FIG. 1

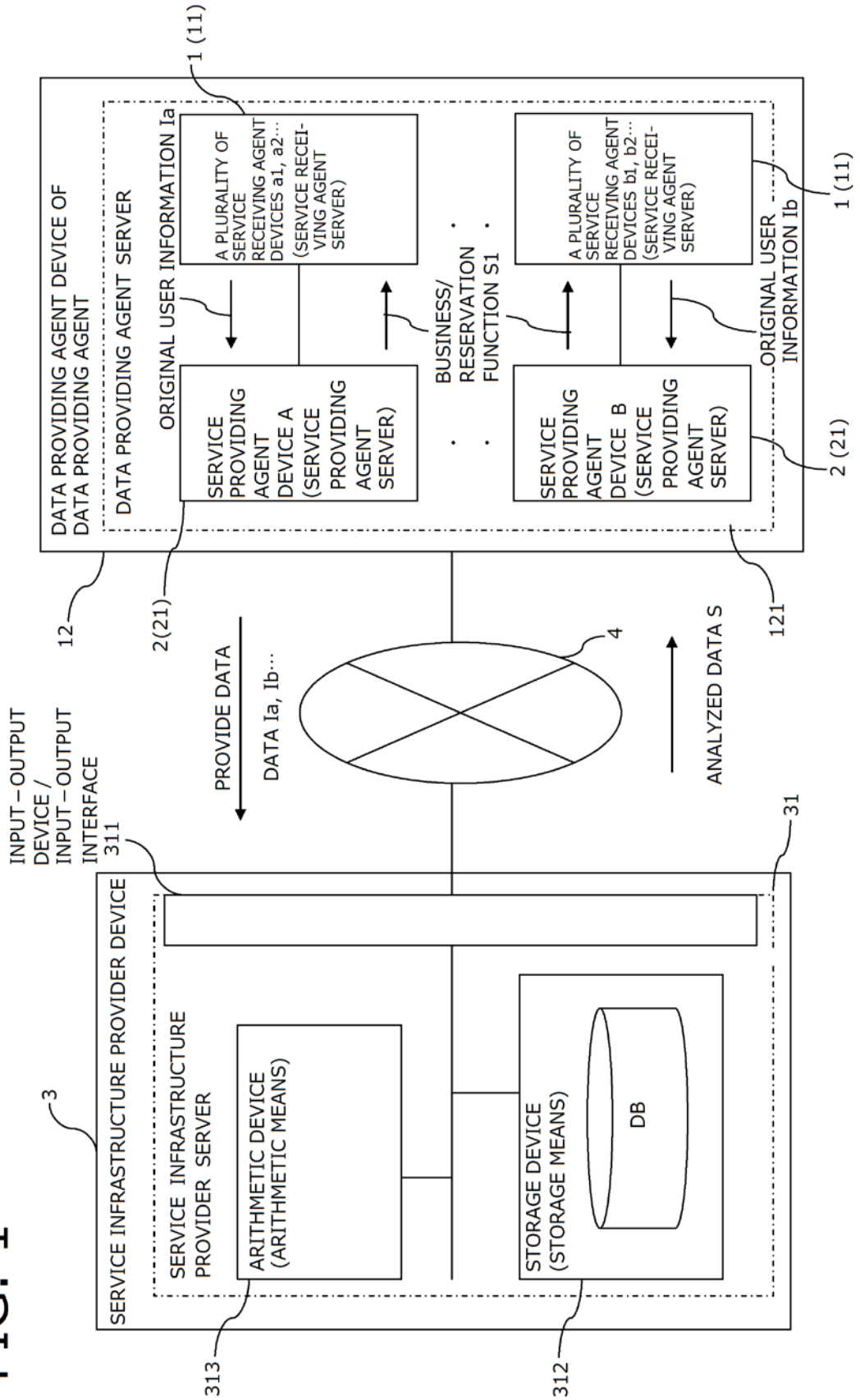

DATA PROVIDING AGENT DEVICE OF DATA PROVIDING AGENT
DATA PROVIDING AGENT SERVER
1 (11)
A PLURALITY OF SERVICE RECEIVING AGENT DEVICES a1, a2… (SERVICE RECEIVING AGENT SERVER)
ORIGINAL USER INFORMATION Ia
SERVICE PROVIDING AGENT DEVICE A (SERVICE PROVIDING AGENT SERVER)
BUSINESS/ RESERVATION FUNCTION S1
A PLURALITY OF SERVICE RECEIVING AGENT DEVICES b1, b2… (SERVICE RECEIVING AGENT SERVER)
ORIGINAL USER INFORMATION Ib
1 (11)
SERVICE PROVIDING AGENT DEVICE B (SERVICE PROVIDING AGENT SERVER)
2 (21)
12
2(21)
121
PROVIDE DATA
DATA Ia, Ib…
4
ANALYZED DATA S
INPUT–OUTPUT DEVICE / INPUT–OUTPUT INTERFACE
311
31
3
SERVICE INFRASTRUCTURE PROVIDER DEVICE
SERVICE INFRASTRUCTURE PROVIDER SERVER
ARITHMETIC DEVICE (ARITHMETIC MEANS)
STORAGE DEVICE (STORAGE MEANS)
DB
313
312

