FIG. 1

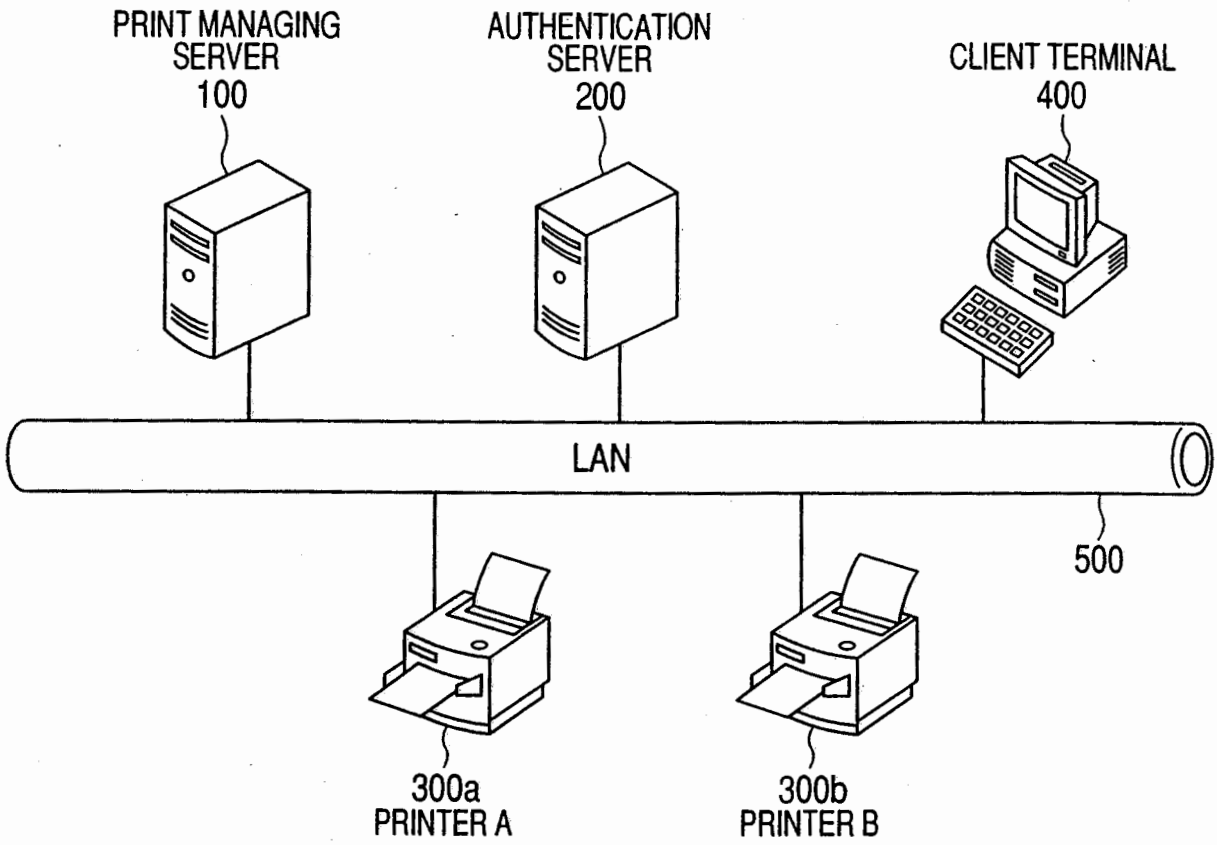

PRINT MANAGING SERVER
100
AUTHENTICATION SERVER
200
CLIENT TERMINAL
400
LAN
500
300a
PRINTER A
300b
PRINTER B

FIG. 2

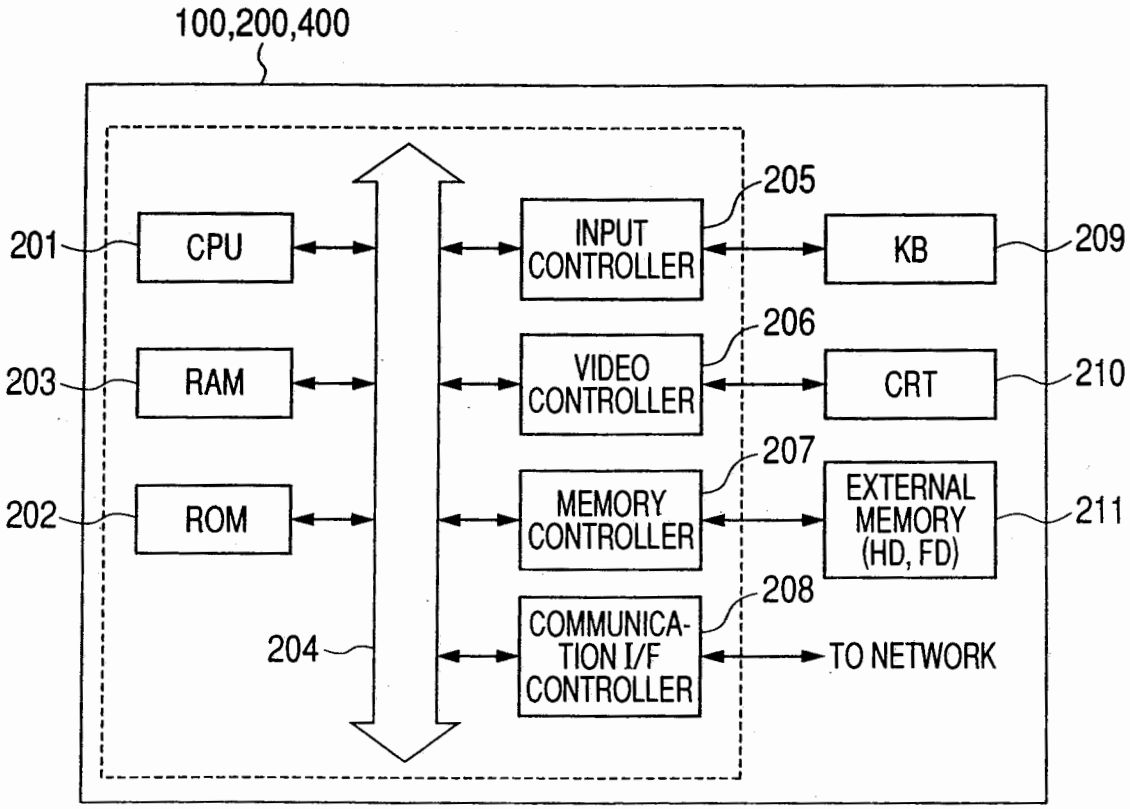

100,200,400
201
CPU
203
RAM
202
ROM
204
205
INPUT CONTROLLER
206
VIDEO CONTROLLER
207
MEMORY CONTROLLER
208
COMMUNICA-TION I/F CONTROLLER
KB
209
CRT
210
EXTERNAL MEMORY (HD, FD)
211
TO NETWORK

