FIG. 1

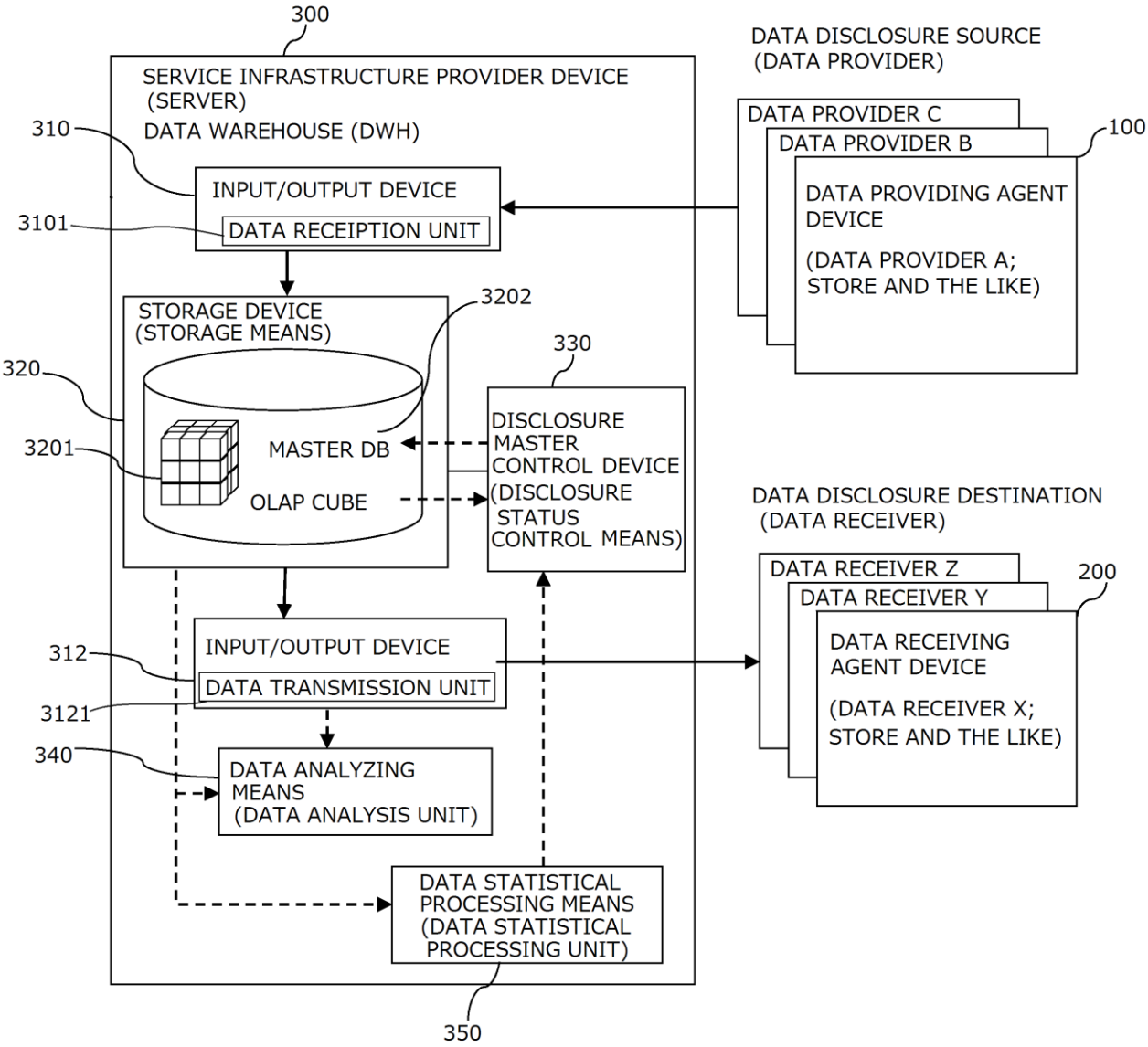

300
SERVICE INFRASTRUCTURE PROVIDER DEVICE
(SERVER)
DATA WAREHOUSE (DWH)
310
INPUT/OUTPUT DEVICE
3101
DATA RECEIPTION UNIT
STORAGE DEVICE
(STORAGE MEANS)
3202
320
330
3201
MASTER DB
OLAP CUBE
DISCLOSURE
MASTER
CONTROL DEVICE
(DISCLOSURE
STATUS
CONTROL MEANS)
312
INPUT/OUTPUT DEVICE
DATA TRANSMISSION UNIT
3121
340
DATA ANALYZING
MEANS
(DATA ANALYSIS UNIT)
DATA STATISTICAL
PROCESSING MEANS
(DATA STATISTICAL
PROCESSING UNIT)
350
DATA DISCLOSURE SOURCE
(DATA PROVIDER)
DATA PROVIDER C
DATA PROVIDER B
100
DATA PROVIDING AGENT
DEVICE
(DATA PROVIDER A;
STORE AND THE LIKE)
DATA DISCLOSURE DESTINATION
(DATA RECEIVER)
DATA RECEIVER Z
DATA RECEIVER Y
200
DATA RECEIVING
AGENT DEVICE
(DATA RECEIVER X;
STORE AND THE LIKE)

