FIG. 1

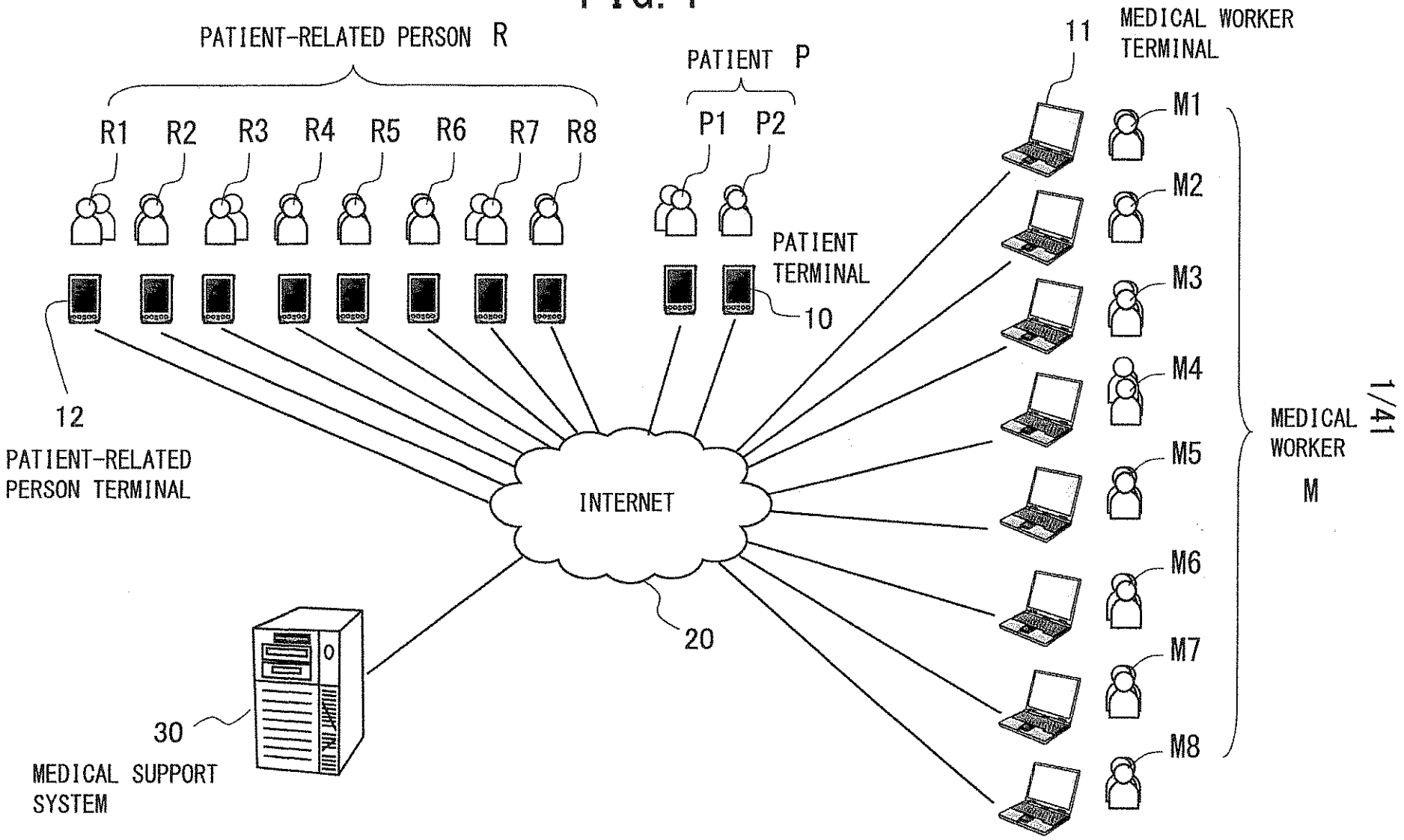

PATIENT-RELATED PERSON R
R1
R2
R3
R4
R5
R6
R7
R8
PATIENT P
P1
P2
PATIENT TERMINAL
10
11
MEDICAL WORKER TERMINAL
M1
M2
M3
M4
M5
M6
M7
M8
MEDICAL WORKER M
12
PATIENT-RELATED PERSON TERMINAL
INTERNET
20
30
MEDICAL SUPPORT SYSTEM

FIG. 2

MUTUAL RELATIONSHIPS AMONG USERS OF MEDICAL SUPPORT SERVICE

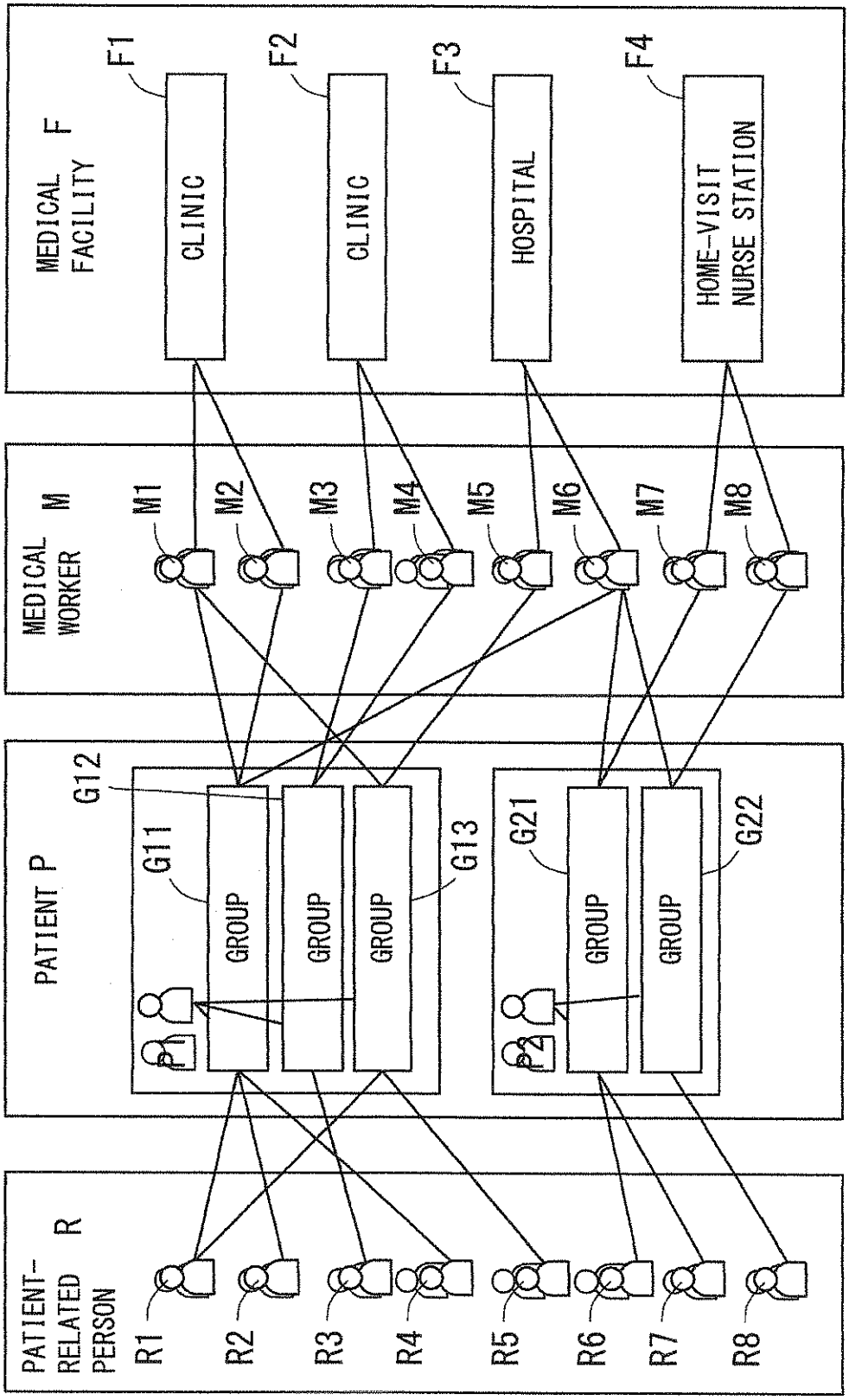


FIG. 3

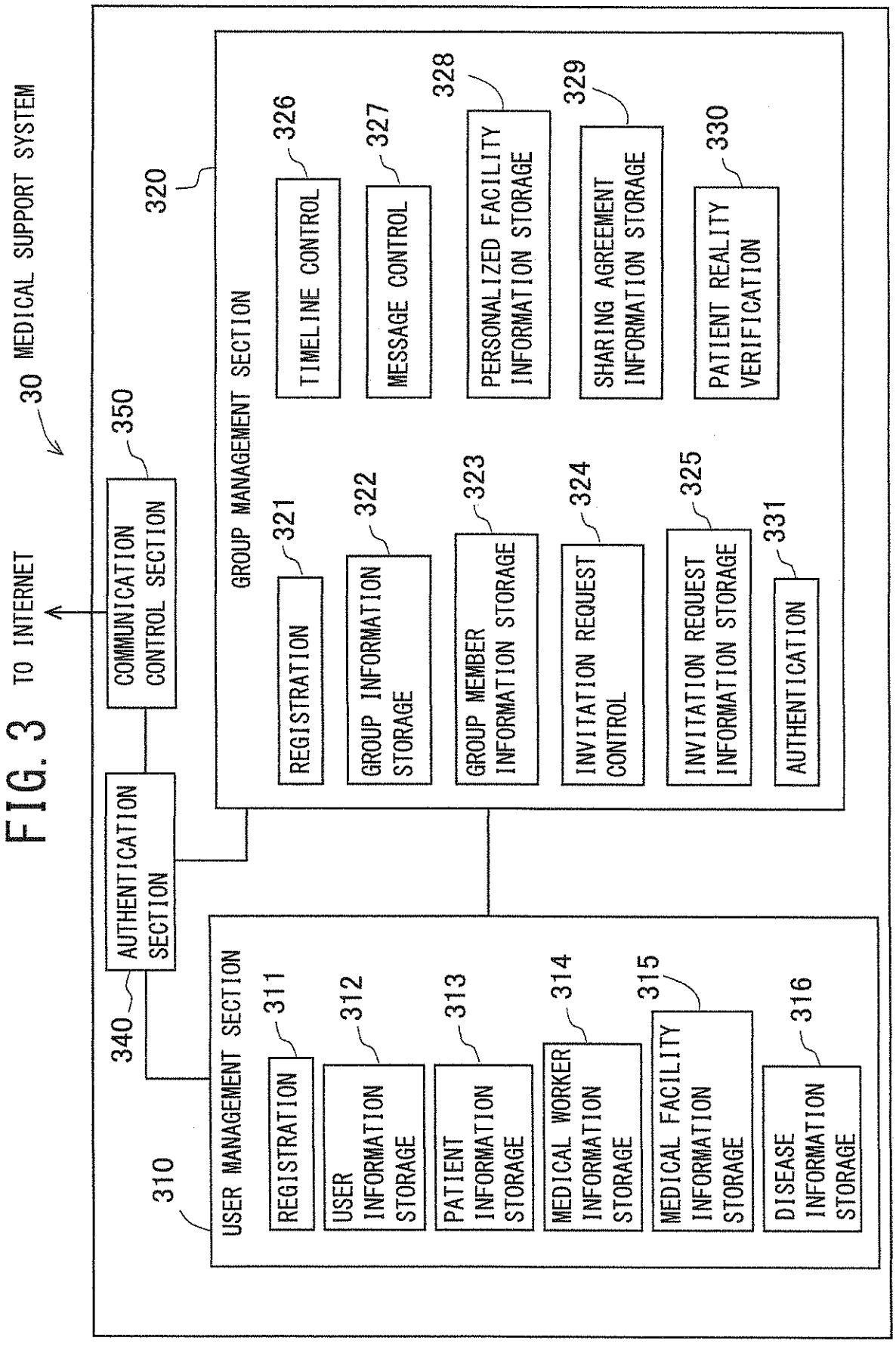

30 MEDICAL SUPPORT SYSTEM
TO INTERNET
COMMUNICATION CONTROL SECTION
350
AUTHENTICATION SECTION
340
320
GROUP MANAGEMENT SECTION
TIMELINE CONTROL
326
MESSAGE CONTROL
327
PERSONALIZED FACILITY INFORMATION STORAGE
328
SHARING AGREEMENT INFORMATION STORAGE
329
PATIENT REALITY VERIFICATION
330
REGISTRATION
321
GROUP INFORMATION STORAGE
322
GROUP MEMBER INFORMATION STORAGE
323
INVITATION REQUEST CONTROL
324
INVITATION REQUEST INFORMATION STORAGE
325
AUTHENTICATION
331
310
USER MANAGEMENT SECTION
REGISTRATION
311
USER INFORMATION STORAGE
312
PATIENT INFORMATION STORAGE
313
MEDICAL WORKER INFORMATION STORAGE
314
MEDICAL FACILITY INFORMATION STORAGE
315
DISEASE INFORMATION STORAGE
316

FIG. 4A

USER TABLE

USER ID	LOGIN ID	PW	REG. DATE	STATUS
100	sumida@test.com	tKswU8yq	2012/12/10	effective
200	nozaki@test.com	fvXEd5Re	2012/11/20	efective
300	yamada@test.com	acD1V5tp	2012/12/25	efective

FIG. 4B

PATIENT TABLE

PATIENT ID	USER ID	NAME	GENDER	BIRTHDATE	E-MAIL	ADDRESS	TEL.
1	100	Hisae SUMIDA	female	1945/7/18	sumida@test.com	1-2-3 Chuo-cho, Meguro-ku	03-1234-5678

