

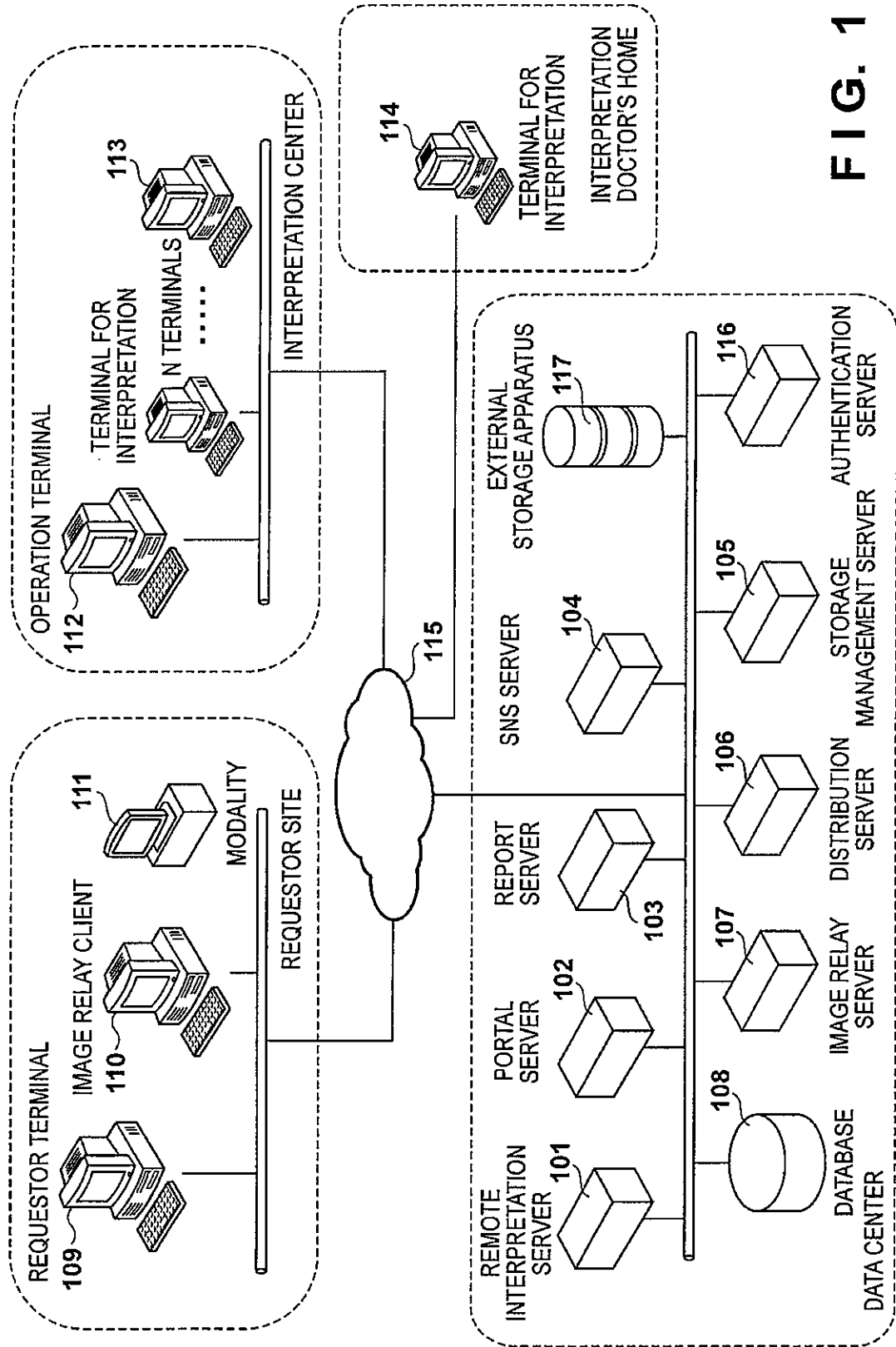


FIG. 1

FIG. 2

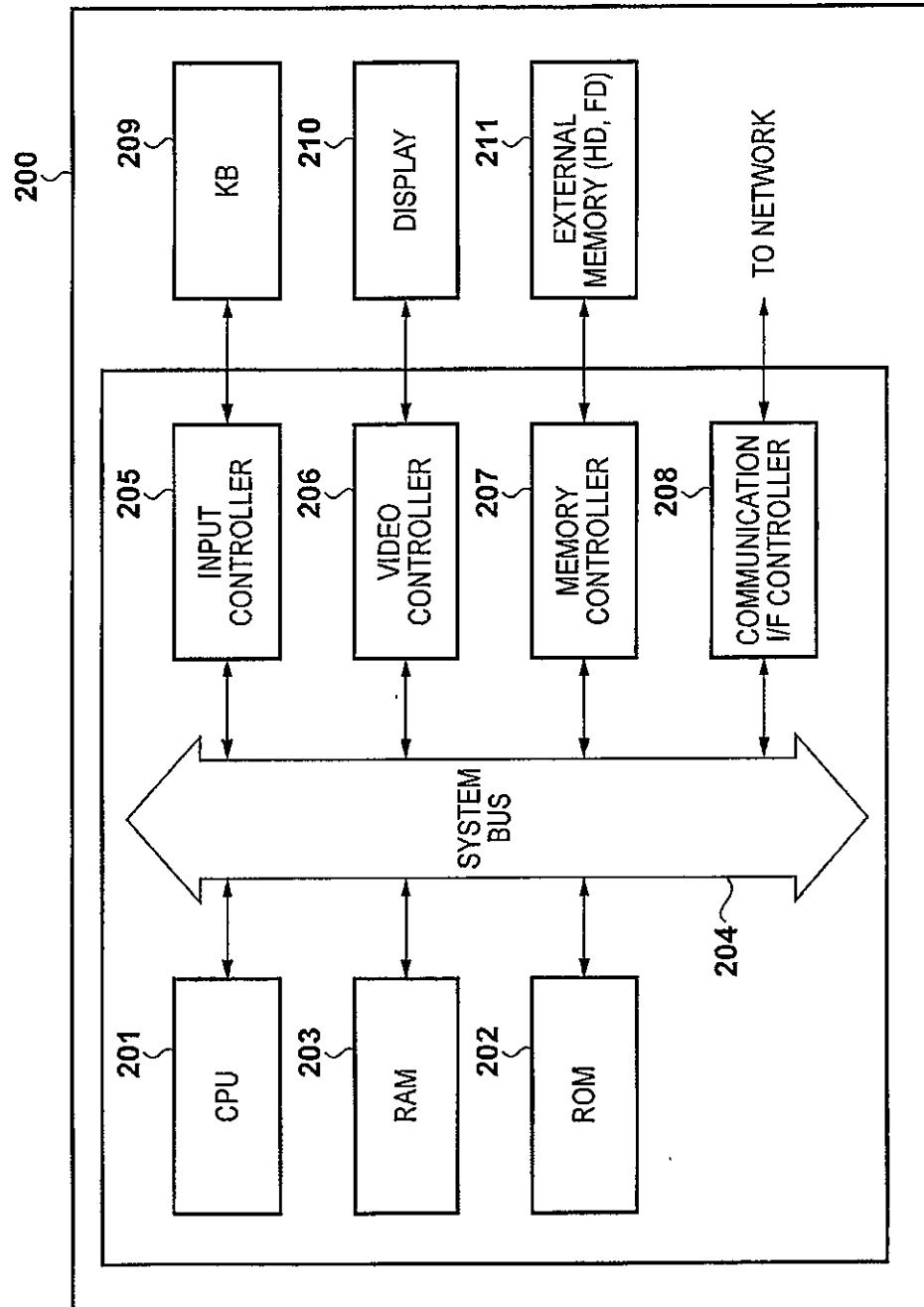


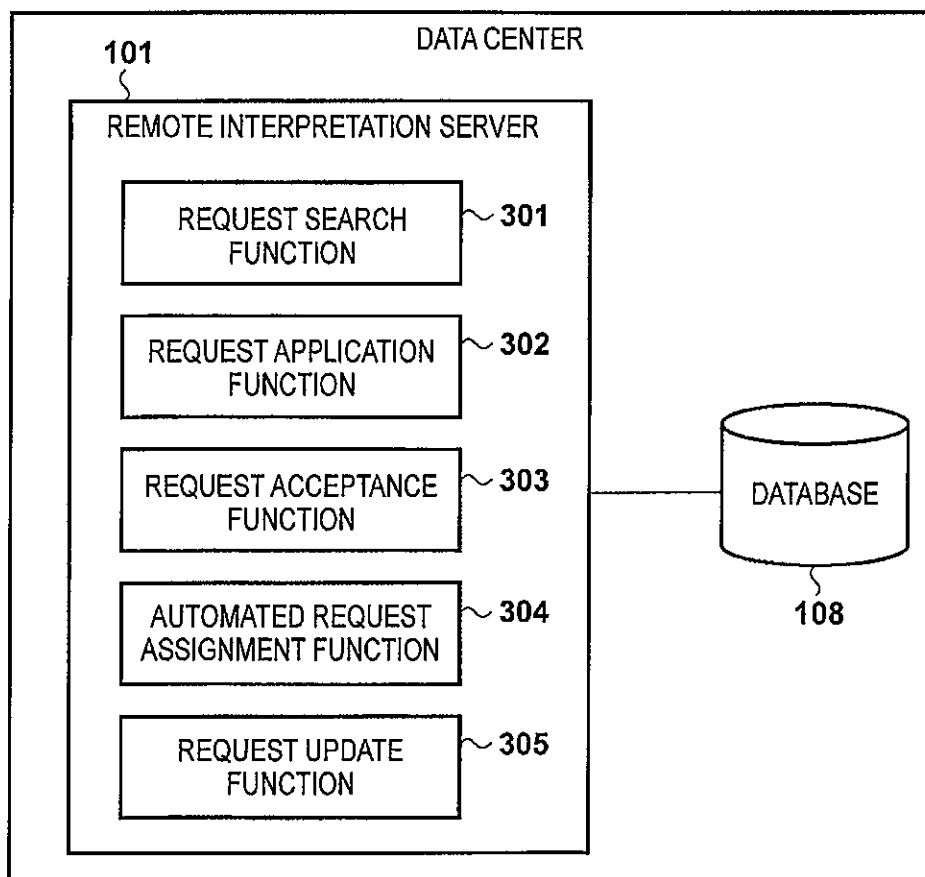
FIG. 3

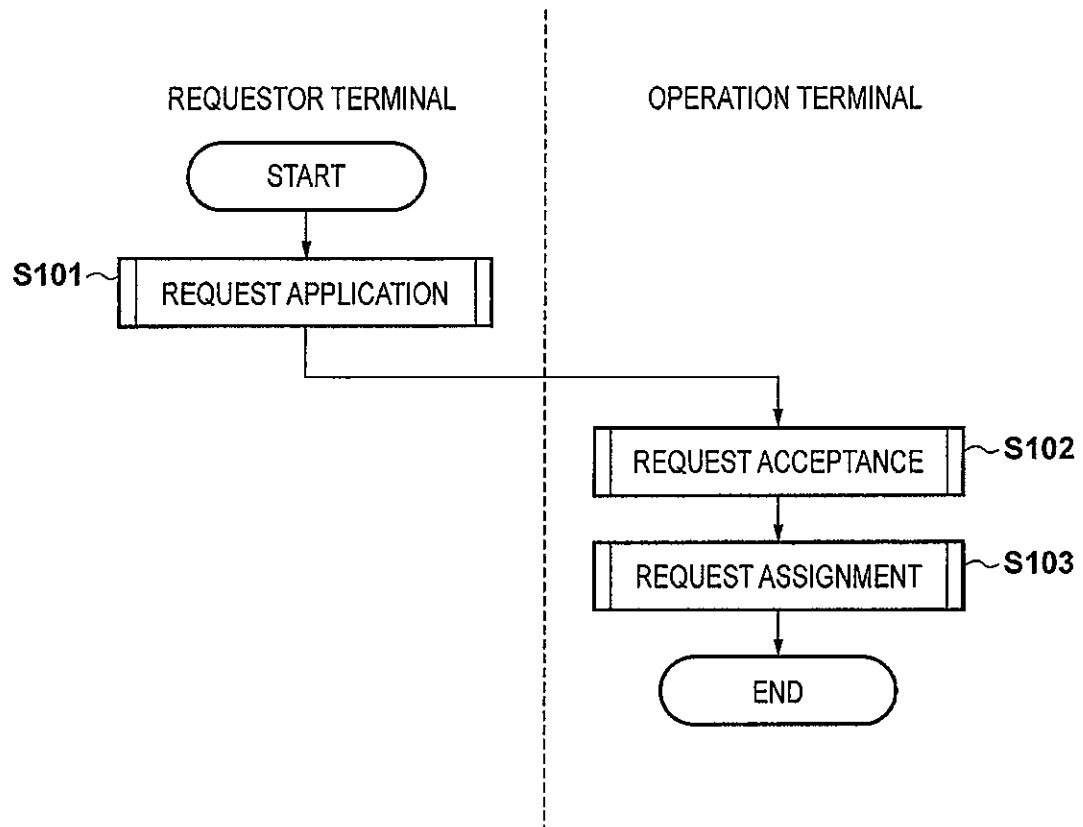
FIG. 4

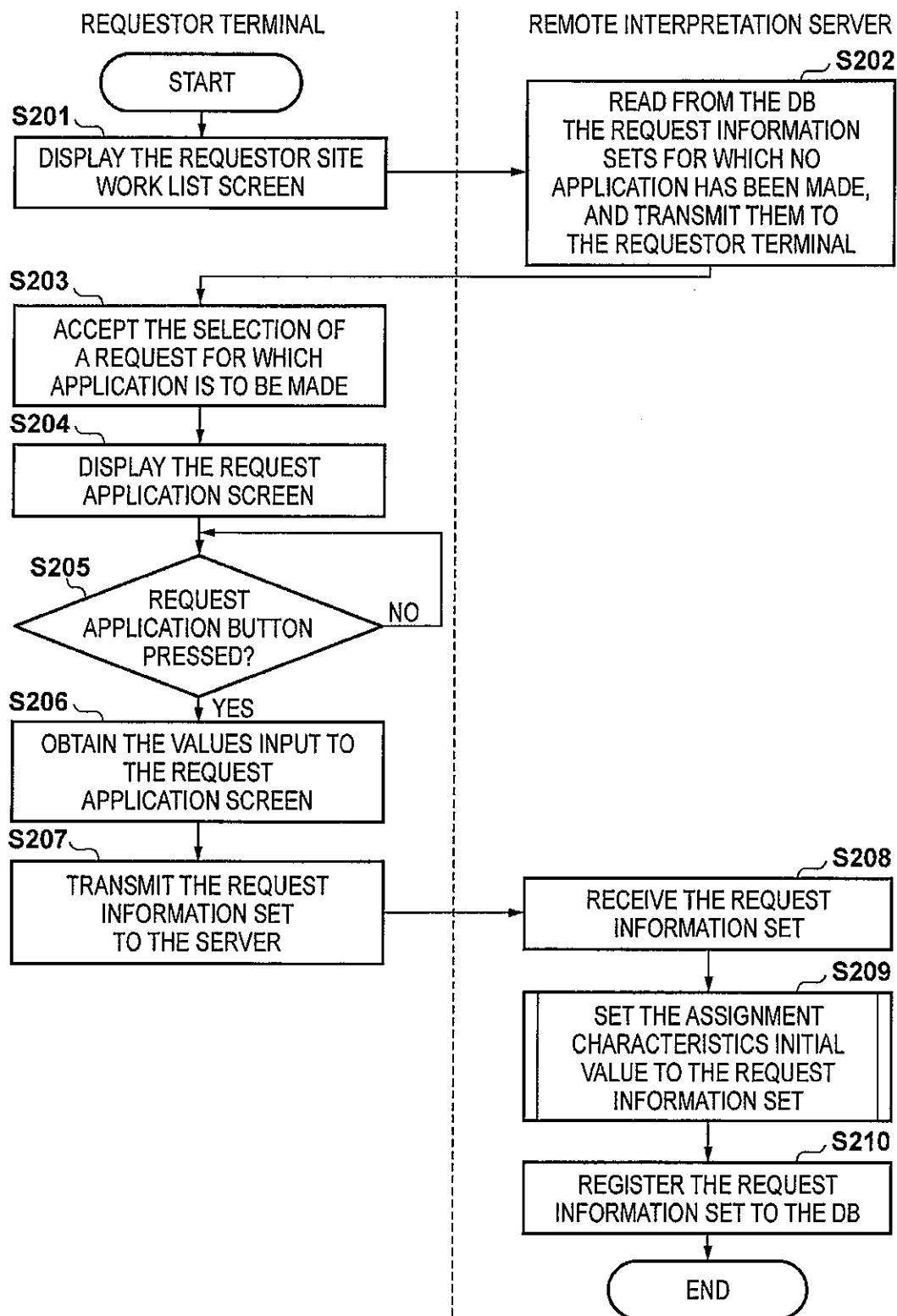
FIG. 5

FIG. 6

REMOTE INTERPRETATION SERVER

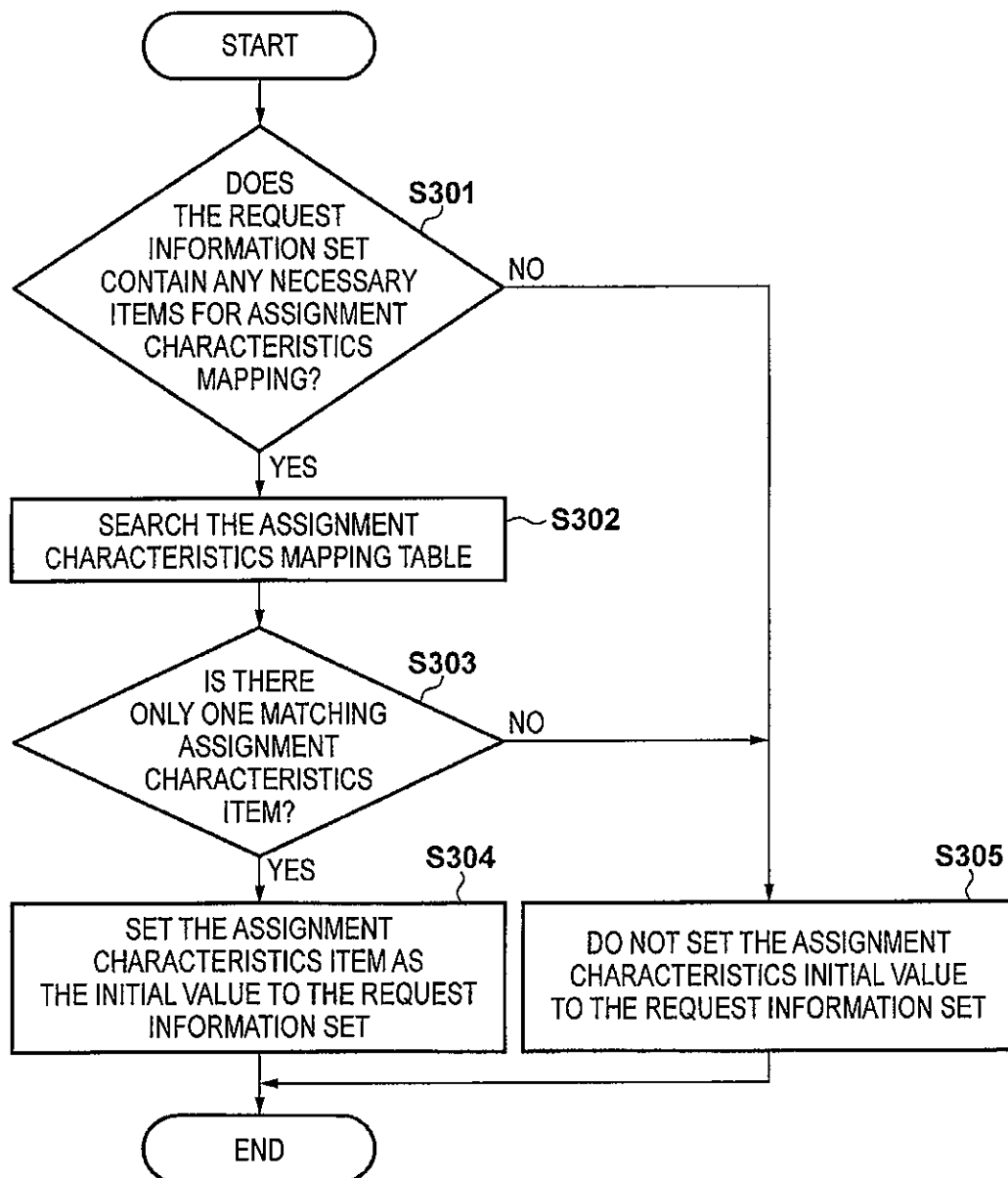


FIG. 7

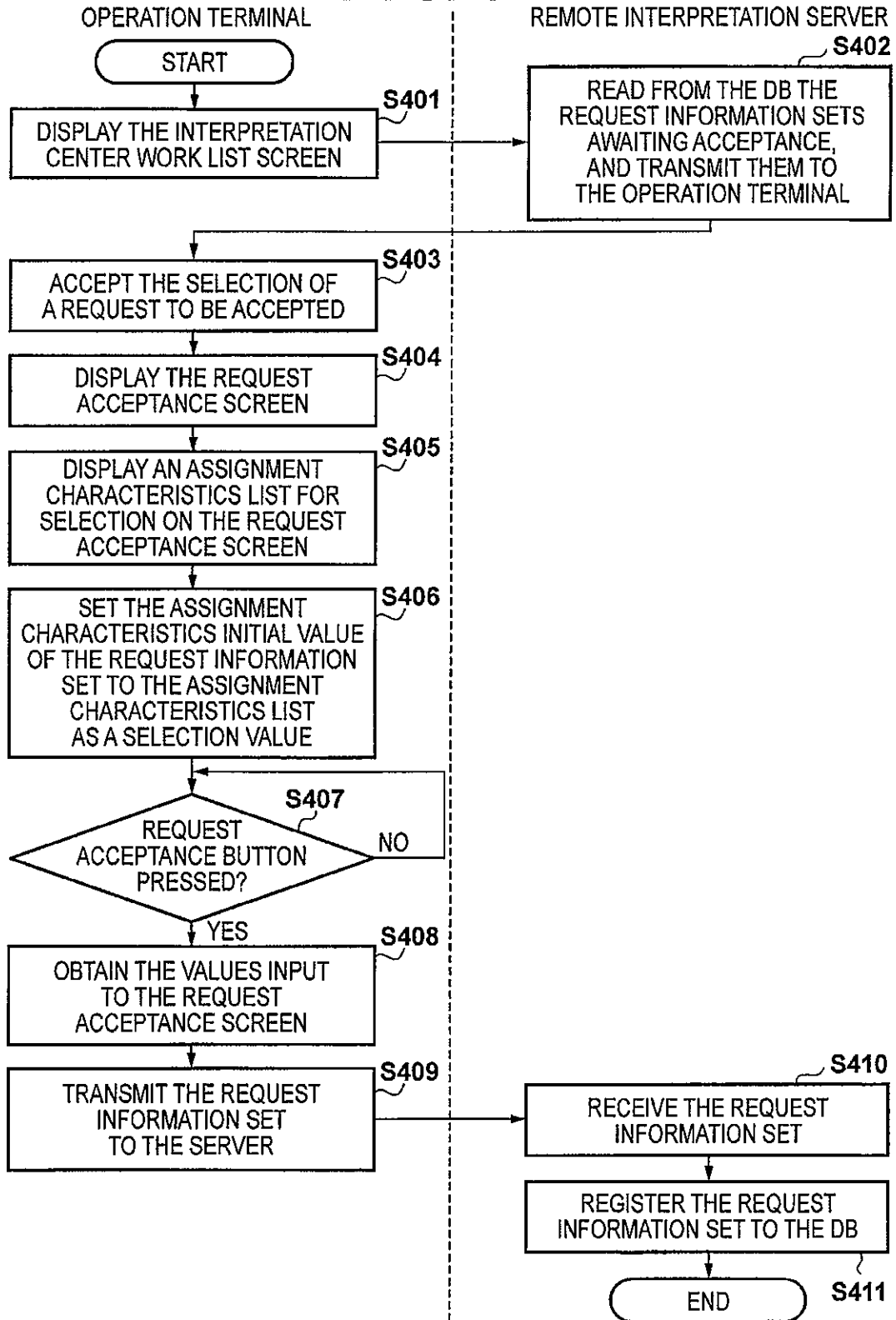


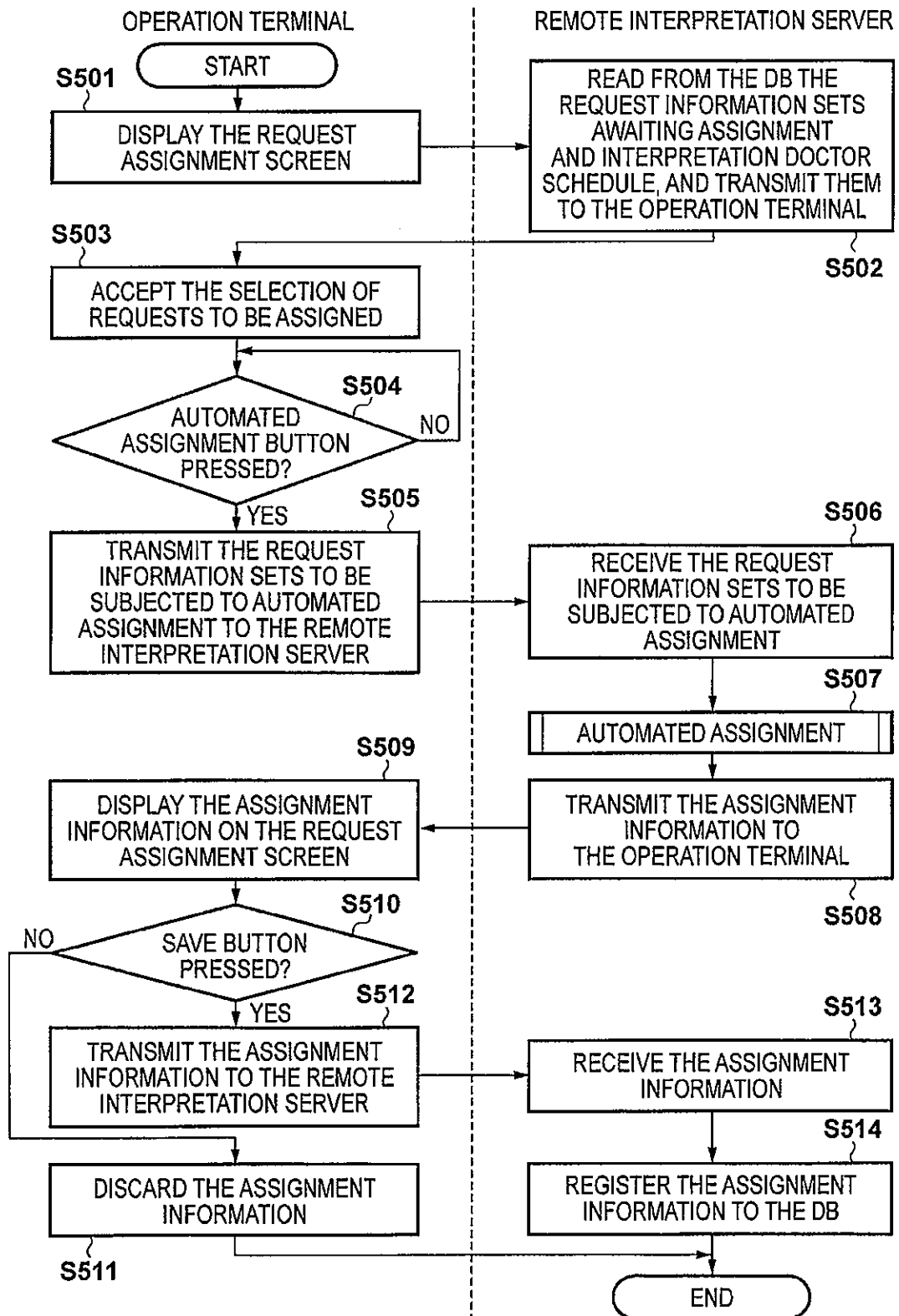
FIG. 8

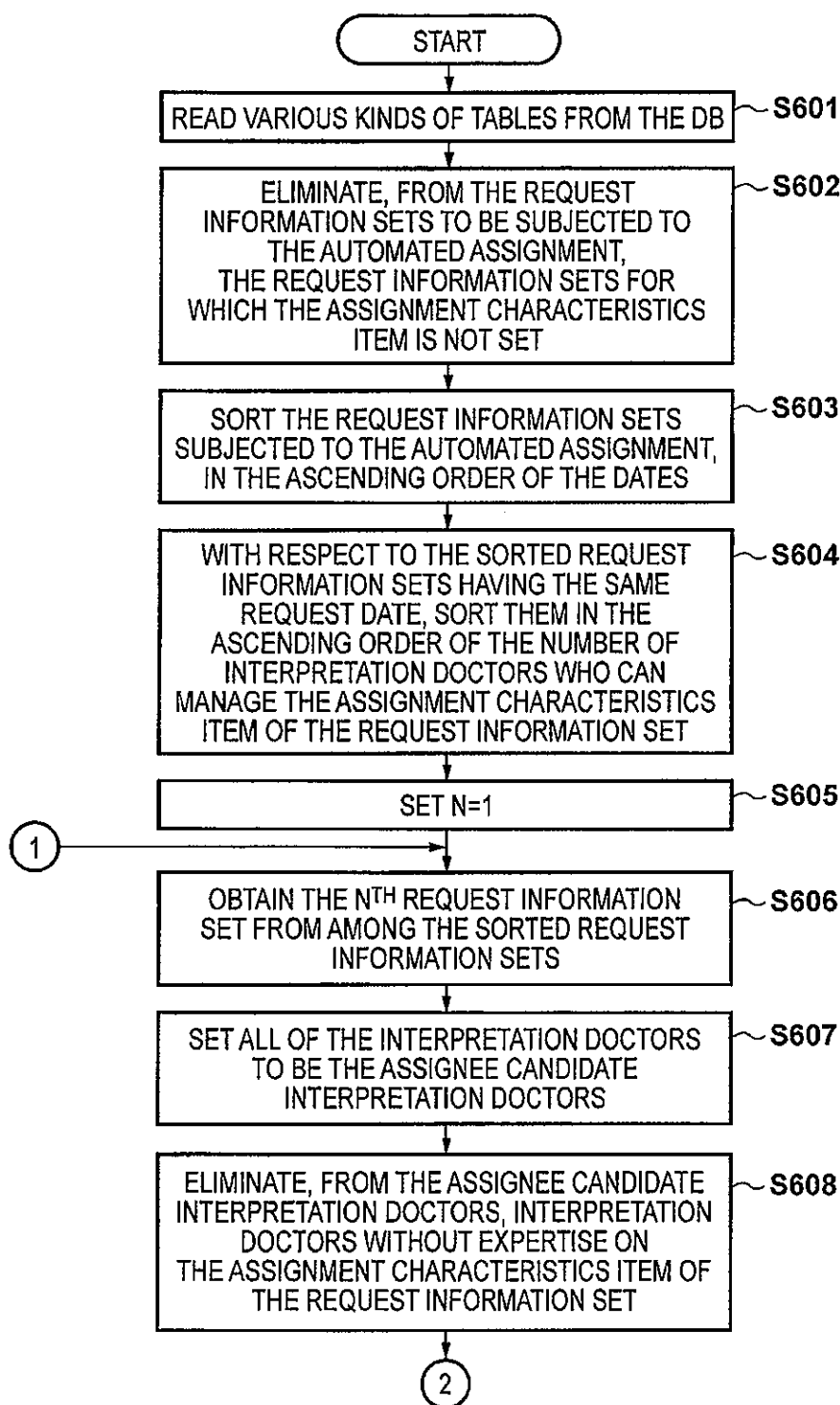
FIG. 9A

FIG. 9B

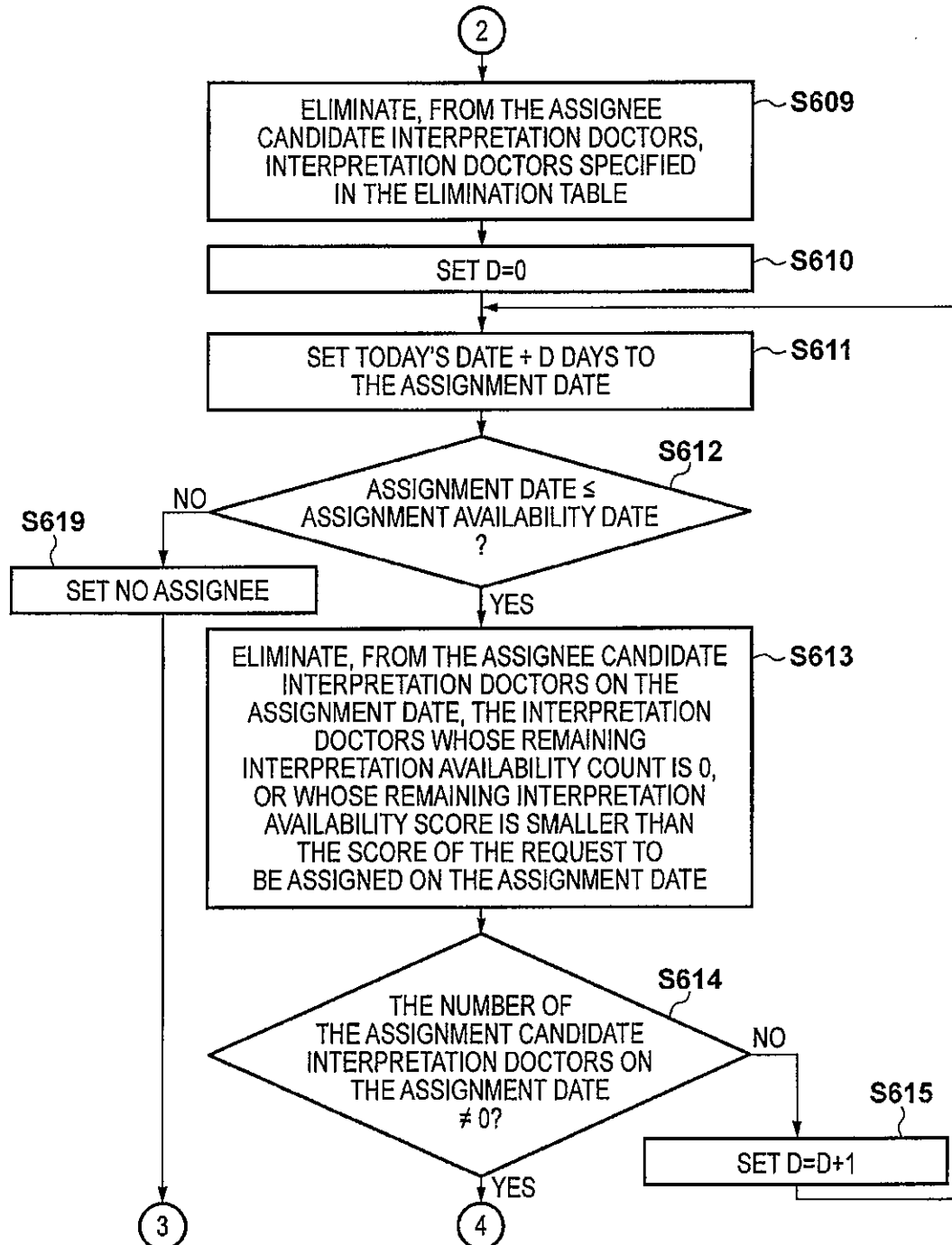


FIG. 9C

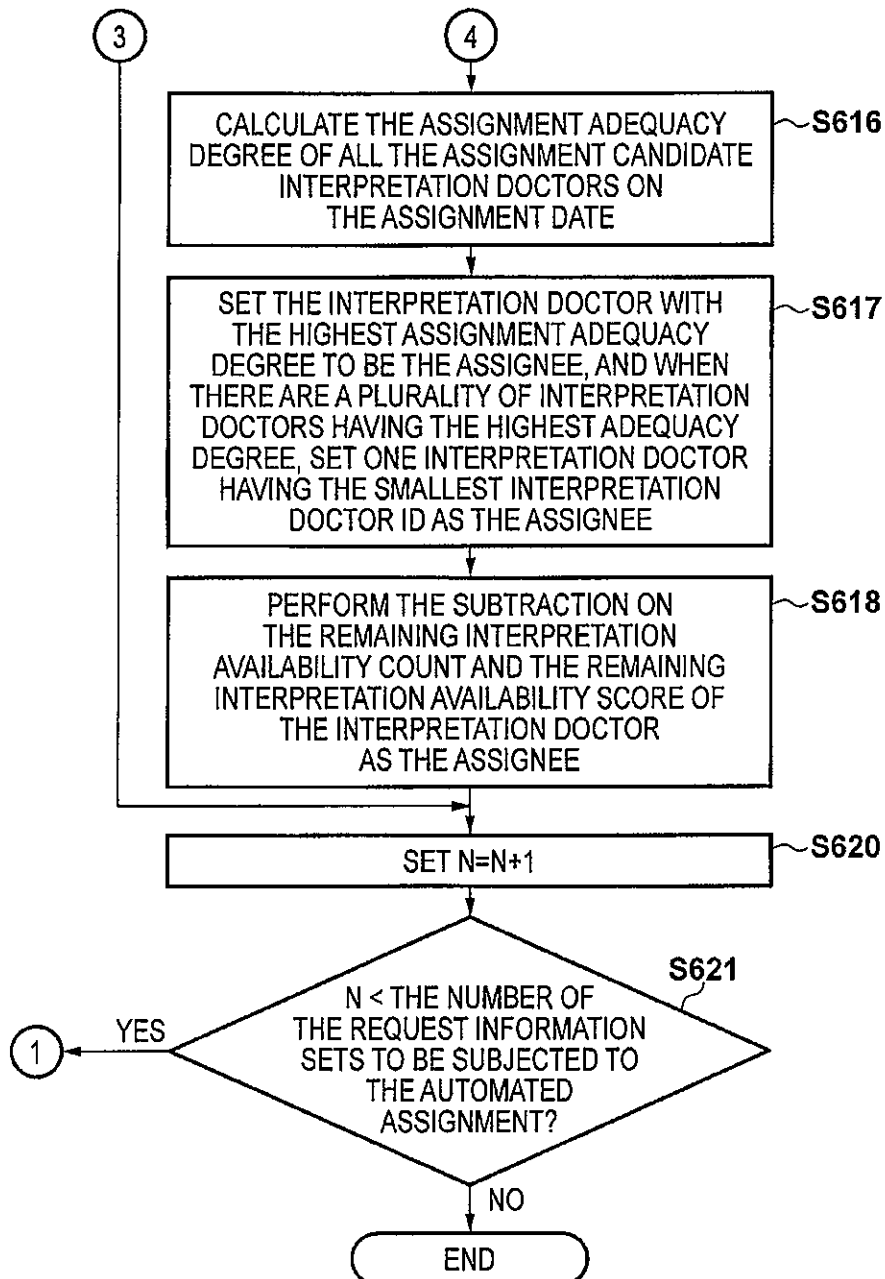


FIG. 10

	PATIENT NUMBER	EXAMINATION TYPE	BODY PART	REQUEST ID	REQUESTOR SITE	REQUEST DATE	PATIENT NUMBER	PATIENT NAME	BIRTH DATE	SEX	AGE IN MONTHS	EXAMI-NATION TYPE	BODY PART	EXAMI-NATION DATE	FILM COUNT	IMAGE COUNT
<u>DISPLAY</u>	1	HOSPITAL A	2014.6.8	0001	KANJYA 1	1979.1.19	M	35	CT	HEAD	2014.6.9	X	640			
	2	HOSPITAL A	2014.6.8	0002	KANJYA 2	1978.12.29	F	35	CT	HEAD	2014.6.9	O				
	3	HOSPITAL A	2014.6.8	0003	KANJYA 3	2014.6.5	M	0	MR	CHEST	2014.6.9	X	1050			
