Fig.1

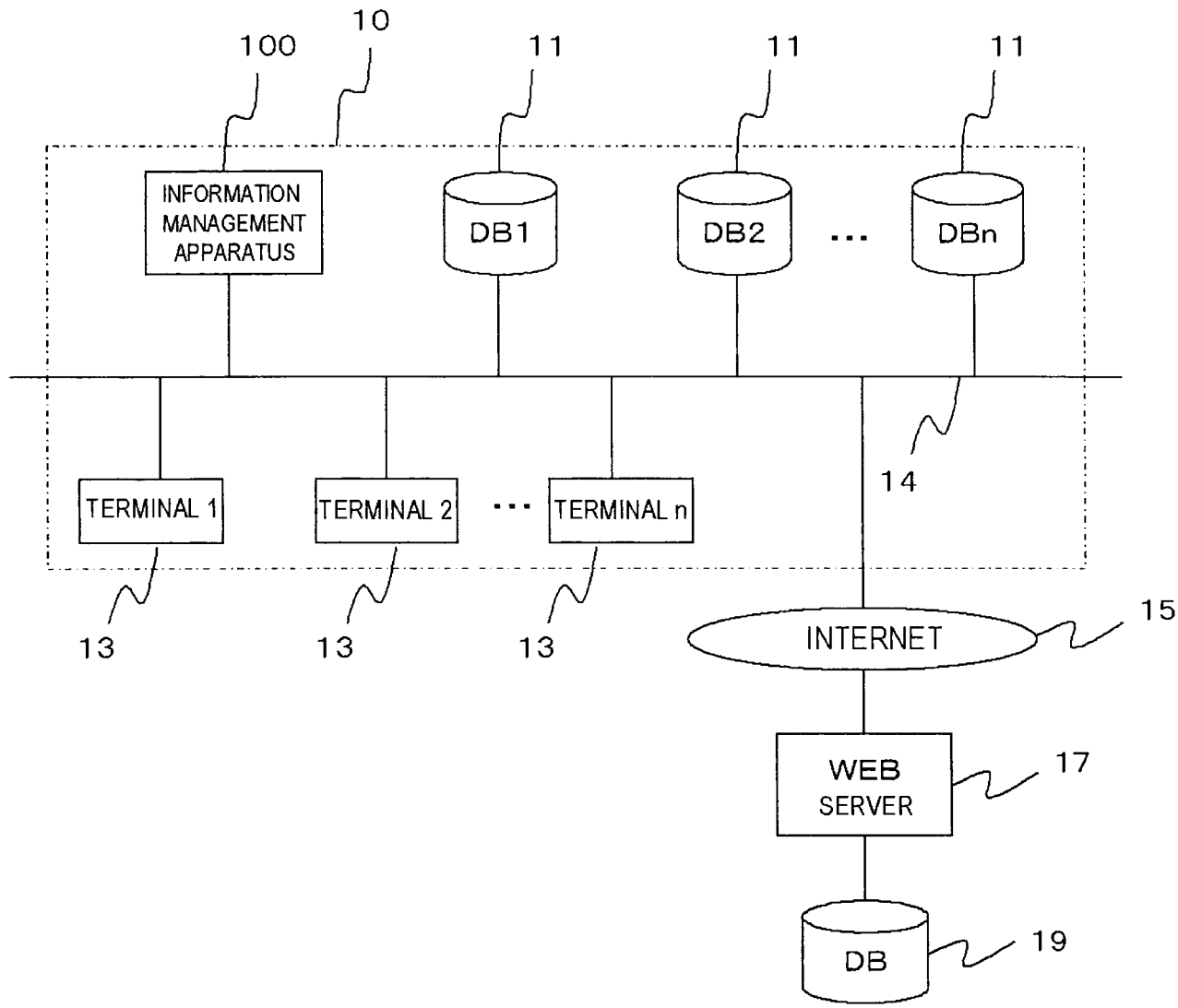

100
10
11
11
11
INFORMATION MANAGEMENT APPARATUS
DB1
DB2
...
DBn
14
TERMINAL 1
TERMINAL 2
...
TERMINAL n
13
13
13
INTERNET
15
WEB SERVER
17
DB
19

Fig.2

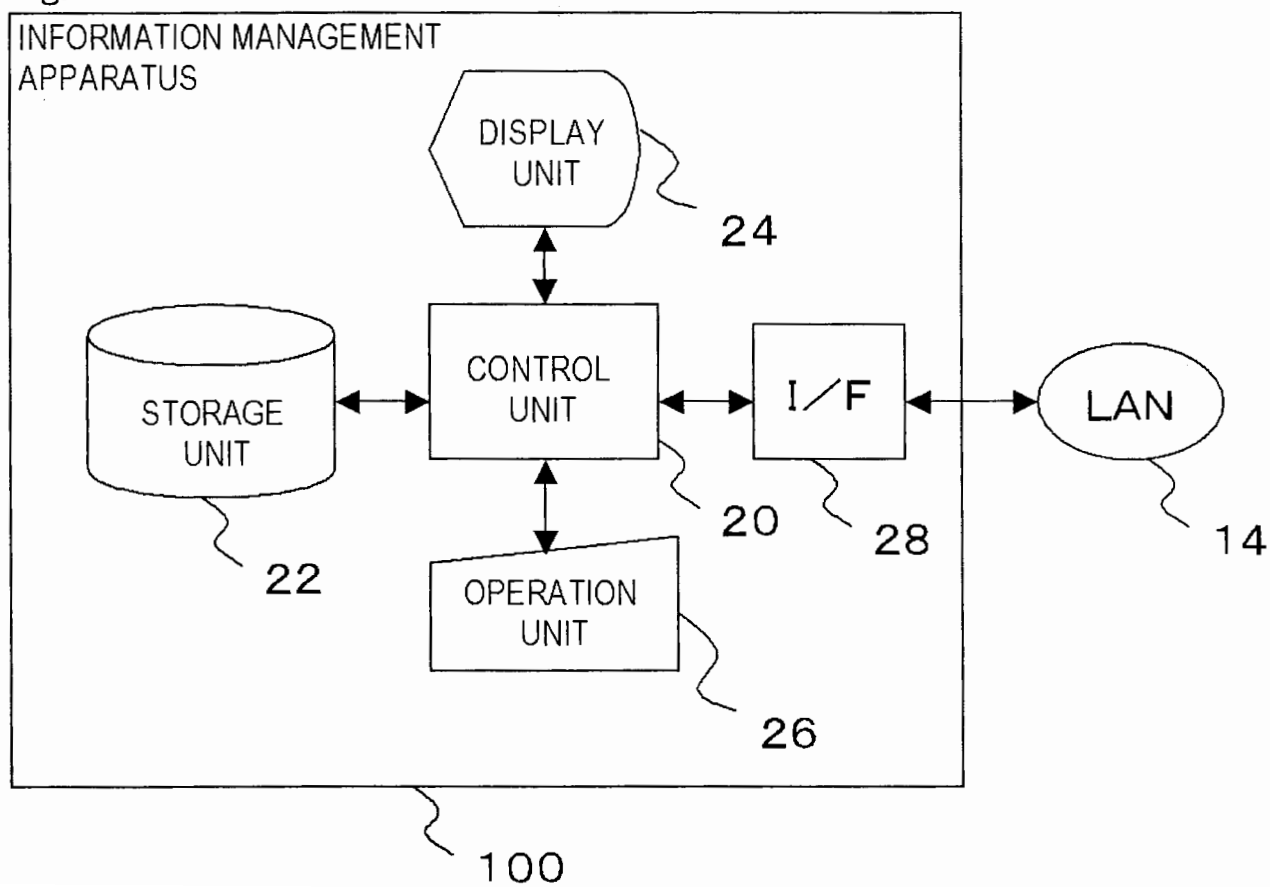

INFORMATION MANAGEMENT APPARATUS
DISPLAY UNIT
24
CONTROL UNIT
STORAGE UNIT
I/F
LAN
20
28
14
22
OPERATION UNIT
26
100

Fig.3

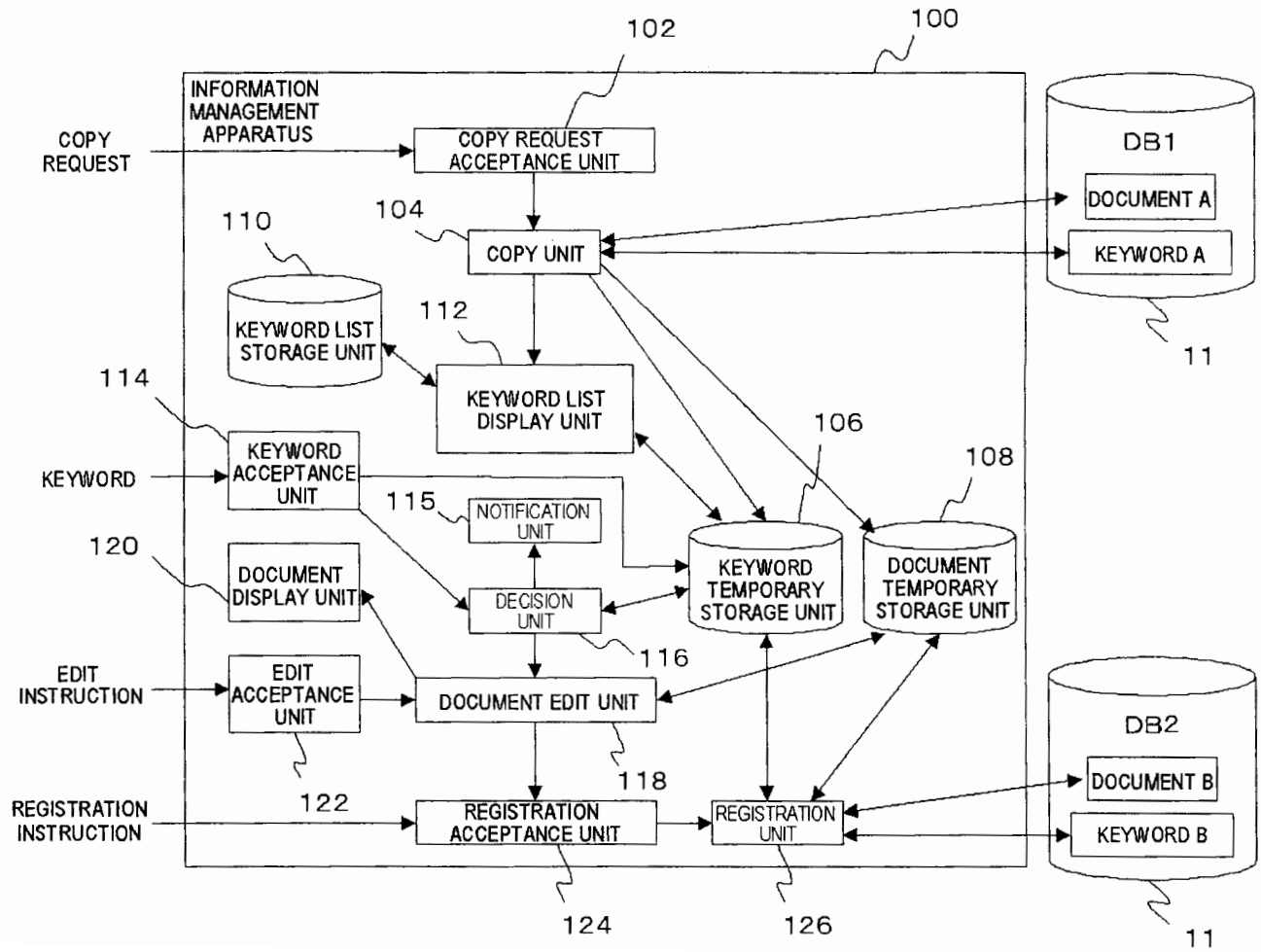

100
102
INFORMATION MANAGEMENT APPARATUS
COPY REQUEST
COPY REQUEST ACCEPTANCE UNIT
DB1
DOCUMENT A
KEYWORD A
11
104
COPY UNIT
110
KEYWORD LIST STORAGE UNIT
112
KEYWORD LIST DISPLAY UNIT
114
KEYWORD
KEYWORD ACCEPTANCE UNIT
106
108
115
NOTIFICATION UNIT
KEYWORD TEMPORARY STORAGE UNIT
DOCUMENT TEMPORARY STORAGE UNIT
120
DOCUMENT DISPLAY UNIT
DECISION UNIT
116
EDIT INSTRUCTION
EDIT ACCEPTANCE UNIT
DOCUMENT EDIT UNIT
DB2
DOCUMENT B
KEYWORD B
11
118
122
REGISTRATION INSTRUCTION
REGISTRATION ACCEPTANCE UNIT
REGISTRATION UNIT
124
126