FIG. 4C

MEDICAL WORKER TABLE

WORKER ID	UESR ID	FACILITY ID	NAME	GENDER	BIRTHDATE	OCCUPATION
1	200	1000	Taro NOZAKI	male	1963/8/5	physician

FIG. 4D

MEDICAL FACILITY TABLE

FACILITY ID	NAME	TYPE	TREAEMENT SUBJECT	ADDRESS	TEL.
1000	Nozaki Clinic	medical clinic	Internal, Surgery, Psychosomatic, Psychiatry	1-2-3, Monzennakacho, Koto-ku	03-2345-6789

HP	CONSUL HOUR	STATION
http://www.nozaki-hp.xxx	Weekday: 10-18 Closed: Sun, Hol	Monzen-nakacho

FIG. 5A

MEDICAL FACILITY PATIENT TABLE

FAC. PATIENT ID	FAC. ID	PAT. ID	APPROVAL	PAT. NO.	NAME	GENDER	BIRTHDATE
101	1000	1	Yes	123	Hisae SUMIDA	female	1945/7/18

INSURANCE	FINAL CHECK-UP	ADDRESS	TEL	E-MAIL	PASSCODE
National Health	2012/12/25	1-2-3, Chuo-cho, Meguro-ku	03-1234-5678	sumida@test.com	srXjR7L2dBmnwO2psAyte

FIG. 5B

DISEASE TABLE

DISEASE ID	FACILITY PATIENT ID	DISEASE NAME
1	101	Alzheimer

FIG. 5C

GROUP TABLE

GROUP ID	GROUP NAME	DISEASE ID
10001	Alzheimer treatment	1

FIG. 5D

GROUP PARTICIPATION TABLE

GROUP PART. ID	USER ID	GROUP ID	ACCESIBLE TIMELINE
1	100	10001	C2
2	200	10001	C1,C2

FIG. 6A

INVITATION REQUEST TABLE

INV. REQUEST ID	SOURCE USER ID	DESTINATION USER ID	APPROVAL	PERMISSION
1	200	201	approved	permitted

DESTINATION E-MAIL	PASSPHRASE	GROUP ID	ACCESSIBLE TIMELINE
yamanaka@test.com	Nickmane is racoon dog	10001	C1,C2

FIG. 6B

TIMELINE TABLE

TIMELINE ID	GROUP ID	TYIPE NAME
1	10001	M. WORKER SIDE
2	10001	PATIENT SIDE

FIG. 6C

MEDICAL IMFORMATION SHARING RULE TABLE

USER ID	FACILITU ID	SHARING RULE NAME
100	1000	In Facility
100	1001	Comprehensively

FIG. 6D

NFC TERMINAL TABLE

FACILITY ID	TERMINAL NO.	FAC. PATIENT ID	PASSCODE
1000	3079372621	101	srXjR7L2dBmnwO2psAyte
1001	2850365002	102	TixIR5Bv3Elshei8Wegkese

FIG. 7A

MESSAGE TRANSMISSION RESERVATION TABLE

RESERV. ID	DESTINATION USER ID	SOURCE USER ID	MESSAGE	SCHEDULED DATE
1	200	100	3 days passed from drug prescription. Do you take it as instructed?	2012/12/29

FIG. 7B

PATIENT ATTRIBUTE TABLE

ATTR. ID	PATIENT ID	ATTR. NAME	VALUE
1	101	medical examination guide in 2013	Yet

FIG. 8

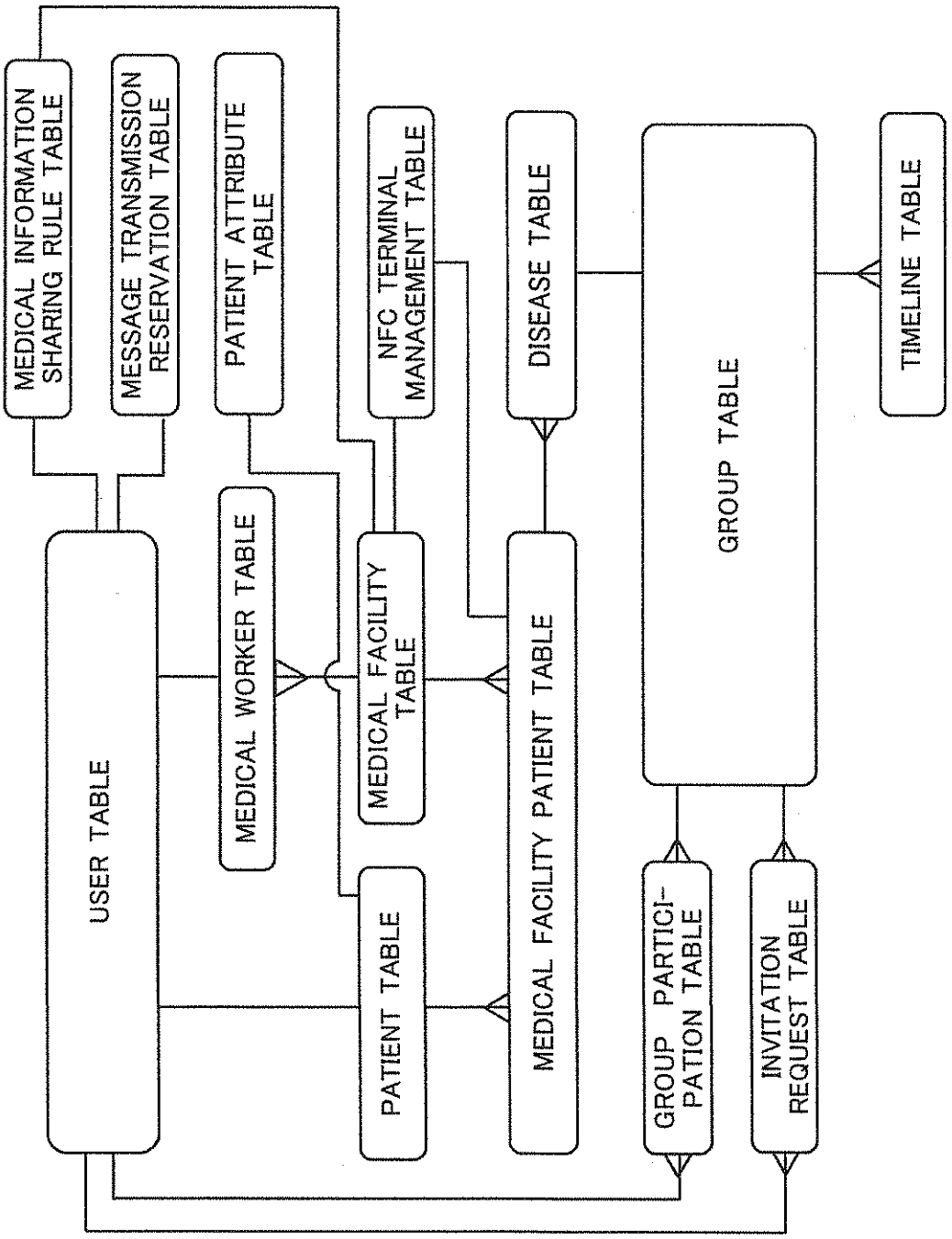

MEDICAL INFORMATION SHARING RULE TABLE
MESSAGE TRANSMISSION RESERVATION TABLE
PATIENT ATTRIBUTE TABLE
NFC TERMINAL MANAGEMENT TABLE
DISEASE TABLE
TIMELINE TABLE
USER TABLE
MEDICAL WORKER TABLE
MEDICAL FACILITY TABLE
GROUP TABLE
PATIENT TABLE
MEDICAL FACILITY PATIENT TABLE
GROUP PARTICI-PATION TABLE
INVITATION REQUEST TABLE

FIG. 9

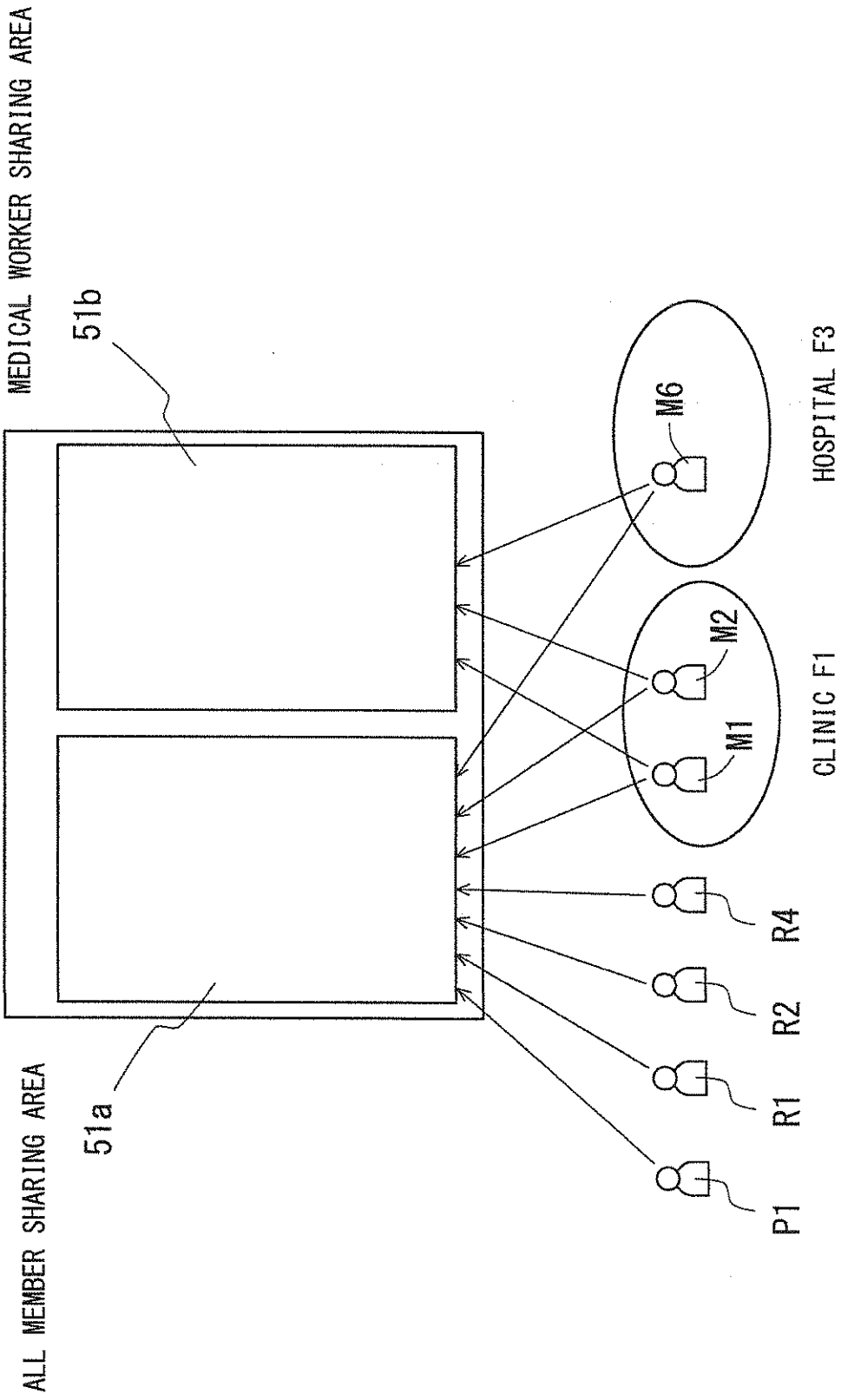

51 TIMELINE OF GROUP G11
MEDICAL WORKER SHARING AREA
51b
51a
ALL MEMBER SHARING AREA
M6
HOSPITAL F3
M2
M1
CLINIC F1
R4
R2
R1
P1