FIG. 2

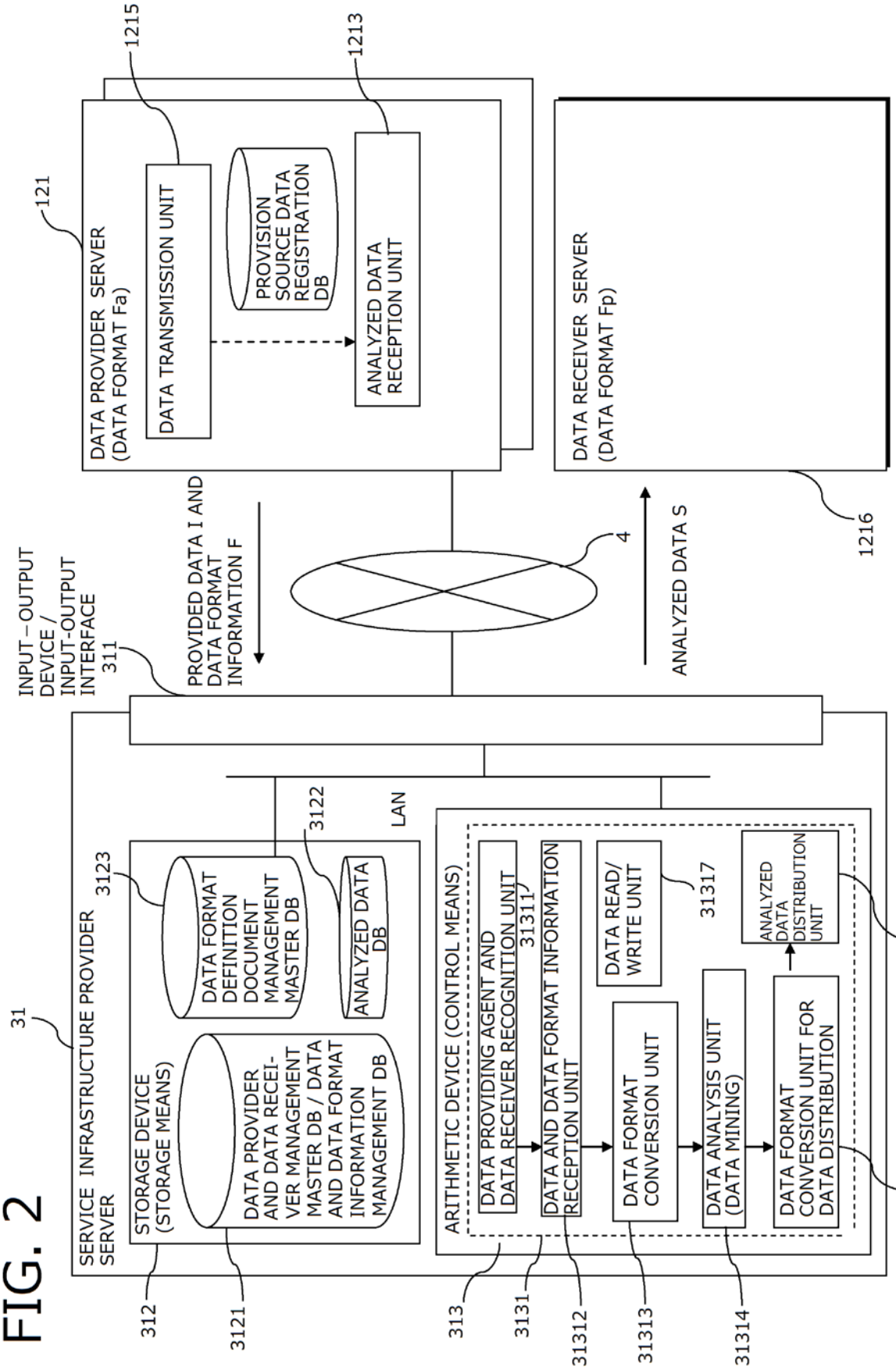

SERVICE INFRASTRUCTURE PROVIDER SERVER
31
INPUT－OUTPUT DEVICE / INPUT-OUTPUT INTERFACE
311
STORAGE DEVICE (STORAGE MEANS)
DATA PROVIDER AND DATA RECEI-VER MANAGEMENT MASTER DB / DATA AND DATA FORMAT INFORMATION MANAGEMENT DB
DATA FORMAT DEFINITION DOCUMENT MANAGEMENT MASTER DB
ANALYZED DATA DB
3123
3122
LAN
ARITHMETIC DEVICE (CONTROL MEANS)
DATA PROVIDING AGENT AND DATA RECEIVER RECOGNITION UNIT
31311
DATA AND DATA FORMAT INFORMATION RECEPTION UNIT
DATA FORMAT CONVERSION UNIT
DATA ANALYSIS UNIT (DATA MINING)
DATA FORMAT CONVERSION UNIT FOR DATA DISTRIBUTION
DATA READ/ WRITE UNIT
31317
ANALYZED DATA DISTRIBUTION UNIT
31318
31316
312
3121
313
3131
31312
31313
31314
PROVIDED DATA I AND DATA FORMAT INFORMATION F
ANALYZED DATA S
4
121
DATA PROVIDER SERVER (DATA FORMAT Fa)
DATA TRANSMISSION UNIT
PROVISION SOURCE DATA REGISTRATION DB
ANALYZED DATA RECEPTION UNIT
1215
1213
DATA RECEIVER SERVER (DATA FORMAT Fp)
1216