	4	HOSPITAL A	2014.6.8	0004	KANJYA 4	1952.2.27	M	62	MR	CHEST	2014.6.9	X	300			

FIG. 11

1100

1101 1102

REQUEST APPLICATION SCREEN

REQUESTOR	〇〇 HOSPITAL	REQUEST DATE	2014.6.9
PATIENT NUMBER	0001 ~ 1103	PATIENT NAME	KANJYA 1 ~ 1104
SEX	M ~ 1105	DATE OF BIRTH	1979.1.19 ~ 1106
MODALITY	CT ~ 1107	IMAGE COUNT	640 ~ 1108
EXAMINATION TYPE	☒ CT ☐ MR ☐ OTHER ~ 1109		
BODY PART	☒ HEAD ☐ CHEST ☐ BREAST ☐ ABDOMEN ☐ OTHER		
FILM	☒ x ☐ O ~ 1111 1110		
DETAILS OF REQUEST	~~~~~ 1112		
		1113	
		REQUEST APPLICATION	

FIG. 12

1202
1203
1200

INTERPRETATION WORK LIST SCREEN

☐ ☐ ☐ X

REQUESTOR SITE PATIENT NUMBER

EXAMINATION TYPE ☐ CT ☐ MR ☐ OTHER 1204

BODY PART ☐ HEAD ☐ CHEST ☐ BREAST ☐ ABDOMEN 1205

1206

SEARCH

	STATUS	REQUEST ID	REQUESTOR SITE	REQUEST DATE	PATIENT NUMBER	PATIENT NAME	BIRTH DATE	SEX	AGE IN MONTHS	EXAMINATION TYPE	BODY PART	EXAMINATION DATE	FILM	IMAGE COUNT
<u>DISPLAY</u>	WAITING FOR APPLICATION	1	HOSPITAL A	2014.6.8	0001	KANJYA 1	1979.1.19	M	35	CT	HEAD	2014.6.9	X	640
<u>DISPLAY</u>	WAITING FOR APPLICATION	2	HOSPITAL A	2014.6.8	0002	KANJYA 2	1978.12.29	F	35	CT	HEAD	2014.6.9	O	