FIG. 10

OPERATION FLOW OF
NEW USER REGISTRATION

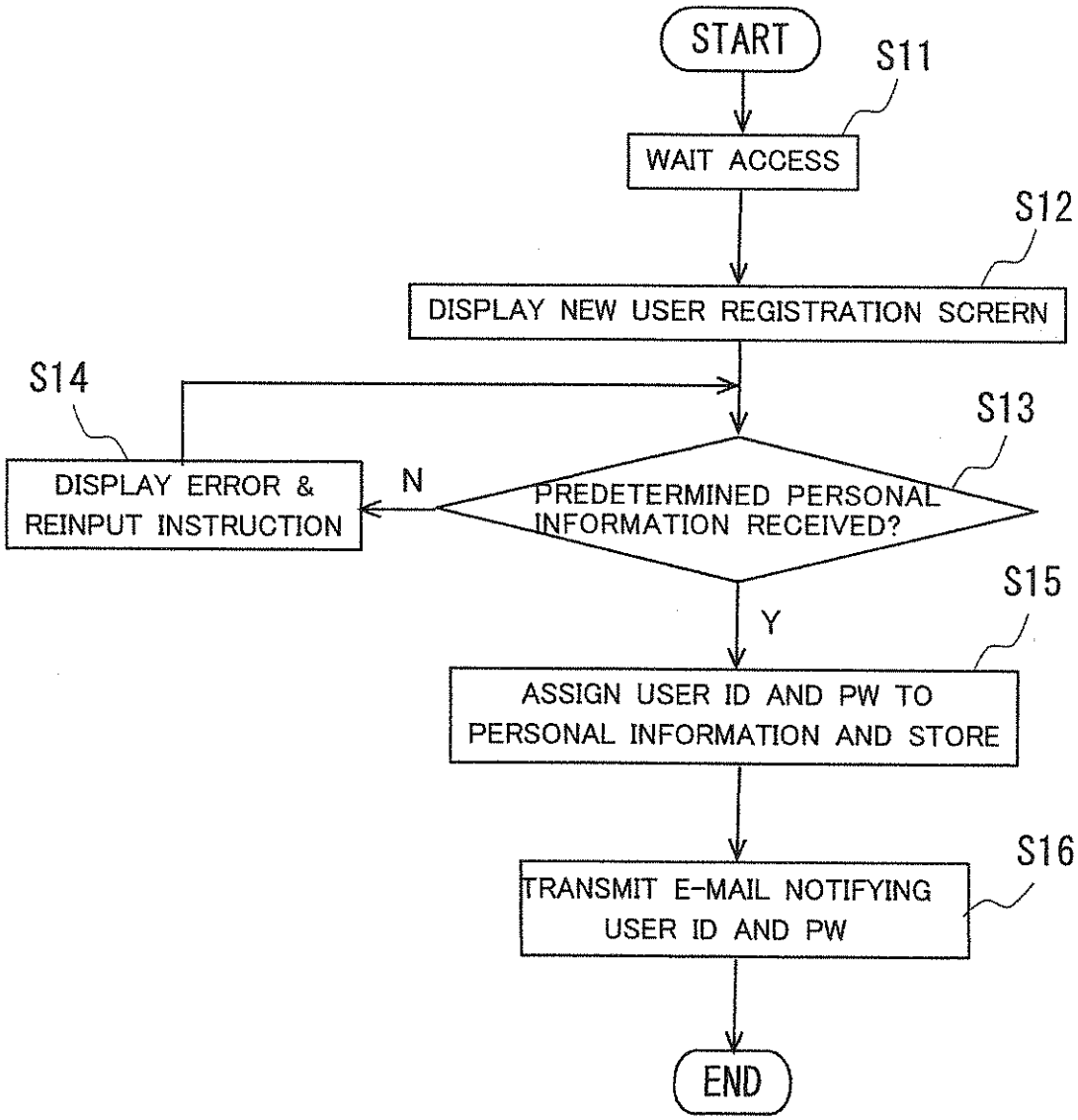


FIG. 11A

OPERATION FLOW OF
NEW PATIENT REGISTRATION

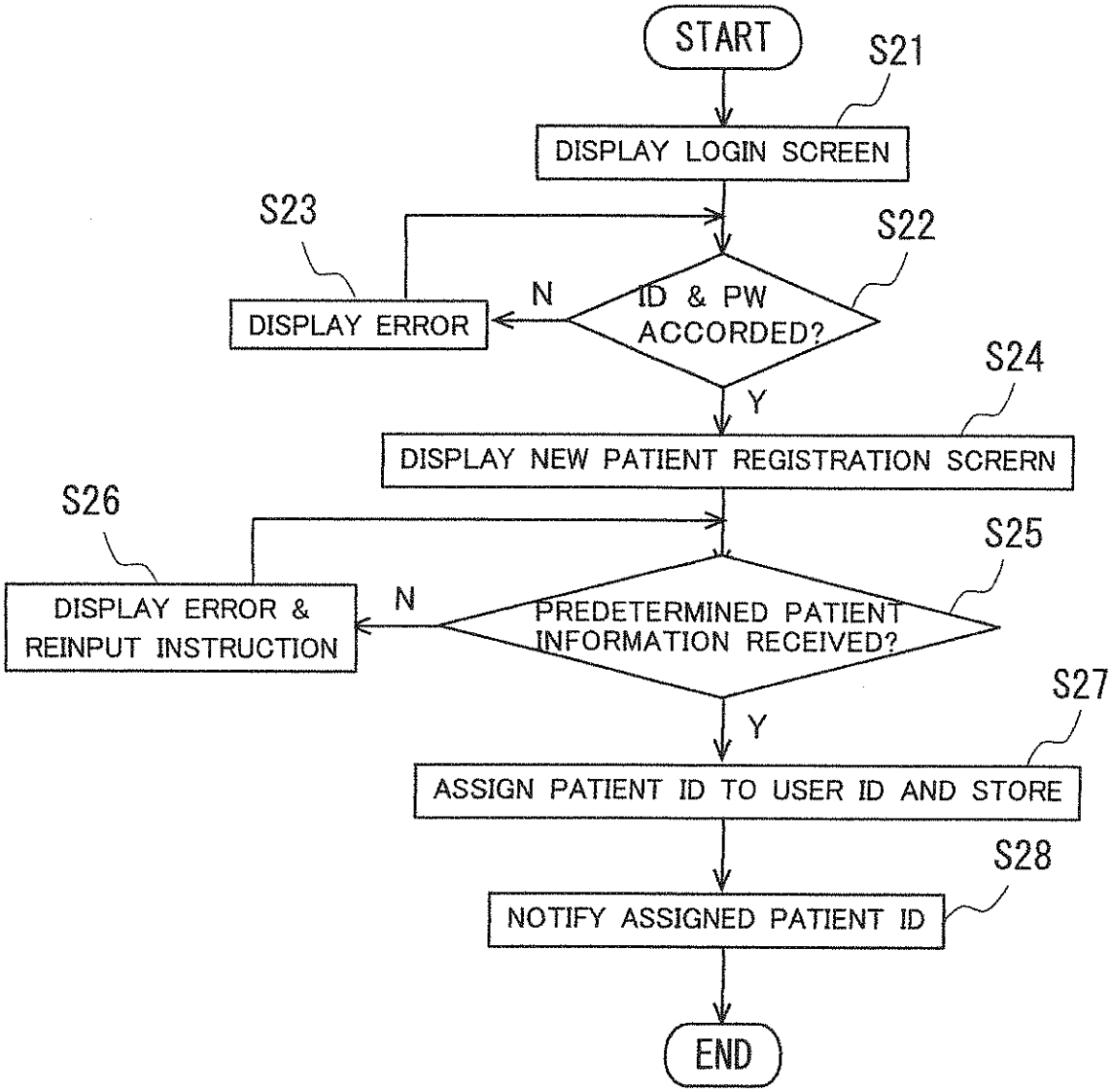


FIG. 11B

OPERATION FLOW OF
NEW MEDICAL WORKER
REGISTRATION

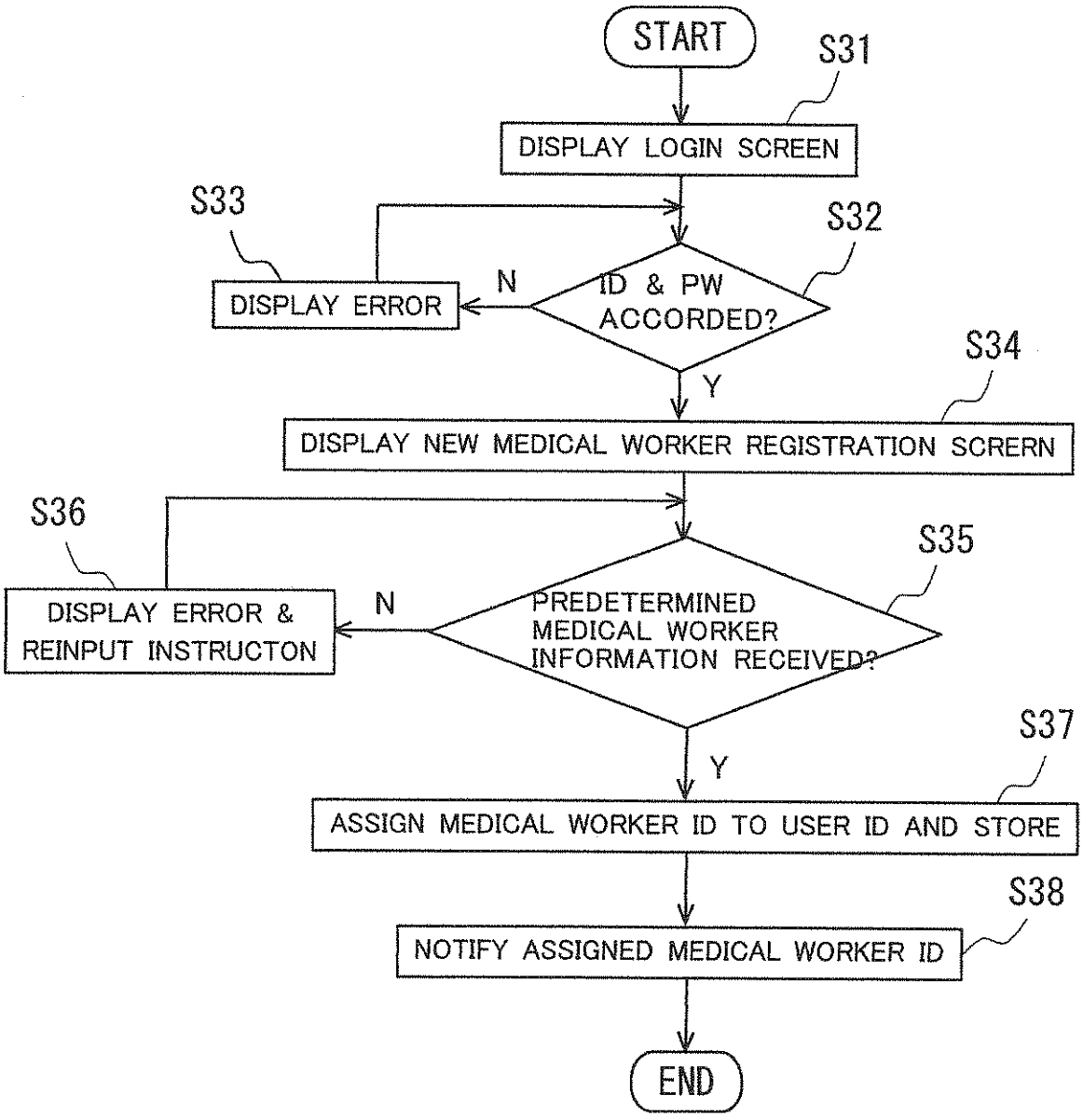


FIG. 12A

OPERATION FLOW OF PERSONALIZATION REGISTRATION BY MEDICAL WORKER

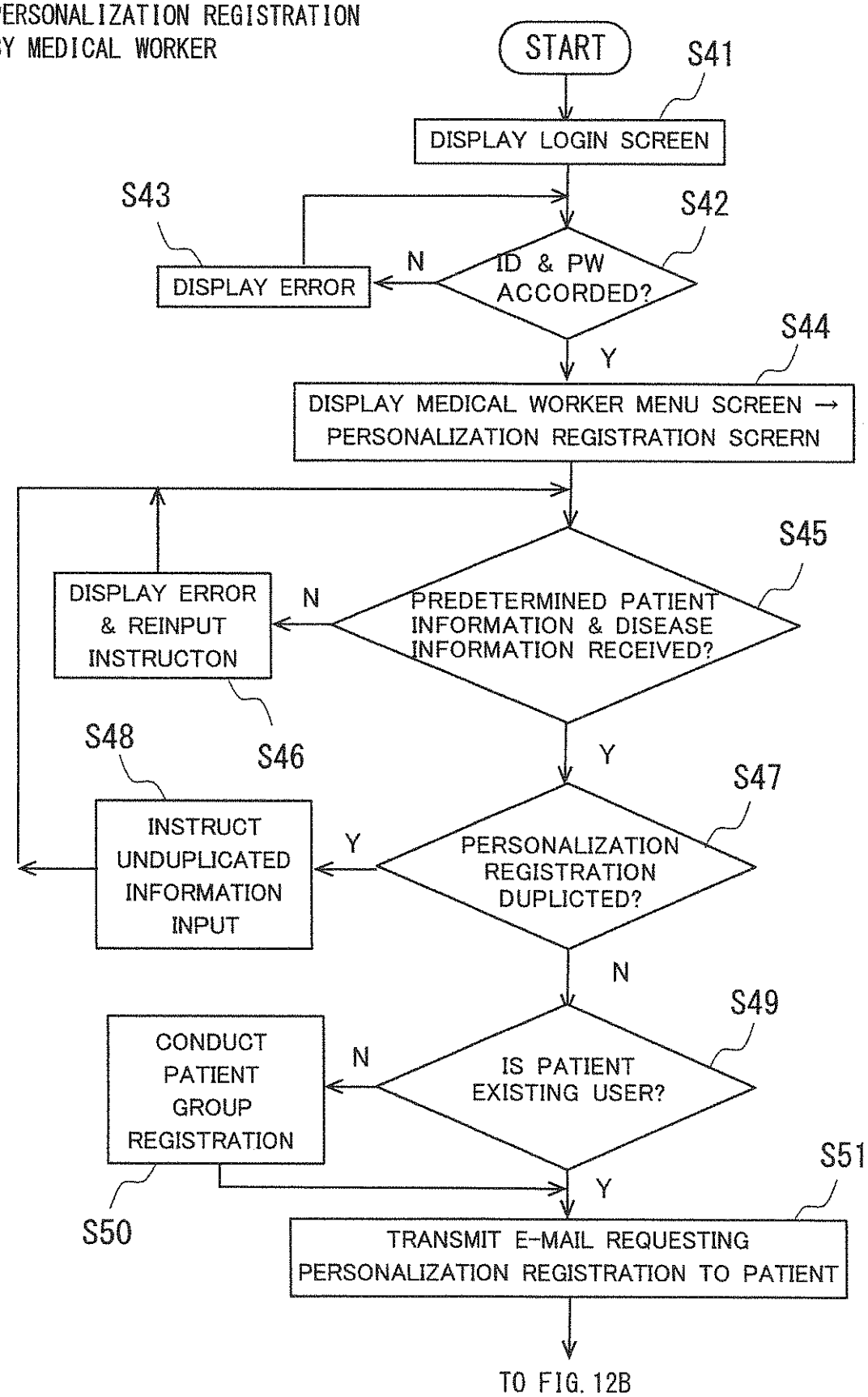
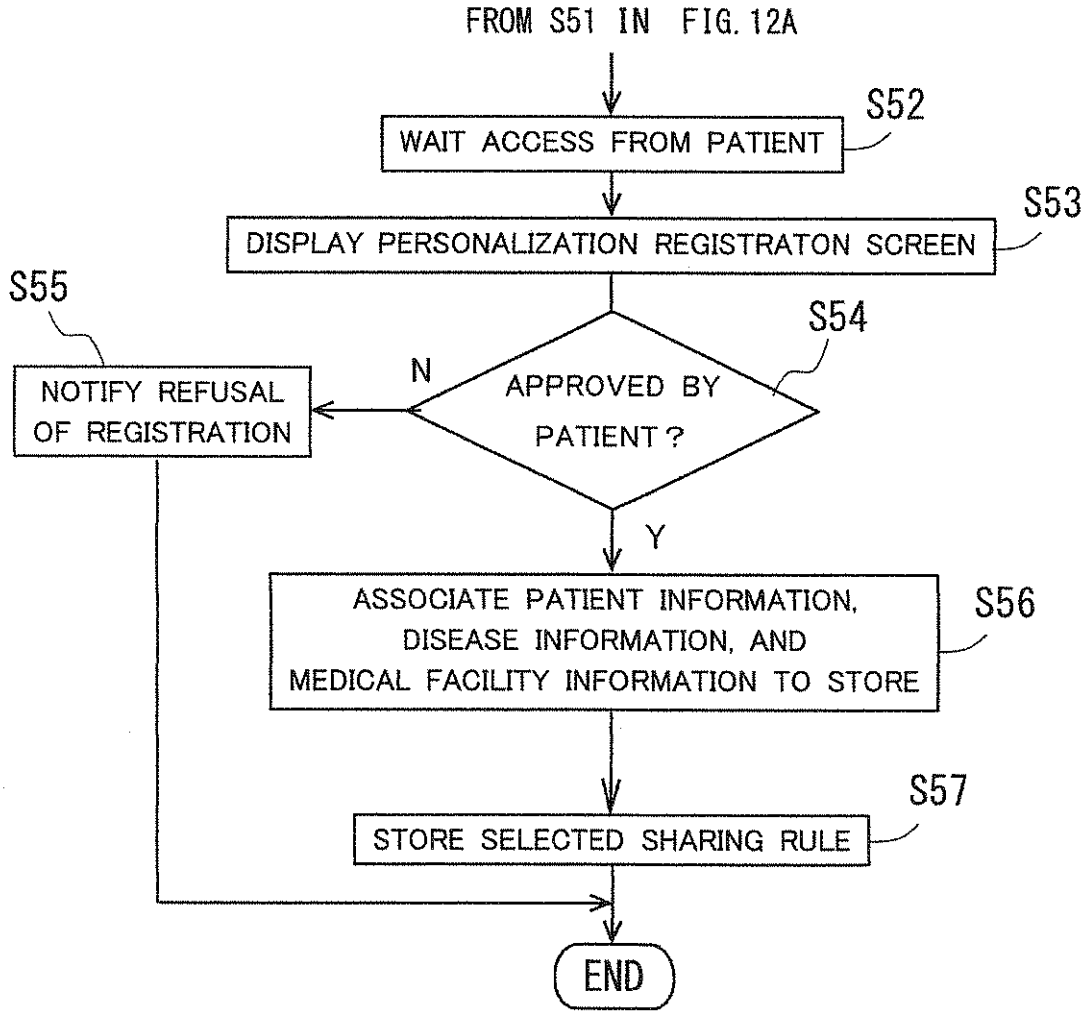