Fig.4

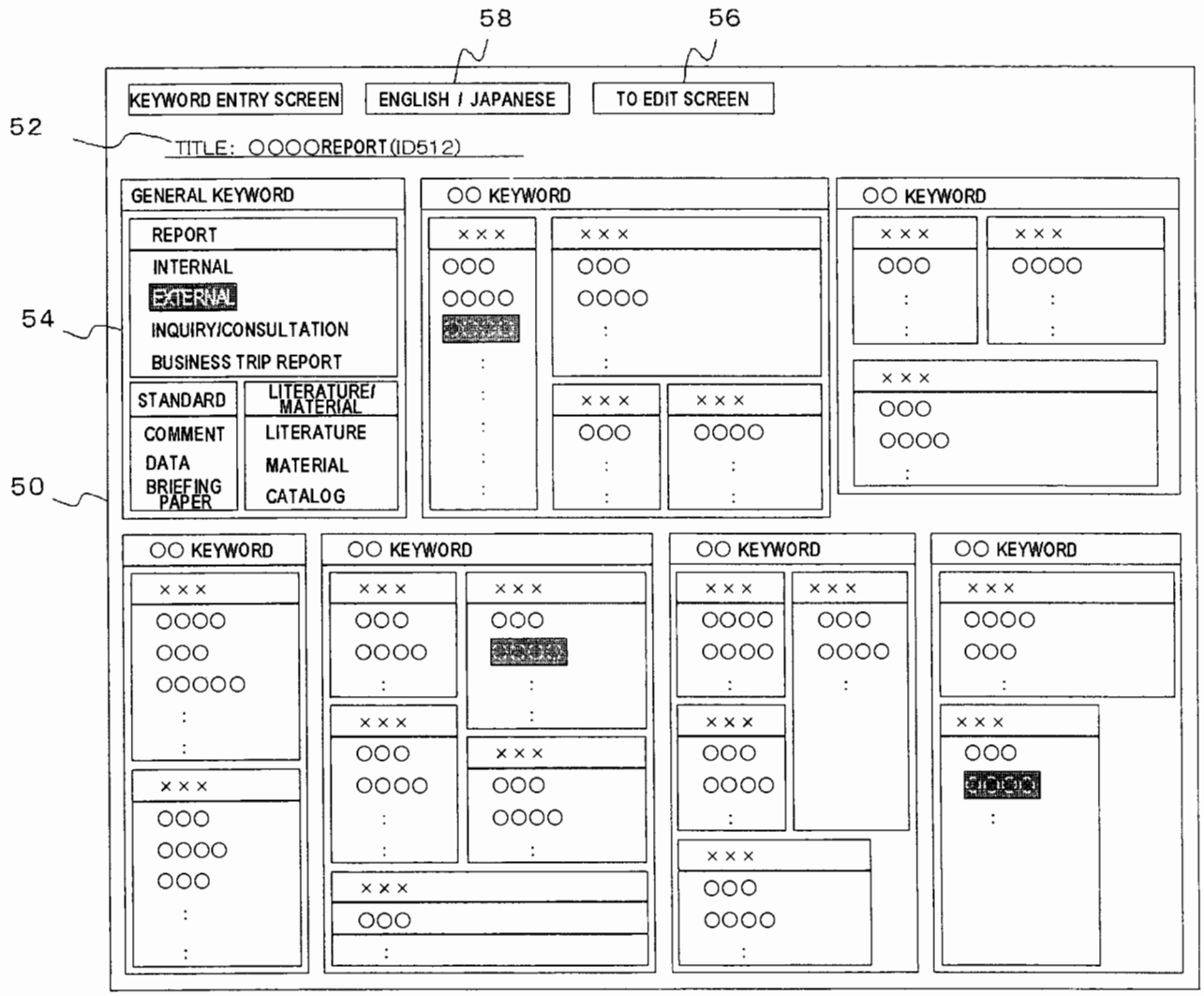

58
56
KEYWORD ENTRY SCREEN
ENGLISH / JAPANESE
TO EDIT SCREEN
52
TITLE: ○○○○REPORT(ID512)
GENERAL KEYWORD
REPORT
INTERNAL
EXTERNAL
INQUIRY/CONSULTATION
BUSINESS TRIP REPORT
54
STANDARD
COMMENT
DATA
BRIEFING PAPER
LITERATURE/ MATERIAL
LITERATURE
MATERIAL
CATALOG
50
○○ KEYWORD
××× ○○○ ○○○○
××× ○○○ ○○○○
××× ○○○ ○○○○
××× ○○○ ○○○○

Fig.5

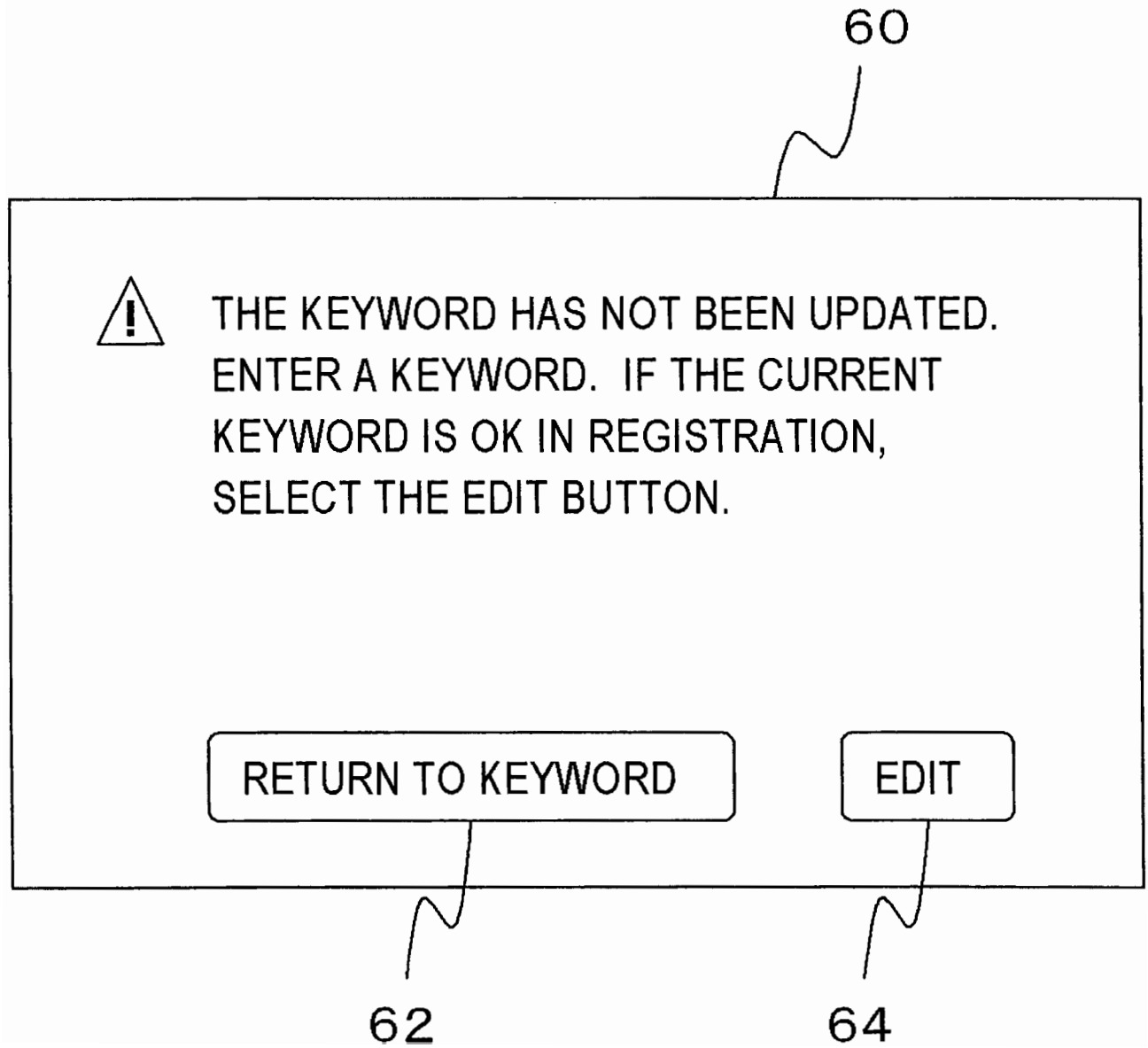

60
THE KEYWORD HAS NOT BEEN UPDATED.
ENTER A KEYWORD. IF THE CURRENT
KEYWORD IS OK IN REGISTRATION,
SELECT THE EDIT BUTTON.
RETURN TO KEYWORD
EDIT
62
64

Fig.6

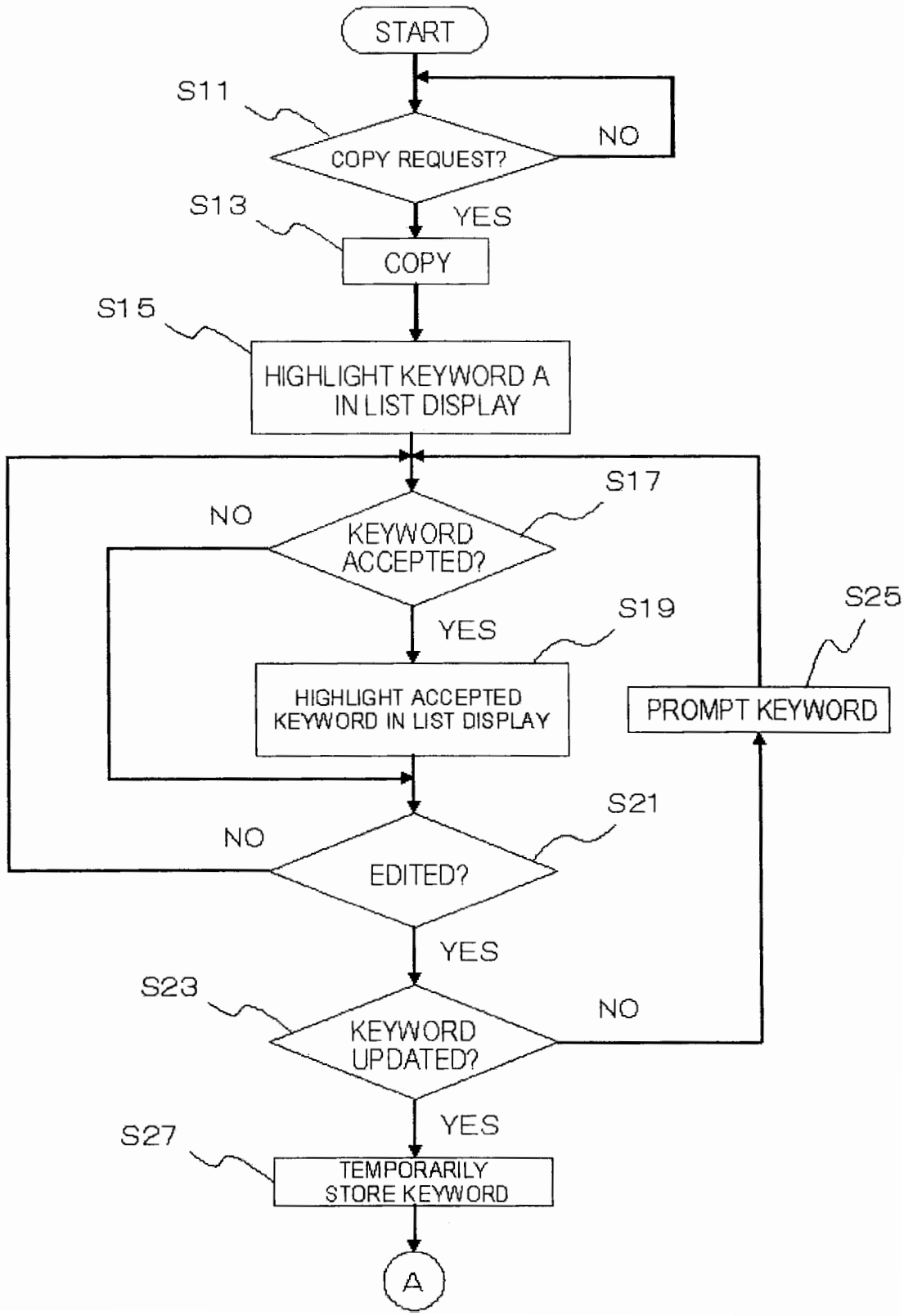

START
S11
COPY REQUEST?
NO
YES
S13
COPY
S15
HIGHLIGHT KEYWORD A IN LIST DISPLAY
S17
NO
KEYWORD ACCEPTED?
YES
S19
HIGHLIGHT ACCEPTED KEYWORD IN LIST DISPLAY
S25
PROMPT KEYWORD
S21
NO
EDITED?
YES
S23
KEYWORD UPDATED?
NO
YES
S27
TEMPORARILY STORE KEYWORD
A

Fig.7

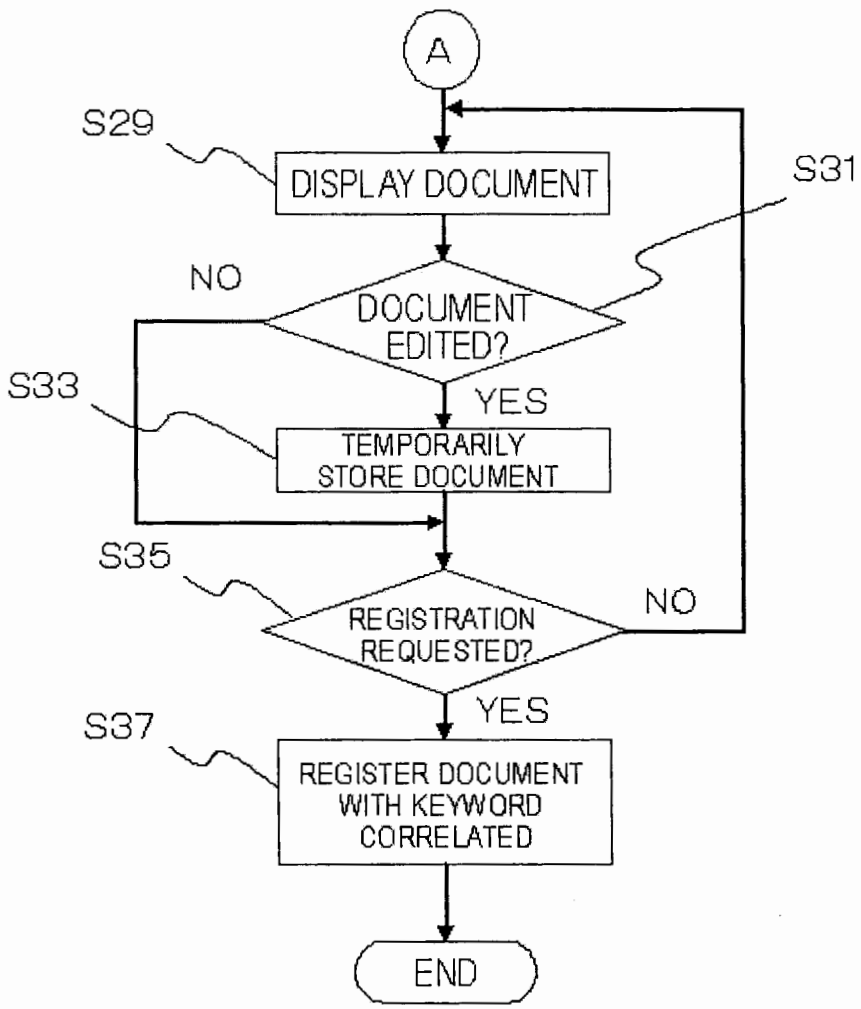

A
S29
DISPLAY DOCUMENT
S31
NO
DOCUMENT EDITED?
S33
YES
TEMPORARILY STORE DOCUMENT
S35
NO
REGISTRATION REQUESTED?
YES
S37
REGISTER DOCUMENT WITH KEYWORD CORRELATED
END

