FIG.1

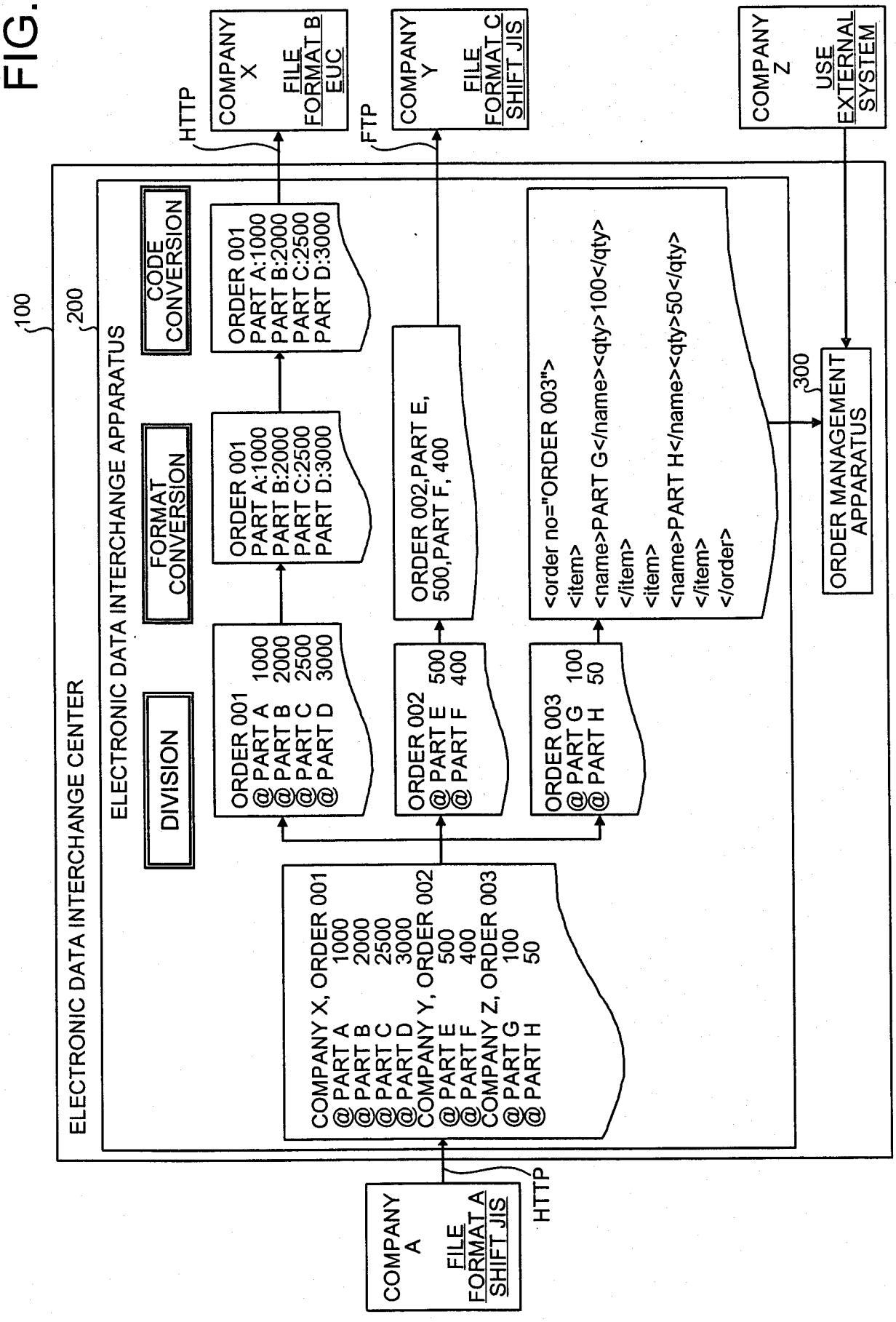

100
200
ELECTRONIC DATA INTERCHANGE CENTER
ELECTRONIC DATA INTERCHANGE APPARATUS
DIVISION
FORMAT CONVERSION
CODE CONVERSION
COMPANY A
FILE FORMAT A SHIFT JIS
HTTP
COMPANY X, ORDER 001
@ PART A 1000
@@ PART B 2000
@@ PART C 2500
@@ PART D 3000
COMPANY Y, ORDER 002
@@ PART E 500
@@ PART F 400
COMPANY Z, ORDER 003
@@ PART G 100
@@ PART H 50
ORDER 001
@@ PART A 1000
@@ PART B 2000
@@ PART C 2500
@@ PART D 3000
ORDER 002
@@ PART E 500
@@ PART F 400
ORDER 003
@@ PART G 100
@@ PART H 50
ORDER 001
PART A:1000
PART B:2000
PART C:2500
PART D:3000
ORDER 002,PART E,
500,PART F, 400
<order no="ORDER 003">
<item>
<name>PART G</name><qty>100</qty>
</item>
<item>
<name>PART H</name><qty>50</qty>
</item>
</order>
HTTP
COMPANY X
FILE FORMAT B EUC
FTP
COMPANY Y
FILE FORMAT C SHIFT JIS
300
ORDER MANAGEMENT APPARATUS
COMPANY Z
USE EXTERNAL SYSTEM