FIG. 12B

OPERATION FLOW OF
PERSONALIZATION REGISTRATION
BY MEDICAL WORKER (CONTINUED)



OPERATION FLOW OF PERSONALIZATION REGISTRATION BY PATIENT

FIG. 13A

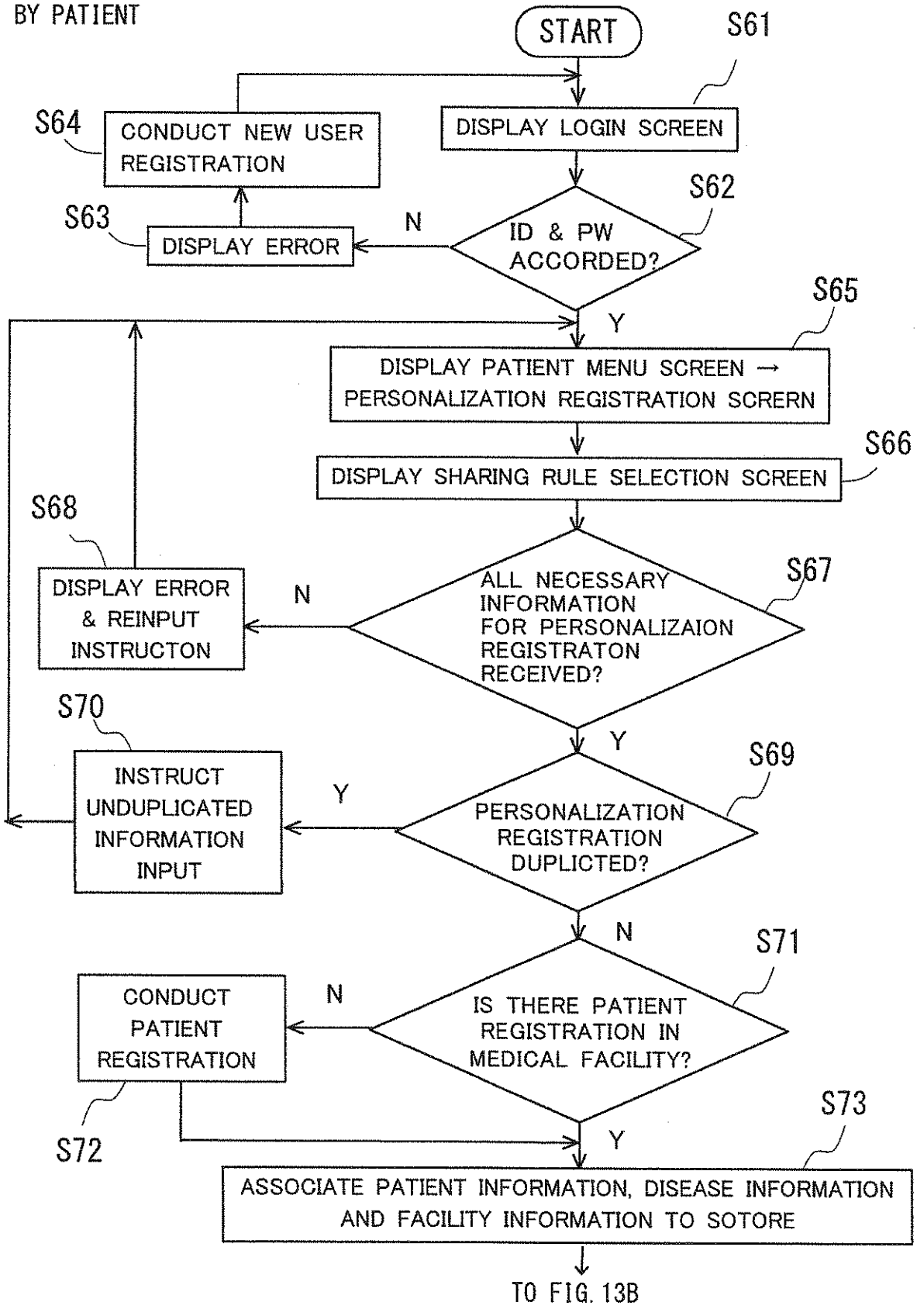


FIG. 13B

OPERATION FLOW OF
PERSONALIZATION REGISTRATION
BY PATIENT (CONTINUED)

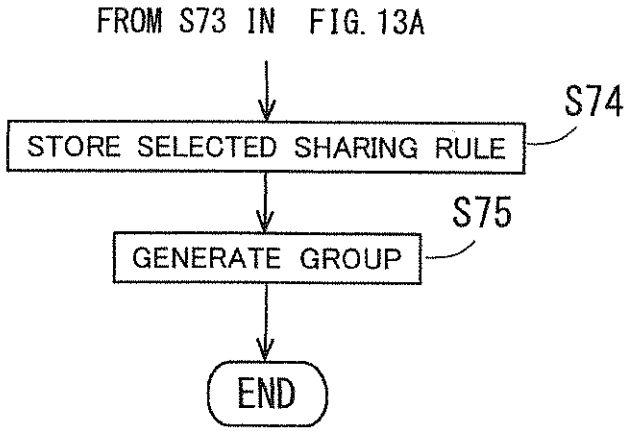


FIG. 14A

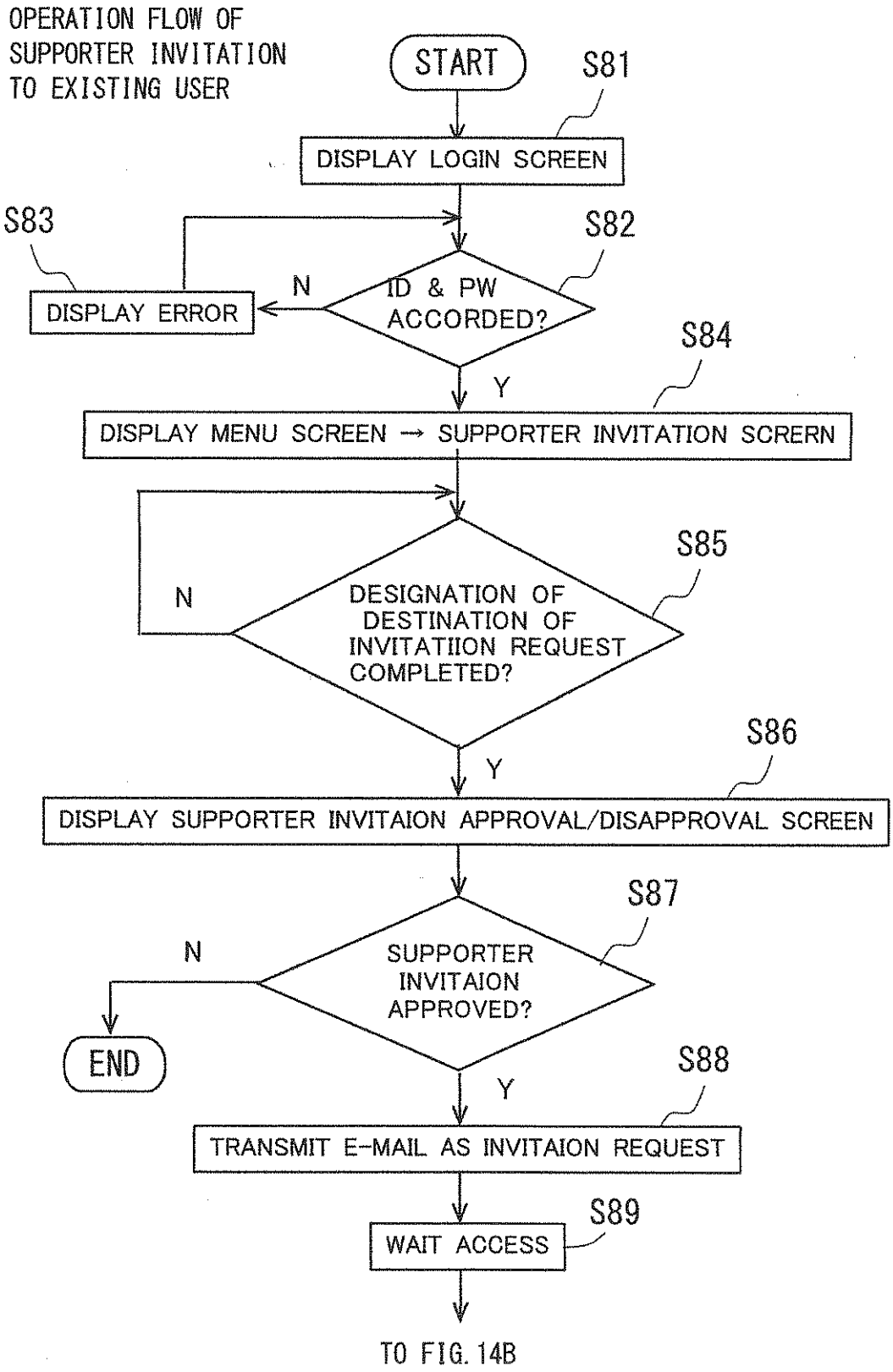

OPERATION FLOW OF SUPPORTER INVITATION TO EXISTING USER
START
S81
DISPLAY LOGIN SCREEN
S82
ID & PW ACCORDED?
N
S83
DISPLAY ERROR
Y
S84
DISPLAY MENU SCREEN → SUPPORTER INVITATION SCRERN
S85
DESIGNATION OF DESTINATION OF INVITATIION REQUEST COMPLETED?
N
Y
S86
DISPLAY SUPPORTER INVITAION APPROVAL/DISAPPROVAL SCREEN
S87
SUPPORTER INVITAION APPROVED?
N
END
Y
S88
TRANSMIT E-MAIL AS INVITAION REQUEST
S89
WAIT ACCESS
TO FIG. 14B

FIG. 14B

OPERATION FLOW OF
SUPPORTER INVITATION
TO EXISTING USER (CONTINUED)