Fig.8

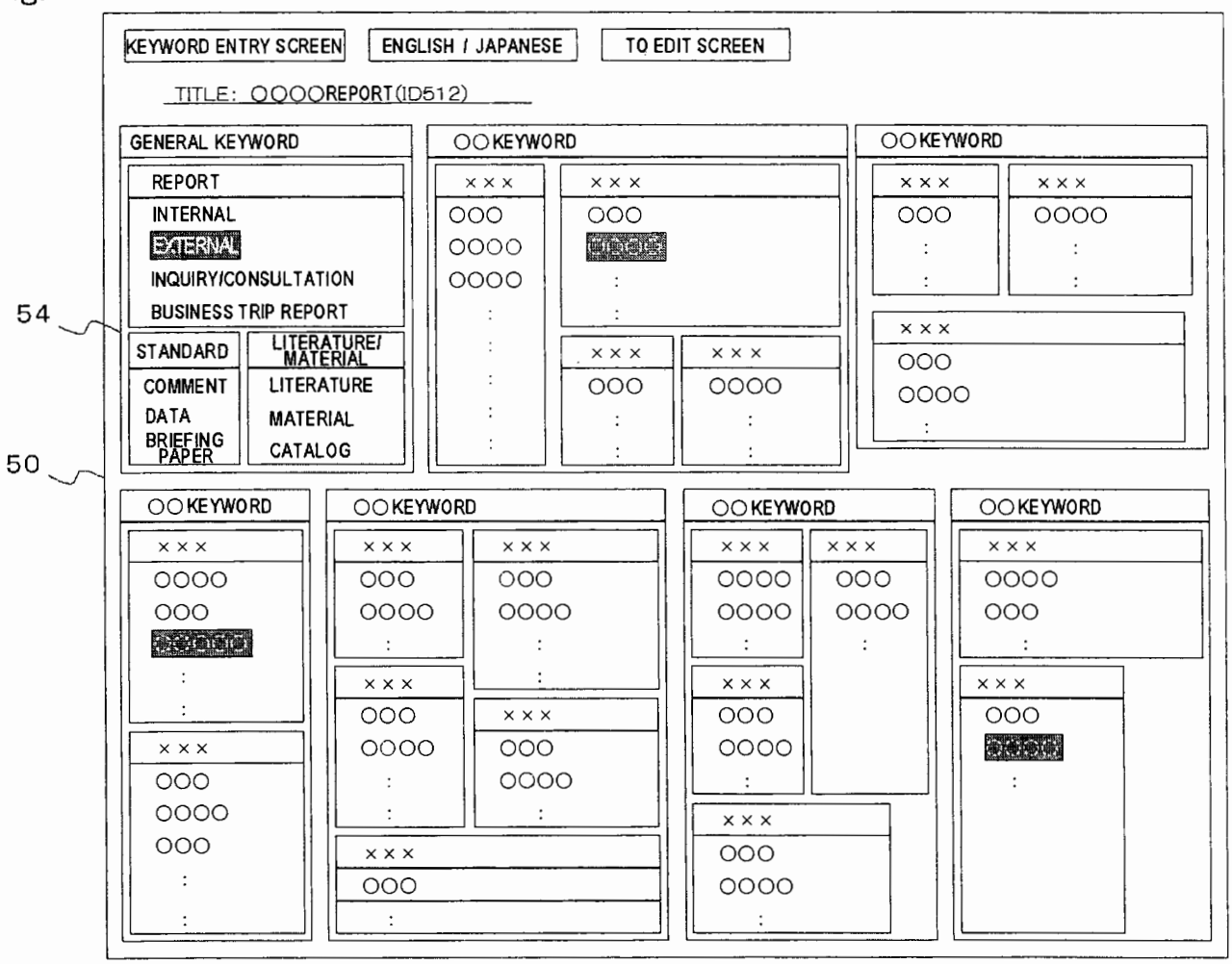

KEYWORD ENTRY SCREEN
ENGLISH / JAPANESE
TO EDIT SCREEN
TITLE: ○○○○REPORT(ID512)
GENERAL KEYWORD
REPORT
INTERNAL
EXTERNAL
INQUIRY/CONSULTATION
BUSINESS TRIP REPORT
STANDARD
COMMENT
DATA
BRIEFING PAPER
LITERATURE/ MATERIAL
LITERATURE
MATERIAL
CATALOG
○○KEYWORD
54
50

Fig.9

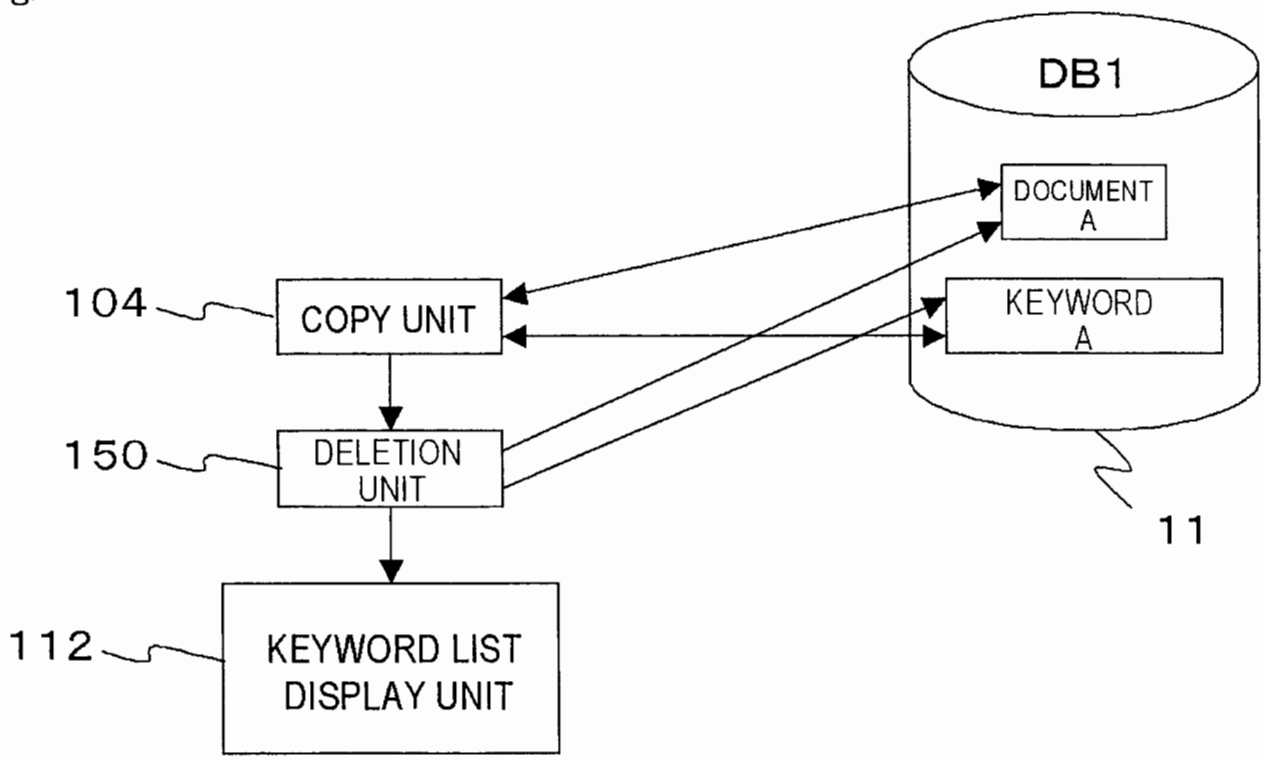

DB1
DOCUMENT A
KEYWORD A
11
104
COPY UNIT
150
DELETION UNIT
112
KEYWORD LIST DISPLAY UNIT

Fig.10

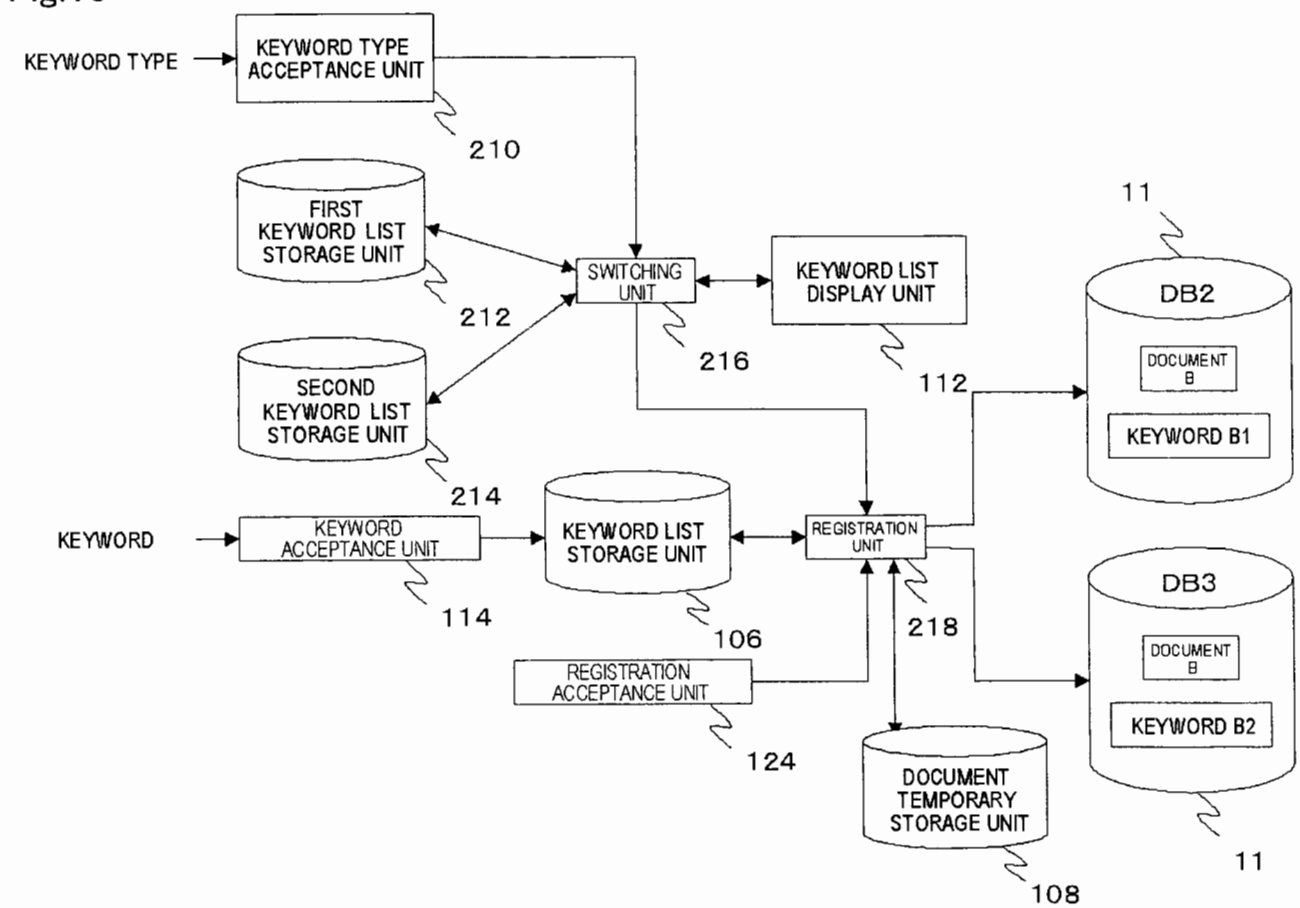

KEYWORD TYPE
KEYWORD TYPE ACCEPTANCE UNIT
210
FIRST KEYWORD LIST STORAGE UNIT
212
SECOND KEYWORD LIST STORAGE UNIT
214
SWITCHING UNIT
216
KEYWORD LIST DISPLAY UNIT
112
11
DB2
DOCUMENT B
KEYWORD B1
KEYWORD
KEYWORD ACCEPTANCE UNIT
114
KEYWORD LIST STORAGE UNIT
106
REGISTRATION UNIT
218
REGISTRATION ACCEPTANCE UNIT
124
DOCUMENT TEMPORARY STORAGE UNIT
108
DB3
DOCUMENT B
KEYWORD B2
11

Fig.11

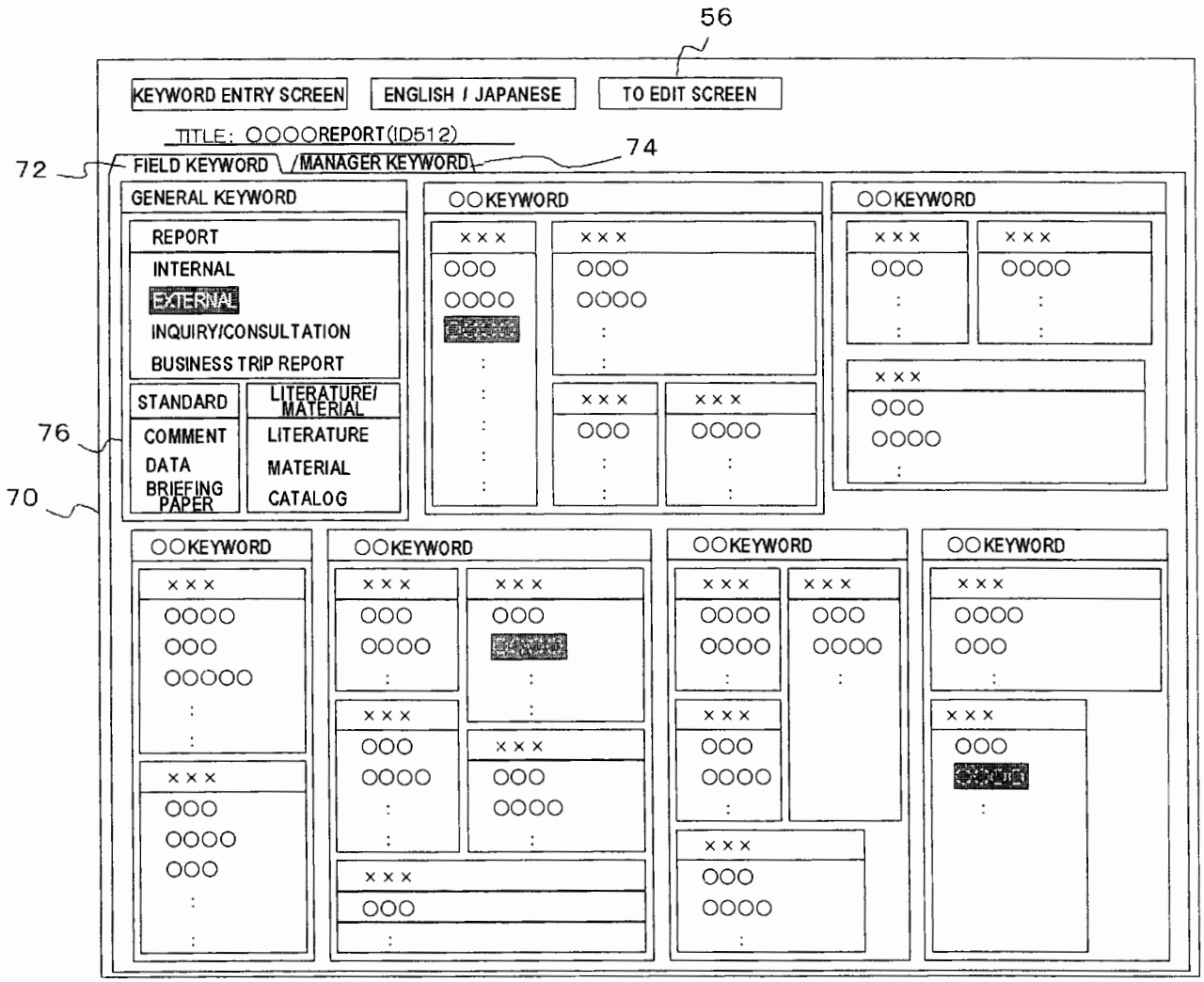

56
KEYWORD ENTRY SCREEN
ENGLISH / JAPANESE
TO EDIT SCREEN
TITLE: ○○○○REPORT(ID512)
72
FIELD KEYWORD
MANAGER KEYWORD
74
GENERAL KEYWORD
REPORT
INTERNAL
EXTERNAL
INQUIRY/CONSULTATION
BUSINESS TRIP REPORT
STANDARD
LITERATURE/ MATERIAL
76
COMMENT
DATA
BRIEFING PAPER
LITERATURE
MATERIAL
CATALOG
70
○○KEYWORD
×××
○○○
○○○○
○○○○○