FIG. 2

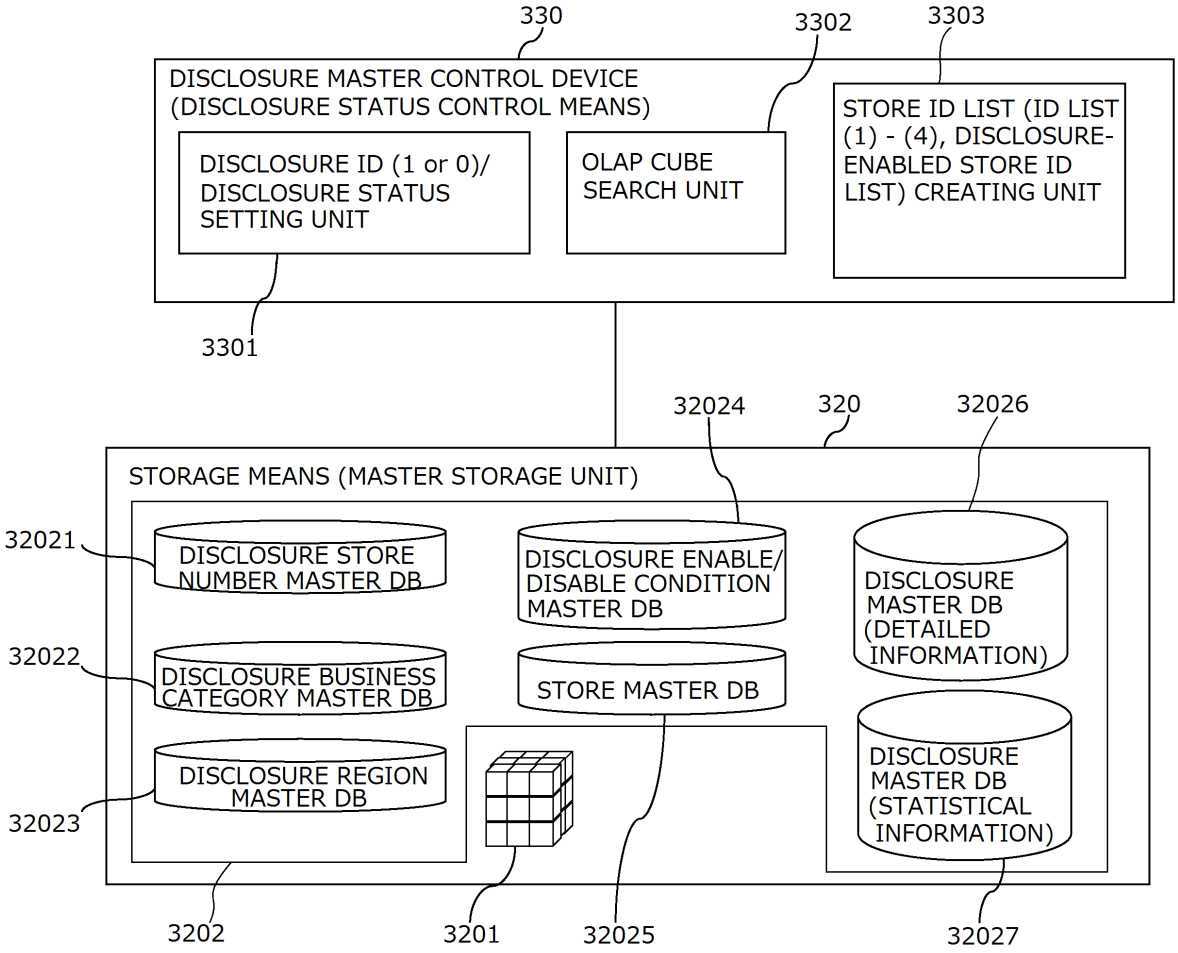

330
3302
3303
DISCLOSURE MASTER CONTROL DEVICE
(DISCLOSURE STATUS CONTROL MEANS)
DISCLOSURE ID (1 or 0)/
DISCLOSURE STATUS
SETTING UNIT
OLAP CUBE
SEARCH UNIT
STORE ID LIST (ID LIST
(1) - (4), DISCLOSURE-
ENABLED STORE ID
LIST) CREATING UNIT
3301
32024
320
32026
STORAGE MEANS (MASTER STORAGE UNIT)
32021
DISCLOSURE STORE
NUMBER MASTER DB
DISCLOSURE ENABLE/
DISABLE CONDITION
MASTER DB
DISCLOSURE
MASTER DB
(DETAILED
INFORMATION)
32022
DISCLOSURE BUSINESS
CATEGORY MASTER DB
STORE MASTER DB
32023
DISCLOSURE REGION
MASTER DB
DISCLOSURE
MASTER DB
(STATISTICAL
INFORMATION)
3202
3201
32025
32027

FIG. 3

OLAP CUBE DATA (DATA WAREHOUSE)

T3

T31 DATA OWNER STORE ID	T32 HOUR	T33 LOCATION	T34 NUMBER OF CUSTOMERS	T35 SALES AMOUNT
1	0 O'CLOCK	··· GOTANDA 1-1-1	12	JPY29,000
1	1 O'CLOCK	··· GOTANDA 1-1-1	32	JPY48,000
1	2 O'CLOCK	··· GOTANDA 1-1-1	14	JPY30,000
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
2	0 O'CLOCK	··· GOTANDA 1-1-3	41	JPY60,000
2	1 O'CLOCK	··· GOTANDA 1-1-3	36	JPY90,000
2	2 O'CLOCK	··· GOTANDA 1-1-3	17	JPY50,000
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
