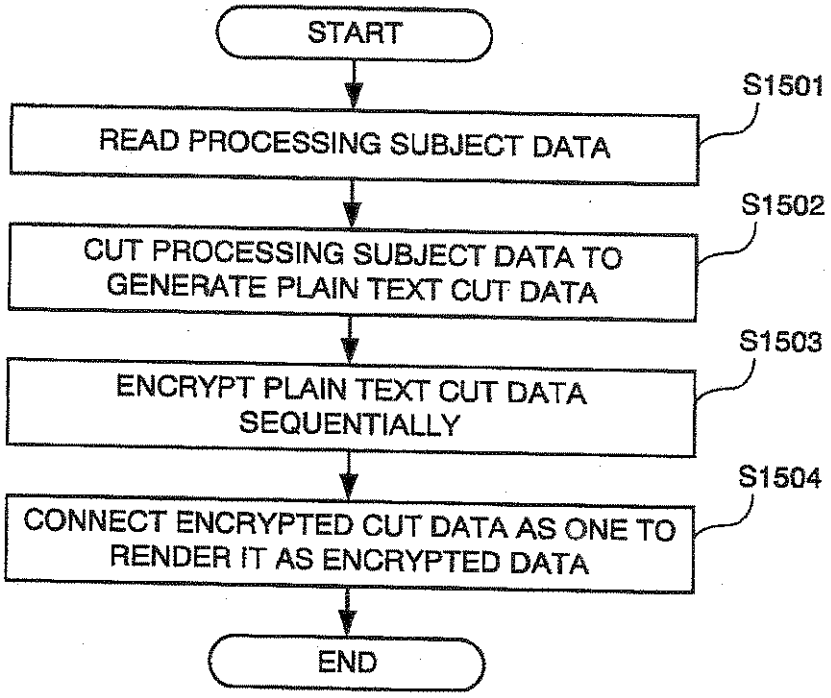

START
S1501
READ PROCESSING SUBJECT DATA
S1502
CUT PROCESSING SUBJECT DATA TO GENERATE PLAIN TEXT CUT DATA
S1503
ENCRYPT PLAIN TEXT CUT DATA SEQUENTIALLY
S1504
CONNECT ENCRYPTED CUT DATA AS ONE TO RENDER IT AS ENCRYPTED DATA
END

FIG. 15

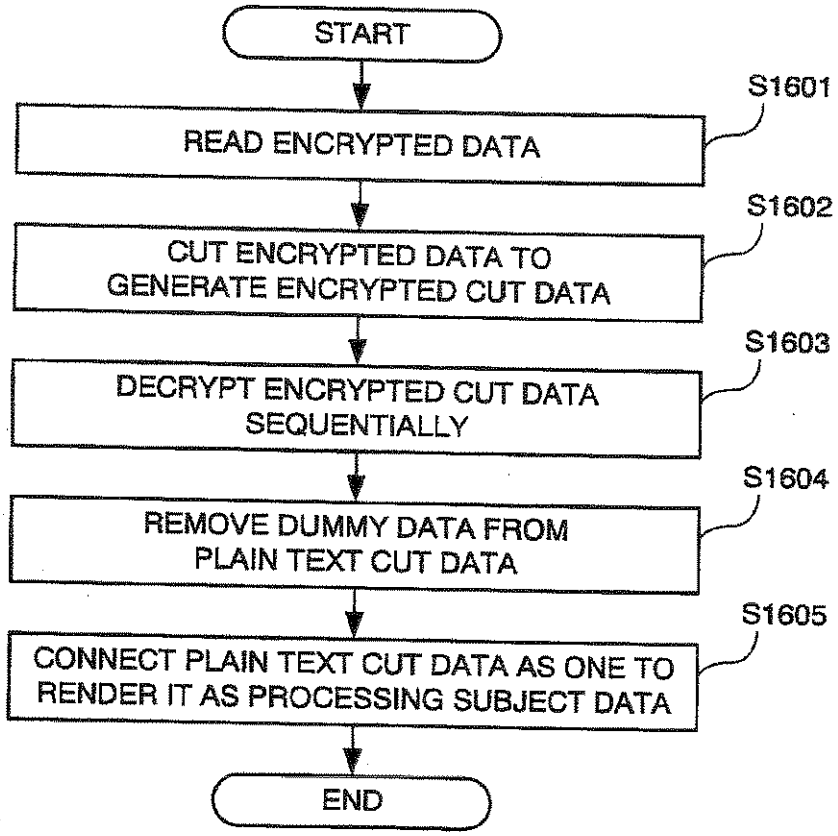

START
S1601
READ ENCRYPTED DATA
S1602
CUT ENCRYPTED DATA TO GENERATE ENCRYPTED CUT DATA
S1603
DECRYPT ENCRYPTED CUT DATA SEQUENTIALLY
S1604
REMOVE DUMMY DATA FROM PLAIN TEXT CUT DATA
S1605
CONNECT PLAIN TEXT CUT DATA AS ONE TO RENDER IT AS PROCESSING SUBJECT DATA
END