FIG.2

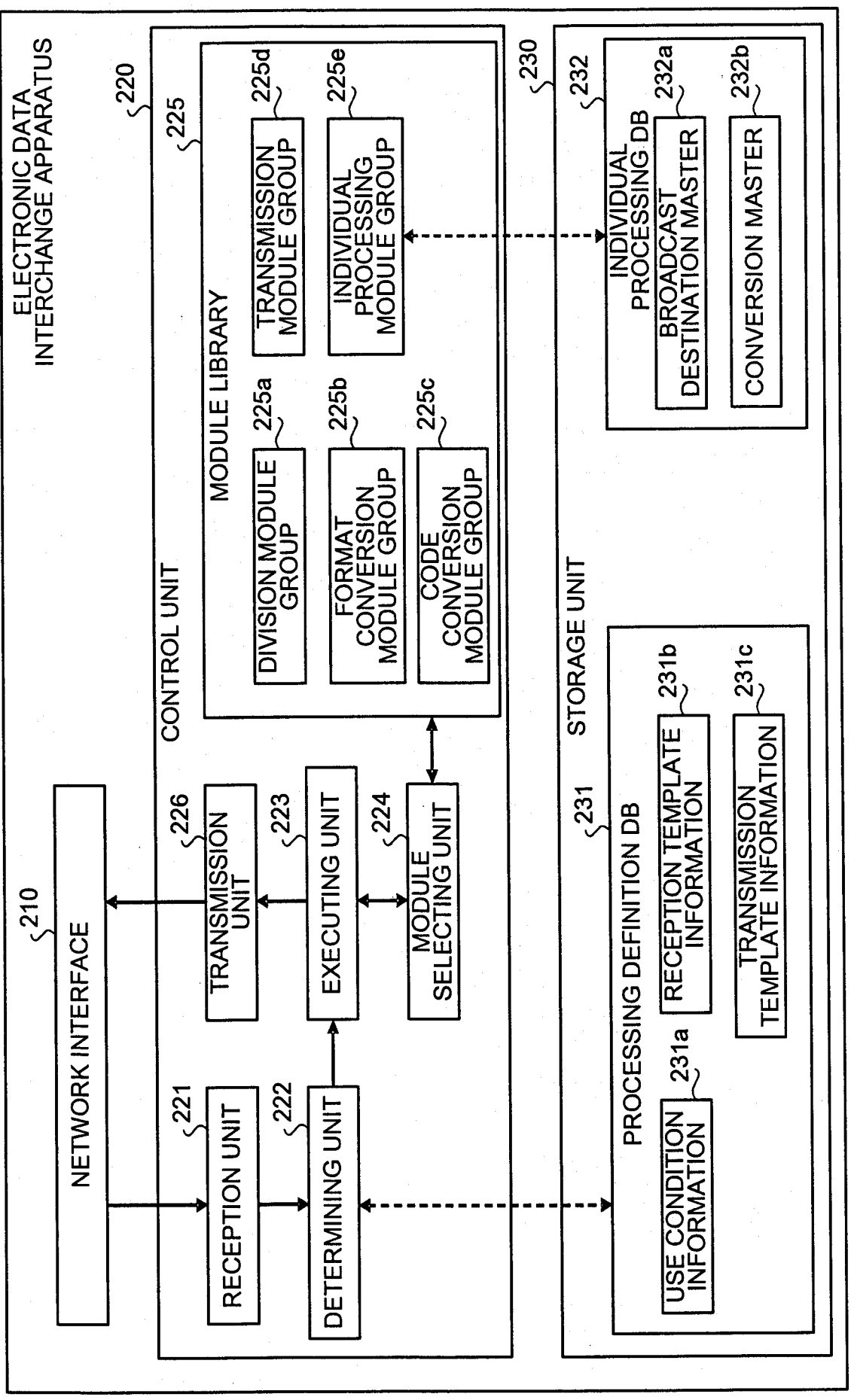

200
ELECTRONIC DATA INTERCHANGE APPARATUS
210
NETWORK INTERFACE
220
CONTROL UNIT
221
RECEPTION UNIT
222
DETERMINING UNIT
223
EXECUTING UNIT
224
MODULE SELECTING UNIT
225
MODULE LIBRARY
225a
DIVISION MODULE GROUP
225b
FORMAT CONVERSION MODULE GROUP
225c
CODE CONVERSION MODULE GROUP
225d
TRANSMISSION MODULE GROUP
225e
INDIVIDUAL PROCESSING MODULE GROUP
226
TRANSMISSION UNIT
230
STORAGE UNIT
231
PROCESSING DEFINITION DB
231a
USE CONDITION INFORMATION
231b
RECEPTION TEMPLATE INFORMATION
231c
TRANSMISSION TEMPLATE INFORMATION
232
INDIVIDUAL PROCESSING DB
232a
BROADCAST DESTINATION MASTER
232b
CONVERSION MASTER

FIG.3

COMPANY NAME	CATEGORY	PROTOCOL	FORMAT	CHARACTER CODE	RECEPTION TEMPLATE	TRANSMISSION TEMPLATE
A	SENDER	HTTP	FLAT1	SHIFT JIS	-	-
B	SENDER	FTP	XML1	UTF8	RECEPTION TEMPLATE4	-
C	SENDER	BSC	FLAT2	SHIFT JIS	-	-
W	RECEIVER	HTTP	FLAT2	SHIFT JIS	-	TRANSMISSION TEMPLATE4
X	RECEIVER	HTTP	FLAT3	EUC	-	TRANSMISSION TEMPLATE2
Y	RECEIVER	FTP	FLAT4	SHIFT JIS	-	-
Z	RECEIVER	WEB	XML2	UTF8	-	-
...	...	...	...	...	...	...

FIG.4

TEMPLATE NAME	PROTOCOL	FORMAT	STANDARD FLAG	PROCESSING 1	PROCESSING 2	PROCESSING 3	...