Fig.12

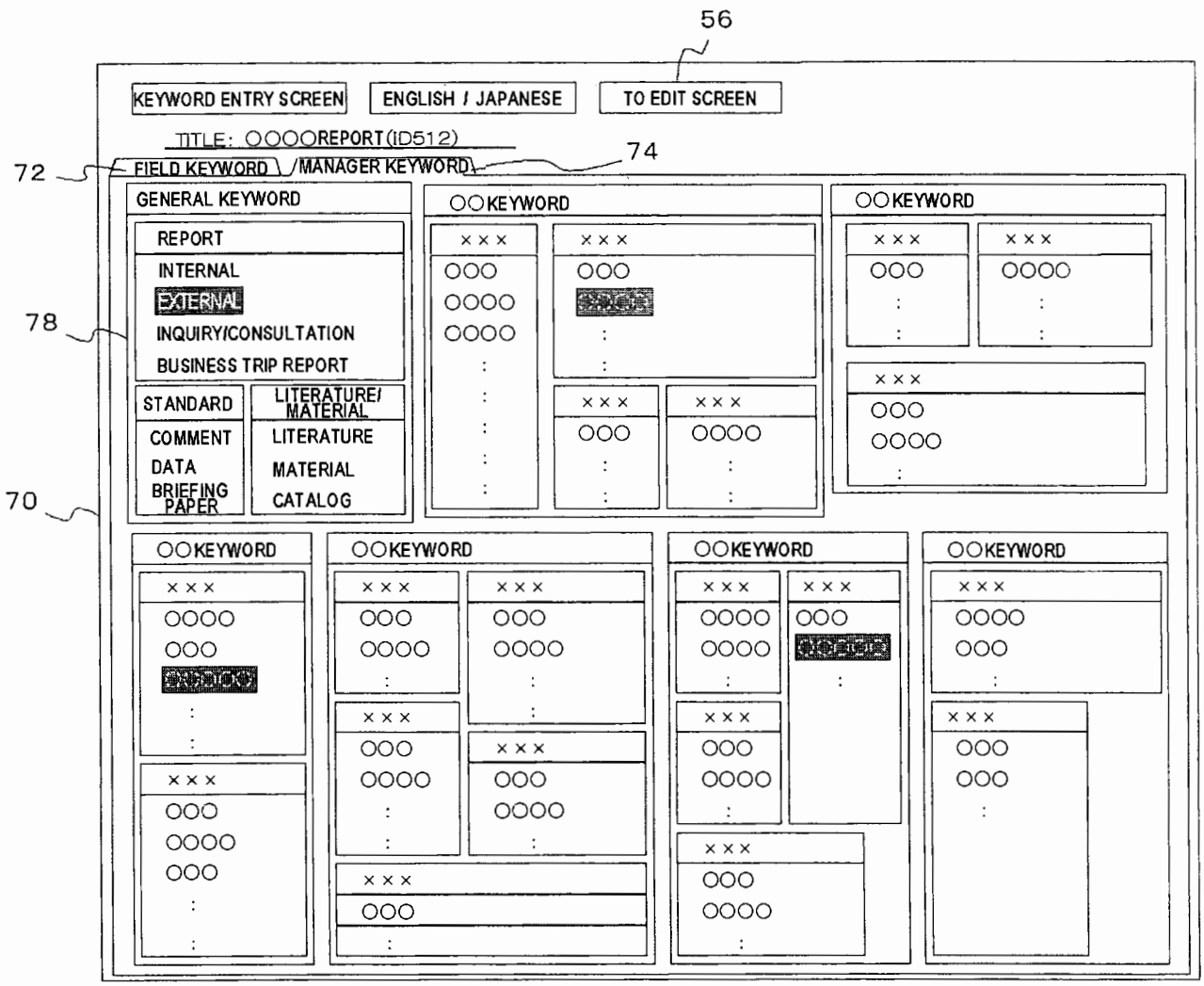

56
KEYWORD ENTRY SCREEN
ENGLISH / JAPANESE
TO EDIT SCREEN
TITLE: ○○○○REPORT(ID512)
72
FIELD KEYWORD
MANAGER KEYWORD
74
GENERAL KEYWORD
REPORT
INTERNAL
EXTERNAL
INQUIRY/CONSULTATION
BUSINESS TRIP REPORT
78
STANDARD
COMMENT
DATA
BRIEFING PAPER
LITERATURE/ MATERIAL
LITERATURE
MATERIAL
CATALOG
70
○○KEYWORD
×××
○○○
○○○○

Fig.13

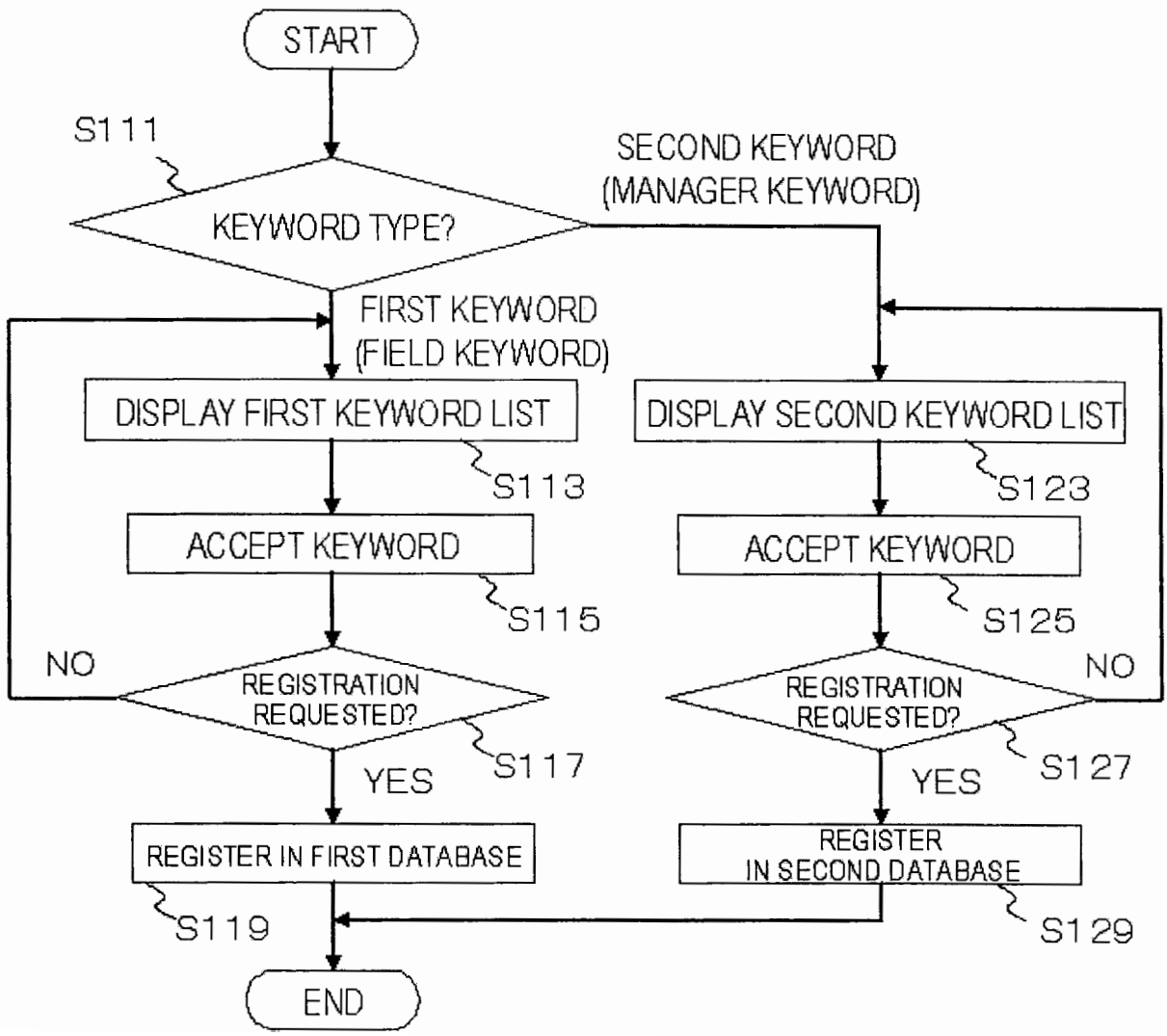

START
S111
KEYWORD TYPE?
SECOND KEYWORD
(MANAGER KEYWORD)
FIRST KEYWORD
(FIELD KEYWORD)
DISPLAY FIRST KEYWORD LIST
S113
DISPLAY SECOND KEYWORD LIST
S123
ACCEPT KEYWORD
S115
ACCEPT KEYWORD
S125
NO
REGISTRATION REQUESTED?
S117
NO
REGISTRATION REQUESTED?
S127
YES
YES
REGISTER IN FIRST DATABASE
S119
REGISTER IN SECOND DATABASE
S129
END

Fig.14

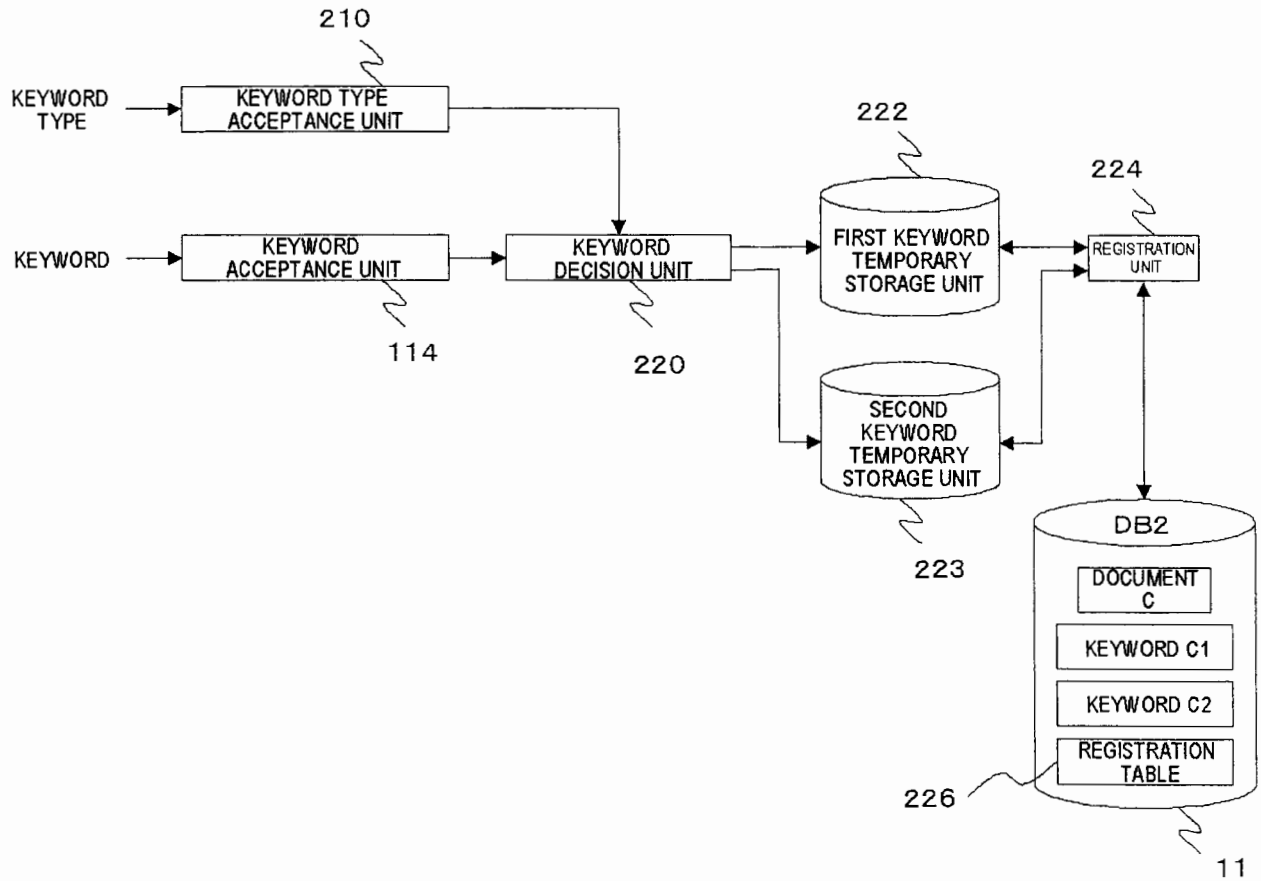


Fig.15

226 REGISTRATION TABLE

CONTENTS	FIRST KEYWORD (FIELD KEYWORD)	SECOND KEYWORD (MANAGER KEYWORD)
DOCUMENT C	KEYWORD C1	KEYWORD C2
DOCUMENT D	—	KEYWORD D
:	:	:

Fig.16

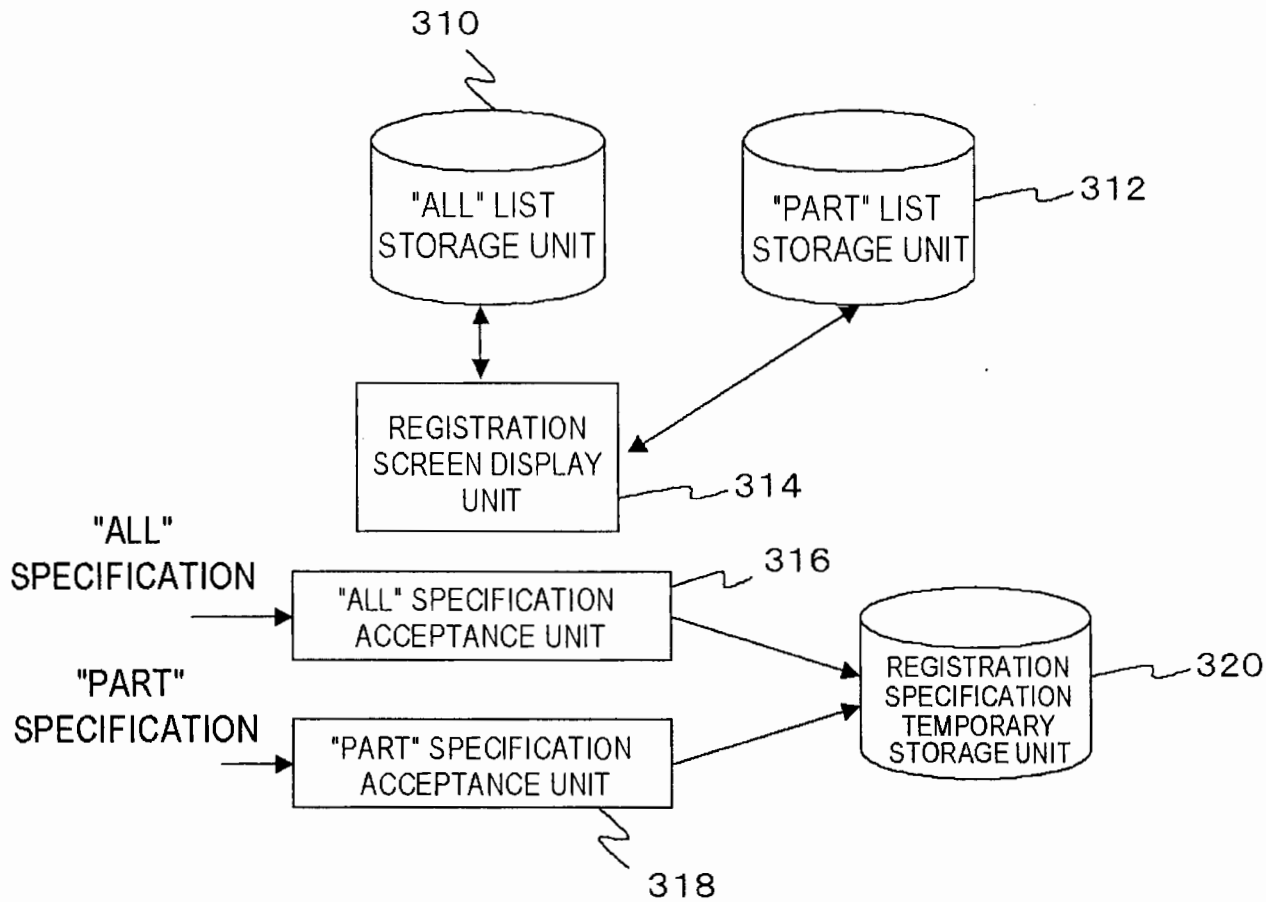

310
"ALL" LIST STORAGE UNIT
"PART" LIST STORAGE UNIT
312
REGISTRATION SCREEN DISPLAY UNIT
314
"ALL" SPECIFICATION
"ALL" SPECIFICATION ACCEPTANCE UNIT
316
"PART" SPECIFICATION
"PART" SPECIFICATION ACCEPTANCE UNIT
318
REGISTRATION SPECIFICATION TEMPORARY STORAGE UNIT
320

Fig.17

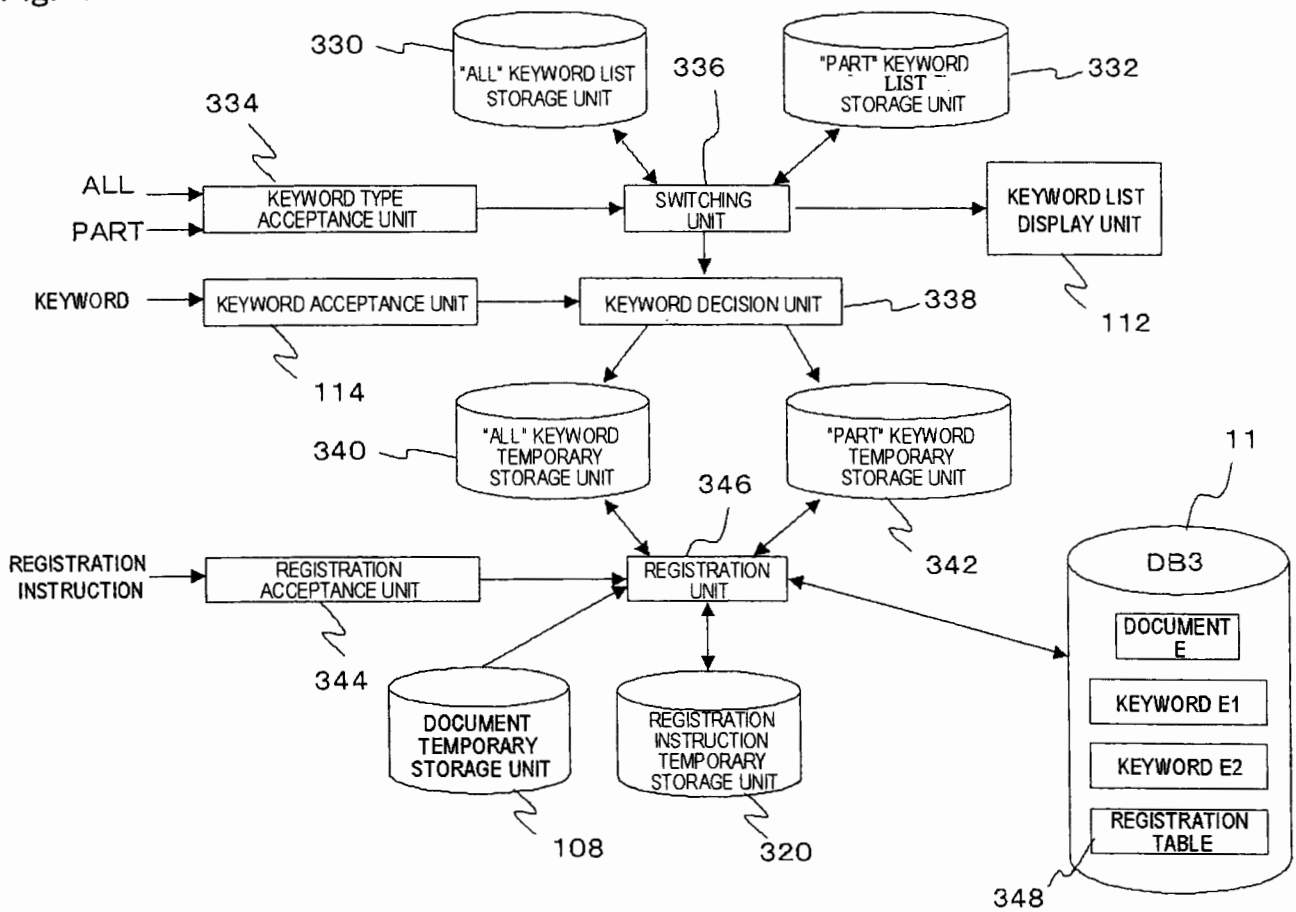

330
"ALL" KEYWORD LIST STORAGE UNIT
336
"PART" KEYWORD LIST STORAGE UNIT
332
334
ALL
PART
KEYWORD TYPE ACCEPTANCE UNIT
SWITCHING UNIT
KEYWORD LIST DISPLAY UNIT
112
KEYWORD
KEYWORD ACCEPTANCE UNIT
KEYWORD DECISION UNIT
338
114
340
"ALL" KEYWORD TEMPORARY STORAGE UNIT
"PART" KEYWORD TEMPORARY STORAGE UNIT
11
346
342
REGISTRATION INSTRUCTION
REGISTRATION ACCEPTANCE UNIT
REGISTRATION UNIT
DB3
DOCUMENT E
KEYWORD E1
KEYWORD E2
REGISTRATION TABLE
344
DOCUMENT TEMPORARY STORAGE UNIT
REGISTRATION INSTRUCTION TEMPORARY STORAGE UNIT
108
320
348

Fig.18

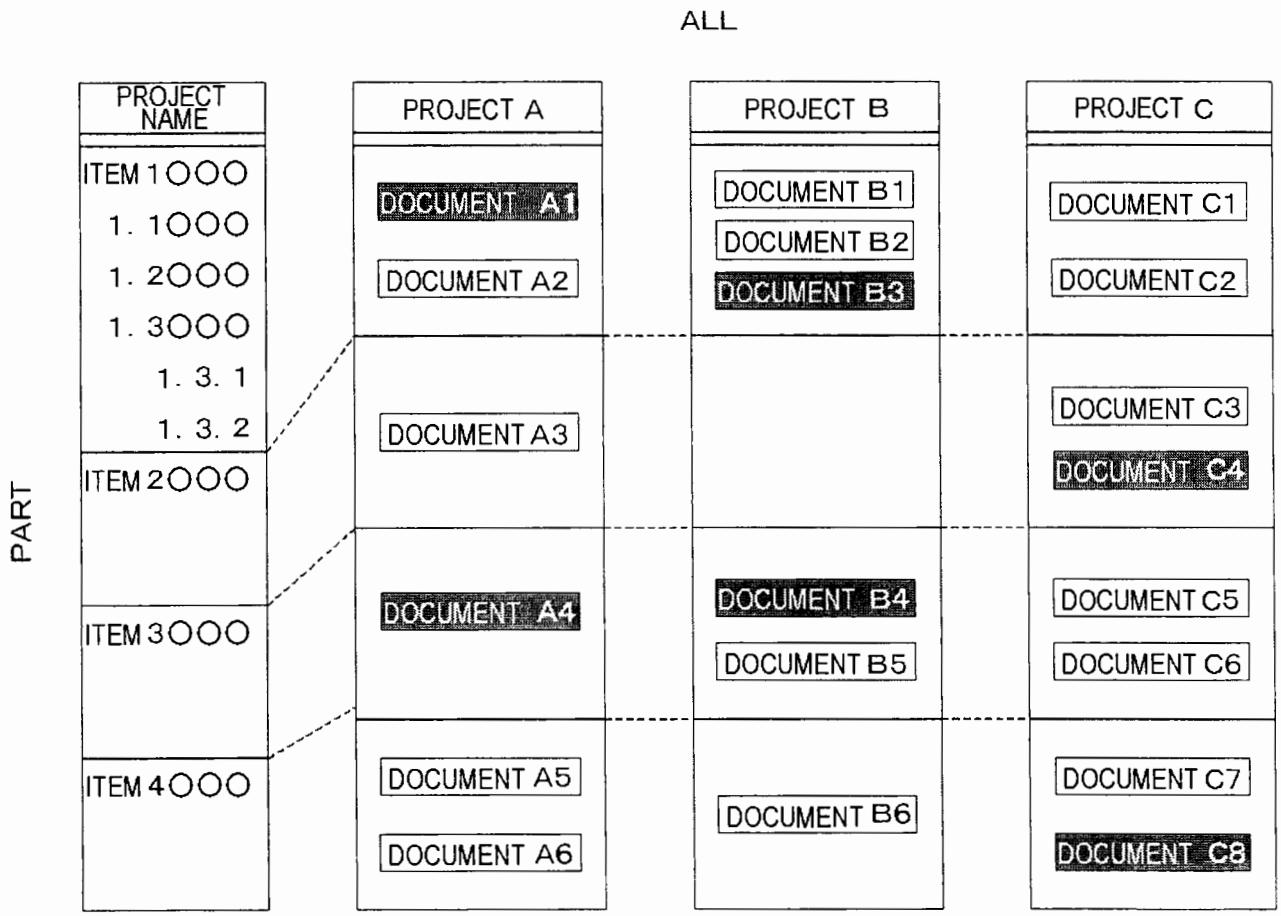

ALL
PROJECT NAME
PROJECT A
PROJECT B
PROJECT C
PART
ITEM 1OOO
1. 1OOO
1. 2OOO
1. 3OOO
1. 3. 1
1. 3. 2
ITEM 2OOO
ITEM 3OOO
ITEM 4OOO
DOCUMENT A1
DOCUMENT A2
DOCUMENT A3
DOCUMENT A4
DOCUMENT A5
DOCUMENT A6
DOCUMENT B1
DOCUMENT B2
DOCUMENT B3
DOCUMENT B4
DOCUMENT B5
DOCUMENT B6
DOCUMENT C1
DOCUMENT C2
DOCUMENT C3
DOCUMENT C4
DOCUMENT C5
DOCUMENT C6
DOCUMENT C7
DOCUMENT C8