FIG. 3

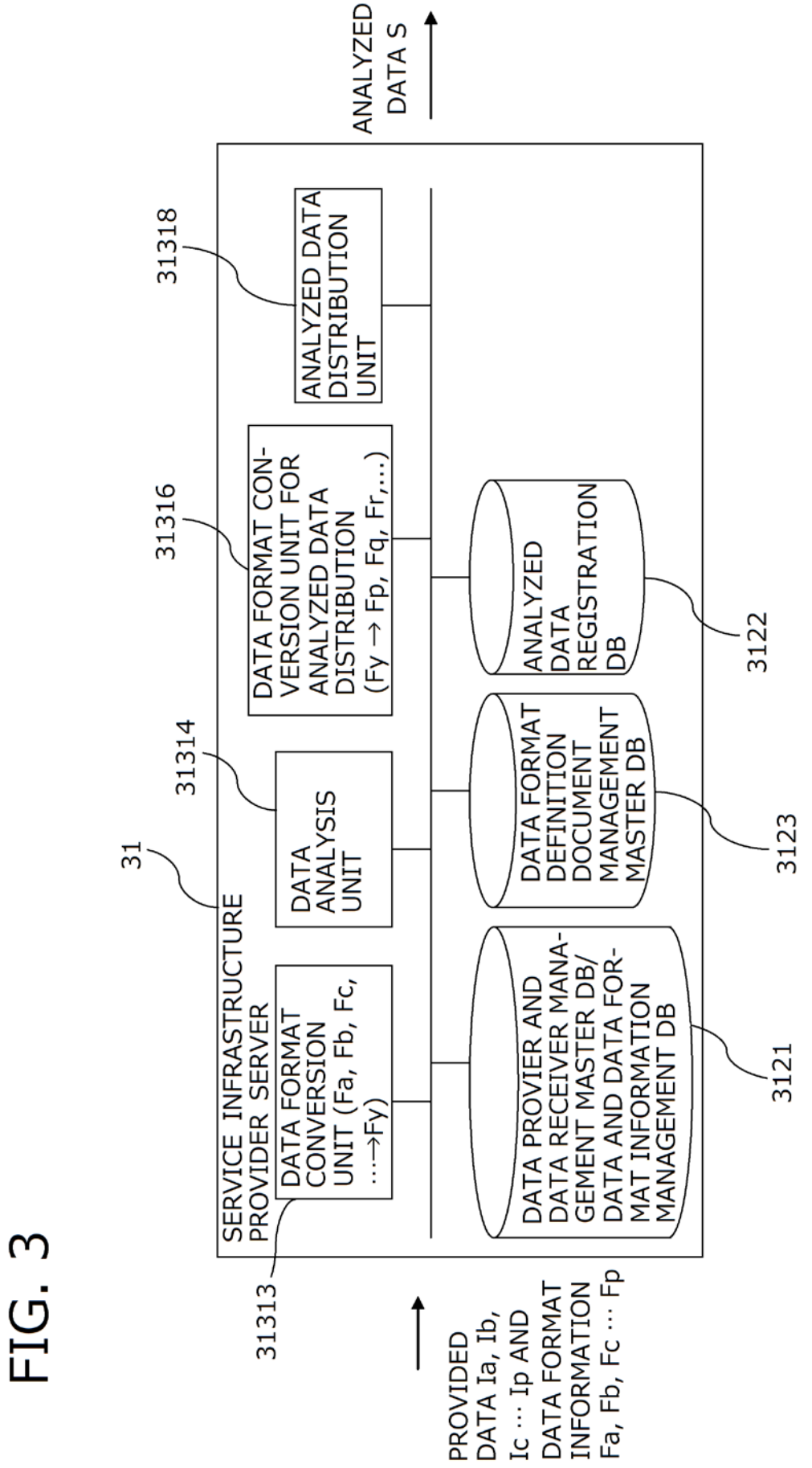
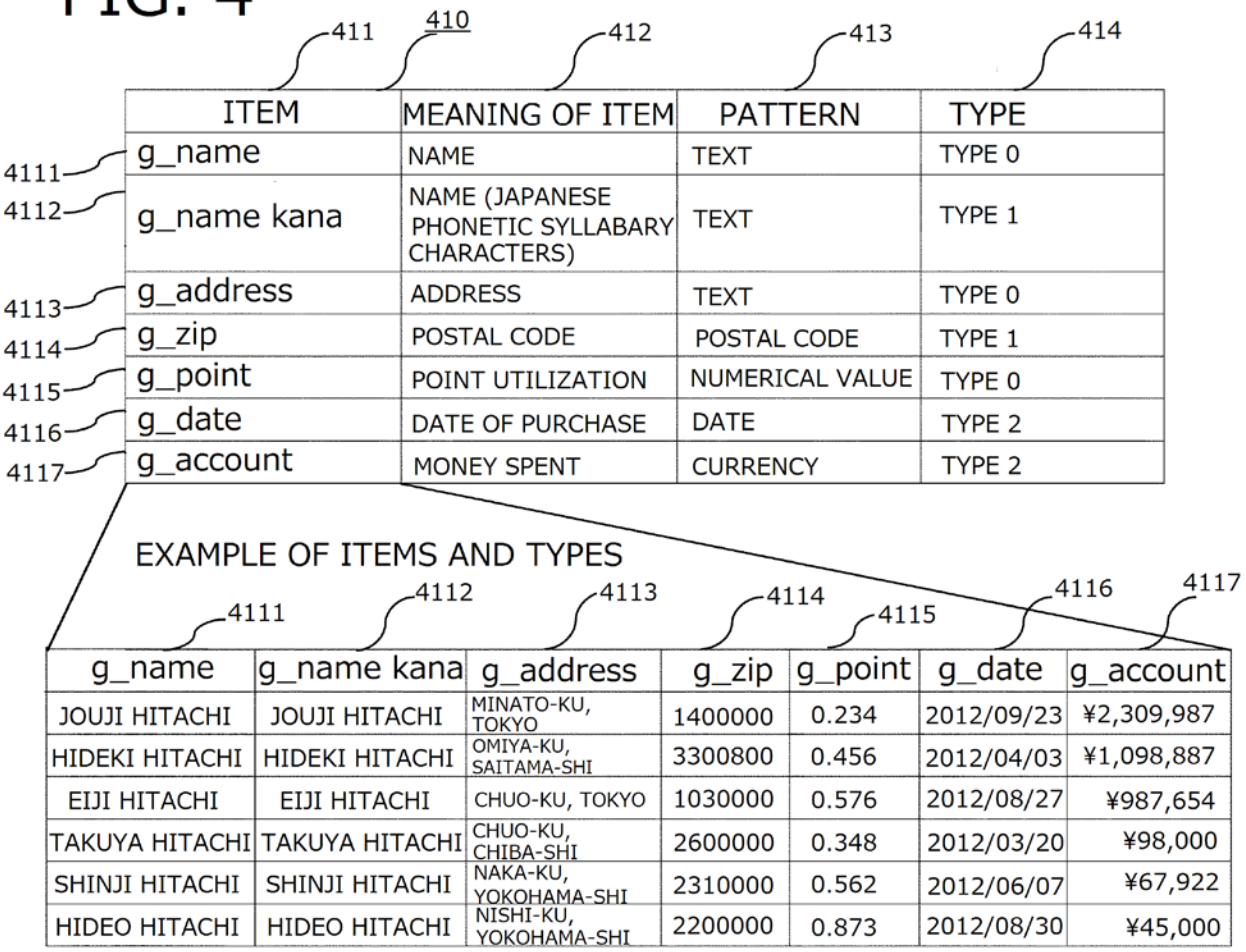