RECEPTION TEMPLATE 1	HTTP	*	1	-	-	-	...
RECEPTION TEMPLATE 2	HTTP	FLAT1	1	DIVISION	-	-	...
RECEPTION TEMPLATE 3	FTP	*	1	-	-	-	...
RECEPTION TEMPLATE 4	FTP	*	0	ZIP DECOMPRESSION	-	-	...
RECEPTION TEMPLATE 5	BSC	*	1	-	-	-	...
...	...	...	...	...	...	...	...

FIG.5

TEMPLATE NAME	PROTOCOL	STANDARD FLAG	PROCESSING 1	PROCESSING 2	PROCESSING 3	PROCESSING 4	...
RECEPTION TEMPLATE 1	HTTP	1	FORMAT CONVERSION	CODE CONVERSION	TRANSMISSION	-	...
RECEPTION TEMPLATE 2	HTTP	0	FORMAT CONVERSION	MASTER CONVERSION	CODE CONVERSION	TRANSMISSION	...
RECEPTION TEMPLATE 3	FTP	1	FORMAT CONVERSION	CODE CONVERSION	TRANSMISSION	-	...
RECEPTION TEMPLATE 4	FTP	0	FORMAT CONVERSION	CODE CONVERSION	ZIP COMPRESSION	BROADCAST	...
RECEPTION TEMPLATE 5	BSC	1	FORMAT CONVERSION	CODE CONVERSION	TRANSMISSION	-	...
RECEPTION TEMPLATE 6	WEB	1	FORMAT CONVERSION	CODE CONVERSION	TRANSMISSION	-	...
...	...	...	...	...	...	...	...

FIG.6

COMPANY NAME	BROADCAST DESTINATION
V	V1
	V2
	V3
	V4
W	W1
	W2
	W3
	...

FIG.7

COMPANY NAME	BEFORE CONVERSION	AFTER CONVERSION
A	PART A	1001
	PART B	1002
	PART C	1003
	...	...
B	CODE01	A0
	CODE02	A1
	...	...
...	...	...