<u>DISPLAY</u>	WAITING FOR APPLICATION	3	HOSPITAL A	2014.6.8	0003	KANJYA 3	2014.6.5	M	0	MR	CHEST	2014.6.9	X	1050
<u>DISPLAY</u>	WAITING FOR APPLICATION	4	HOSPITAL A	2014.6.8	0004	KANJYA 4	1952.2.27	M	62	MR	CHEST	2014.6.9	X	300
<u>DISPLAY</u>	WAITING FOR APPLICATION	5	HOSPITAL B	2014.6.7	0005	KANJYA 5	1955.5.30	F	59	MR	BREAST	2014.6.8	X	4
<u>DISPLAY</u>	WAITING FOR APPLICATION	6	HOSPITAL B	2014.6.9	0006	KANJYA 6	1978.11.22	F	33	MR	BREAST	2014.6.9	O	
<u>DISPLAY</u>	WAITING FOR APPLICATION	7	HOSPITAL B	2014.6.8	0007	KANJYA 7	1983.2.14	F	31	OTHER	ABDOMEN	2014.6.8	X	300

1201
1207

FIG. 13

REQUEST ACCEPTANCE SCREEN		1300
REQUESTOR	〇〇 HOSPITAL	1301
REQUEST DATE	2014.6.9	1302
PATIENT NUMBER	0001 ~ 1303	
PATIENT NAME	KANJYA 1 ~ 1304	
SEX	M ~ 1305	
BIRTH DATE	1979.1.19 ~ 1306 (35 YEARS 4 MONTHS)	
MODALITY	CT ~ 1307	
IMAGE COUNT	640 ~ 1308	
EXAMINATION TYPE	CT ~ 1309	
BODY PART	HEAD ~ 1310	
FILM	x ~ 1311	
DETAILS OF REQUEST	~~~~~ 1312	
ASSIGNMENT CHARACTERISTICS	HEAD CT ▼ ~ 1313	
		1314
REQUEST ACCEPTANCE		▼

FIG. 14

1400

EXPERTNESS SETTING SCREEN			ASSIGNMENT CHARACTERISTICS							