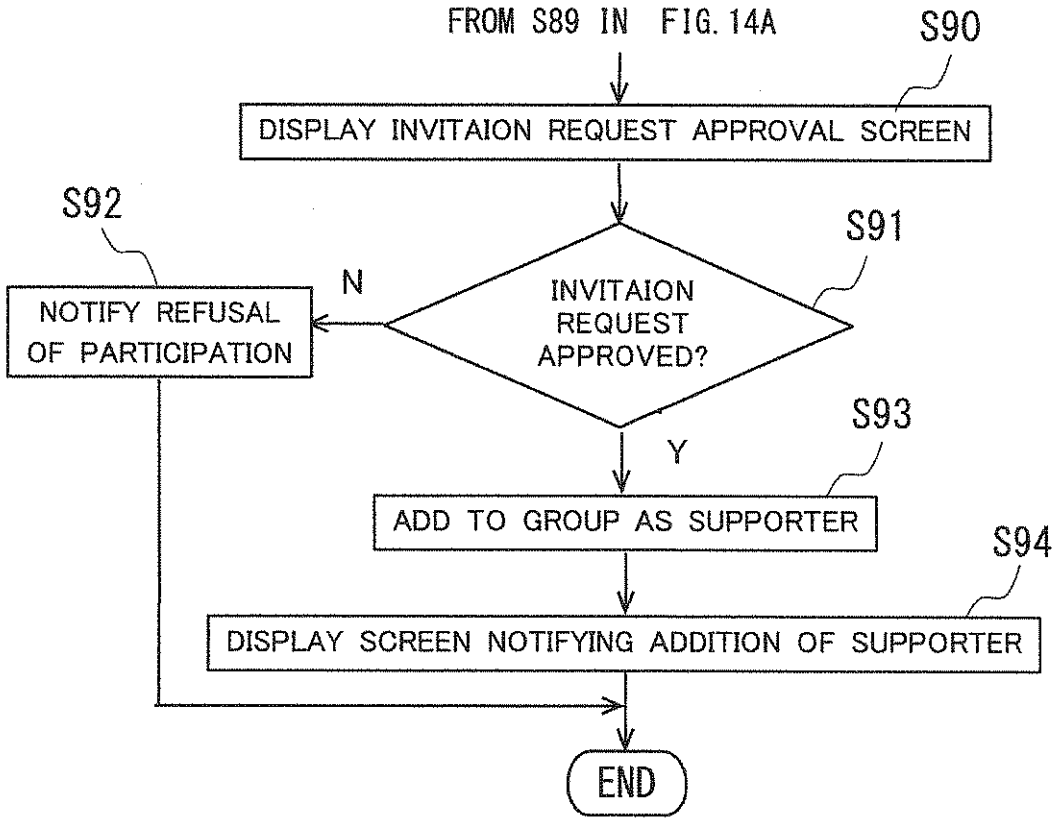
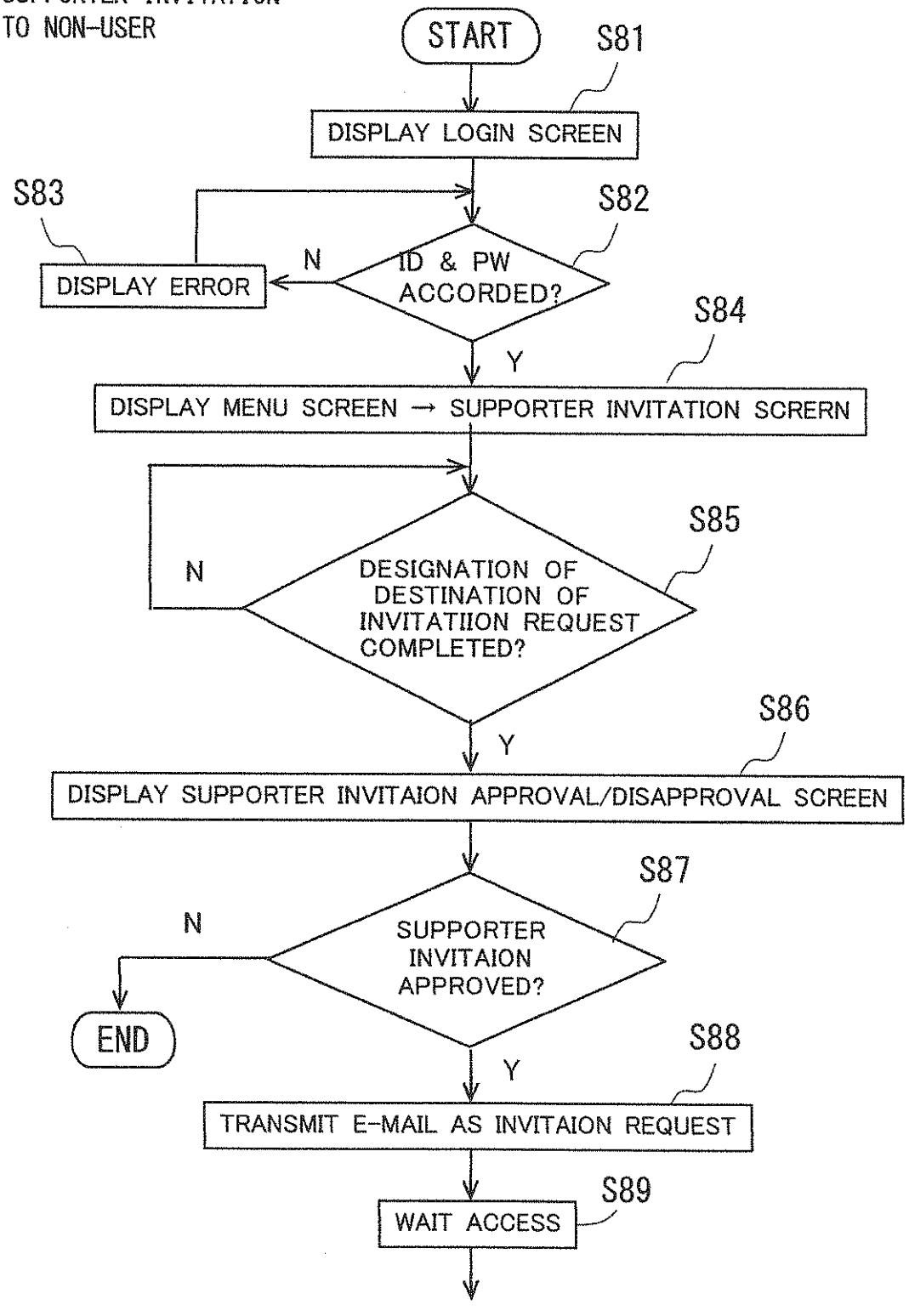


FIG. 15A

OPERATION FLOW OF SUPPORTER INVITATION TO NON-USER



TO FIG. 15B

FIG. 15B

OPERATION FLOW OF
SUPPORTER INVITATION
TO NON-USER (CONTINUED)