PROVIDED DATA Ia, Ib, Ic ··· Ip AND DATA FORMAT INFORMATION Fa, Fb, Fc ··· Fp
ANALYZED DATA S
31
SERVICE INFRASTRUCTURE PROVIDER SERVER
31313
DATA FORMAT CONVERSION UNIT (Fa, Fb, Fc, ···→Fy)
31314
DATA ANALYSIS UNIT
31316
DATA FORMAT CONVERSION UNIT FOR ANALYZED DATA DISTRIBUTION (Fy → Fp, Fq, Fr,...)
31318
ANALYZED DATA DISTRIBUTION UNIT
DATA PROVIER AND DATA RECEIVER MANAGEMENT MASTER DB/ DATA AND DATA FORMAT INFORMATION MANAGEMENT DB
3121
DATA FORMAT DEFINITION DOCUMENT MANAGEMENT MASTER DB
3123
ANALYZED DATA REGISTRATION DB
3122

FIG. 4



411 ITEM	410 MEANING OF ITEM	412 PATTERN	413 TYPE	414
4111 g_name	NAME	TEXT	TYPE 0	
4112 g_name kana	NAME (JAPANESE PHONETIC SYLLABARY CHARACTERS)	TEXT	TYPE 1	
4113 g_address	ADDRESS	TEXT	TYPE 0	
4114 g_zip	POSTAL CODE	POSTAL CODE	TYPE 1	
4115 g_point	POINT UTILIZATION	NUMERICAL VALUE	TYPE 0	
4116 g_date	DATE OF PURCHASE	DATE	TYPE 2	
4117 g_account	MONEY SPENT	CURRENCY	TYPE 2	

EXAMPLE OF ITEMS AND TYPES

4111 g_name	4112 g_name kana	4113 g_address	4114 g_zip	4115 g_point	4116 g_date	4117 g_account
JOUJI HITACHI	JOUJI HITACHI	MINATO-KU, TOKYO	1400000	0.234	2012/09/23	¥2,309,987
HIDEKI HITACHI	HIDEKI HITACHI	OMIYA-KU, SAITAMA-SHI	3300800	0.456	2012/04/03	¥1,098,887
EIJI HITACHI	EIJI HITACHI	CHUO-KU, TOKYO	1030000	0.576	2012/08/27	¥987,654
TAKUYA HITACHI	TAKUYA HITACHI	CHUO-KU, CHIBA-SHI	2600000	0.348	2012/03/20	¥98,000
SHINJI HITACHI	SHINJI HITACHI	NAKA-KU, YOKOHAMA-SHI	2310000	0.562	2012/06/07	¥67,922
HIDEO HITACHI	HIDEO HITACHI	NISHI-KU, YOKOHAMA-SHI	2200000	0.873	2012/08/30	¥45,000

FIG. 5

FORMAT MASTER OF TEXT 510

TYPE	DISPLAY STYLE	
TYPE 0	NO-DESIGNATION	NO-DESIGNATION
TYPE 1	JOUJI HITACHI	TWO-BYTE HIRAGANA CHARACTERS
TYPE 2	JOUJI HITACHI	TWO-BYTE KATAKANA CHARACTERS
TYPE 3	JOUJI HITACHI	ONE-BYTE KATAKANA CHARACTERS
TYPE 4	HITACHI JIYOUJI	TWO-BYTE HIRAGANA CHARACTERS IN LARGE LETTERS
TYPE 5	HITACHI JIYOUJI	TWO-BYTE KATAKANA CHARACTERS IN LARGE LETTERS
TYPE 6	HITACHI JIYOUJI	ONE-BYTE KATAKANA CHARACTERS IN LARGE LETTERS

FIG. 6

610

FORMAT MASTER OF POSTAL CODE

TYPE	DISPLAY STYLE
TYPE 0	NO-DESIGNATION
TYPE 1	WITHOUT HYPHEN
TYPE 2	WITH HYPHEN

FIG. 7

710

FORMAT MASTER OF NUMERICAL VALUE

TYPE	DISPLAY STYLE
TYPE 0	NO-DESIGNATION
TYPE 1	－#，###．#
TYPE 2	△#，###．#
TYPE 3	－####．#
TYPE 4	△####．#
TYPE 5	－#####
TYPE 6	△#####