Fig.19

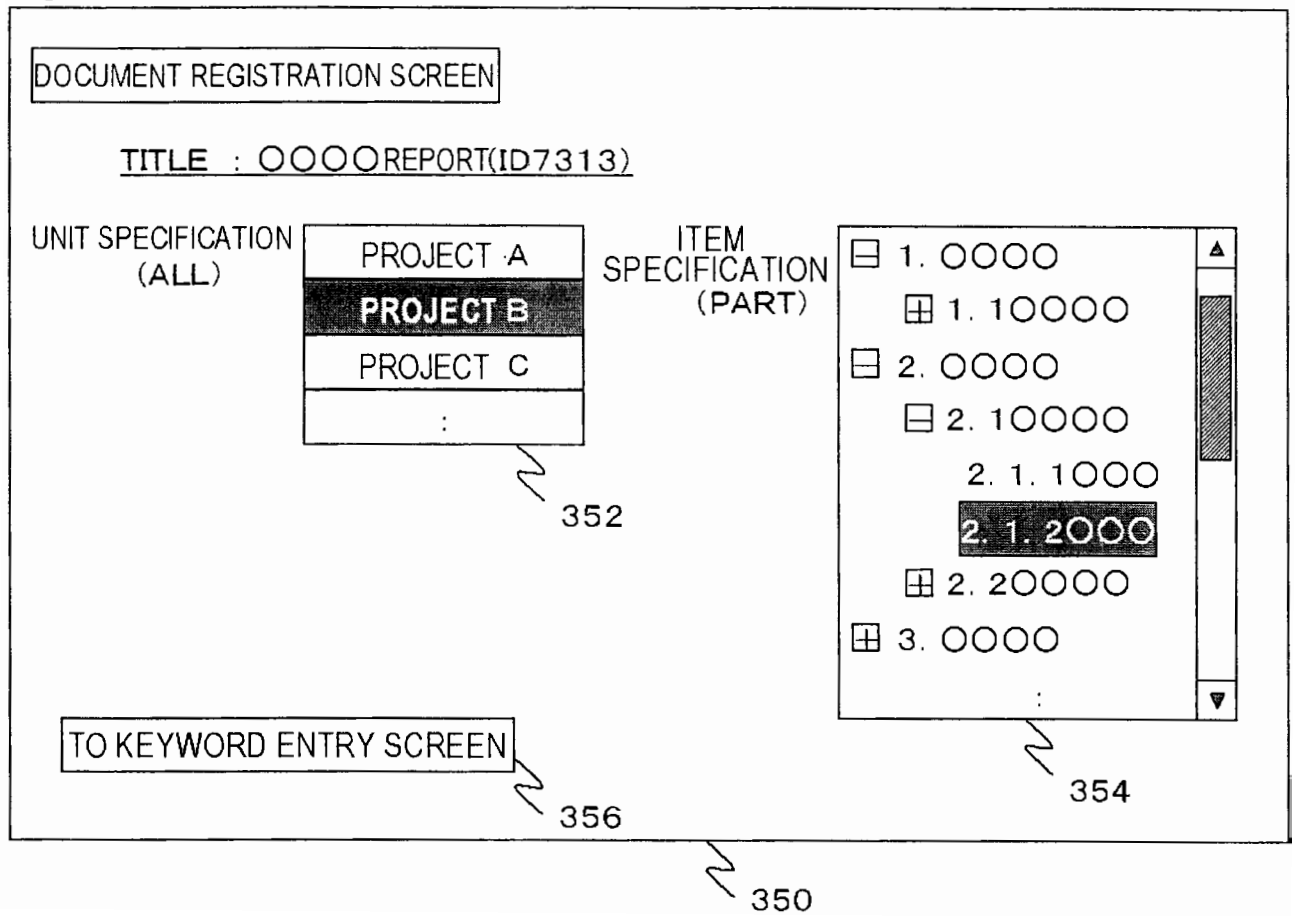

DOCUMENT REGISTRATION SCREEN
TITLE : OOOOREPORT(ID7313)
UNIT SPECIFICATION (ALL)
PROJECT A
PROJECT B
PROJECT C
:
352
ITEM SPECIFICATION (PART)
1. OOOO
1. 10000
2. OOOO
2. 10000
2. 1. 1000
2. 1. 2000
2. 20000
3. OOOO
:
354
TO KEYWORD ENTRY SCREEN
356
350

Fig.20

348 REGISTRATION TABLE

UNIT (ALL)	ITEM (PART)	CONTENTS	FIRST KEYWORD (ALL)	SECOND KEYWORD (PART)
PROJECT A	1. 1	DOCUMENT E	KEYWORD E1	KEYWORD E2
PROJECT A	1. 2	DOCUMENT F	KEYWORD F1	KEYWORD F2
PROJECT A	⋮	⋮	⋮	⋮
PROJECT B	1. 1	DOCUMENT G	KEYWORD G	—
:	:	:	:	:

Fig.21

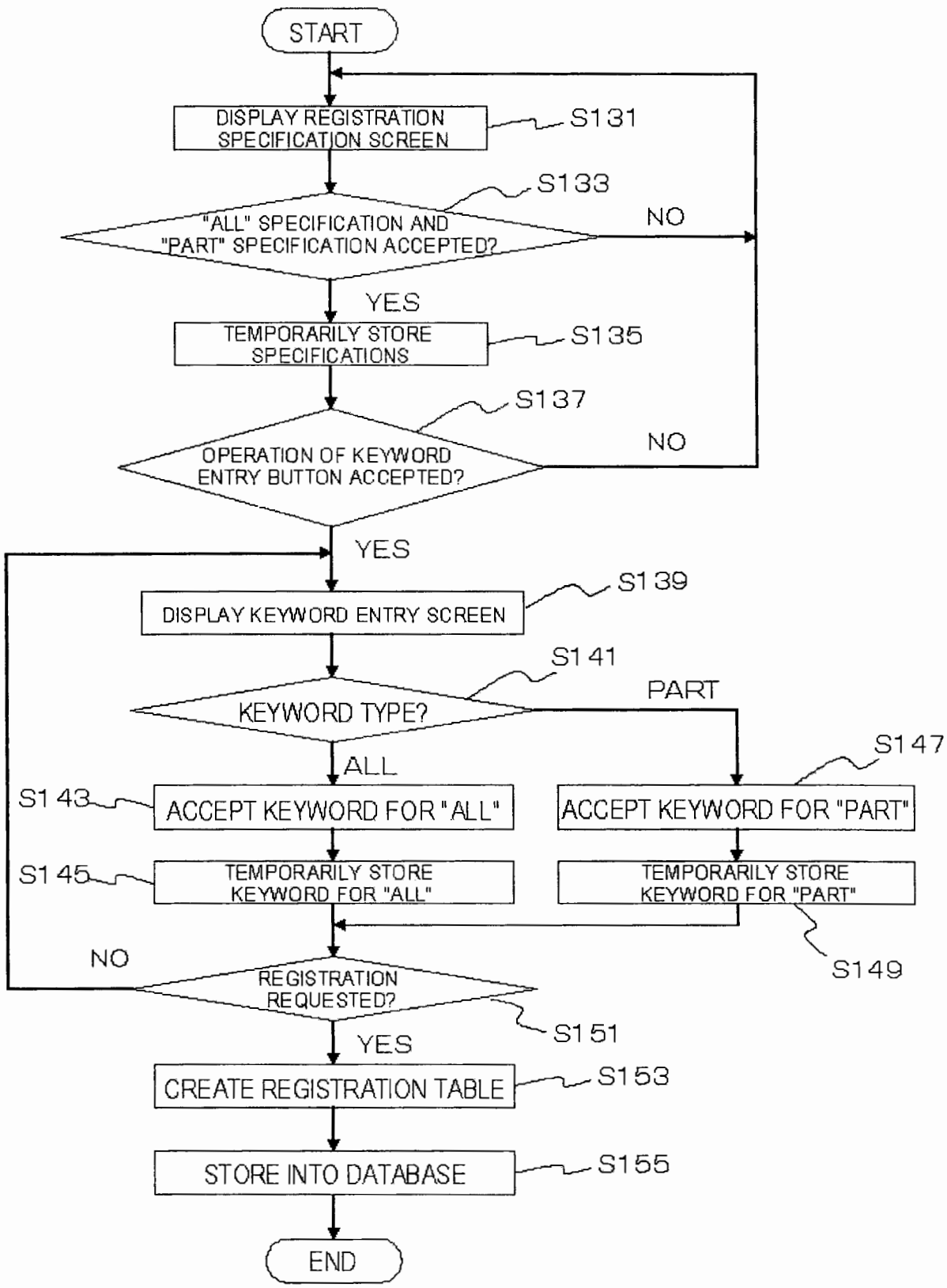

START
DISPLAY REGISTRATION SPECIFICATION SCREEN
S131
S133
"ALL" SPECIFICATION AND "PART" SPECIFICATION ACCEPTED?
NO
YES
TEMPORARILY STORE SPECIFICATIONS
S135
S137
OPERATION OF KEYWORD ENTRY BUTTON ACCEPTED?
NO
YES
DISPLAY KEYWORD ENTRY SCREEN
S139
S141
KEYWORD TYPE?
PART
ALL
S147
S143
ACCEPT KEYWORD FOR "ALL"
ACCEPT KEYWORD FOR "PART"
S145
TEMPORARILY STORE KEYWORD FOR "ALL"
TEMPORARILY STORE KEYWORD FOR "PART"
S149
NO
REGISTRATION REQUESTED?
S151
YES
CREATE REGISTRATION TABLE
S153
STORE INTO DATABASE
S155
END

Fig.22

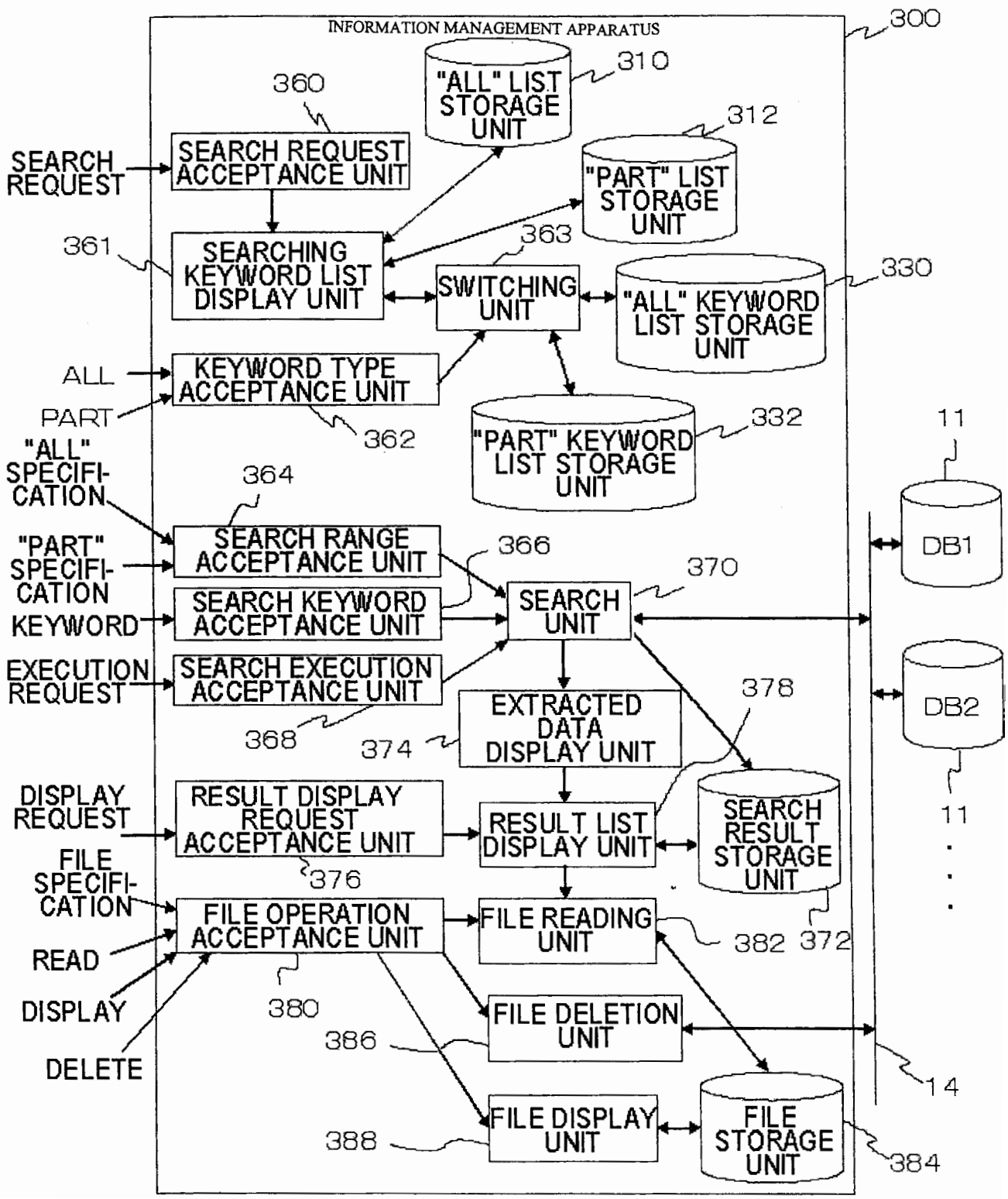

INFORMATION MANAGEMENT APPARATUS
300
"ALL" LIST STORAGE UNIT
310
360
312
SEARCH REQUEST
SEARCH REQUEST ACCEPTANCE UNIT
"PART" LIST STORAGE UNIT
361
SEARCHING KEYWORD LIST DISPLAY UNIT
363
SWITCHING UNIT
330
"ALL" KEYWORD LIST STORAGE UNIT
ALL
PART
KEYWORD TYPE ACCEPTANCE UNIT
362
"PART" KEYWORD LIST STORAGE UNIT
332
11
"ALL" SPECIFI-CATION
364
"PART" SPECIFI-CATION
SEARCH RANGE ACCEPTANCE UNIT
366
370
DB1
KEYWORD
SEARCH KEYWORD ACCEPTANCE UNIT
SEARCH UNIT
EXECUTION REQUEST
SEARCH EXECUTION ACCEPTANCE UNIT
378
DB2
368
374
EXTRACTED DATA DISPLAY UNIT
11
DISPLAY REQUEST
RESULT DISPLAY REQUEST ACCEPTANCE UNIT
RESULT LIST DISPLAY UNIT
SEARCH RESULT STORAGE UNIT
FILE SPECIFI-CATION
376
FILE OPERATION ACCEPTANCE UNIT
FILE READING UNIT
382
372
READ
DISPLAY
380
FILE DELETION UNIT
386
DELETE
14
FILE DISPLAY UNIT
FILE STORAGE UNIT
388
384