FIG. 16

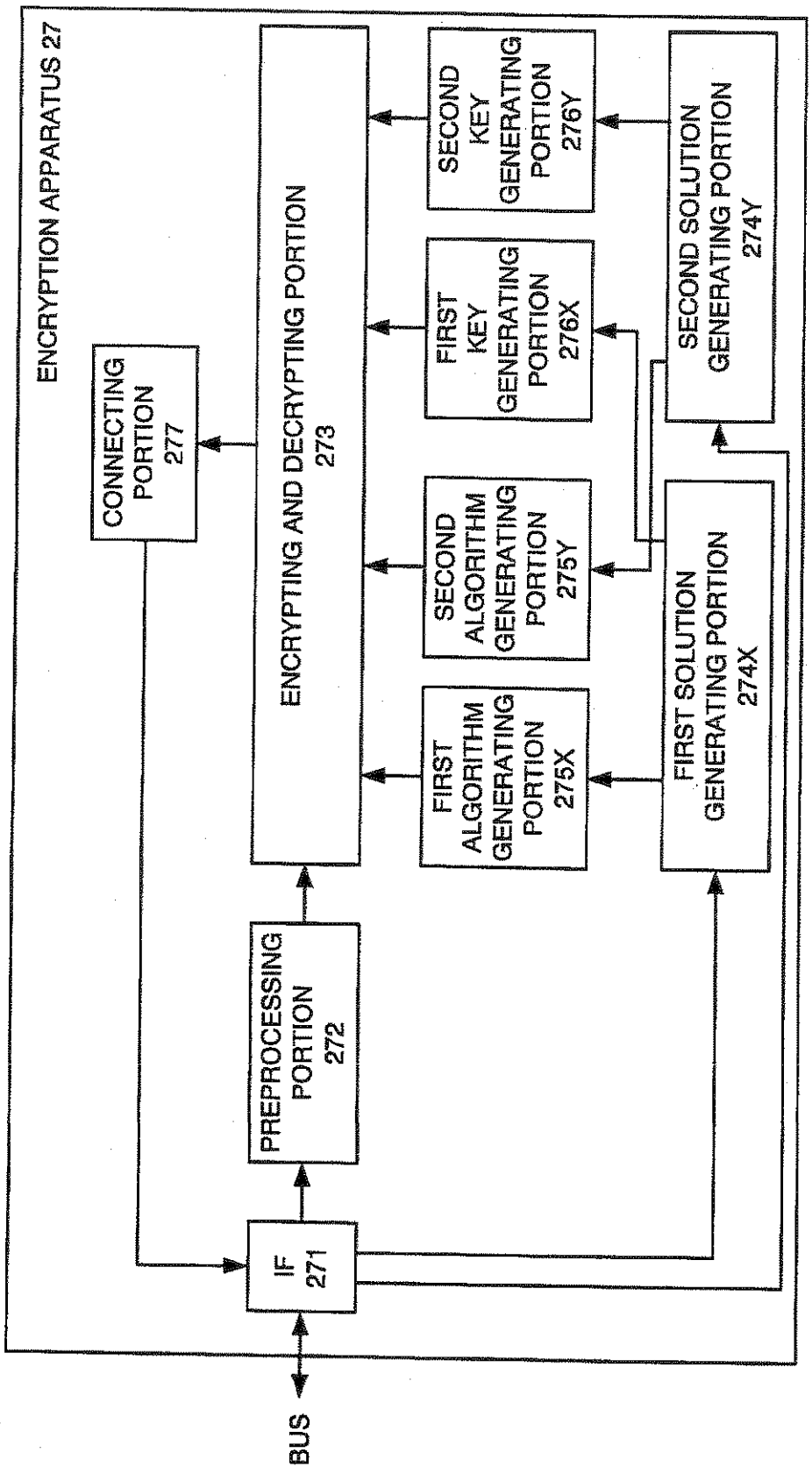

ENCRYPTION APPARATUS 27
CONNECTING PORTION 277
ENCRYPTING AND DECRYPTING PORTION 273
SECOND KEY GENERATING PORTION 276Y
FIRST KEY GENERATING PORTION 276X
SECOND SOLUTION GENERATING PORTION 274Y
SECOND ALGORITHM GENERATING PORTION 275Y
FIRST SOLUTION GENERATING PORTION 274X
FIRST ALGORITHM GENERATING PORTION 275X
PREPROCESSING PORTION 272
IF 271
BUS

FIG. 17