FIG. 8

FORMAT MASTER OF DATE 810

TYPE	DISPLAY STYLE
TYPE 0	NO-DESIGNATION
TYPE 1	YYYYMMDD
TYPE 2	YYYY/MM/DD
TYPE 3	DDMM, YYYY

FIG. 9

FORMAT MASTER OF CURRENCY 910

TYPE	DISPLAY STYLE
TYPE 0	NO-DESIGNATION
TYPE 1	WITHOUT CURRENCY SIGN
TYPE 2	WITH CURRENCY SIGN

FIG. 10

FORMAT MASTER OF TELEPHONE NUMBER 1010

TYPE	DISPLAY STYLE
TYPE 0	NO-DESIGNATION
TYPE 1	WITHOUT HYPHEN
TYPE 2	WITH HYPHEN

FIG. 11

FORMAT MASTER OF PERCENTAGE 1020

TYPE	DISPLAY STYLE
TYPE 0	NO-DESIGNATION
TYPE 1	WITHOUT %
TYPE 2	WITH %

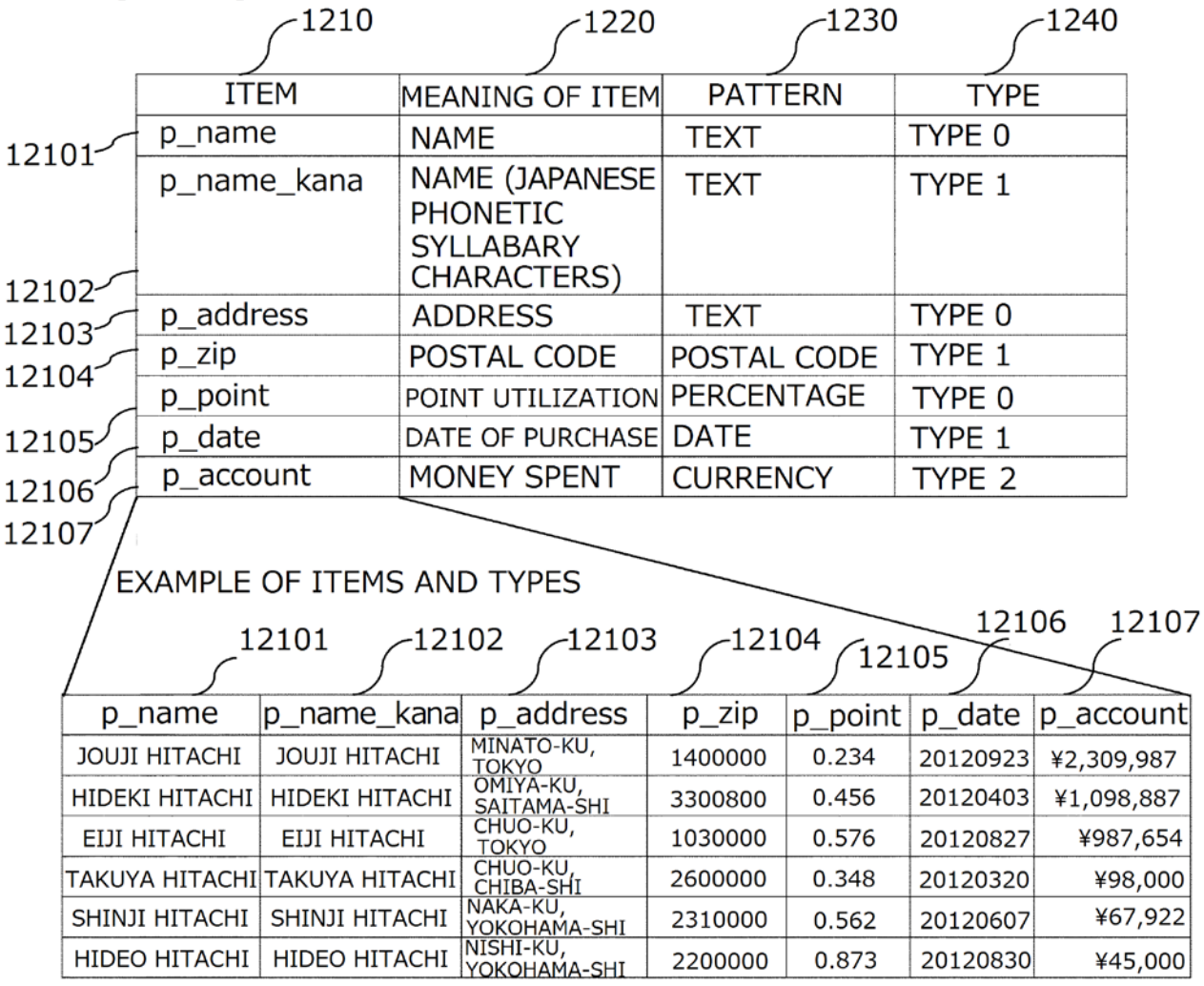
FIG. 12

	ITEM (1110)	MEANING OF ITEM (1120)	PATTERN (1130)	TYPE (1140)
11101	a_name	NAME	TEXT	TYPE 0
11102	a_name_kana	NAME (JAPANESE PHONETIC SYLLABARY CHARACTERS)	TEXT	TYPE 2
11103	a_address	ADDRESS	TEXT	TYPE 0
11104	a_zip	POSTAL CODE	POSTAL CODE	TYPE 2
11105	a_point	POINT UTILIZATION	PERCENTAGE	TYPE 2
	a_date	DATE OF PURCHASE	DATE	TYPE 1
11106	a_account	MONEY SPENT	CURRENCY	TYPE 2
11107				

EXAMPLE OF ITEMS AND TYPES

11101 a_name	11102 a_name_kana	11103 a_address	11104 a_zip	11105 a_point	11105 a_date	11106 a_account
JOUJI HITACHI	JOUJI HITACHI	MINATO-KU, TOKYO	140-0000	23.4%	2012/09/23	¥2,309,987
HIDEO HITACHI	HIDEO HITACHI	NISHI-KU, YOKOHAMA-SHI	220-0000	87.3%	2012/08/30	¥45,000
TAKUYA HITACHI	TAKUYA HITACHI	CHUO-KU, CHIBA-SHI	260-0000	34.8%	2012/03/20	¥98,000

FIG. 13



12101 p_name	12102 p_name_kana	12103 p_address	12104 p_zip	12105 p_point	12106 p_date	12107 p_account
JOUJI HITACHI	JOUJI HITACHI	MINATO-KU, TOKYO	1400000	0.234	20120923	¥2,309,987
HIDEKI HITACHI	HIDEKI HITACHI	OMIYA-KU, SAITAMA-SHI	3300800	0.456	20120403	¥1,098,887
EIJI HITACHI	EIJI HITACHI	CHUO-KU, TOKYO	1030000	0.576	20120827	¥987,654
TAKUYA HITACHI	TAKUYA HITACHI	CHUO-KU, CHIBA-SHI	2600000	0.348	20120320	¥98,000
SHINJI HITACHI	SHINJI HITACHI	NAKA-KU, YOKOHAMA-SHI	2310000	0.562	20120607	¥67,922
HIDEO HITACHI	HIDEO HITACHI	NISHI-KU, YOKOHAMA-SHI	2200000	0.873	20120830	¥45,000