3	0 O'CLOCK	··· GOTANDA 1-1-2	22	JPY60,000
3	1 O'CLOCK	··· GOTANDA 1-1-2	31	JPY90,000
3	2 O'CLOCK	··· GOTANDA 1-1-2	11	JPY50,000
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

FIG. 4 DISCLOSURE STORE NUMBER MASTER

T4

T41 DISCLOSURE STORE NUMBER ID	T42 NUMBER OF STORES
1	ALL
2	1 THROUGH 10
3	11 THROUGH 20
4	21 THROUGH 50
5	51 THROUGH 100
6	101 THROUGH 200
7	201 THROUGH 500
8	501 OR MORE

FIG. 5 DISCLOSURE BUSINESS CATEGORY MASTER

T5

T51 DISCLOSURE BUSINESS CATEGORY ID	T52 BUSINESS CATEGORY
1	ALL CLASSIFICATIONS
2	LARGE CLASSIFICATION
3	MIDDLE CLASSIFICATION
4	SMALL CLASSIFICATION

FIG. 6 DISCLOSURE REGION MASTER

T6

T61 DISCLOSURE REGION ID	T62 REGION
1	WHOLE COUNTRY
2	PREFECTURE
3	MUNICIPALITY
4	REGION

FIG. 7

DISCLOSURE ENABLE/DISABLE CONDITION MASTER

T7

T71 DISCLOSURE ID	T72 DISCLOSURE ENABLE/ DISABLE CONDITION
0	NO DISCLOSURE
1	DISCLOSE

FIG. 8

STORE MASTER

T8

T81 STORE ID	T82 STORE NAME	T83 ADDRESS	T84 BUSINESS CATEGORY	T85 AFFILIA-TION	・・・
1	PUB A	… GOTANDA 1-1-1	1	0	
2	PUB B	… GOTANDA 1-1-3	1	0	
3	ITALIAN C	… GOTANDA 1-1-2	3	0	
4	PUB D	…1-1-1, NISHI-KU, YOKOHAMA	1	1	
・	・	・	・	・	・
・	・	・	・	・	・
・	・	・	・	・	・