FIG. 3

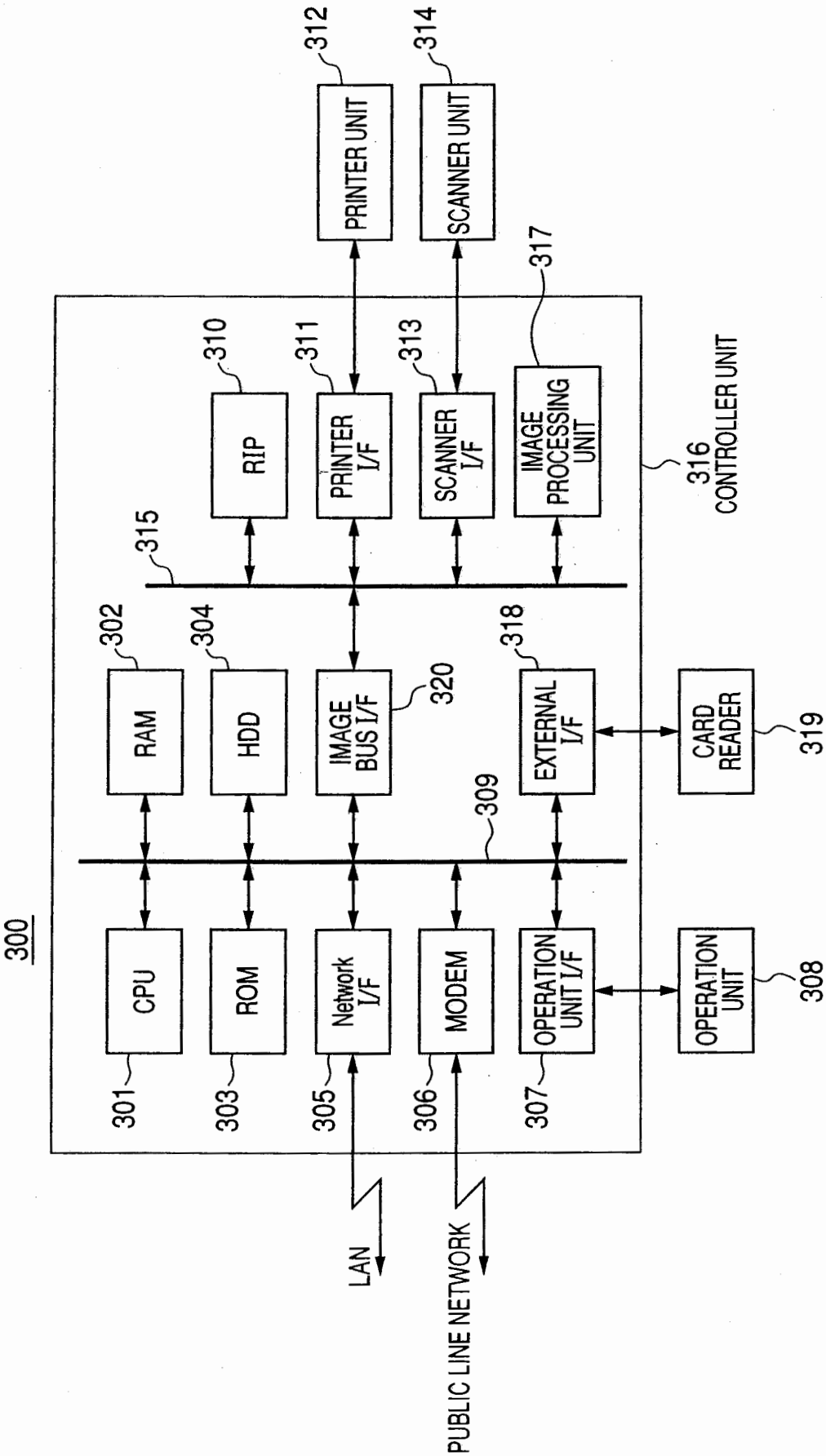

300
CPU
301
ROM
303
Network I/F
305
MODEM
306
OPERATION UNIT I/F
307
OPERATION UNIT
308
309
RAM
302
HDD
304
IMAGE BUS I/F
320
EXTERNAL I/F
318
CARD READER
319
315
RIP
310
PRINTER I/F
311
SCANNER I/F
313
IMAGE PROCESSING UNIT
317
316 CONTROLLER UNIT
PRINTER UNIT
312
SCANNER UNIT
314
LAN
PUBLIC LINE NETWORK