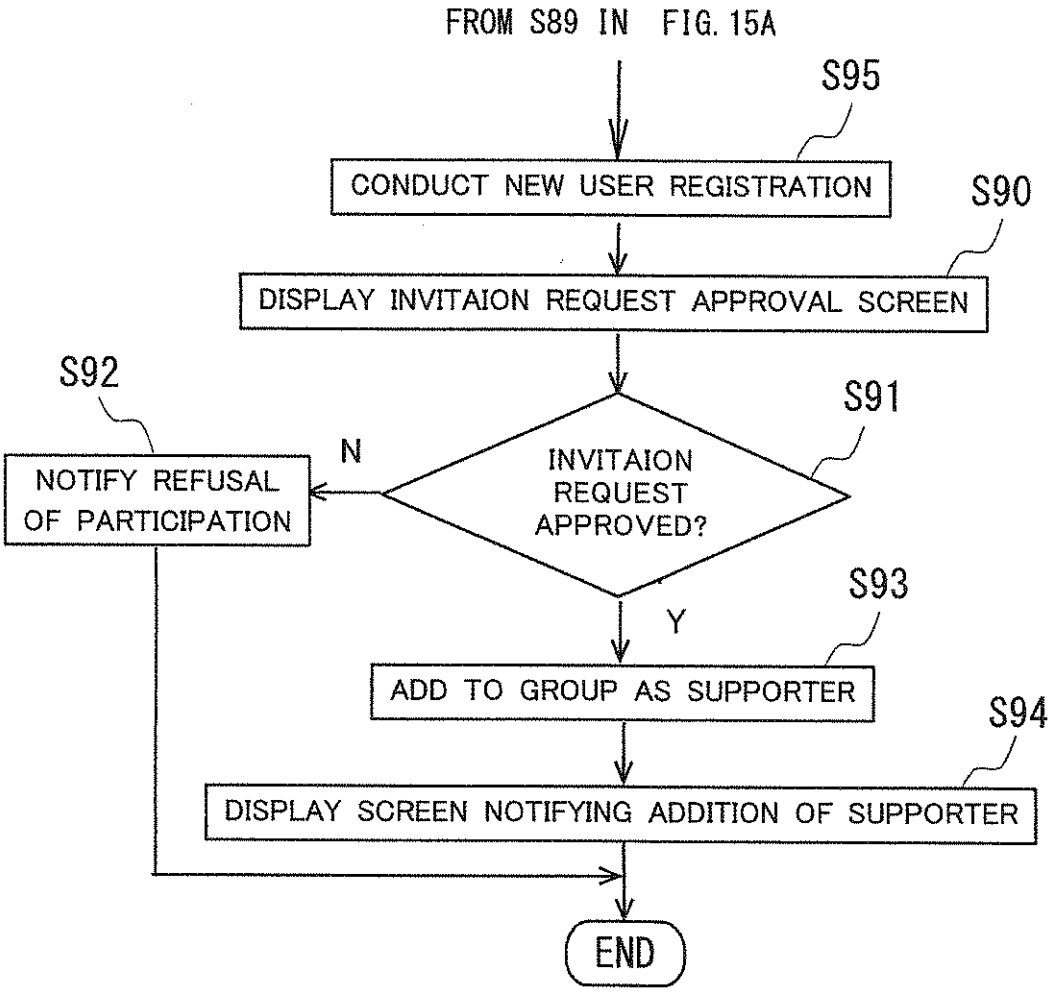


FIG. 16A

NEW USER REGISTRATION SCREEN

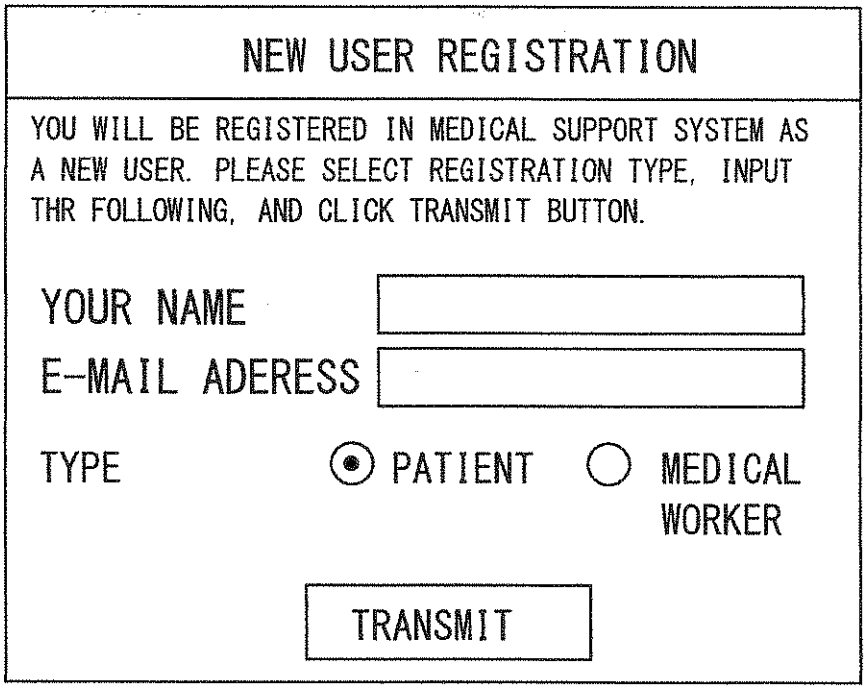


FIG. 16B

LOGIN SCREEN

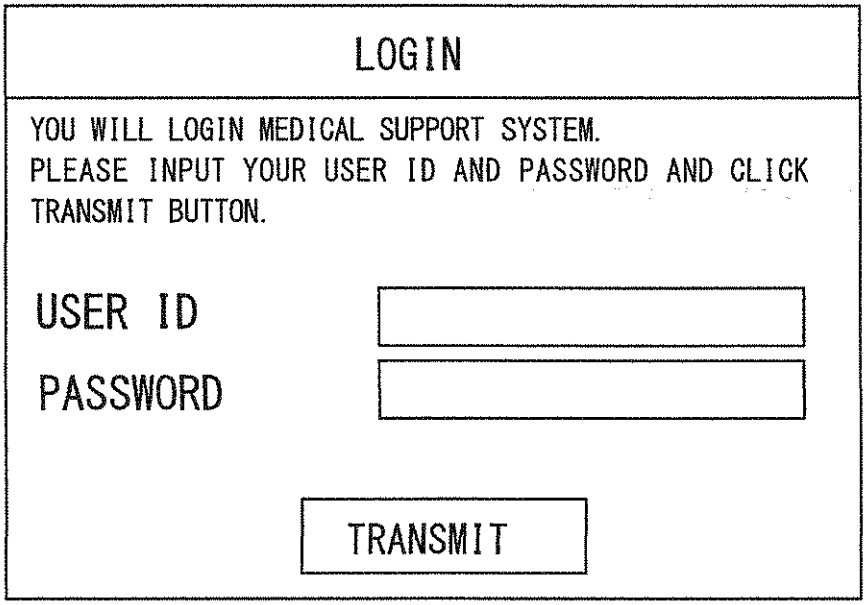


FIG. 17A

NEW PATIENT REGISTRATION SCREEN

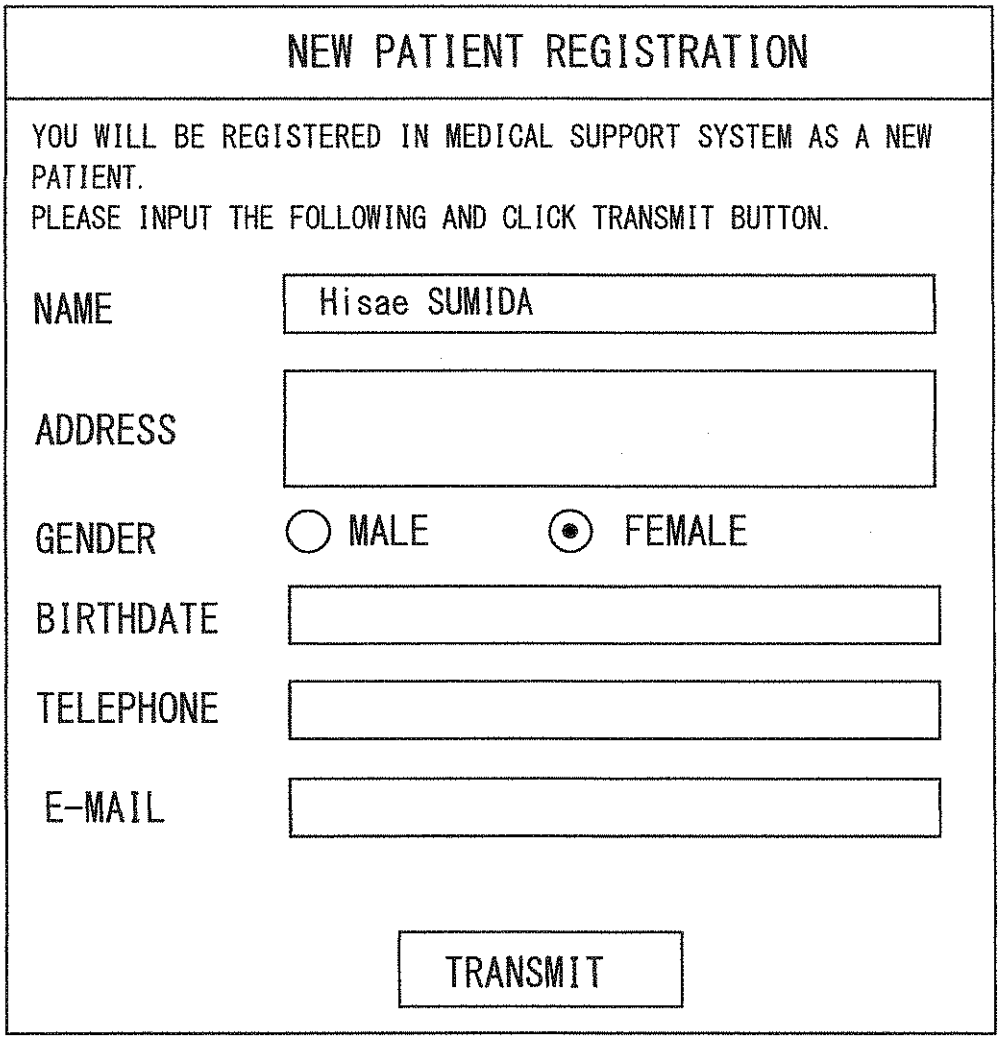


FIG. 17B

NEW MEDICAL WORKER REGISTRATION SCREEN

NEW MEDICAL WORKER REGISTRATION

YOU WILL BE REGISTERED IN MEDICAL SUPPORT SYSTEM AS A NEW MEDICAL WORKER.
PLEASE INPUT THE FOLLOWING AND CLICK TRANSMIT BUTTON.

NAME	Taro NOZAKI
GENDER	(•) MALE ( ) FEMALE
BIRTHDATE	
OCCUPATION	(•) PHYSICIAN ( ) NURSE ( ) OTHER
FACILITY NAME	
FACILITY TYPE	
TREATMENT SUBJECT	
FACILITY ADDRESS	
TELEPHONE	
HOME PAGE	
CONSULTATION HOUR	
NEAREST STATION	