FIG. 9 DISCLOSURE MASTER (DETAILED INFORMATION/DETAILED DATA)

T9

T91 DISCLOSURE SOURCE STORE ID	T92 DISCLOSURE DESTINATION STORE ID	T93 DISCLOSURE BUSINESS CATEGORY ID	T94 DISCLOSURE REGION ID	T95 DISCLOSURE ID
1	2	1	1	0
1	2	1	2	0
1	2	1	3	0
1	2	1	4	0
1	2	2	1	0
1	2	2	2	1
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
1	2	4	4	1
1	3	1	1	0
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

FIG. 10

DISCLOSURE MASTER
(STATISTICAL INFORMATION/STATISTICAL DATA)

T10

T11 DISCLOSURE SOURCE STORE ID	T12 DISCLOSURE STORE NUMBER ID	T13 DISCLOSURE ID
1	1	0
1	2	0
1	3	0
1	4	0
1	5	1
1	6	1
1	7	1
1	8	1
2	1	0
.	.	.
.	.	.
.	.	.
2	8	1
3	1	0
.	.	.
.	.	.
.	.	.

FIG. 11

SETTING OF DISCLOSURE ENABLE/DISABLE CONDITION MASTER IN FIG. 7

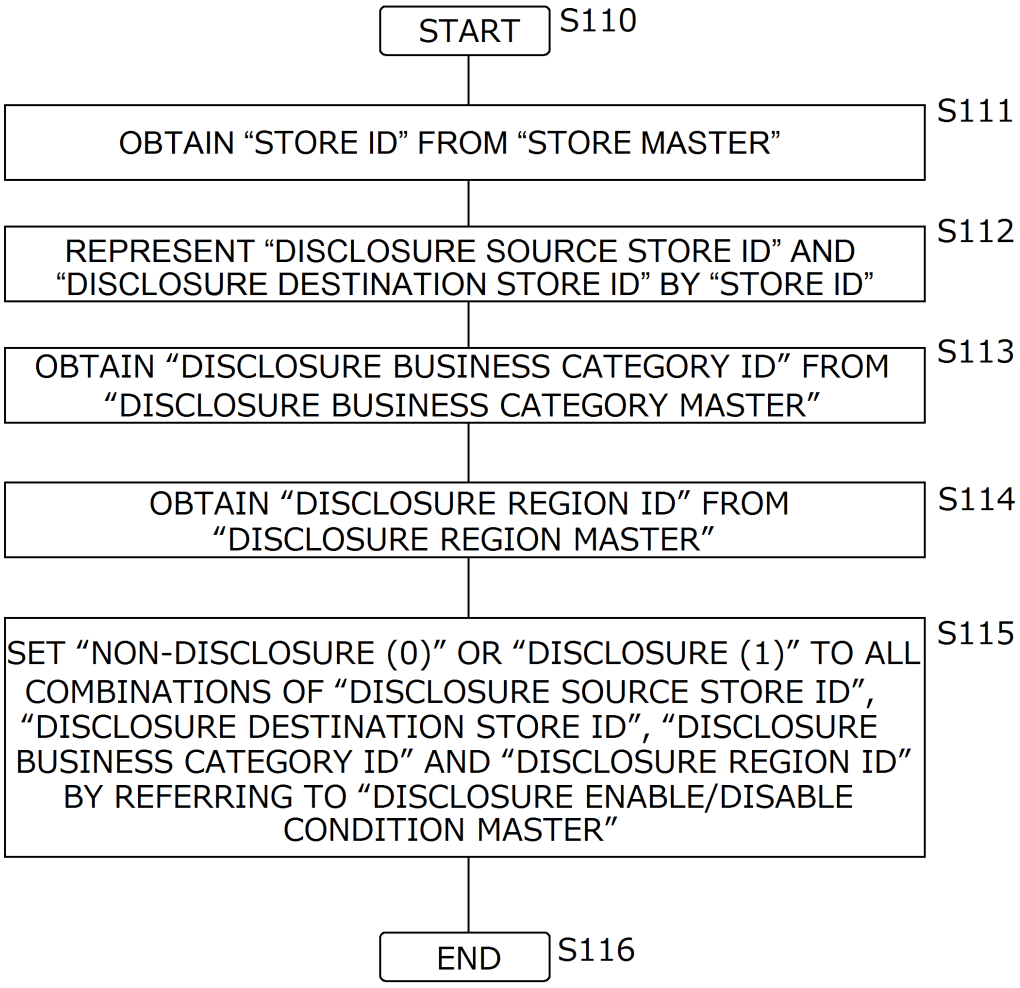


FIG. 12

SETTING OF DISCLOSURE MASTER (STATISTICAL INFORAMTION/STATISTICAL DATA) IN FIG. 10