FIG. 14

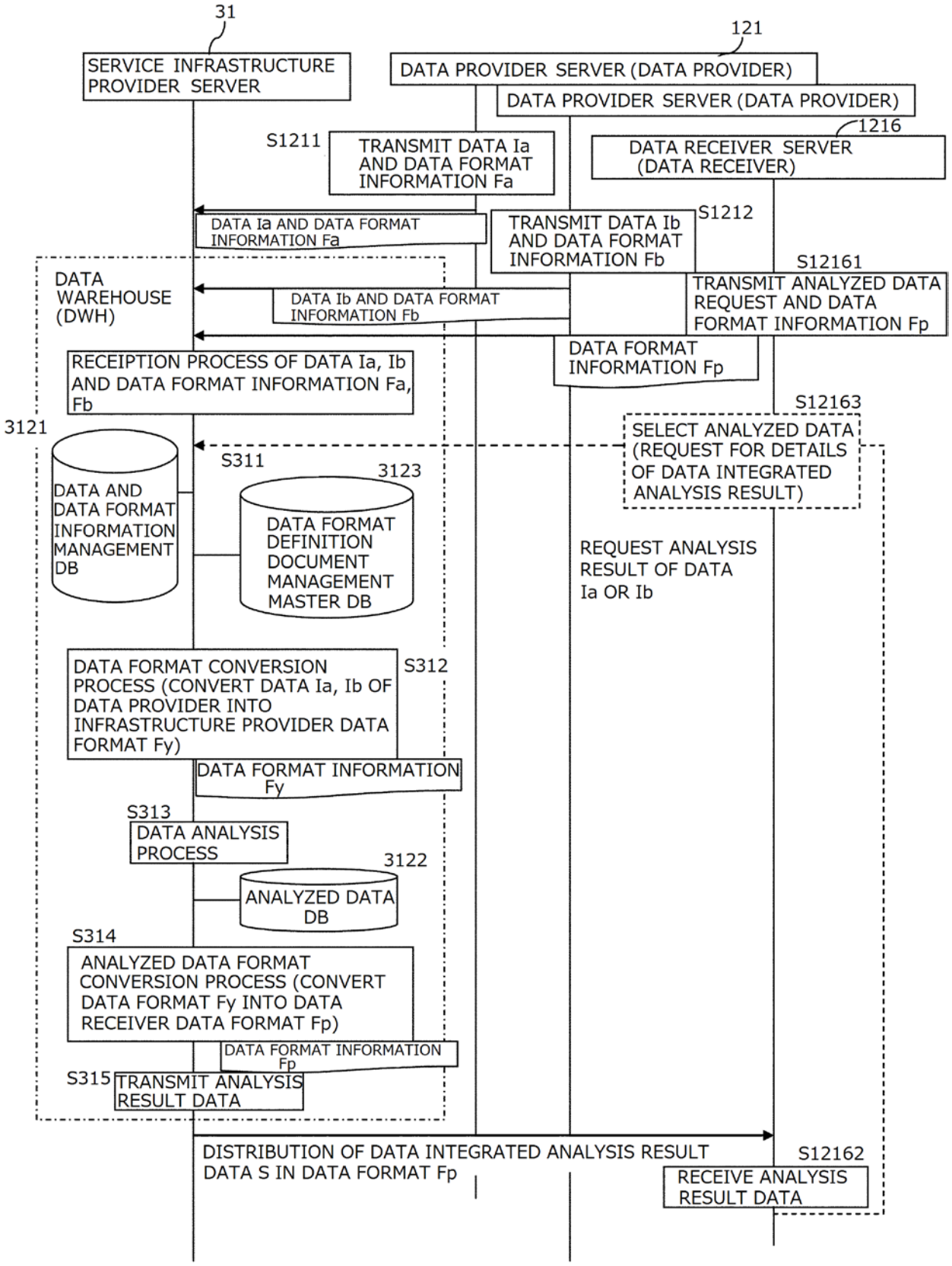

31
SERVICE INFRASTRUCTURE PROVIDER SERVER
121
DATA PROVIDER SERVER (DATA PROVIDER)
DATA PROVIDER SERVER (DATA PROVIDER)
1216
DATA RECEIVER SERVER (DATA RECEIVER)
S1211
TRANSMIT DATA Ia AND DATA FORMAT INFORMATION Fa
DATA Ia AND DATA FORMAT INFORMATION Fa
S1212
TRANSMIT DATA Ib AND DATA FORMAT INFORMATION Fb
S12161
TRANSMIT ANALYZED DATA REQUEST AND DATA FORMAT INFORMATION Fp
DATA WAREHOUSE (DWH)
DATA Ib AND DATA FORMAT INFORMATION Fb
DATA FORMAT INFORMATION Fp
RECEIPTION PROCESS OF DATA Ia, Ib AND DATA FORMAT INFORMATION Fa, Fb
S12163
SELECT ANALYZED DATA (REQUEST FOR DETAILS OF DATA INTEGRATED ANALYSIS RESULT)
3121
S311
3123
DATA AND DATA FORMAT INFORMATION MANAGEMENT DB
DATA FORMAT DEFINITION DOCUMENT MANAGEMENT MASTER DB
REQUEST ANALYSIS RESULT OF DATA Ia OR Ib
DATA FORMAT CONVERSION PROCESS (CONVERT DATA Ia, Ib OF DATA PROVIDER INTO INFRASTRUCTURE PROVIDER DATA FORMAT Fy)
S312
DATA FORMAT INFORMATION Fy
S313
DATA ANALYSIS PROCESS
3122
ANALYZED DATA DB
S314
ANALYZED DATA FORMAT CONVERSION PROCESS (CONVERT DATA FORMAT Fy INTO DATA RECEIVER DATA FORMAT Fp)
DATA FORMAT INFORMATION Fp
S315
TRANSMIT ANALYSIS RESULT DATA
DISTRIBUTION OF DATA INTEGRATED ANALYSIS RESULT DATA S IN DATA FORMAT Fp
S12162
RECEIVE ANALYSIS RESULT DATA