INTERPRETATION DOCTOR ID	INTERPRETATION DOCTOR NAME	HEAD CT	HEAD CT (FILM)	CHEST MR	CHEST MR FOR INFANTS	MAMMO-MR				
0001	INTERPRETATION DOCTOR 1		10		5		1401			
0002	INTERPRETATION DOCTOR 2	10	10	5						
0003	INTERPRETATION DOCTOR 3	10		10	10	2				
0004	INTERPRETATION DOCTOR 4	10		10						
0005	INTERPRETATION DOCTOR 5				10	10				

1402

SAVE

FIG. 171700
S

EXAMINATION TYPE ID	EXAMINATION TYPE NAME
1	CT
2	MR
3	OTHER
...	...

FIG. 181800
S

BODY PART ID	BODY PART NAME
1	HEAD
2	CHEST
3	BREAST
4	ABDOMEN
...	...

FIG. 191900
S

CLASSIFICATION ID	CLASSIFICATION NAME	CLASSIFICATION ITEM ID	CLASSIFICATION ITEM NAME
1	FILM	1	○
1	FILM	2	×

FIG. 20

2001 ASSIGNMENT CHARACTERISTICS ID	2002 ASSIGNMENT CHARACTERISTICS NAME	2003 ADDITIONAL SCORE
1	HEAD CT	
2	HEAD CT (FILM)	-1
3	CHEST CT	
4	CHEST MR	
5	CHEST CT FOR INFANTS	+2
6	CHEST MR FOR INFANTS	+2
7	MAMMO-CT	+1
8	MAMMO-MR	+1
...	...	...

FIG. 21

2101 LOWER LIMIT COUNT	2102 UPPER LIMIT COUNT	2103 ADDITIONAL SCORE
501	1000	+1
1001	1500	+2
1501	2000	+3
...	...	...

FIG. 22

2201 PER-REQUEST STANDARD SCORE	5
------------------------------------	---