FIG. 4

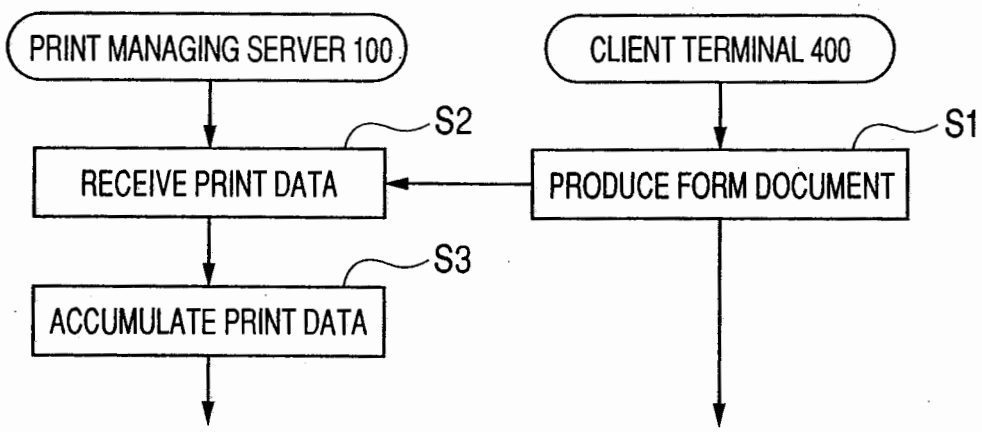


FIG. 5

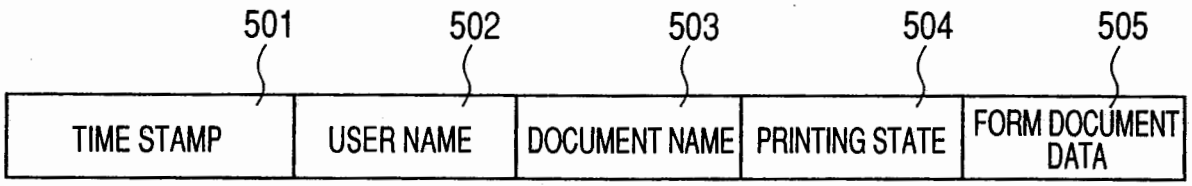


FIG. 6

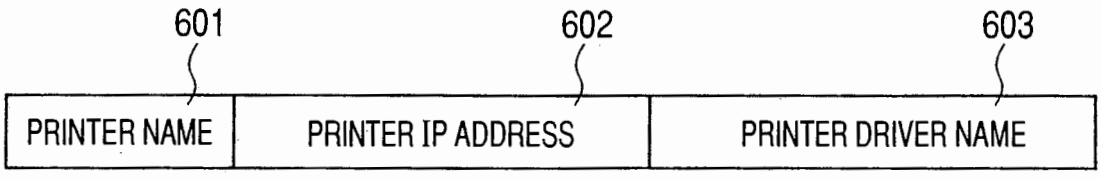


FIG. 7

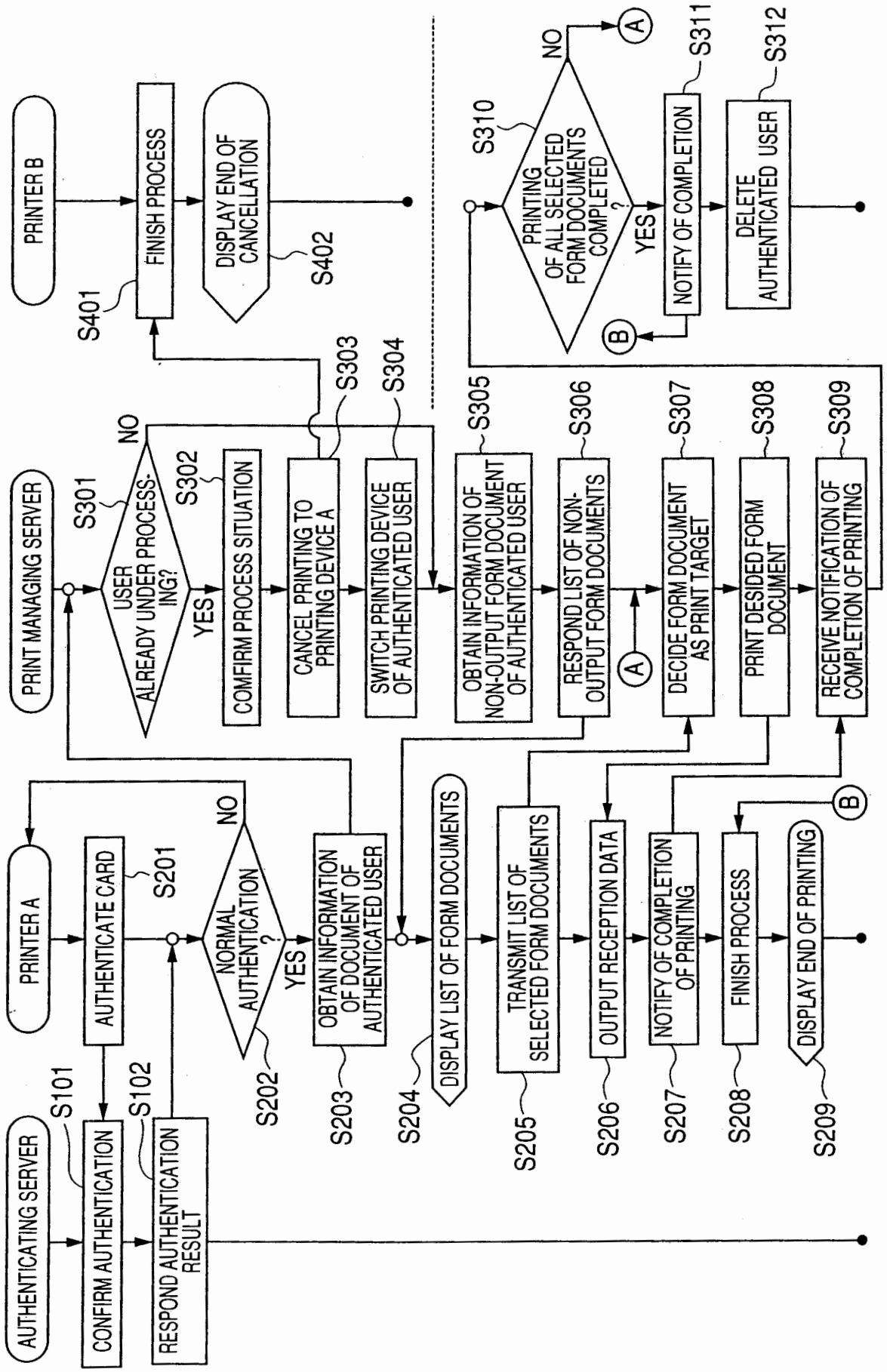

AUTHENTICATING SERVER
PRINTER A
PRINT MANAGING SERVER
PRINTER B
AUTHENTICATE CARD
CONFIRM AUTHENTICATION
RESPOND AUTHENTICATION RESULT
NORMAL AUTHENTICATION ?
OBTAIN INFORMATION OF DOCUMENT OF AUTHENTICATED USER
DISPLAY LIST OF FORM DOCUMENTS
TRANSMIT LIST OF SELECTED FORM DOCUMENTS
OUTPUT RECEPTION DATA
NOTIFY OF COMPLETION OF PRINTING
FINISH PROCESS
DISPLAY END OF PRINTING
USER ALREADY UNDER PROCESSING?
COMFIRM PROCESS SITUATION
CANCEL PRINTING TO PRINTING DEVICE A
SWITCH PRINTING DEVICE OF AUTHENTICATED USER