FIG.8

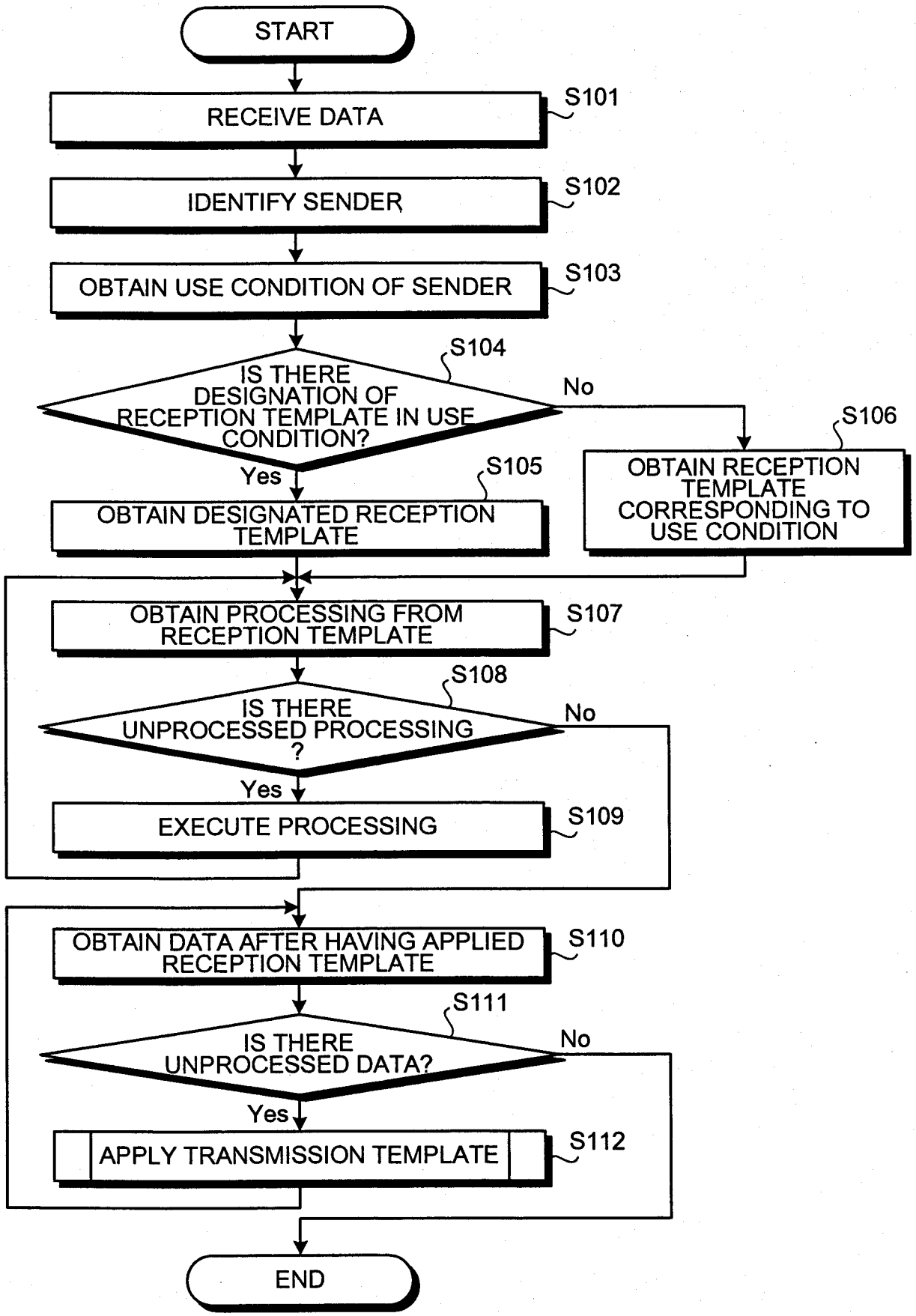

START
RECEIVE DATA
S101
IDENTIFY SENDER
S102
OBTAIN USE CONDITION OF SENDER
S103
S104
IS THERE DESIGNATION OF RECEPTION TEMPLATE IN USE CONDITION?
No
Yes
S105
OBTAIN DESIGNATED RECEPTION TEMPLATE
S106
OBTAIN RECEPTION TEMPLATE CORRESPONDING TO USE CONDITION
OBTAIN PROCESSING FROM RECEPTION TEMPLATE
S107
S108
IS THERE UNPROCESSED PROCESSING ?
No
Yes
EXECUTE PROCESSING
S109
OBTAIN DATA AFTER HAVING APPLIED RECEPTION TEMPLATE
S110
S111
IS THERE UNPROCESSED DATA?
No
Yes
APPLY TRANSMISSION TEMPLATE
S112
END