FIG. 23

2301	2302	2303	2304	2305	2306	2307	2308	2300
ASSIGNMENT CHARACTERISTICS ID	ASSIGNMENT CHARACTERISTICS NAME	EXAMI- NATION TYPE ID	BODY PART ID	CLASSIFICATION (FILM) ID	PATIENT'S AGE LOWER LIMIT VALUE	PATIENT'S AGE UPPER LIMIT VALUE	PATIENT'S SEX	
1	HEAD CT	1	1	2	0	999	MFO	
2	HEAD CT (FILM)	1	1	1	0	999	MFO	
3	CHEST CT	1	2	1	7	999	MFO	
3	CHEST CT	1	2	2	7	999	MFO	
4	CHEST MR	2	2	1	7	999	MFO	
4	CHEST MR	2	2	2	7	999	MFO	
5	CHEST CT FOR INFANTS	1	2	1	0	6	MFO	
5	CHEST CT FOR INFANTS	1	2	2	0	6	MFO	
6	CHEST MR FOR INFANTS	2	2	1	0	6	MFO	
6	CHEST MR FOR INFANTS	2	2	2	0	6	MFO	
7	MAMMO-CT	1	3	2	0	999	F	
8	MAMMO-MR	2	3	2	0	999	F	

FIG. 24A

2401 INTERPRETATION DOCTOR ID	2402 ASSIGNMENT CHARACTERISTICS ID	2403 EXPERTNESS SETTING VALUE	2400
0001	2	10	
0001	6	5	
0002	1	10	
0002	2	10	
0002	4	5	
0003	1	10	
0003	4	10	
0003	6	10	
0003	8	2	
0004	1	10	
0004	4	10	
0005	6	10	
0005	8	10	

FIG. 24B

	ASSIGNMENT CHARACTERISTICS				
INTERPRETATION DOCTOR ID	HEAD CT	HEAD CT (FILM)	CHEST MR	CHEST MR FOR INFANTS	MAMMO-MR
0001		10		5	
0002	10	10	5		
0003	10		10	10	2
0004	10		10		
0005				10	10