TRANSMIT

FIG. 18

PERSONALIZATION REGISTRATION REQUEST SCREEN
UESD FOR REQUEST BY MEDICAL WORKER

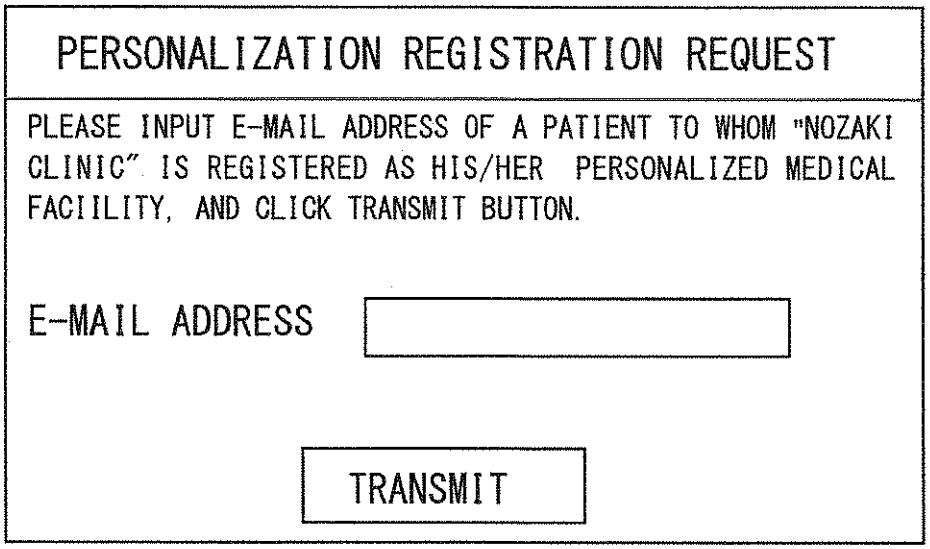


FIG. 19

APPROVAL SCREEN FOR PERSONALIZATION REGISTRATION REQUEST BY MEDICAL WORKER

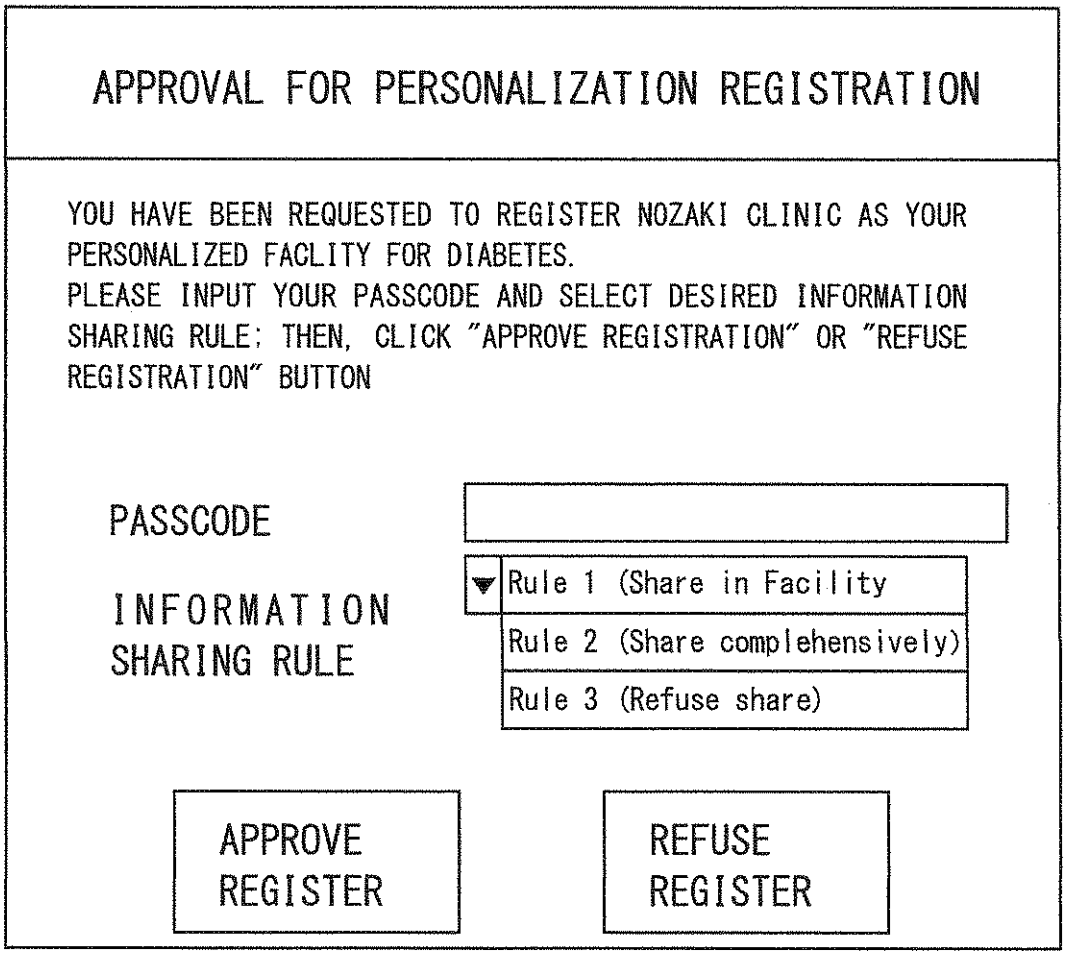


FIG. 20

PERSONALIZATION REGISTRATION REQUEST SCREEN
UESD FOR REQUEST BY PATIENT

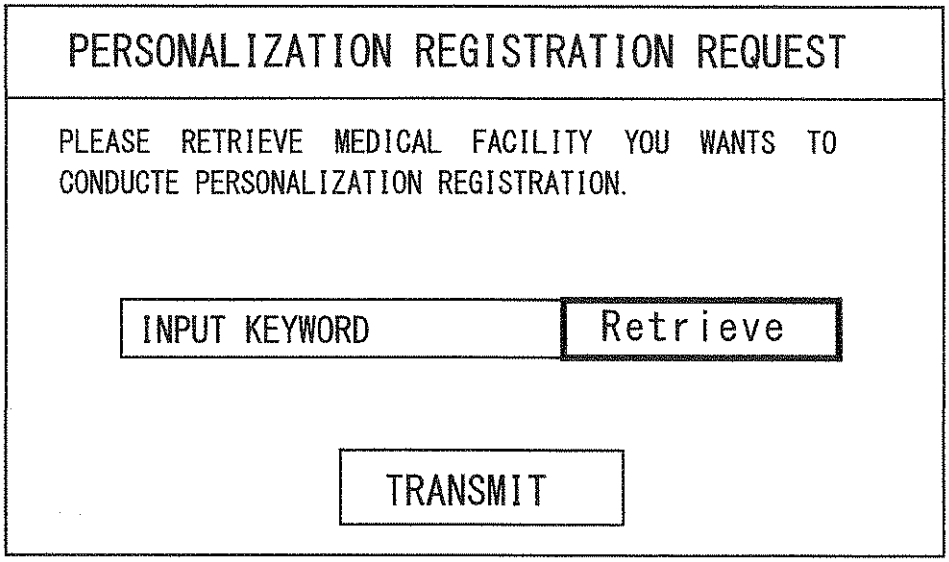


FIG. 21

RETRIEVAL RESULT SCREEN OF MEDICAL FACILITY USED FOR REQUEST BY PATIENT

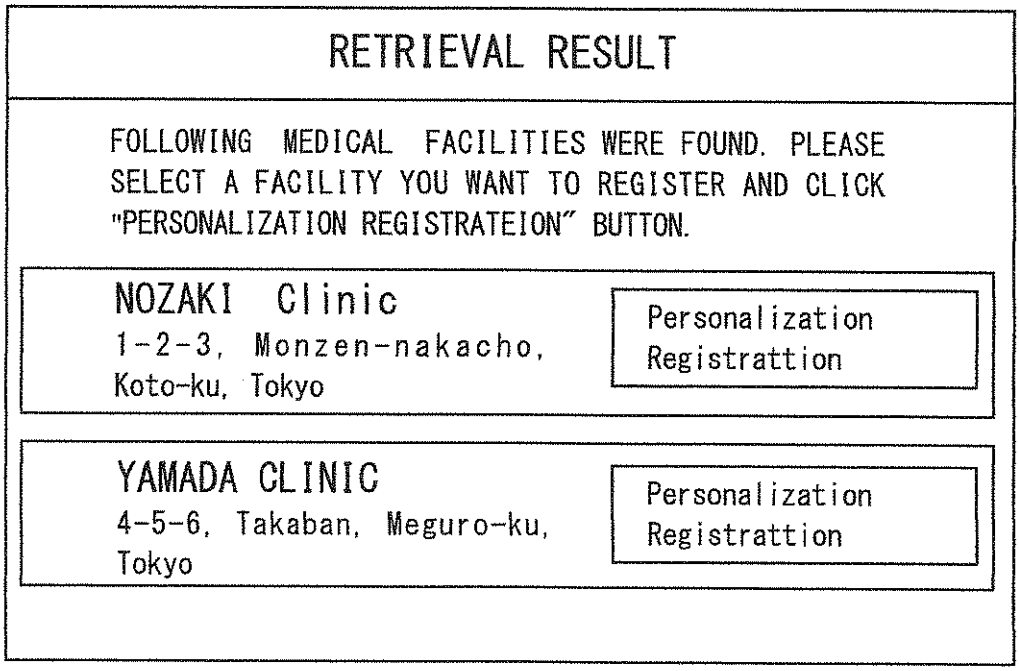


FIG. 22

CONFIRMATION SCREEN FOR PERSONALIZATION REGISTRATION REQUEST BY PATIENT

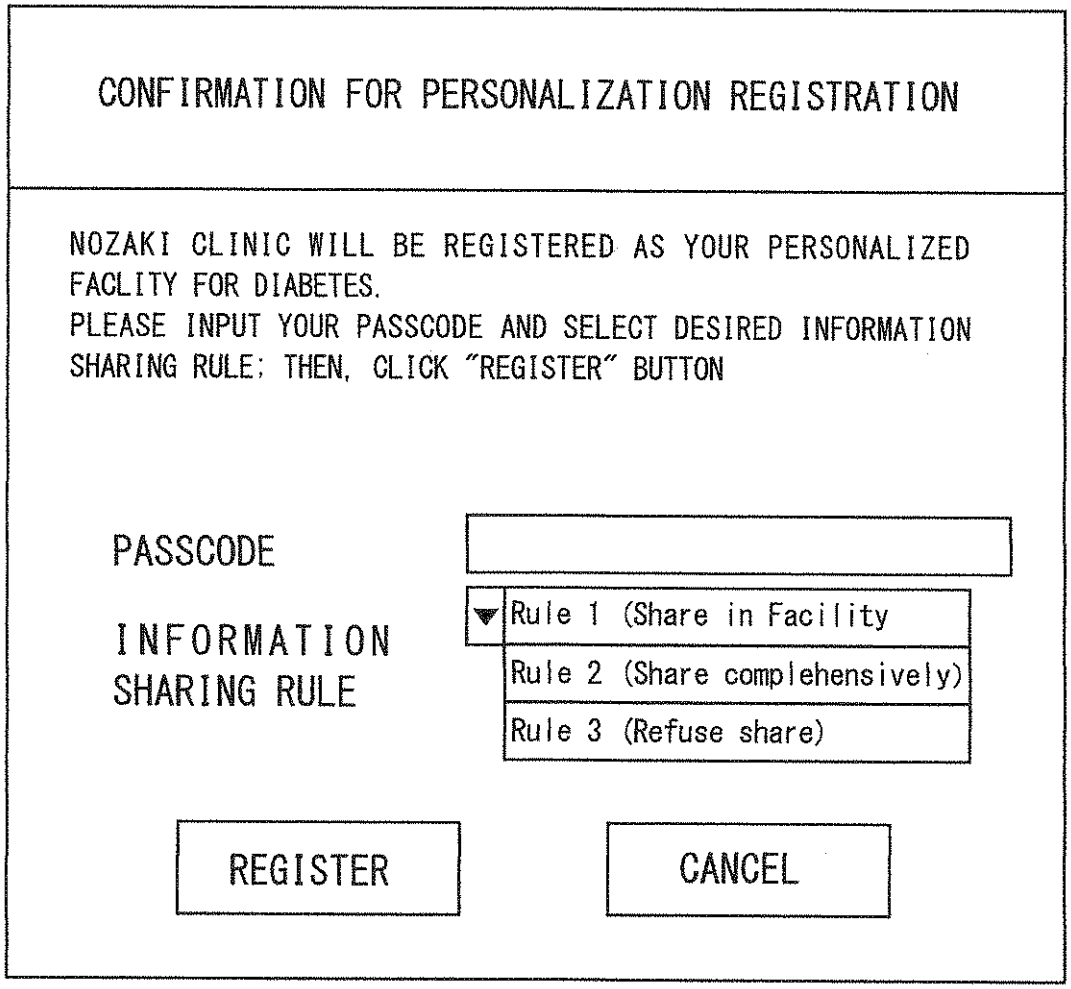


FIG. 23

SUPPORTER INVITATION SCREEN TO EXISTING USER

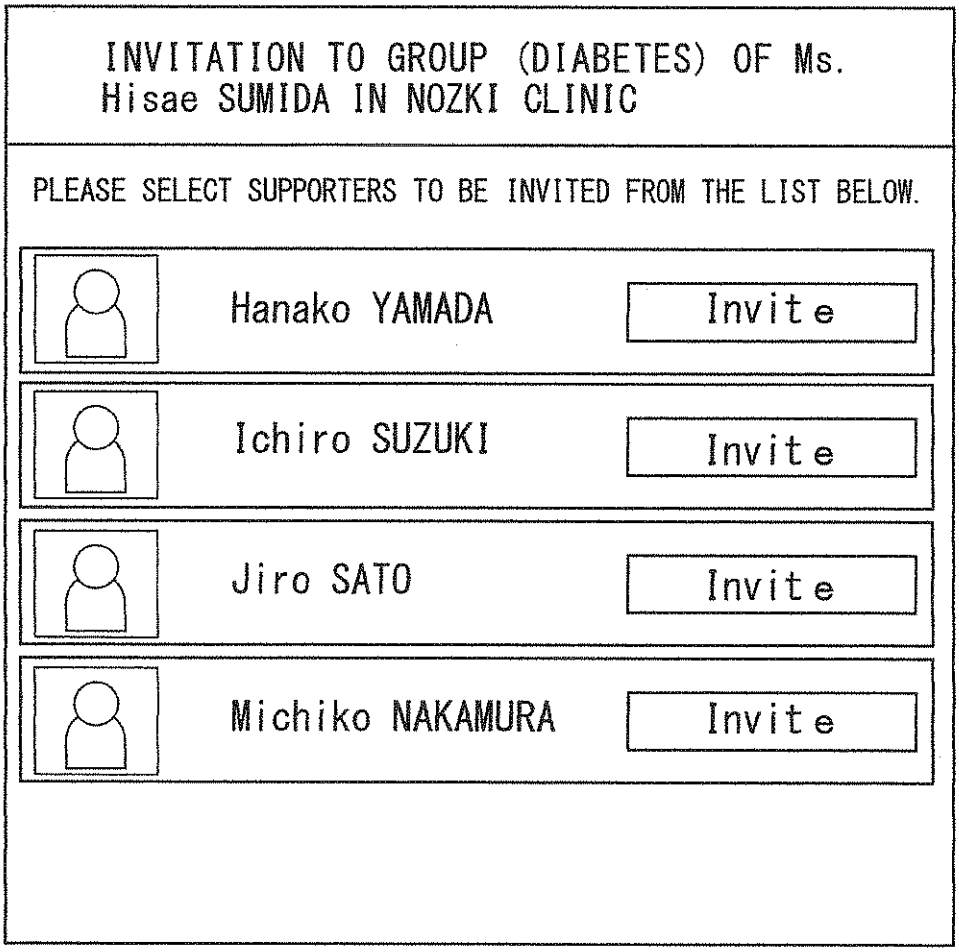


FIG. 24

SUPPORTER INVITATION PERMISSION SCREEN TO EXISTING USER

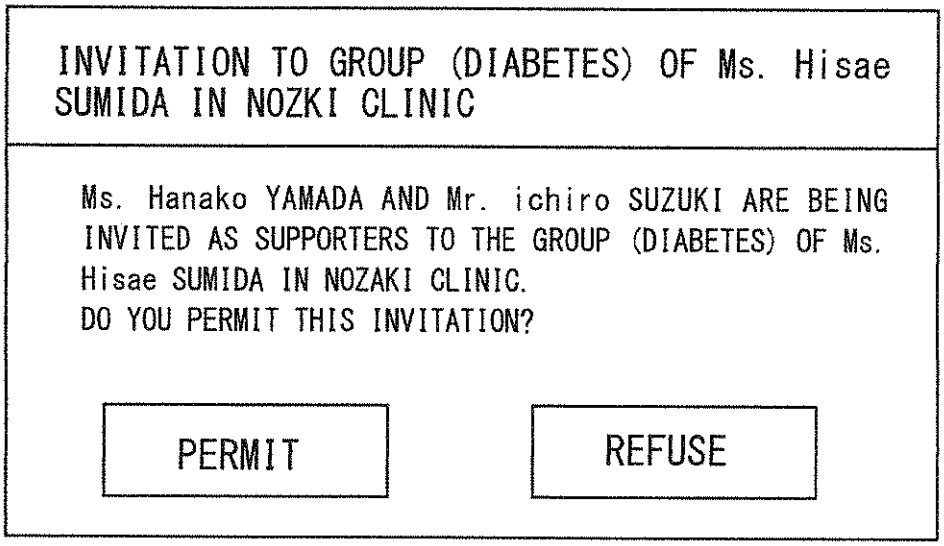


FIG. 25

SUPPORTER INVITATION APPROVAL SCREEN FOR EXISTING USER

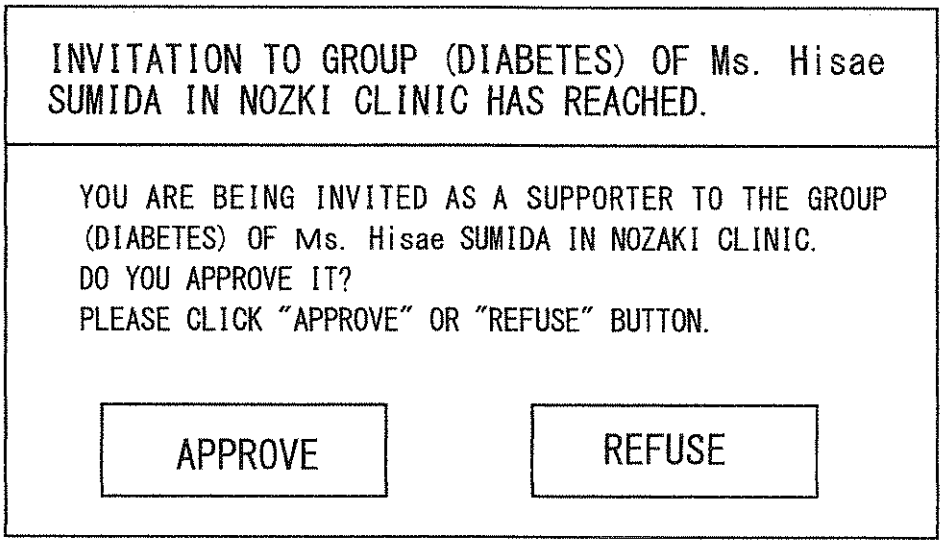


FIG. 26

SUPPORTER INVITATION SCREEN TO NON-USER

INVITATION TO GROUP (DIABETES) OF Ms. Hisae SUMIDA IN NOZKI CLINIC

PLEASE INPUT E-MAIL ADRESS AND PASSPHRASE OF A PERSON YOU WANT TO INVITE AS A SUPPORTER, AND CLICK "INVITE" BUTTON.

E-MAIL ADDRESS

PASSPHRASE

(*) PASSPHRASE IS USED AS PASSWORD FOR PERSONAL IDENTIFICATION. THIS PASSPHRASE WILL NOT BE EXPOSED TO THAT PERSON.

INVITE

FIG. 27

SUPPORTER INVITATION APPROVAL SCREEN FOR NON-USER

INVITATION TO GROUP (DIABETES) OF Ms. Hisae SUMIDA IN NOZKI CLINIC HAS REACHED.

YOU ARE BEING INVITED AS A SUPPORTER TO THE GROUP (DIABETES) OF Ms. Hisae SUMIDA IN NOZAKI CLINIC.
DO YOU PARTICIPATE?
IF YOU PARTICIPATE, USER REGISTRATION IS NEEDED IN ADVANCE; PLEASE INPUT THE FOLLOWING AND CLICK "TRANSMIT" BUTTON.