FIG.9

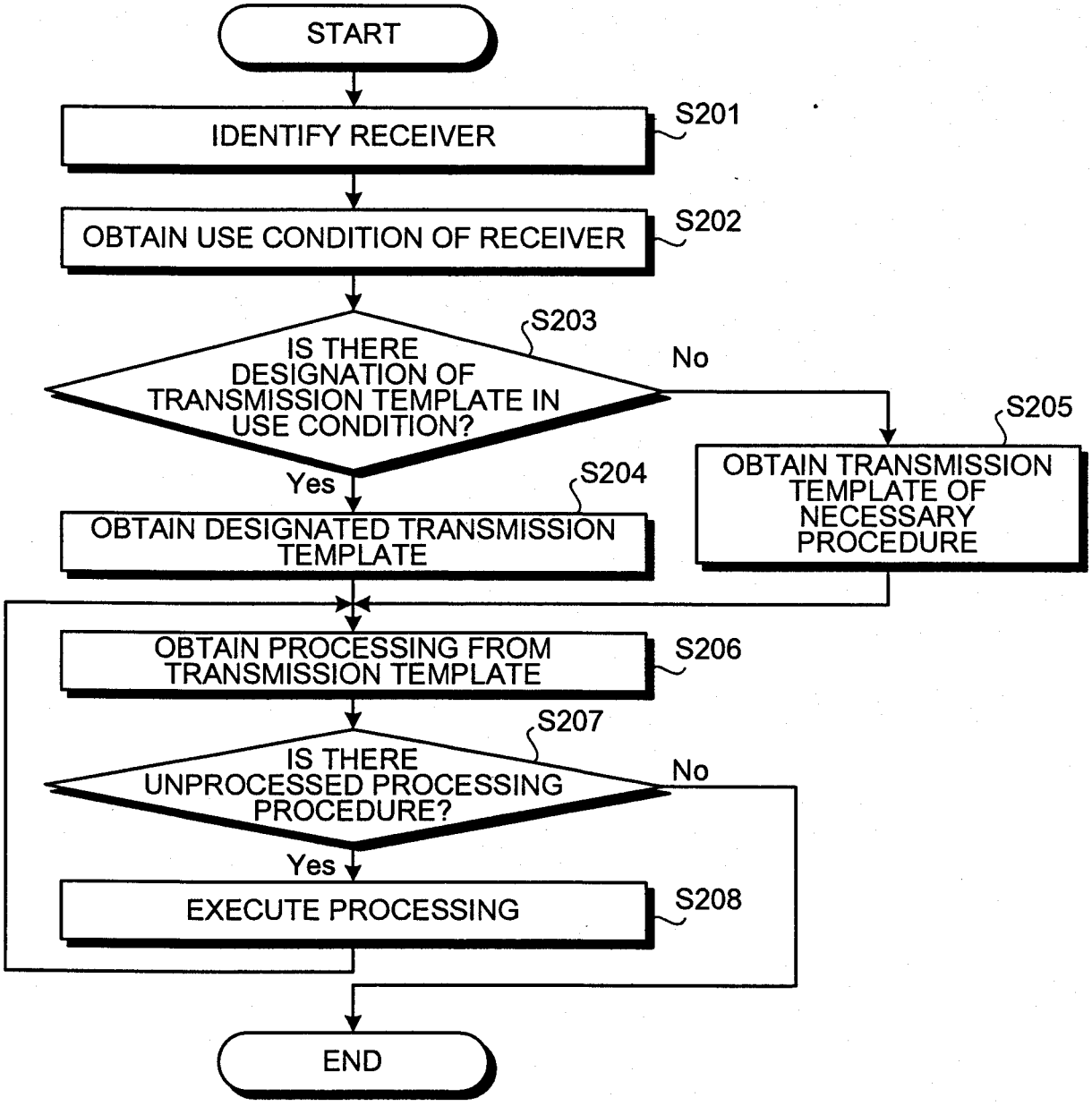

START
IDENTIFY RECEIVER
S201
OBTAIN USE CONDITION OF RECEIVER
S202
S203
IS THERE DESIGNATION OF TRANSMISSION TEMPLATE IN USE CONDITION?
No
Yes
S204
OBTAIN DESIGNATED TRANSMISSION TEMPLATE
S205
OBTAIN TRANSMISSION TEMPLATE OF NECESSARY PROCEDURE
OBTAIN PROCESSING FROM TRANSMISSION TEMPLATE
S206
S207
IS THERE UNPROCESSED PROCESSING PROCEDURE?
No
Yes
EXECUTE PROCESSING
S208
END