FIG. 25

2501 REQUESTOR SITE ID	2502 INTERPRETATION DOCTOR ID	2500
0001	0001	

FIG. 26A

2601 ASSIGNMENT DATE	2602 INTERPRETATION DOCTOR	2603 INTERPRETATION AVAILABILITY COUNT	2600
6/9	0001	2	
6/9	0002	2	
6/9	0003	2	
6/9	0004	2	
6/9	0005	2	
6/10	0001	1	
6/10	0003	1	
6/10	0004	2	
6/10	0005	3	
6/11	0001	4	
6/11	0002	4	
6/11	0003	2	
6/11	0005	2	

FIG. 26B

	6/9 MON.	6/10 TUE.	6/11 WED.	6/12 THU.	6/13 FRI.	6/14 SAT.	6/15 SUN.
INTERPRETATION DOCTOR 1	0/2	0/1	0/4	0/3	0/3	0/0	0/0
INTERPRETATION DOCTOR 2	0/2	0/0	0/4	0/3	0/3	0/0	0/0
INTERPRETATION DOCTOR 3	0/2	0/1	0/2	0/3	0/3	0/0	0/0
INTERPRETATION DOCTOR 4	0/2	0/2	0/0	0/0	0/0	0/0	0/0
INTERPRETATION DOCTOR 5	0/2	0/3	0/2	0/2	0/2	0/0	0/0

FIG. 27

2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716
RE- QUEST ID	STATUS	RE- QUESTOR SITE ID	REQUEST DATE	PATIENT NUMBER	PATIENT NAME	BIRTH DATE	SEX	EXAMI- NATION TYPE ID	BODY PART ID	EXAMI- NATION DATE	CLASSIFI- CATION (FILM) ID	IMAGE COUNT	ASSIGNMENT CHARAC- TERISTICS ID	INTER- PRETATION DATE	INTER- PRETATION DOCTOR ID	
1	AWAITING ASSIGNMENT	0001	2014.6.8	0001	KANJYA 1	1979. 1.19	M	1	1	2014.6.9	2	640	1			
2	AWAITING ASSIGNMENT	0001	2014.6.8	0002	KANJYA 2	1978. 12.29	F	1	1	2014.6.9	1		2			
3	AWAITING ASSIGNMENT	0001	2014.6.8	0003	KANJYA 3	2014. 6.5	M	2	2	2014.6.9	2	200	6			
4	AWAITING ASSIGNMENT	0001	2014.6.8	0004	KANJYA 4	1952. 2.27	M	2	2	2014.6.9	2	300	4			
5	AWAITING ASSIGNMENT	0002	2014.6.7	0005	KANJYA 5	1955. 5.30	F	2	3	2014.6.10	2	4	8			
6	AWAITING ASSIGNMENT	0002	2014.6.9	0006	KANJYA 6	1978. 11.22	F	2	3	2014.6.10	1		8			
7	AWAITING ASSIGNMENT	0002	2014.6.8	0007	KANJYA 7	1983. 2.14	F	3	4	2014.6.10	2	300				

FIG. 28

2800

RE- QUEST ID	STATUS	RE- QUESTOR SITE ID	REQUEST DATE	PATIENT NUMBER	PATIENT NAME	BIRTH DATE	SEX	EXAMI- NATION TYPE ID	BODY PART ID	EXAMI- NATION DATE	CLASSIFI- CATION (FILM) ID	IMAGE COUNT	ASSIGNMENT CHARAC- TERISTICS ID	INTER- PRETATION DATE	INTER- PRETATION DOCTOR ID
5	AWAITING ASSIGNMENT	0002	2014.6.7	0005	KANUYA 1	1955. 5.30	F	2	3	2014. 6.10	2	4	8		
2	AWAITING ASSIGNMENT	0001	2014.6.8	0002	KANUYA 2	1978. 12.29	F	1	1	2014. 6.9	1		2		
3	AWAITING ASSIGNMENT	0001	2014.6.8	0003	KANUYA 3	2014. 6.5	M	2	2	2014. 6.9	2	200	6		
1	AWAITING ASSIGNMENT	0001	2014.6.8	0001	KANUYA 5	1978. 1.19	M	1	1	2014. 6.9	2	640	1		
4	AWAITING ASSIGNMENT	0001	2014.6.8	0004	KANUYA 4	1952. 2.27	M	2	2	2014. 6.9	2	300	4		
6	AWAITING ASSIGNMENT	0002	2014.6.9	0006	KANUYA 6	1978. 11.22	F	2	3	2014. 6.10	1		8		
7	AWAITING ASSIGNMENT	0002	2014.6.8	0007	KANUYA 7	1983. 2.14	F	3	4	2014. 6.10	2	300			

FIG. 29

RE-QUEST ID	STATUS	RE-QUESTOR SITE ID	REQUEST DATE	PATIENT NUMBER	PATIENT NAME	BIRTH DATE	SEX	EXAMI-NATION TYPE ID	BODY PART ID	EXAMI-NATION DATE	CLASSIFI-CATION (FILM) ID	IMAGE COUNT	ASSIGNMENT CHARACTERISTICS ID	INTER-RETATION DATE	INTER-RETATION DOCTOR ID
5	AWAITING ASSIGNMENT	0002	2014.6.7	0005	KANJYA 1	1955.5.30	F	2	3	2014.6.10	2	4	8	6/9	0005
2	AWAITING ASSIGNMENT	0001	2014.6.8	0002	KANJYA 2	1978.12.29	F	1	1	2014.6.9	1		2	6/9	0002
3	AWAITING ASSIGNMENT	0001	2014.6.8	0003	KANJYA 3	2014.6.5	M	2	2	2014.6.9	2	200	6	6/9	0003
1	AWAITING ASSIGNMENT	0001	2014.6.8	0001	KANJYA 5	1978.1.19	M	1	1	2014.6.9	2	640	1	6/9	0004
4	AWAITING ASSIGNMENT	0001	2014.6.8	0004	KANJYA 4	1952.2.27	M	2	2	2014.6.9	2	300	4	6/9	0002
6	AWAITING ASSIGNMENT	0002	2014.6.9	0006	KANJYA 6	1978.11.22	F	2	3	2014.6.10	1		8	6/10	0005
7	AWAITING ASSIGNMENT	0002	2014.6.8	0007	KANJYA 7	1983.2.14	F	3	4	2014.6.10	2	300			

FIG. 30

3000		3001			3002	3003	3004	
REQUEST ID	REQUESTOR SITE	REQUEST DATE	IMAGE COUNT	ASSIGNMENT CHARACTERISTICS	CALCULATED SCORE	CALCULATED ASSIGNMENT ADEQUACY DEGREE	ASSIGNMENT INFORMATION INTERPRETATION DATE	ASSIGNMENT INFORMATION INTERPRETATION DOCTOR
5	HOSPITAL B	2014.6.7	4	MAMMO-MR	6	6/9:INTERPRETATION DOCTOR 3: CHARACTERISTICS 2*REMAINING COUNT 2=4 6/9:INTERPRETATION DOCTOR 5: CHARACTERISTICS 10*REMAINING COUNT 2=20	6/9	INTERPRETATION DOCTOR 5
2	HOSPITAL A	2014.6.8		HEAD CT (FILM)	4	6/9:INTERPRETATION DOCTOR 2: CHARACTERISTICS 10*REMAINING COUNT 2=20	6/9	INTERPRETATION DOCTOR 2
3	HOSPITAL A	2014.6.8	200	CHEST MR FOR INFANTS	7	6/9:INTERPRETATION DOCTOR 3: CHARACTERISTICS 10*REMAINING COUNT 2=20	6/9	INTERPRETATION DOCTOR 3
1	HOSPITAL A	2014.6.8	640	HEAD CT	6	6/9:INTERPRETATION DOCTOR 2: CHARACTERISTICS 10*REMAINING COUNT 1=10 6/9:INTERPRETATION DOCTOR 4: CHARACTERISTICS 10*REMAINING COUNT 2=20	6/9	INTERPRETATION DOCTOR 4
4	HOSPITAL A	2014.6.8	300	CHEST MR	5	6/9:INTERPRETATION DOCTOR 2: CHARACTERISTICS 5*REMAINING COUNT 1=5	6/9	INTERPRETATION DOCTOR 2
6	HOSPITAL B	2014.6.9		MAMMO-MR	6	6/10:INTERPRETATION DOCTOR 3: CHARACTERISTICS 2*REMAINING COUNT 1=2 6/10:INTERPRETATION DOCTOR 5: CHARACTERISTICS 10*REMAINING COUNT 3=30	6/10	INTERPRETATION DOCTOR 5
7	HOSPITAL B	2014.6.8	300				NO ASSIGNMENT	NO ASSIGNMENT

FIG. 31

	6/9 MON.	6/10 TUE.
INTERPRETATION DOCTOR 1	0/2 (0/10)	0/1 (0/5)
INTERPRETATION DOCTOR 2	2/2 (10/10)	0/0 (0/0)
INTERPRETATION DOCTOR 3	1/2 (7/10)	0/1 (0/5)
INTERPRETATION DOCTOR 4	1/2 (4/10)	0/2 (0/10)
INTERPRETATION DOCTOR 5	1/2 (6/10)	1/3 (6/15)

3101

3101

VALUES IN THE TABLE: ASSIGNED COUNT/ASSIGNABLE COUNT
(ASSIGNED SCORE/ASSIGNABLE SCORE)