FIG. 15

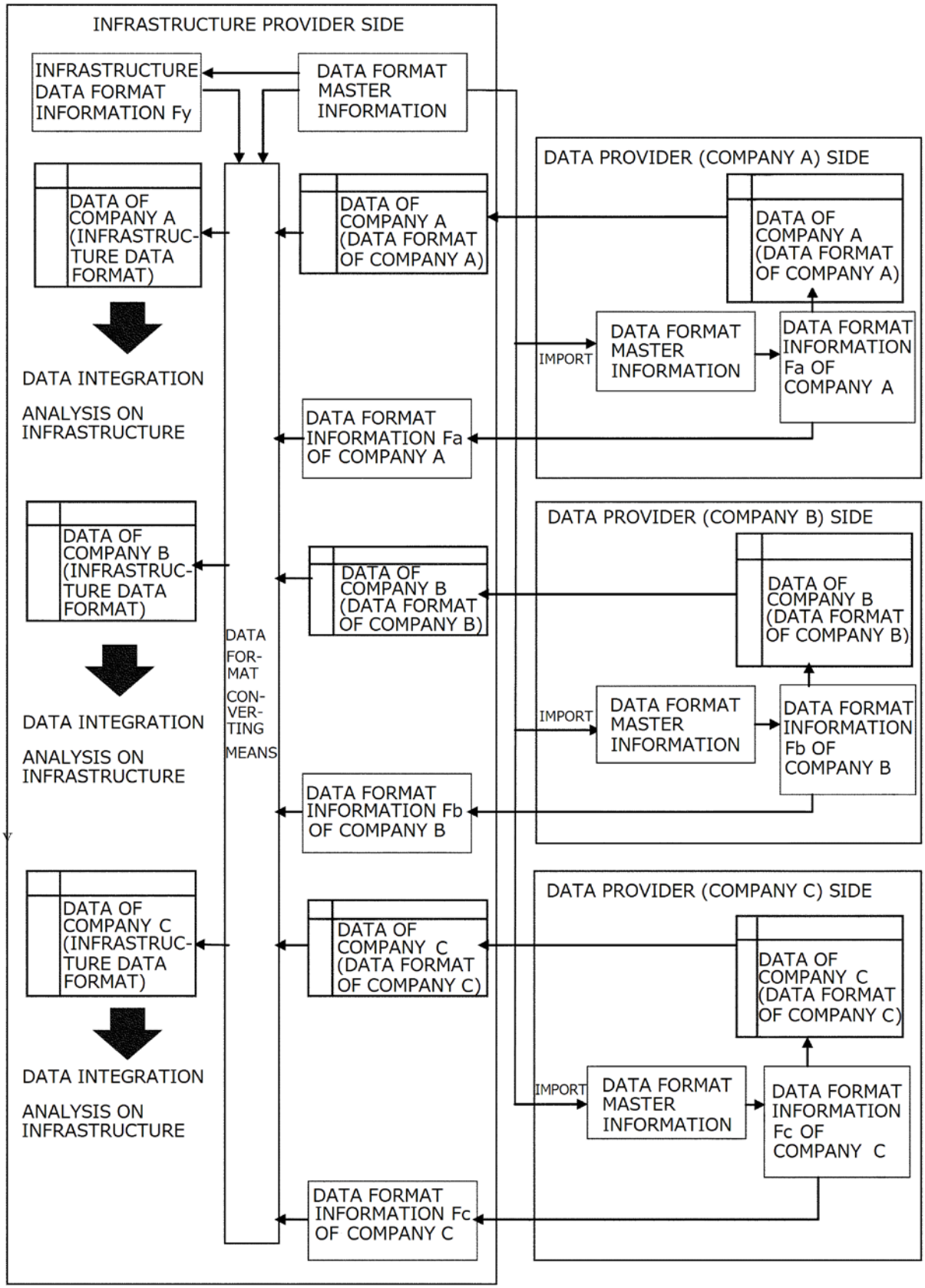

INFRASTRUCTURE PROVIDER SIDE
INFRASTRUCTURE DATA FORMAT INFORMATION Fy
DATA FORMAT MASTER INFORMATION
DATA OF COMPANY A (INFRASTRUC-TURE DATA FORMAT)
DATA OF COMPANY A (DATA FORMAT OF COMPANY A)
DATA INTEGRATION ANALYSIS ON INFRASTRUCTURE
DATA FORMAT INFORMATION Fa OF COMPANY A
DATA OF COMPANY B (INFRASTRUC-TURE DATA FORMAT)
DATA OF COMPANY B (DATA FORMAT OF COMPANY B)
DATA FOR-MAT CON-VER-TING MEANS
DATA INTEGRATION ANALYSIS ON INFRASTRUCTURE
DATA FORMAT INFORMATION Fb OF COMPANY B
DATA OF COMPANY C (INFRASTRUC-TURE DATA FORMAT)
DATA OF COMPANY C (DATA FORMAT OF COMPANY C)
DATA INTEGRATION ANALYSIS ON INFRASTRUCTURE
DATA FORMAT INFORMATION Fc OF COMPANY C
DATA PROVIDER (COMPANY A) SIDE
DATA OF COMPANY A (DATA FORMAT OF COMPANY A)
IMPORT
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fa OF COMPANY A
DATA PROVIDER (COMPANY B) SIDE
DATA OF COMPANY B (DATA FORMAT OF COMPANY B)
IMPORT
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fb OF COMPANY B
DATA PROVIDER (COMPANY C) SIDE
DATA OF COMPANY C (DATA FORMAT OF COMPANY C)
IMPORT
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fc OF COMPANY C