FIG.10

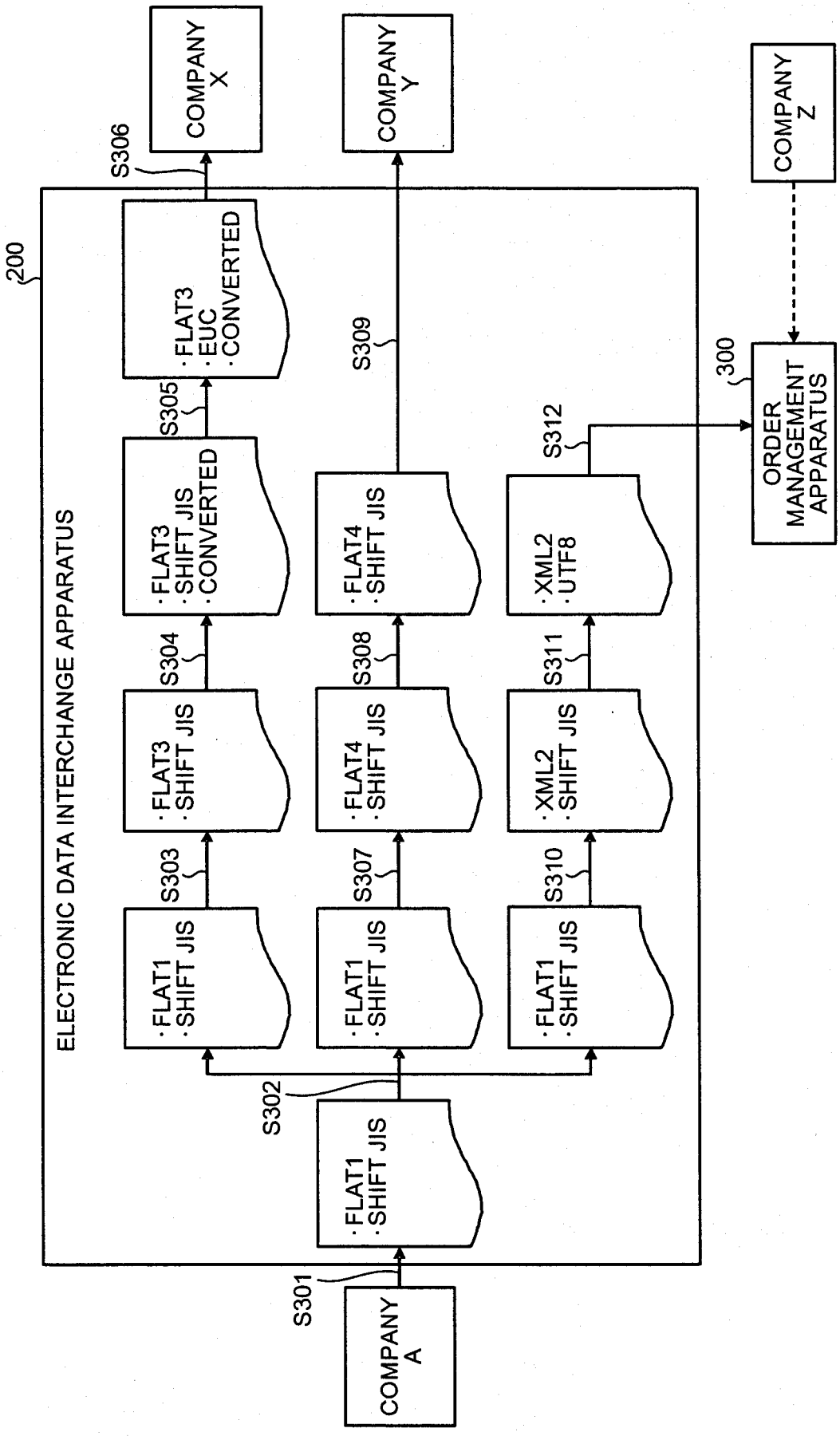

COMPANY A
S301
200
ELECTRONIC DATA INTERCHANGE APPARATUS
·FLAT1 ·SHIFT JIS
S302
·FLAT1 ·SHIFT JIS
S303
·FLAT3 ·SHIFT JIS
S304
·FLAT3 ·SHIFT JIS ·CONVERTED
S305
·FLAT3 ·EUC ·CONVERTED
S306
COMPANY X
·FLAT1 ·SHIFT JIS
S307
·FLAT4 ·SHIFT JIS
S308
·FLAT4 ·SHIFT JIS
S309
COMPANY Y
·FLAT1 ·SHIFT JIS
S310
·XML2 ·SHIFT JIS
S311
·XML2 ·UTF8
S312
300
ORDER MANAGEMENT APPARATUS
COMPANY Z