FIG. 32

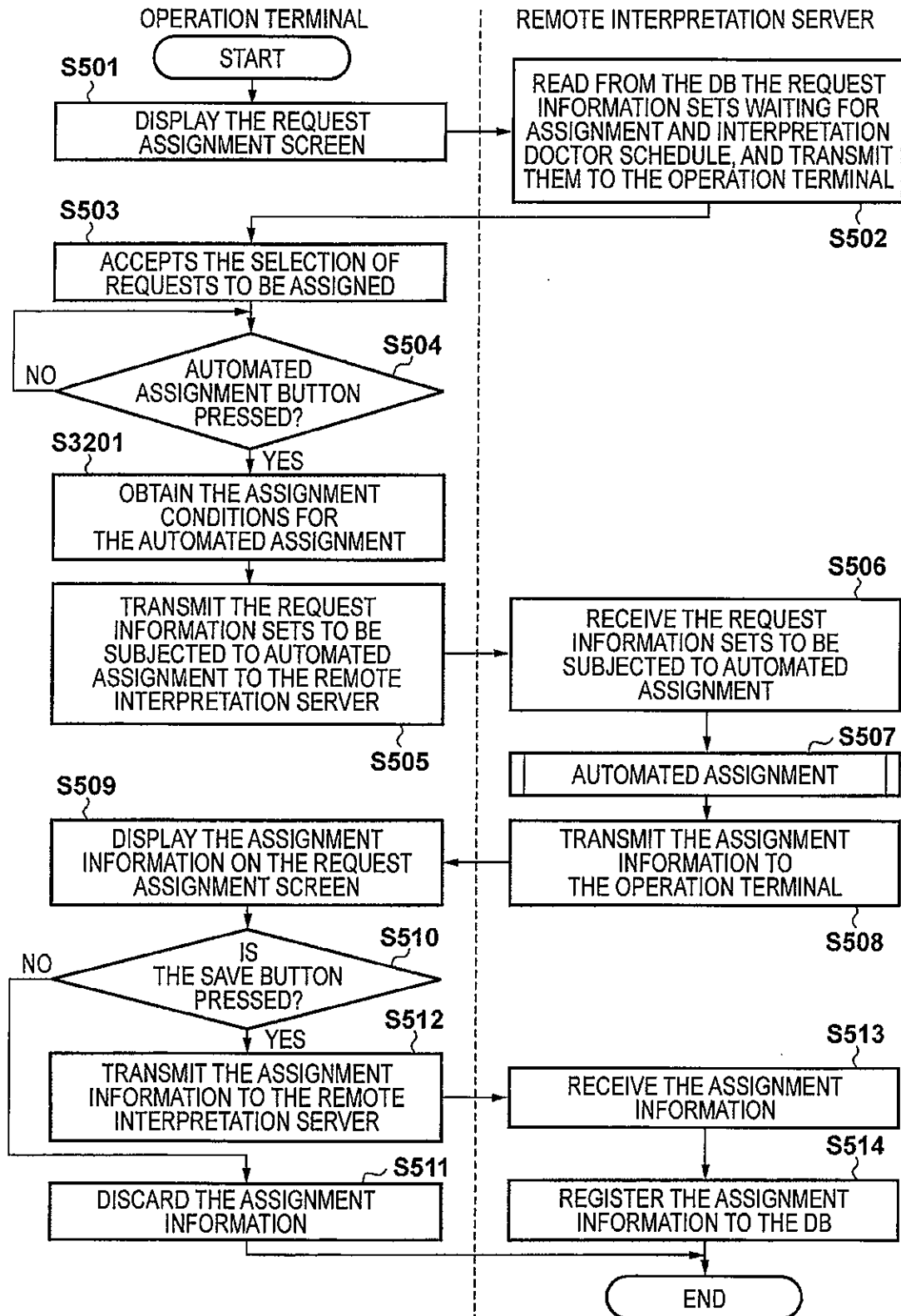


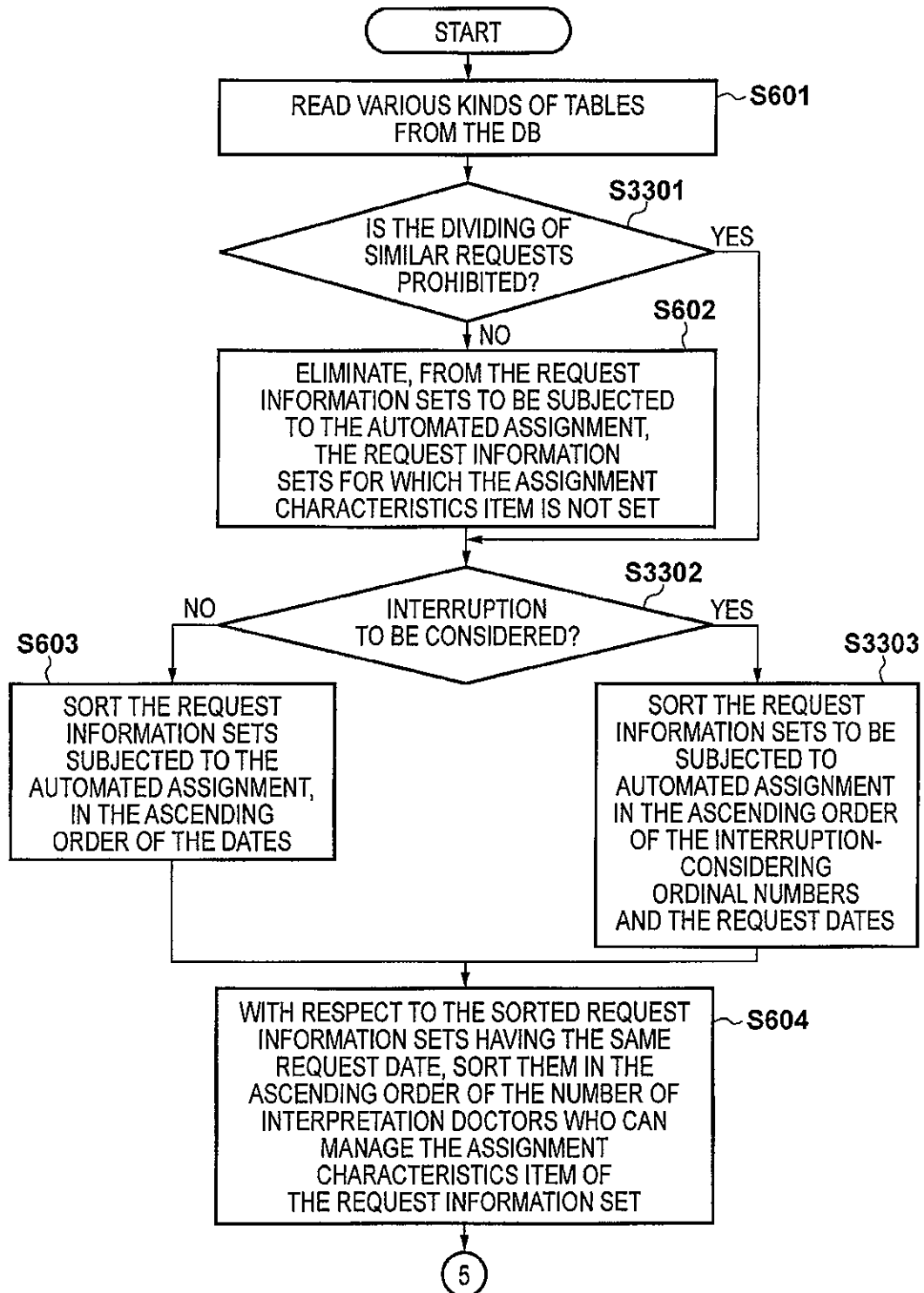
FIG. 33A

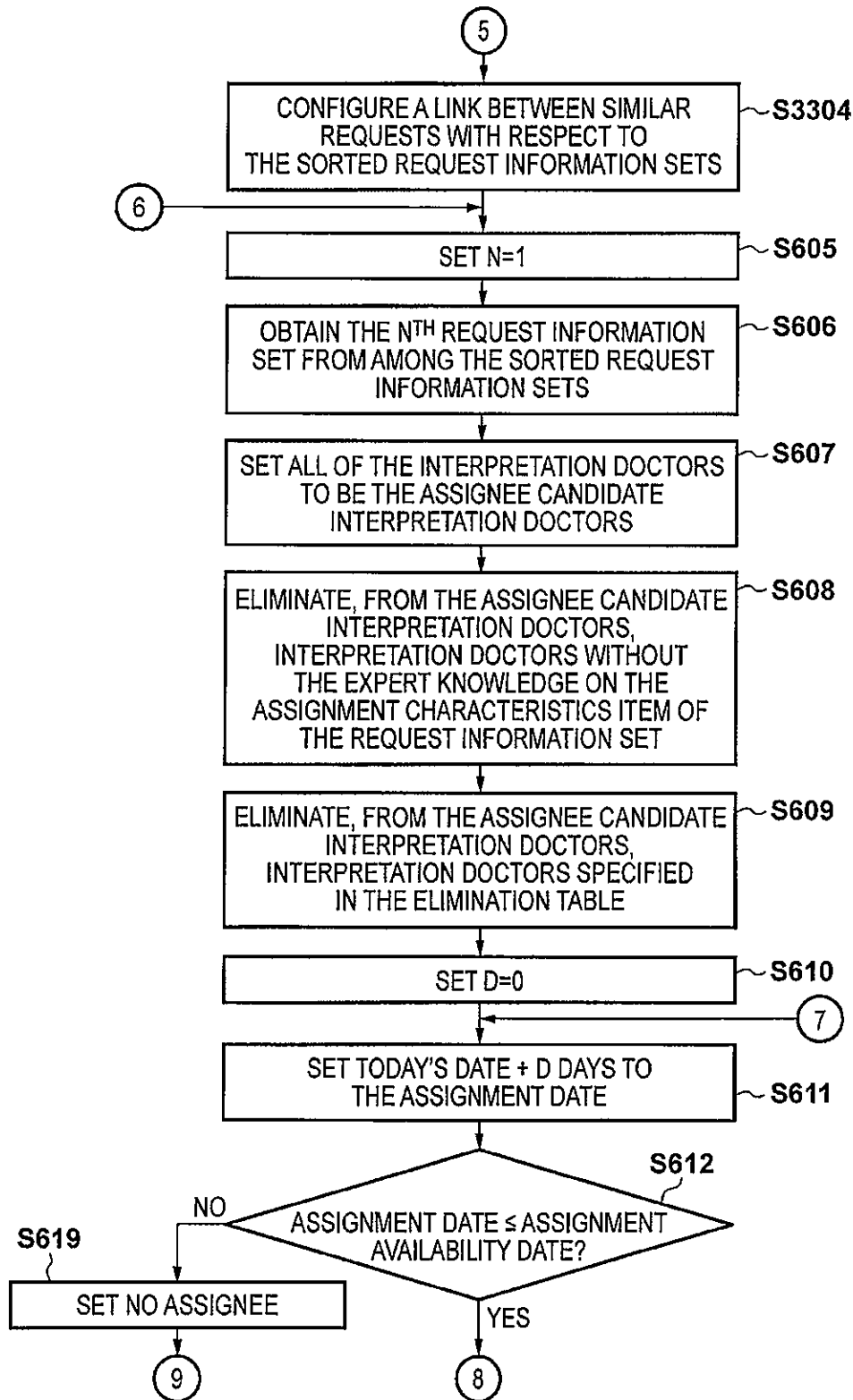
FIG. 33B

FIG. 33C

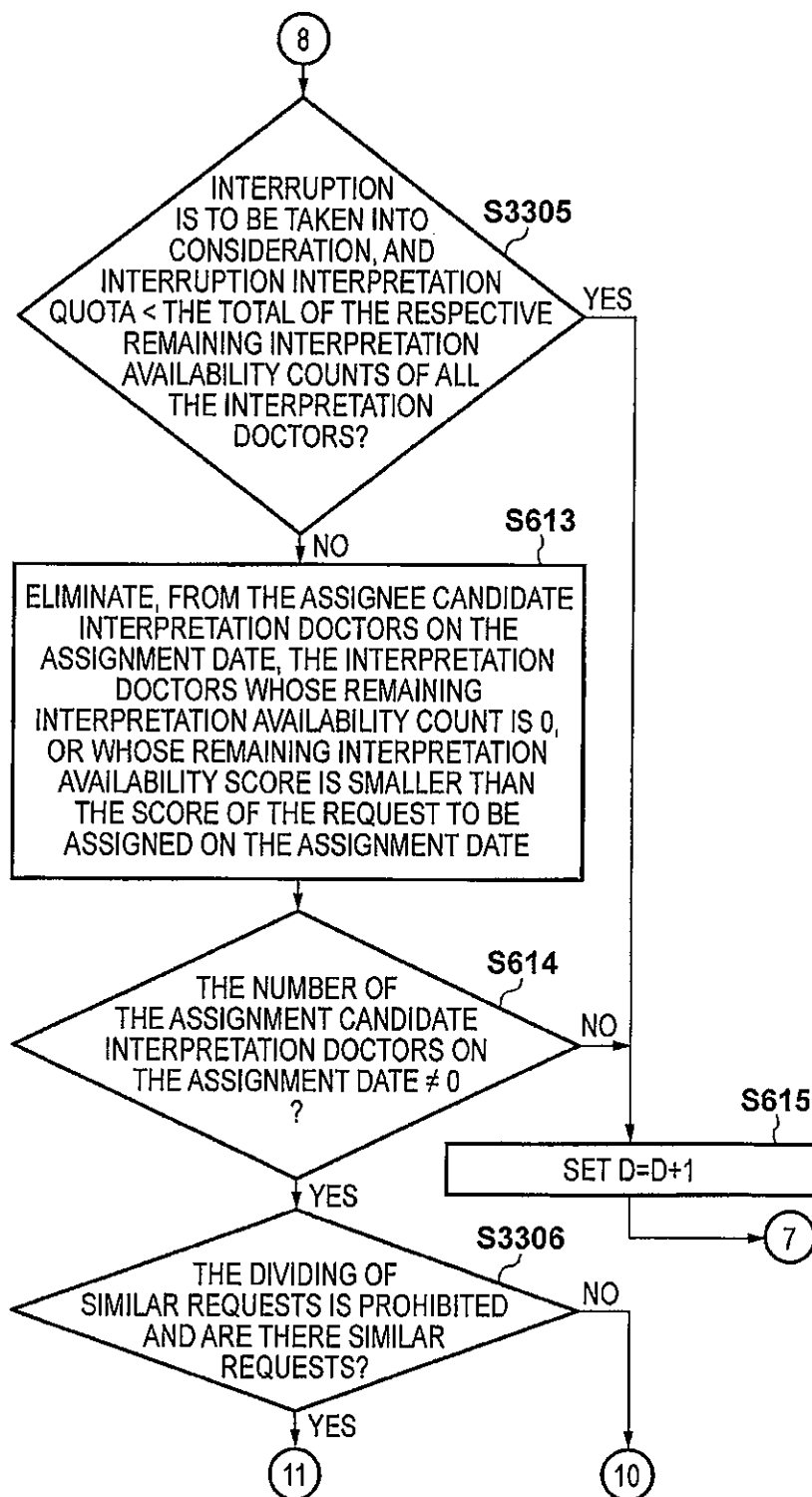


FIG. 33D

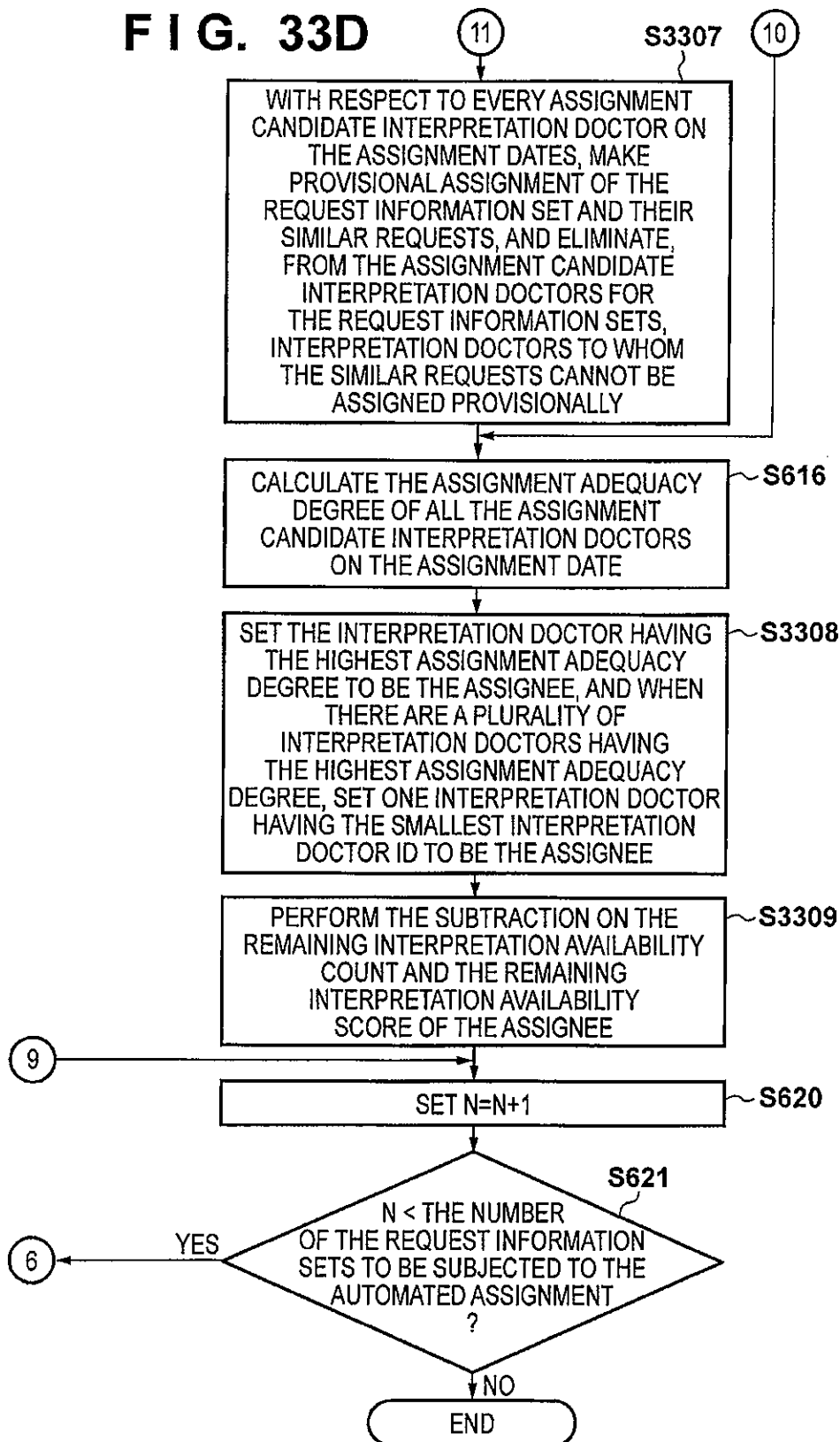


FIG. 34

3400

ASSIGNMENT CONDITION SETTING

DIVIDING OF
SIMILAR REQUESTS

☒ PROHIBIT ☐ PERMIT

3401

SIMILARITY CONDITIONS

3402

☒ SAME PATIENT

3403

☐ SAME
EXAMINATION TYPE

3405

☐ SAME
EXAMINATION DATE

3404

☐ SAME REQUEST DATE

3405

INTERRUPTION
INTERPRETATION QUOTA

☐ DO NOT CONSIDER ☒ CONSIDER

3406

QUOTA'S
PROPORTION

5%

▼

3407

INCREMENT TYPE

LINEAR

▼

3408

3409

START ASSIGNMENT

FIG. 35

3501	3502
REQUESTOR SITE ID	INTERRUPTION-CONSIDERING ORDINAL NUMBER
0001	1
0002	2
0003	2

3500