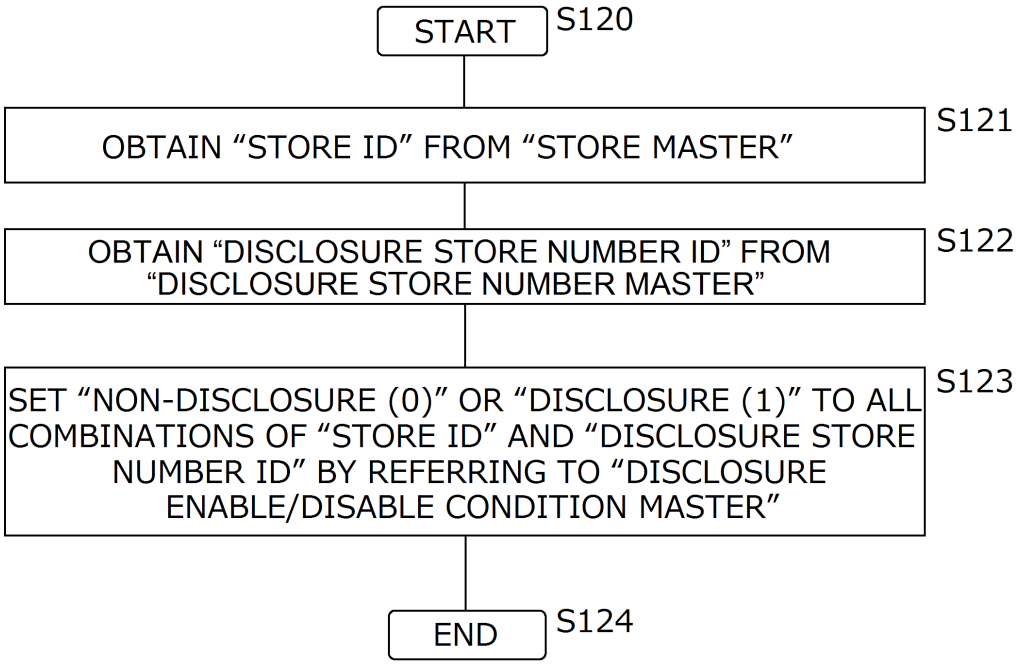


FIG. 13

PROCESSING WITH RESPECT TO DETAILED INFORMATION (DETAILED DATA) REQUEST

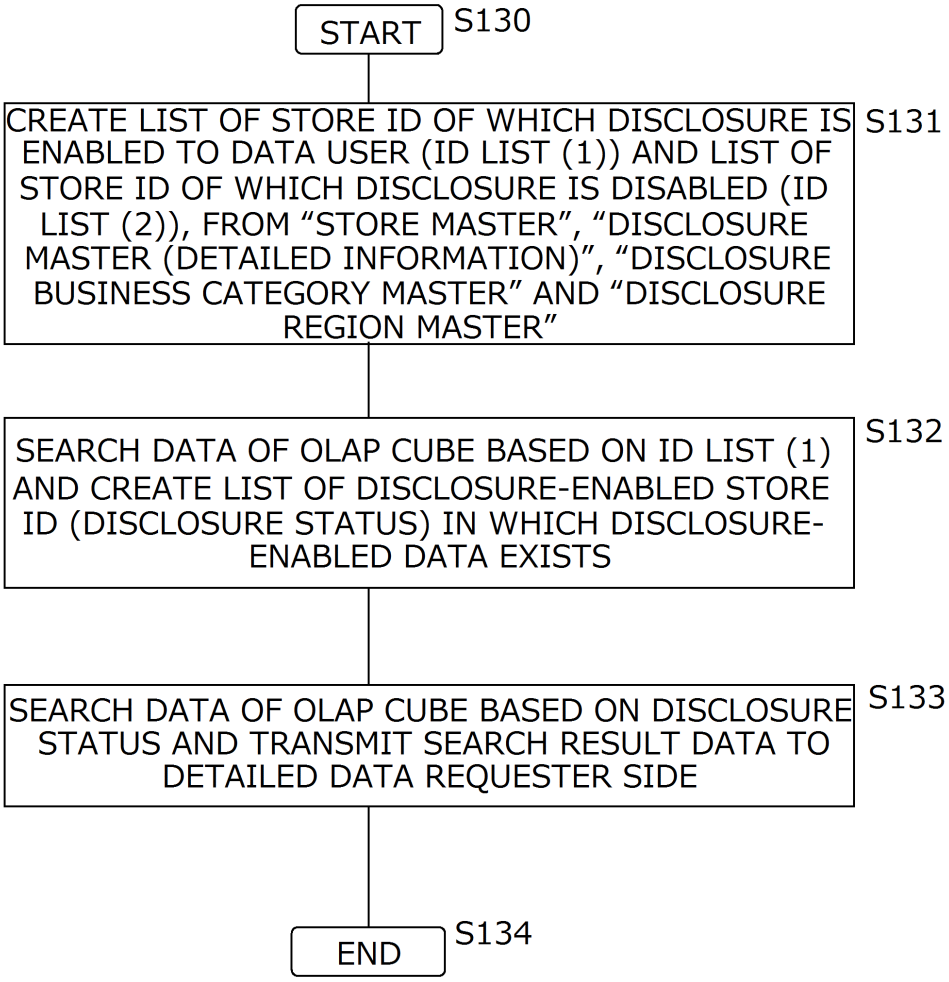


FIG. 14

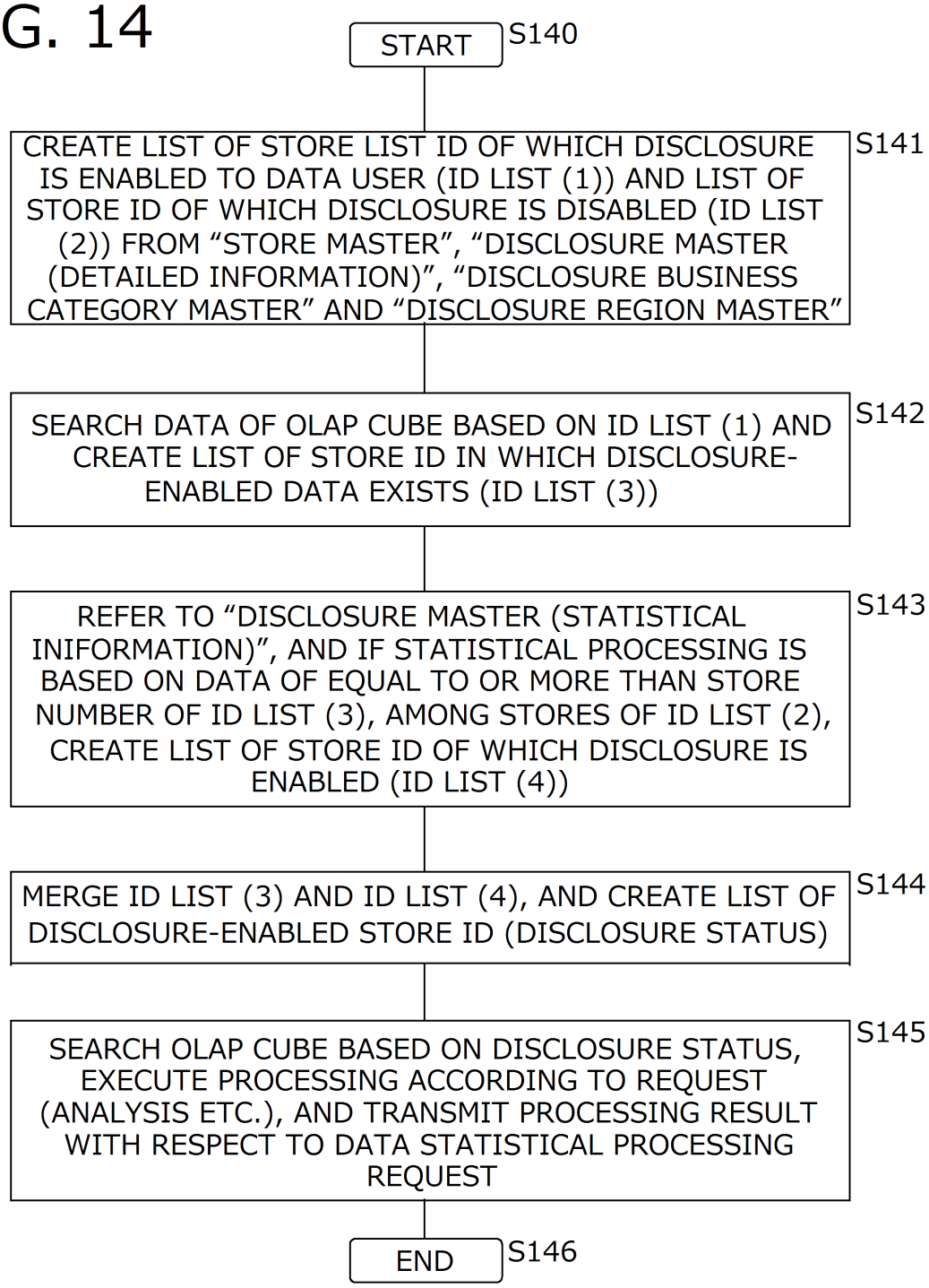
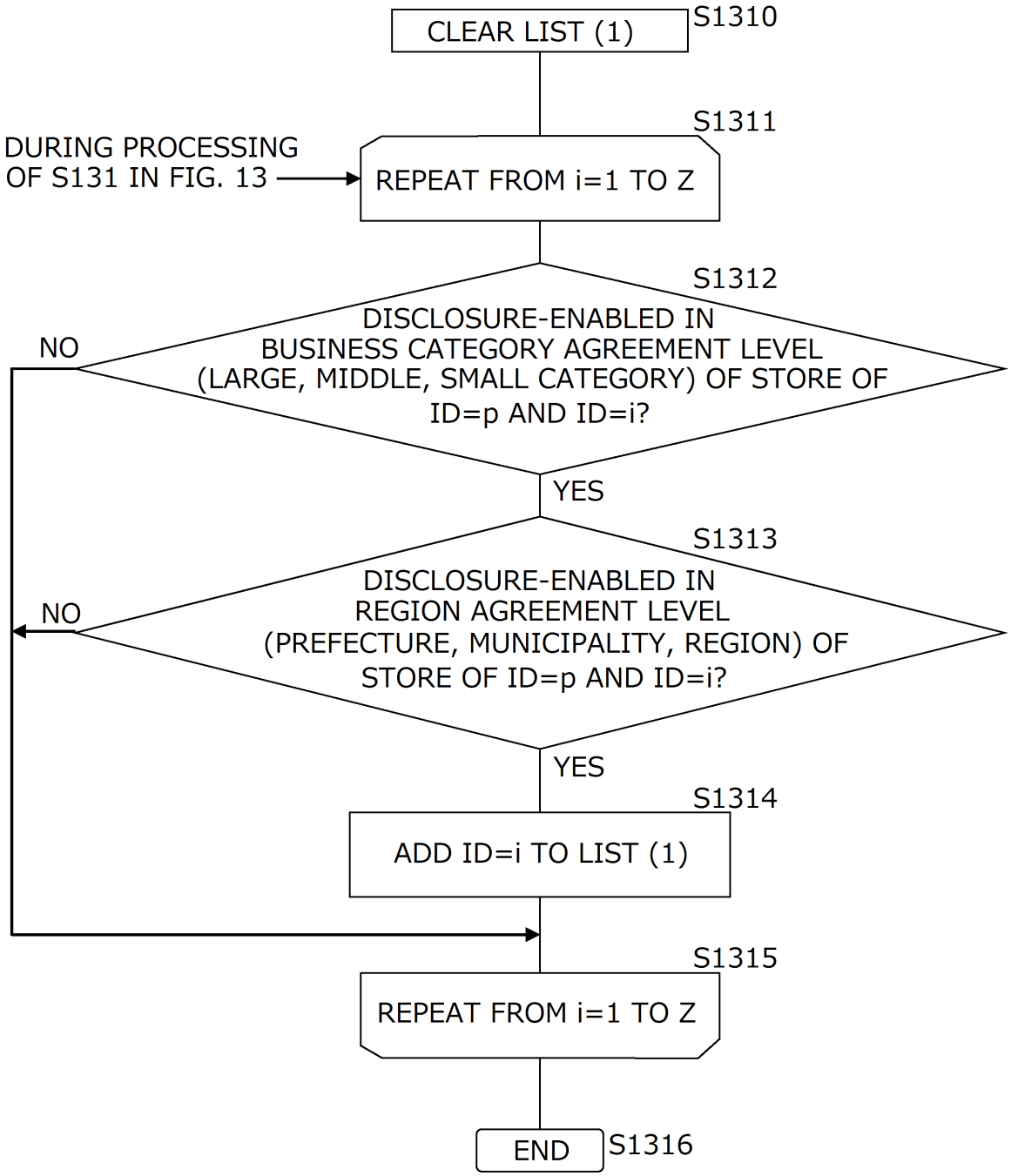