OBTAIN INFORMATION OF NON-OUTPUT FORM DOCUMENT OF AUTHENTICATED USER
RESPOND LIST OF NON-OUTPUT FORM DOCUMENTS
DECIDE FORM DOCUMENT AS PRINT TARGET
PRINT DESIDED FORM DOCUMENT
RECEIVE NOTIFICATION OF COMPLETION OF PRINTING
PRINTING OF ALL SELECTED FORM DOCUMENTS COMPLETED ?
NOTIFY OF COMPLETION
DELETE AUTHENTICATED USER
FINISH PROCESS
DISPLAY END OF CANCELLATION
S101
S102
S201
S202
S203
S204
S205
S206
S207
S208
S209
S301
S302
S303
S304
S305
S306
S307
S308
S309
S310
S311
S312
S401
S402
NO
YES
A
B

FIG. 8

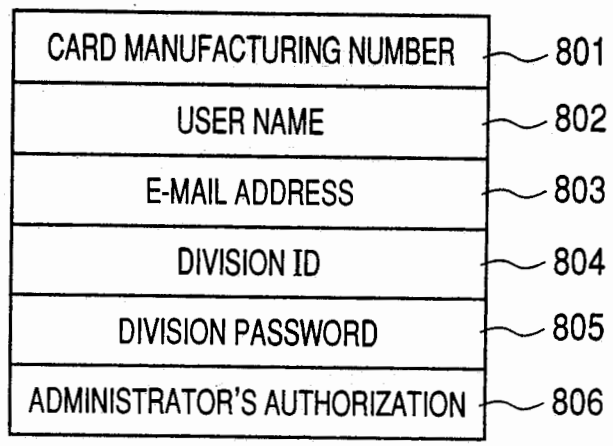

CARD MANUFACTURING NUMBER
801
USER NAME
802
E-MAIL ADDRESS
803
DIVISION ID
804
DIVISION PASSWORD
805
ADMINISTRATOR'S AUTHORIZATION
806