Fig.23

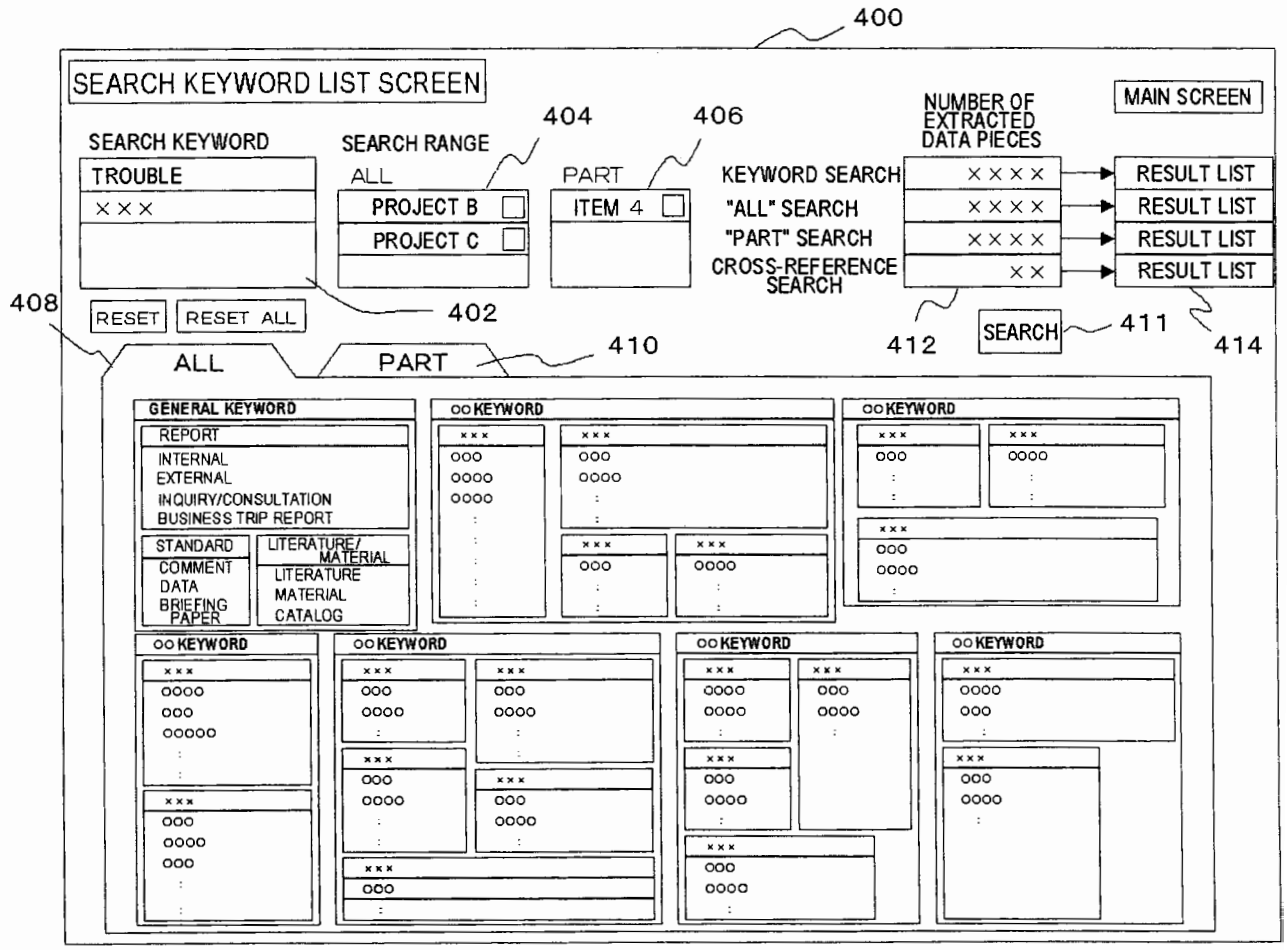

400
SEARCH KEYWORD LIST SCREEN
MAIN SCREEN
SEARCH KEYWORD
TROUBLE
×××
SEARCH RANGE
ALL
PROJECT B
PROJECT C
404
PART
ITEM 4
406
NUMBER OF EXTRACTED DATA PIECES
KEYWORD SEARCH
"ALL" SEARCH
"PART" SEARCH
CROSS-REFERENCE SEARCH
××××
××××
××××
××
RESULT LIST
RESULT LIST
RESULT LIST
RESULT LIST
408
RESET
RESET ALL
402
412
SEARCH
411
414
ALL
PART
410
GENERAL KEYWORD
REPORT
INTERNAL
EXTERNAL
INQUIRY/CONSULTATION
BUSINESS TRIP REPORT
STANDARD
COMMENT
DATA
BRIEFING PAPER
LITERATURE/MATERIAL
LITERATURE
MATERIAL
CATALOG
○○KEYWORD

Fig.24

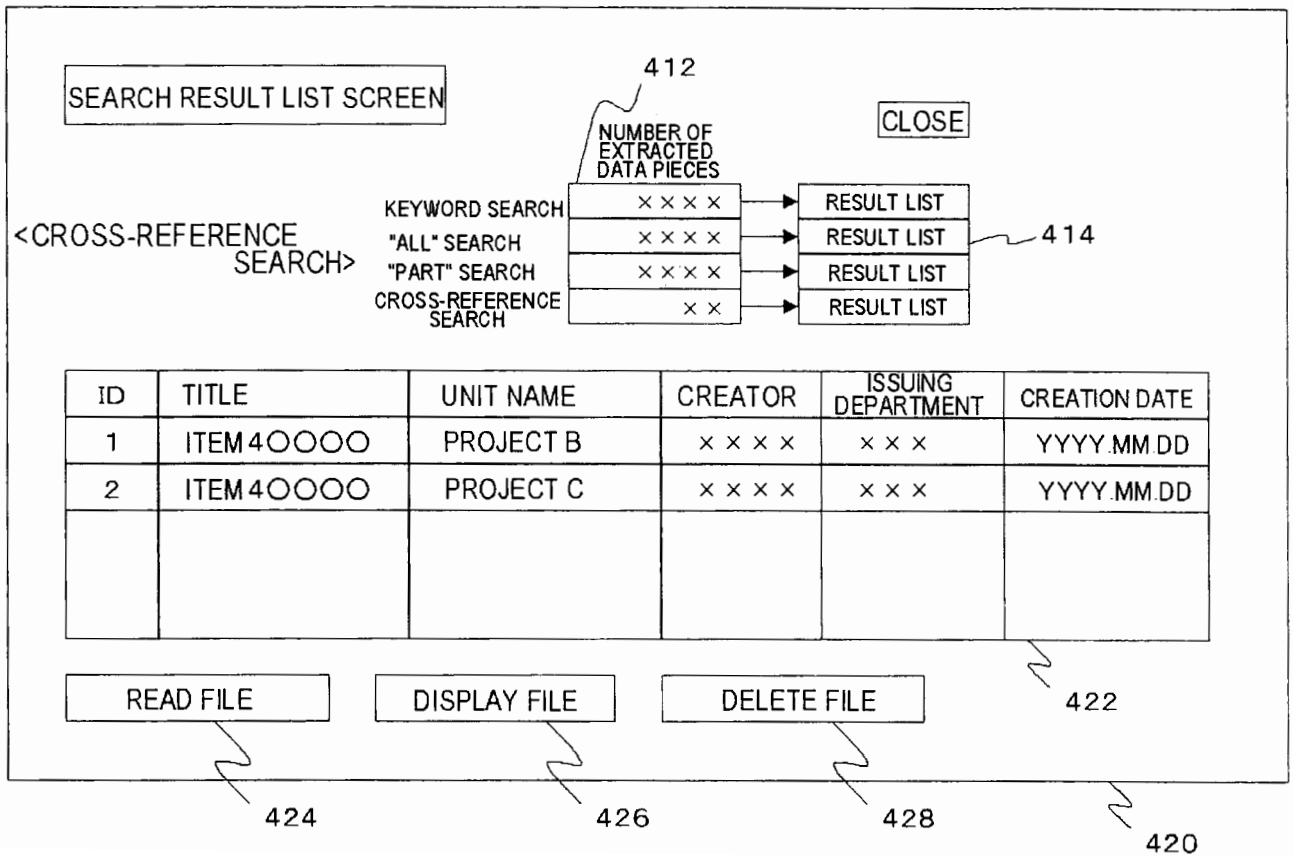

SEARCH RESULT LIST SCREEN
412
NUMBER OF EXTRACTED DATA PIECES
CLOSE
<CROSS-REFERENCE SEARCH>
KEYWORD SEARCH
"ALL" SEARCH
"PART" SEARCH
CROSS-REFERENCE SEARCH
××××
××××
××××
××
RESULT LIST
RESULT LIST
RESULT LIST
RESULT LIST
414
ID
TITLE
UNIT NAME
CREATOR
ISSUING DEPARTMENT
CREATION DATE
1
ITEM4OOOO
PROJECT B
××××
×××
YYYY.MM.DD
2
ITEM4OOOO
PROJECT C
××××
×××
YYYY.MM.DD
422
READ FILE
DISPLAY FILE
DELETE FILE
424
426
428
420

Fig.25

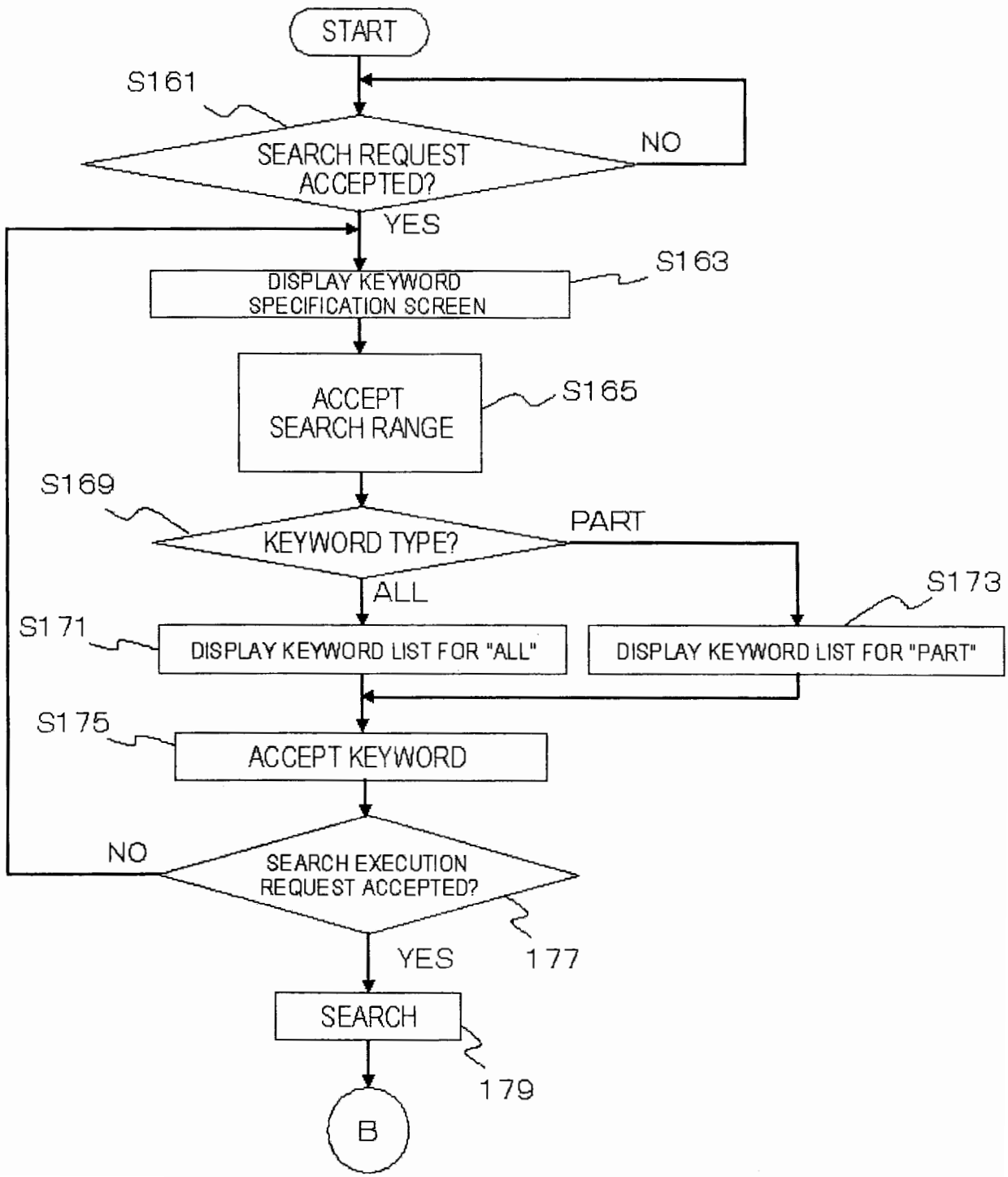

START
S161
SEARCH REQUEST ACCEPTED?
NO
YES
S163
DISPLAY KEYWORD SPECIFICATION SCREEN
ACCEPT SEARCH RANGE
S165
S169
KEYWORD TYPE?
PART
ALL
S173
S171
DISPLAY KEYWORD LIST FOR "ALL"
DISPLAY KEYWORD LIST FOR "PART"
S175
ACCEPT KEYWORD
NO
SEARCH EXECUTION REQUEST ACCEPTED?
177
YES
SEARCH
179
B

Fig.26

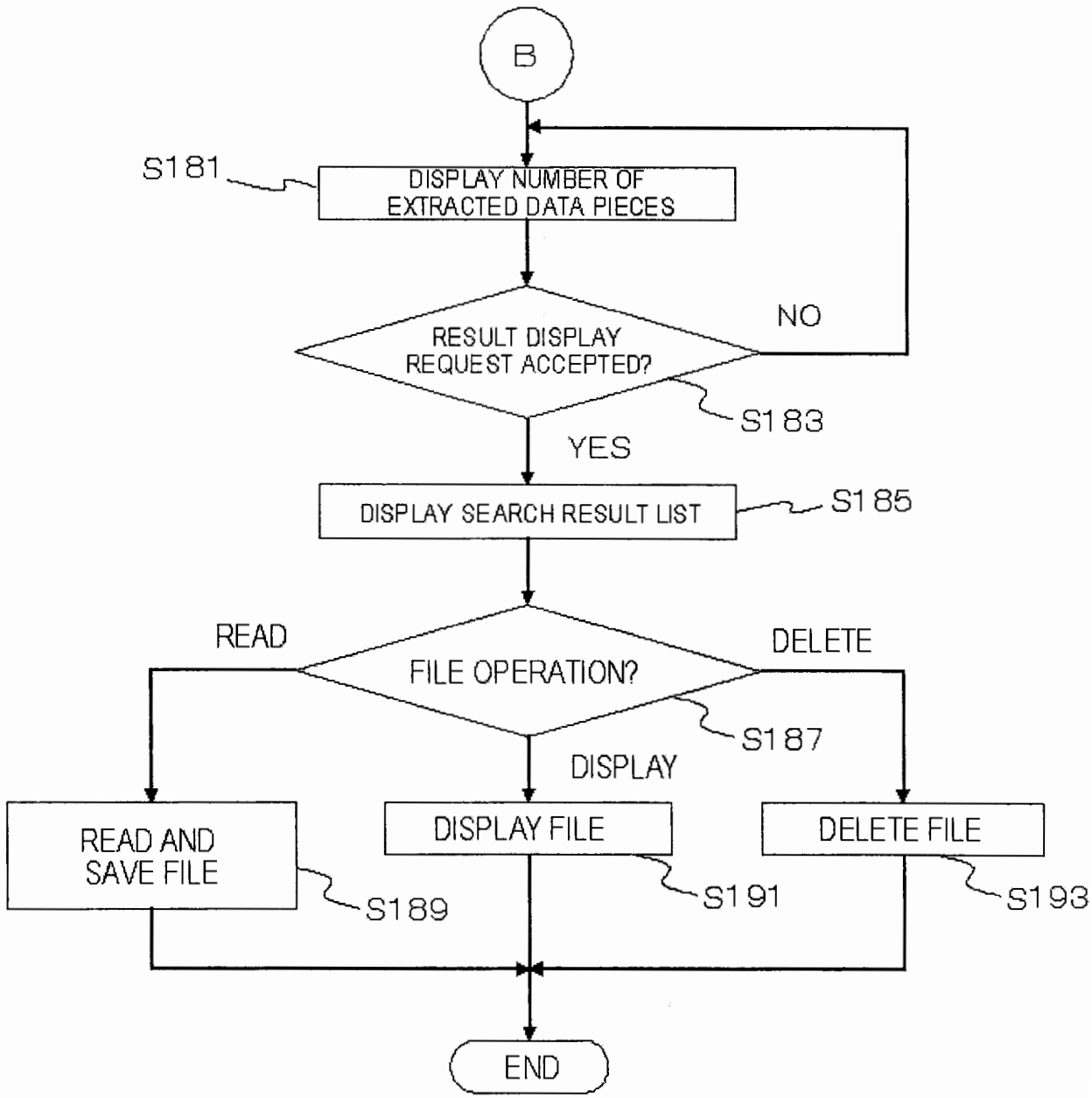

B
S181
DISPLAY NUMBER OF EXTRACTED DATA PIECES
RESULT DISPLAY REQUEST ACCEPTED?
NO
S183
YES
DISPLAY SEARCH RESULT LIST
S185
READ
FILE OPERATION?
DELETE
S187
DISPLAY
READ AND SAVE FILE
S189
DISPLAY FILE
S191
DELETE FILE
S193
END