START
S140
CREATE LIST OF STORE LIST ID OF WHICH DISCLOSURE IS ENABLED TO DATA USER (ID LIST (1)) AND LIST OF STORE ID OF WHICH DISCLOSURE IS DISABLED (ID LIST (2)) FROM "STORE MASTER", "DISCLOSURE MASTER (DETAILED INFORMATION)", "DISCLOSURE BUSINESS CATEGORY MASTER" AND "DISCLOSURE REGION MASTER"
S141
SEARCH DATA OF OLAP CUBE BASED ON ID LIST (1) AND CREATE LIST OF STORE ID IN WHICH DISCLOSURE-ENABLED DATA EXISTS (ID LIST (3))
S142
REFER TO "DISCLOSURE MASTER (STATISTICAL INIFORMATION)", AND IF STATISTICAL PROCESSING IS BASED ON DATA OF EQUAL TO OR MORE THAN STORE NUMBER OF ID LIST (3), AMONG STORES OF ID LIST (2), CREATE LIST OF STORE ID OF WHICH DISCLOSURE IS ENABLED (ID LIST (4))
S143
MERGE ID LIST (3) AND ID LIST (4), AND CREATE LIST OF DISCLOSURE-ENABLED STORE ID (DISCLOSURE STATUS)
S144
SEARCH OLAP CUBE BASED ON DISCLOSURE STATUS, EXECUTE PROCESSING ACCORDING TO REQUEST (ANALYSIS ETC.), AND TRANSMIT PROCESSING RESULT WITH RESPECT TO DATA STATISTICAL PROCESSING REQUEST
S145
END
S146

FIG. 15


CLEAR LIST (1)
S1310
S1311
DURING PROCESSING OF S131 IN FIG. 13
REPEAT FROM i=1 TO Z
S1312
DISCLOSURE-ENABLED IN BUSINESS CATEGORY AGREEMENT LEVEL (LARGE, MIDDLE, SMALL CATEGORY) OF STORE OF ID=p AND ID=i?
NO
YES
S1313
DISCLOSURE-ENABLED IN REGION AGREEMENT LEVEL (PREFECTURE, MUNICIPALITY, REGION) OF STORE OF ID=p AND ID=i?
NO
YES
S1314
ADD ID=i TO LIST (1)
S1315
REPEAT FROM i=1 TO Z
END
S1316