FIG.11

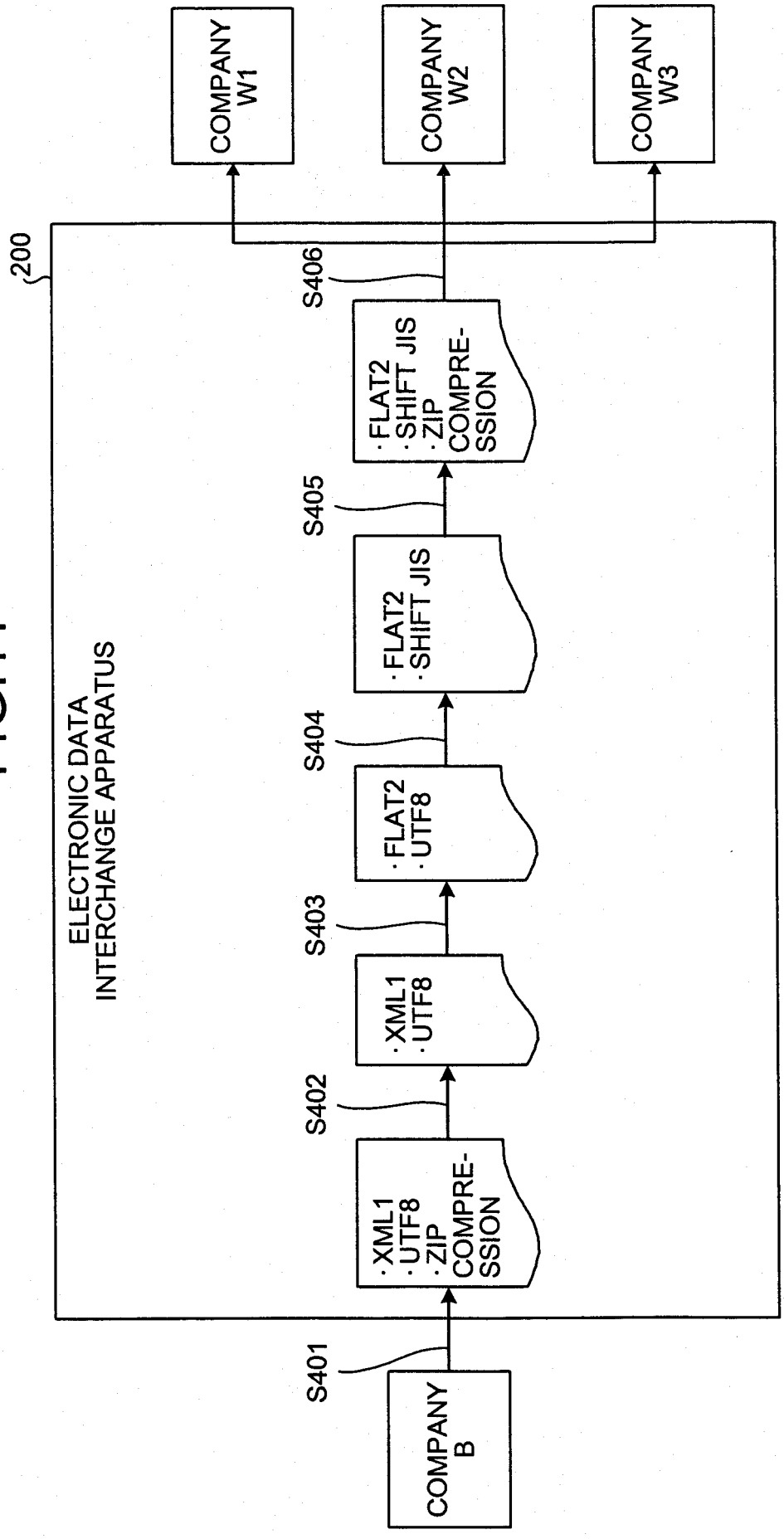
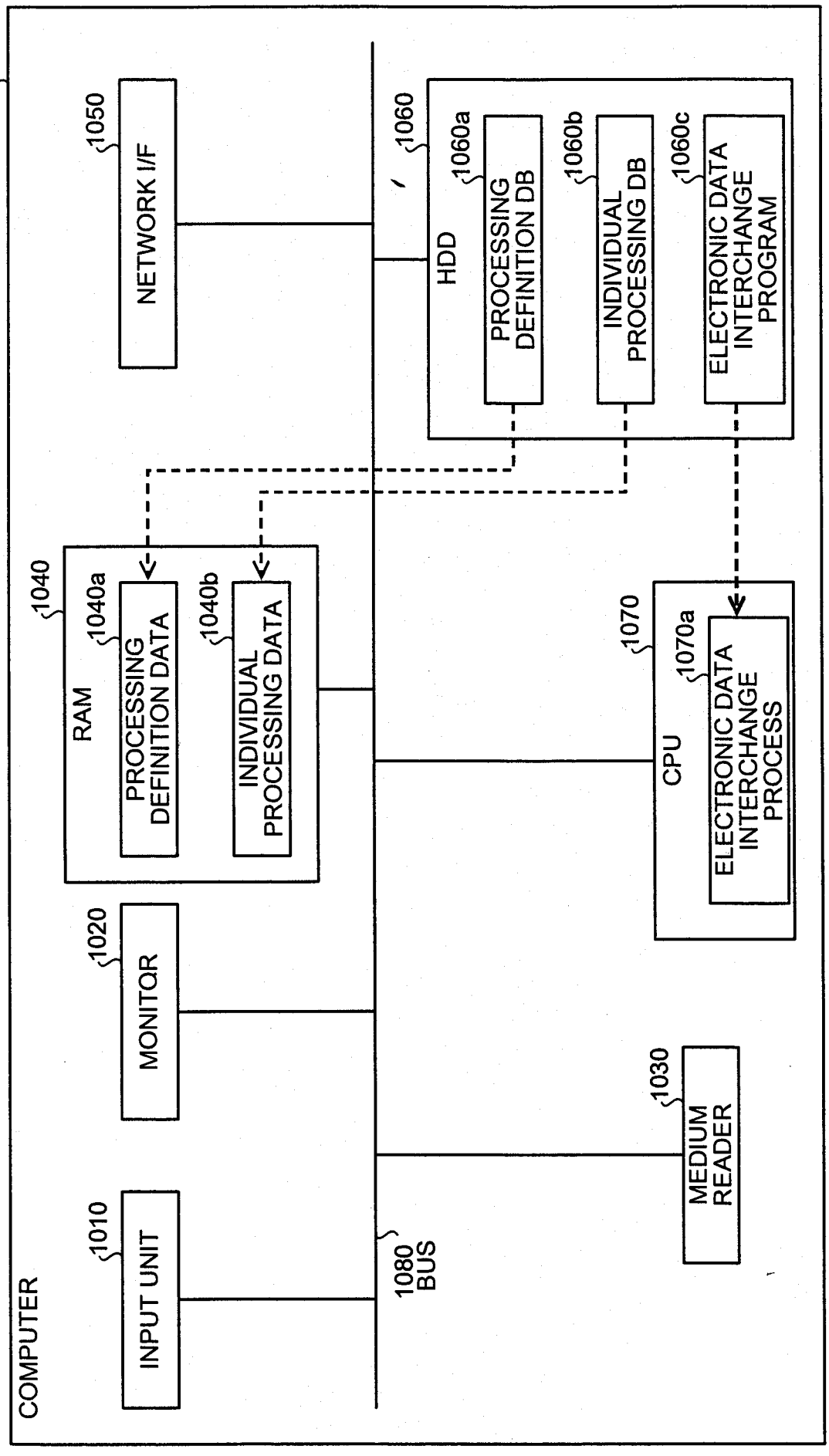

COMPANY B
S401
·XML1
·UTF8
·ZIP
COMPRE-
SSION
S402
·XML1
·UTF8
S403
·FLAT2
·UTF8
S404
·FLAT2
·SHIFT JIS
S405
·FLAT2
·SHIFT JIS
·ZIP
COMPRE-
SSION
S406
200
ELECTRONIC DATA
INTERCHANGE APPARATUS
COMPANY W1
COMPANY W2
COMPANY W3

FIG.12


1000
COMPUTER
1050
NETWORK I/F
1060
HDD
1060a
PROCESSING DEFINITION DB
1060b
INDIVIDUAL PROCESSING DB
1060c
ELECTRONIC DATA INTERCHANGE PROGRAM
1040
RAM
1040a
PROCESSING DEFINITION DATA
1040b
INDIVIDUAL PROCESSING DATA
1070
CPU
1070a
ELECTRONIC DATA INTERCHANGE PROCESS
1020
MONITOR
1030
MEDIUM READER
1010
INPUT UNIT
1080
BUS