Fig.27

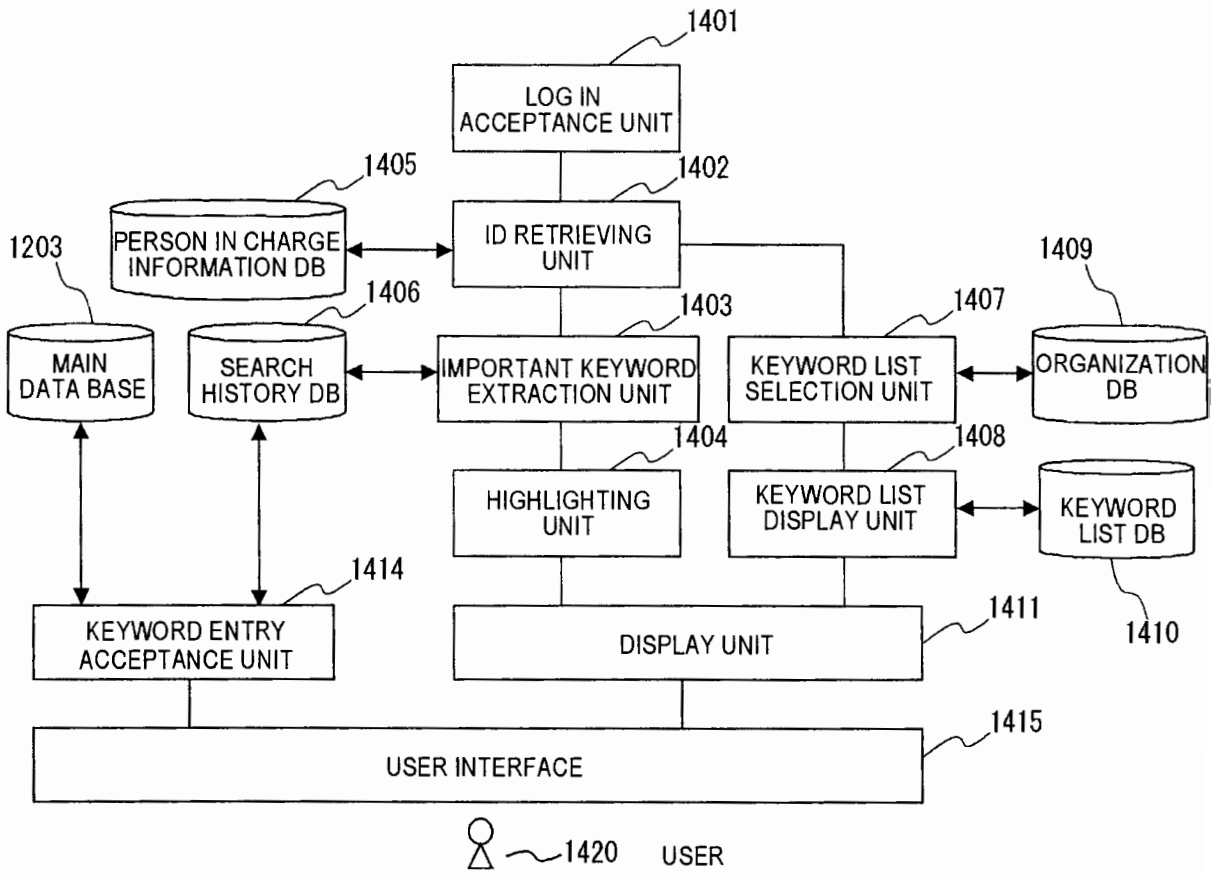

1401
LOG IN ACCEPTANCE UNIT
1405
PERSON IN CHARGE INFORMATION DB
1402
ID RETRIEVING UNIT
1203
1409
1406
1403
1407
MAIN DATA BASE
SEARCH HISTORY DB
IMPORTANT KEYWORD EXTRACTION UNIT
KEYWORD LIST SELECTION UNIT
ORGANIZATION DB
1404
1408
HIGHLIGHTING UNIT
KEYWORD LIST DISPLAY UNIT
KEYWORD LIST DB
1414
1411
1410
KEYWORD ENTRY ACCEPTANCE UNIT
DISPLAY UNIT
1415
USER INTERFACE
1420
USER

Fig.28

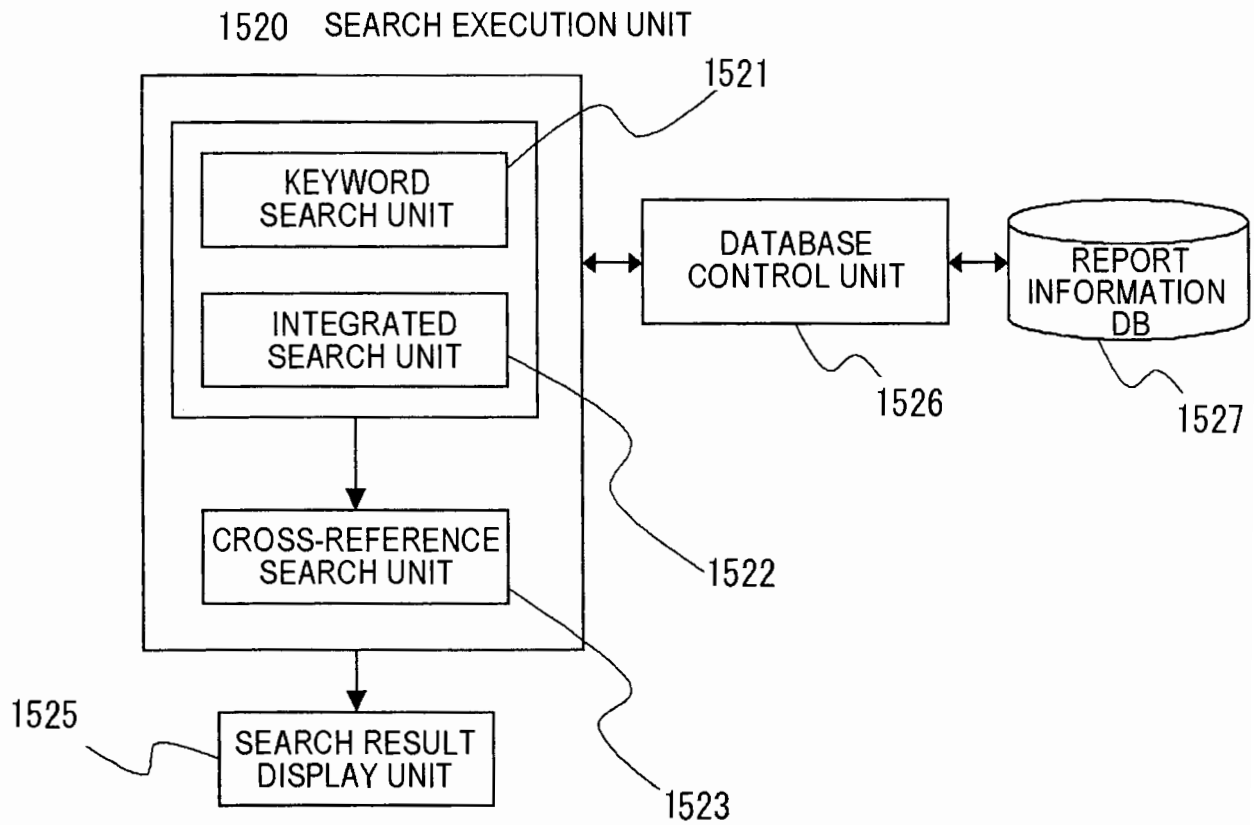
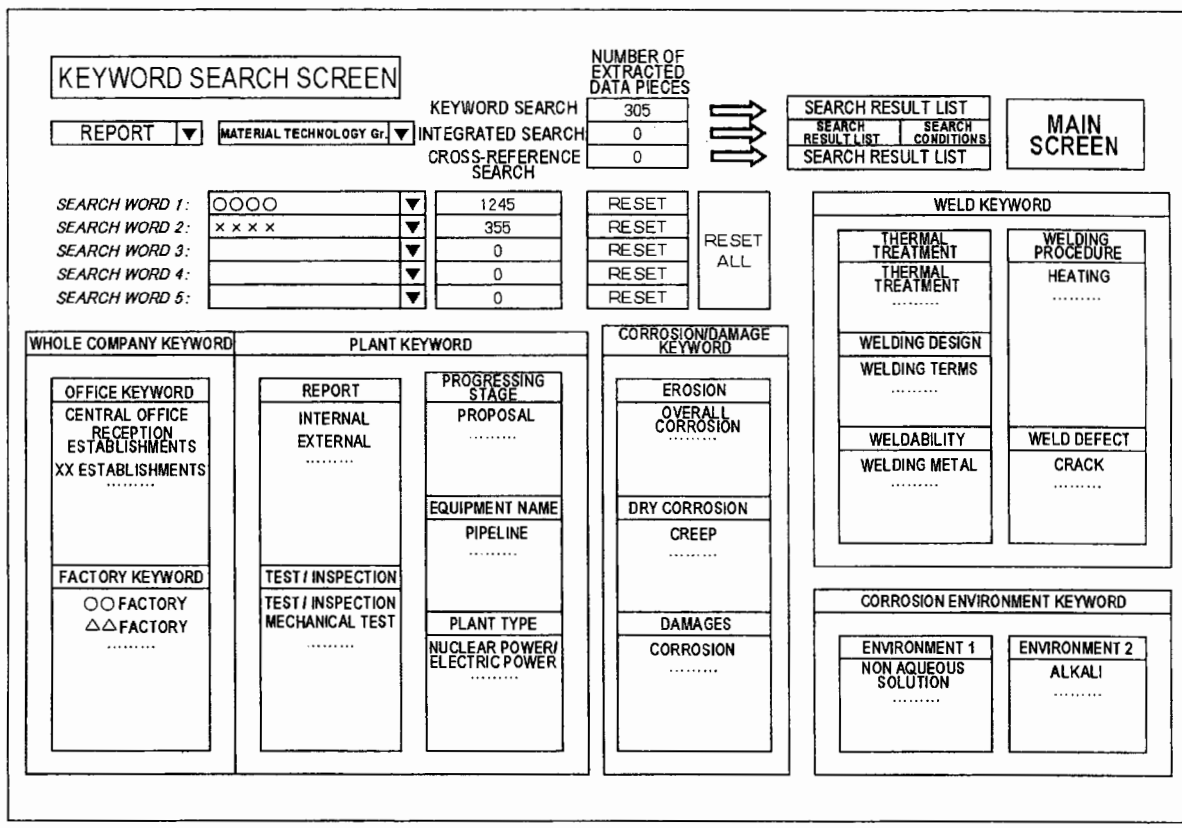

1520 SEARCH EXECUTION UNIT
1521
KEYWORD SEARCH UNIT
INTEGRATED SEARCH UNIT
CROSS-REFERENCE SEARCH UNIT
1522
1523
1525
SEARCH RESULT DISPLAY UNIT
DATABASE CONTROL UNIT
1526
REPORT INFORMATION DB
1527

Fig.29


KEYWORD SEARCH SCREEN
NUMBER OF EXTRACTED DATA PIECES
REPORT
MATERIAL TECHNOLOGY Gr.
KEYWORD SEARCH
INTEGRATED SEARCH
CROSS-REFERENCE SEARCH
305
0
0
SEARCH RESULT LIST
SEARCH RESULT LIST
SEARCH CONDITIONS
SEARCH RESULT LIST
MAIN SCREEN
SEARCH WORD 1:
SEARCH WORD 2:
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SEARCH WORD 4:
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RESET
RESET ALL
WELD KEYWORD
THERMAL TREATMENT
WELDING PROCEDURE
HEATING
WELDING DESIGN
WELDING TERMS
WELDABILITY
WELDING METAL
WELD DEFECT
CRACK
WHOLE COMPANY KEYWORD
OFFICE KEYWORD
CENTRAL OFFICE RECEPTION ESTABLISHMENTS
XX ESTABLISHMENTS
FACTORY KEYWORD
○○ FACTORY
△△ FACTORY
PLANT KEYWORD
REPORT
INTERNAL
EXTERNAL
TEST / INSPECTION
TEST / INSPECTION MECHANICAL TEST
PROGRESSING STAGE
PROPOSAL
EQUIPMENT NAME
PIPELINE
PLANT TYPE
NUCLEAR POWER/ ELECTRIC POWER
CORROSION/DAMAGE KEYWORD
EROSION
OVERALL CORROSION
DRY CORROSION
CREEP
DAMAGES
CORROSION
CORROSION ENVIRONMENT KEYWORD
ENVIRONMENT 1
NON AQUEOUS SOLUTION
ENVIRONMENT 2
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