E-MAIL ADDRESS

PASSPHRASE

TRANSMIT

FIG. 28

SUPPORTER INVITATION PERMISSION SCREEN TO NON-USER

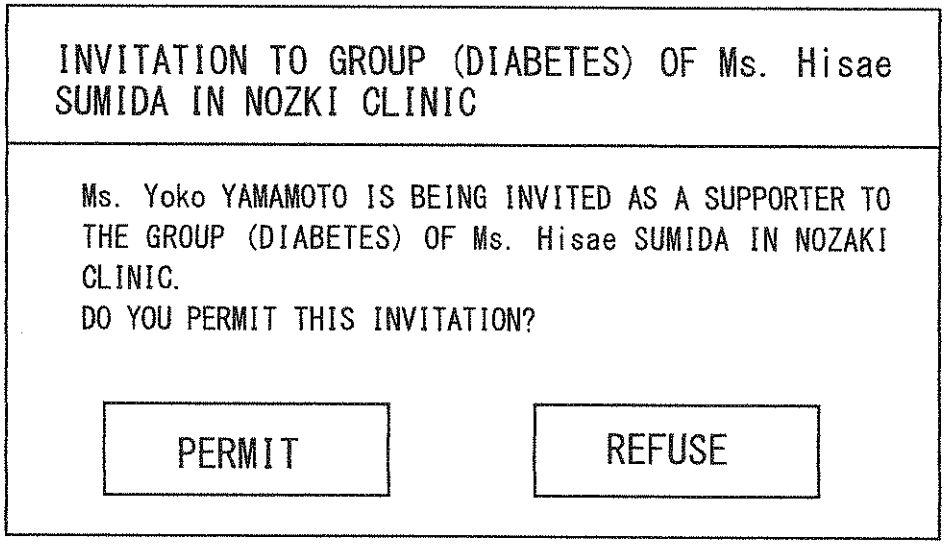


FIG. 29

OPERATION FLOW OF
PATIENT GROUP REGISTRATION
BY MEDICAL WORKER

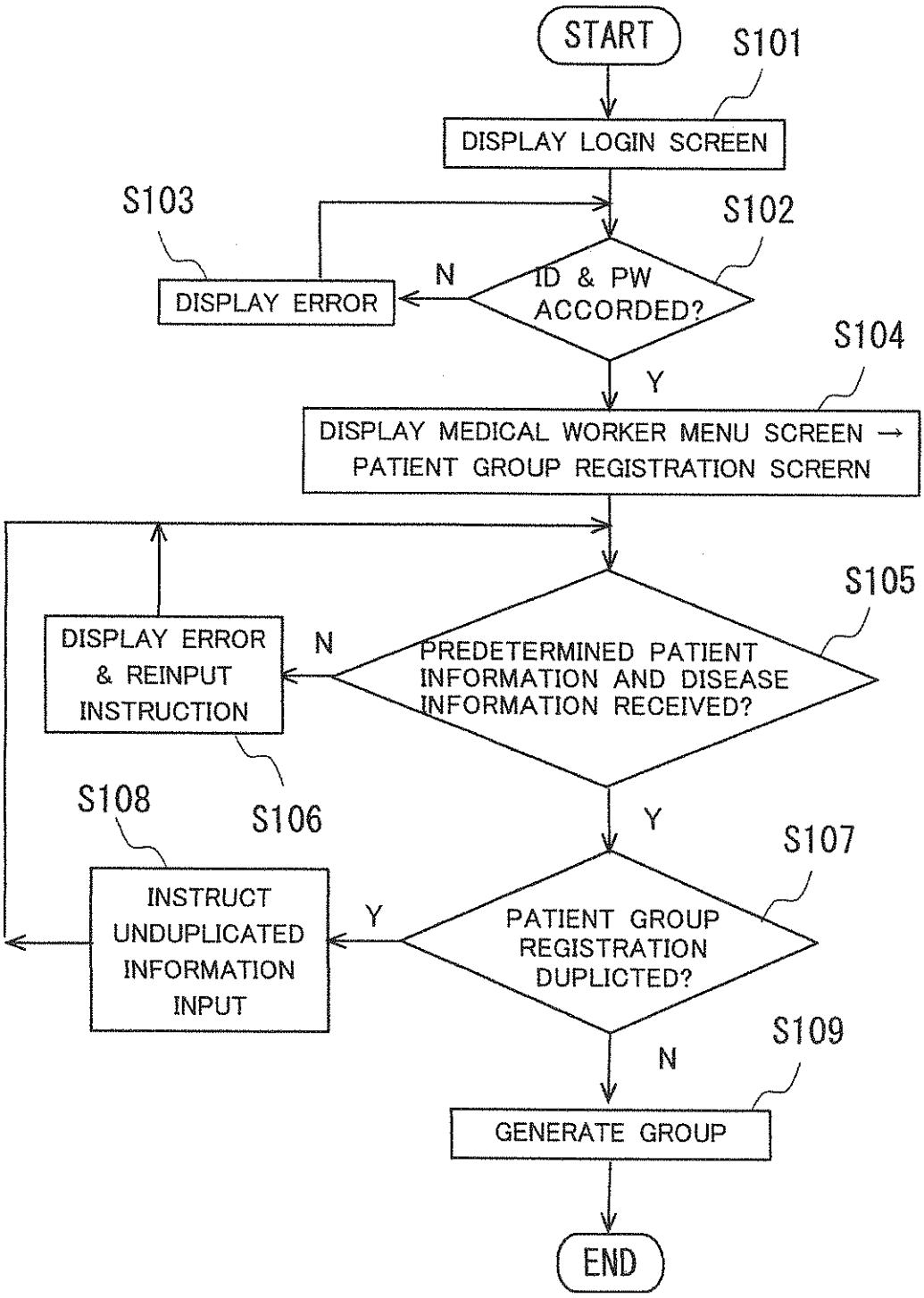


FIG. 30

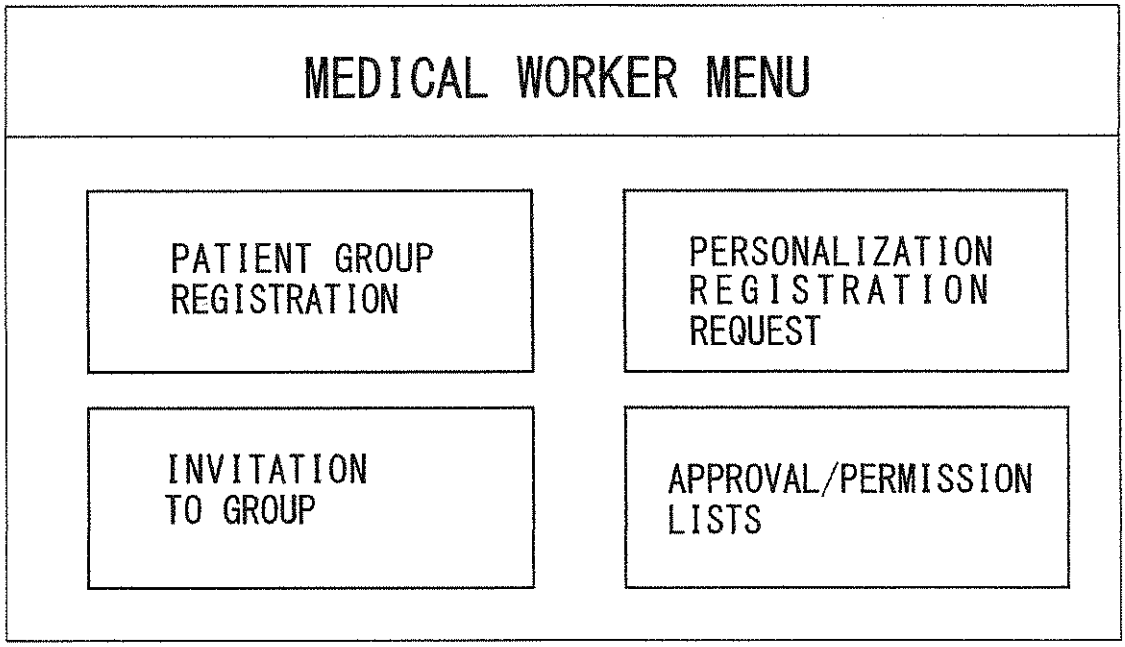

MEDICAL WORKER MENU
PATIENT GROUP REGISTRATION
PERSONALIZATION REGISTRATION REQUEST
INVITATION TO GROUP
APPROVAL/PERMISSION LISTS

FIG. 31

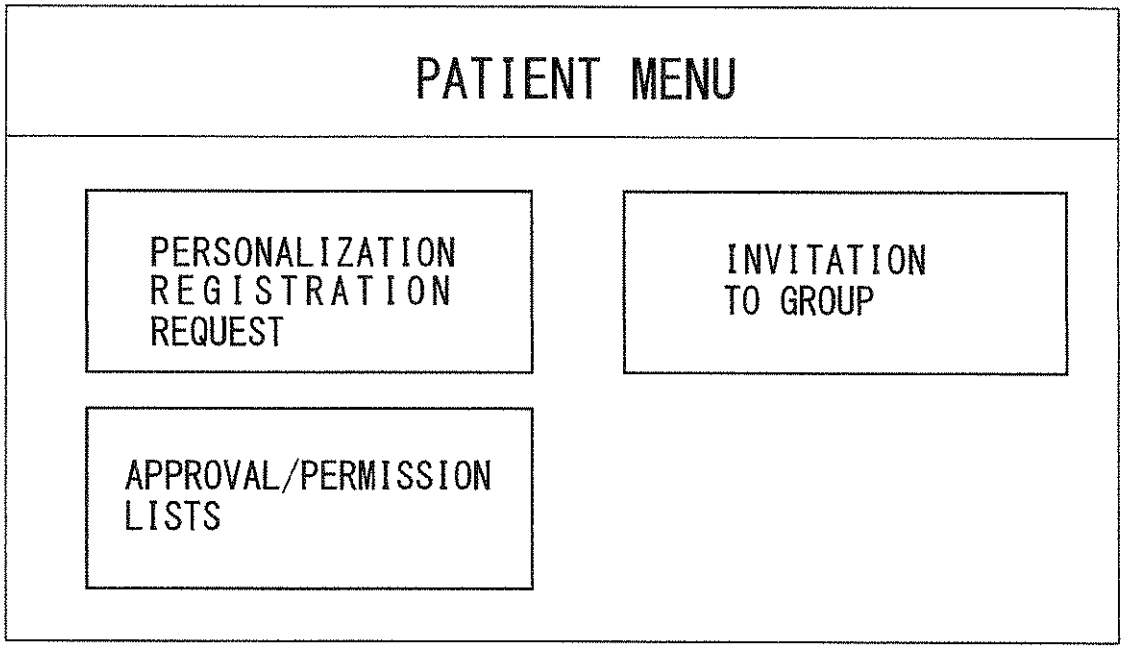

PATIENT MENU
PERSONALIZATION REGISTRATION REQUEST
INVITATION TO GROUP
APPROVAL/PERMISSION LISTS

FIG. 32

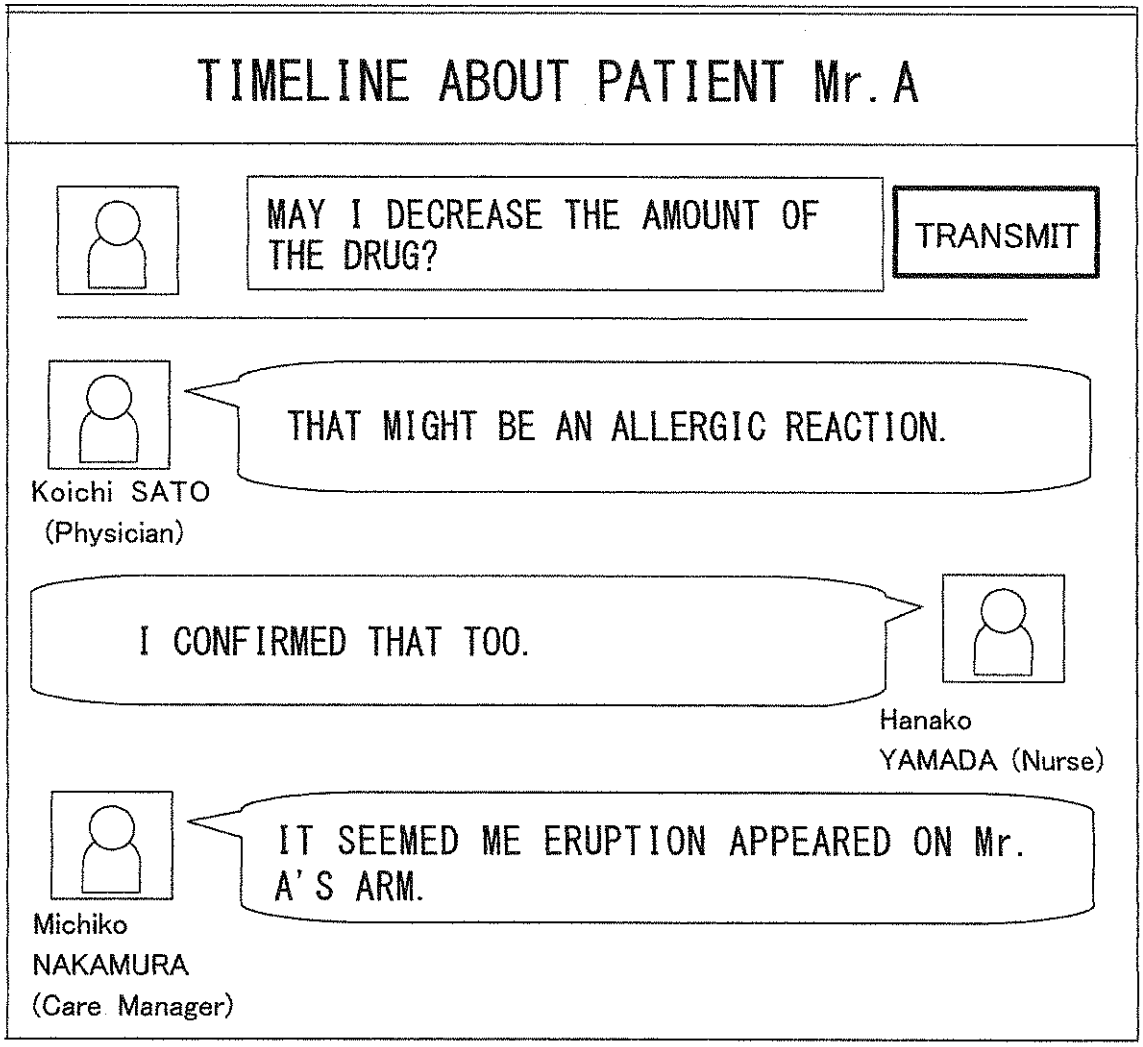
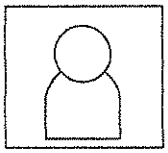

TIMELINE ABOUT PATIENT Mr. A
MAY I DECREASE THE AMOUNT OF THE DRUG?
TRANSMIT
THAT MIGHT BE AN ALLERGIC REACTION.
Koichi SATO
(Physician)
I CONFIRMED THAT TOO.
Hanako
YAMADA (Nurse)
IT SEEMED ME ERUPTION APPEARED ON Mr. A'S ARM.
Michiko
NAKAMURA
(Care Manager)

FIG. 33

INTEGRATED MEDICAL INFORMATION OF Mr. A



Mr. A
AGE: 83

MEDICAL INFORMATION IN CLINIC X
NAME: A BIRTHDATE: 1930/10/10
DISEASE NAME: DIABETES
NOTE: FIRST VISIT IN OCTOBER 2012; STAY WITH HIS SON AND YOUNGER BROTHER; LETTER OF INTRODUCTION FROM DOC. XX IN HOSPITAL XXX

TO PHYSICIAN-SIDE TIMELINE | TO PATIENT-SIDE TIMELINE

MEDICAL INFORMATION IN CLINIC Y
NAME: A BIRTHDATE: 1930/10/10
DISEASE NAME: LUNG CANCER
NOTE: MEDICAL HISTORY, ASTHMA, DIABETES; NEEDED CARE LEVEL 3; NAUSEA & VOMITING; NOW SYMPTOMS OF DIGESTIVE ORGANS REDUCED, TAKING MEALS BY HIMSELF

TO PHYSICIAN-SIDE TIMELINE | TO PATIENT-SIDE TIMELINE

FIG. 34

PATIENT GROUP REGISTRATION SCREEN