FIG. 9

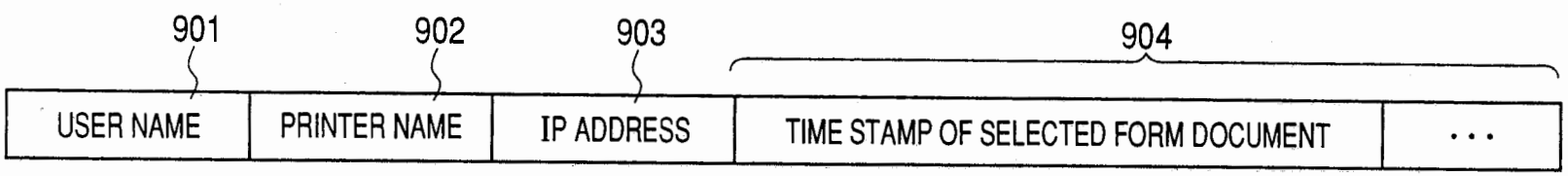

901
902
903
904
USER NAME
PRINTER NAME
IP ADDRESS
TIME STAMP OF SELECTED FORM DOCUMENT
• • •

FIG. 10

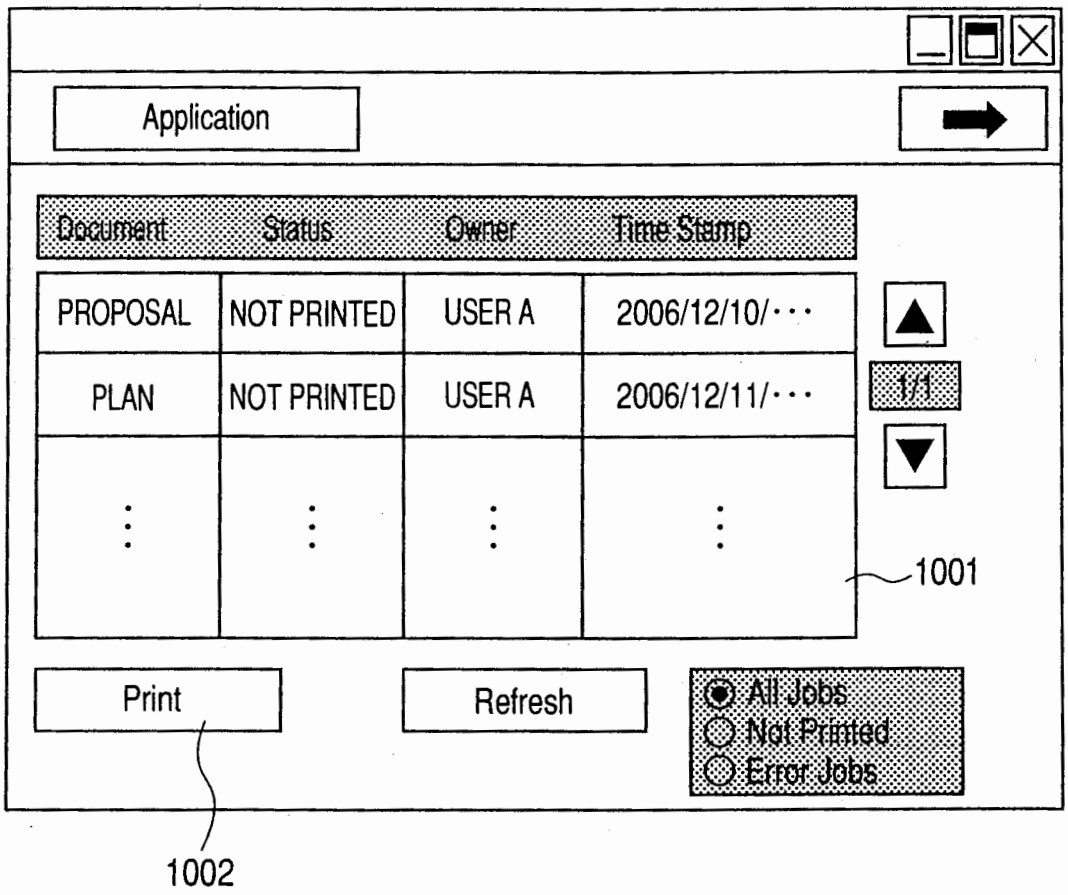
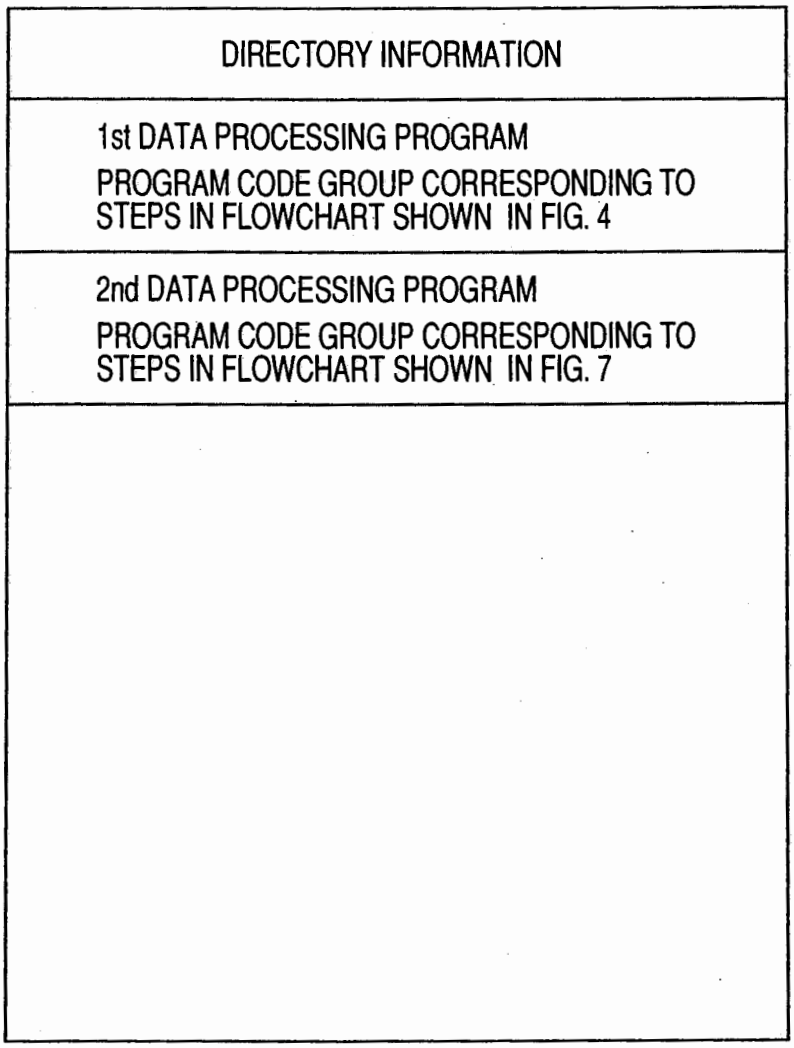


FIG. 11

PRINTER NAME	IP ADDRESS	PRESENCE/ABSENCE OF DISPLAY UNIT
PRINTER A	10. 120. 10. 1	PRESENCE OF DISPLAY UNIT
PRINTER B	10. 120. 10. 2	ABSENCE OF DISPLAY UNIT
PRINTER C	10. 120. 10. 3	PRESENCE OF DISPLAY UNIT

FIG. 12


DIRECTORY INFORMATION
1st DATA PROCESSING PROGRAM
PROGRAM CODE GROUP CORRESPONDING TO STEPS IN FLOWCHART SHOWN IN FIG. 4
2nd DATA PROCESSING PROGRAM
PROGRAM CODE GROUP CORRESPONDING TO STEPS IN FLOWCHART SHOWN IN FIG. 7