FIG. 16

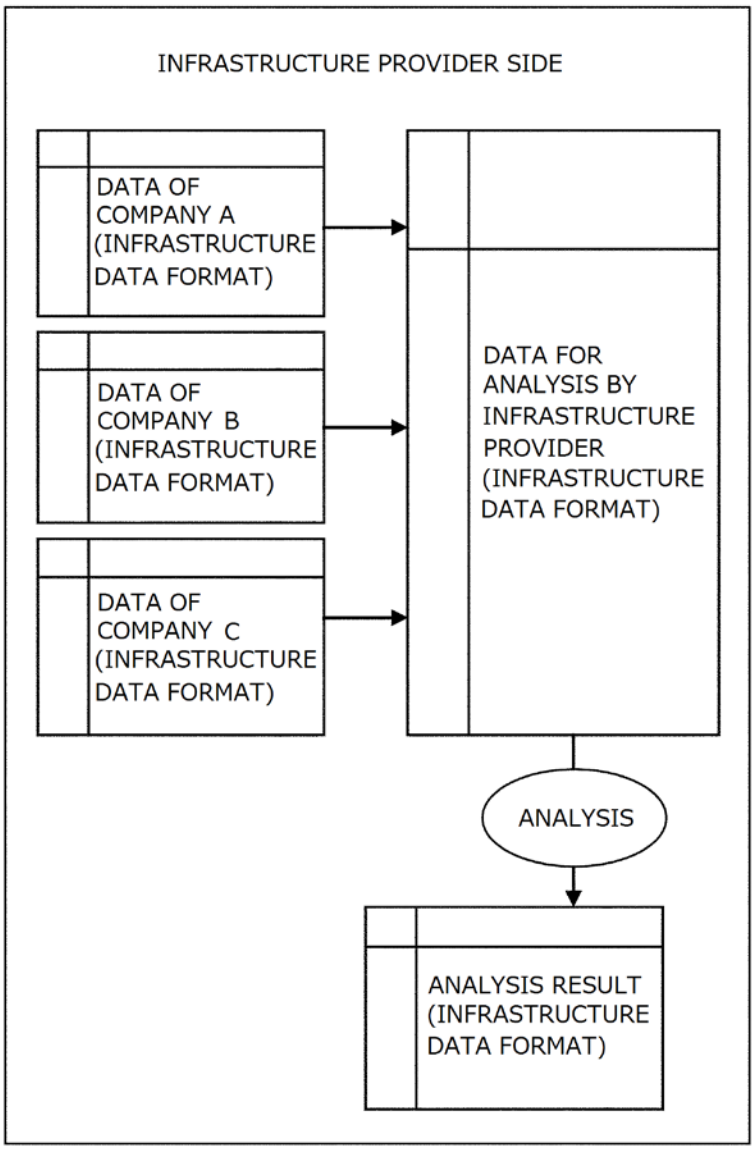

INFRASTRUCTURE PROVIDER SIDE
DATA OF COMPANY A (INFRASTRUCTURE DATA FORMAT)
DATA OF COMPANY B (INFRASTRUCTURE DATA FORMAT)
DATA OF COMPANY C (INFRASTRUCTURE DATA FORMAT)
DATA FOR ANALYSIS BY INFRASTRUCTURE PROVIDER (INFRASTRUCTURE DATA FORMAT)
ANALYSIS
ANALYSIS RESULT (INFRASTRUCTURE DATA FORMAT)

FIG. 17

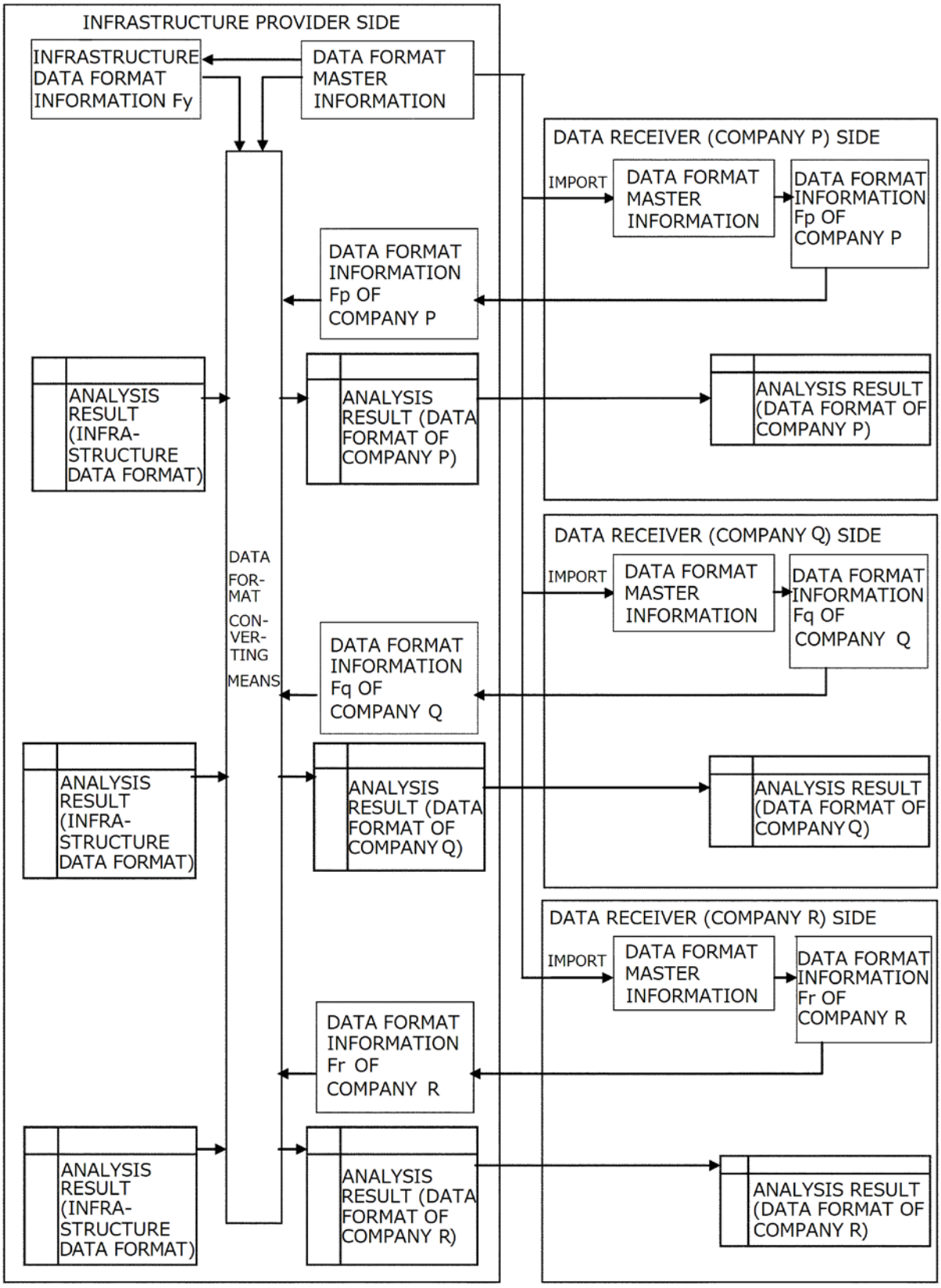

INFRASTRUCTURE PROVIDER SIDE
INFRASTRUCTURE DATA FORMAT INFORMATION Fy
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fp OF COMPANY P
ANALYSIS RESULT (INFRA-STRUCTURE DATA FORMAT)
ANALYSIS RESULT (DATA FORMAT OF COMPANY P)
DATA FOR-MAT CON-VER-TING MEANS
DATA FORMAT INFORMATION Fq OF COMPANY Q
ANALYSIS RESULT (INFRA-STRUCTURE DATA FORMAT)
ANALYSIS RESULT (DATA FORMAT OF COMPANY Q)
DATA FORMAT INFORMATION Fr OF COMPANY R
ANALYSIS RESULT (INFRA-STRUCTURE DATA FORMAT)
ANALYSIS RESULT (DATA FORMAT OF COMPANY R)
DATA RECEIVER (COMPANY P) SIDE
IMPORT
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fp OF COMPANY P
ANALYSIS RESULT (DATA FORMAT OF COMPANY P)
DATA RECEIVER (COMPANY Q) SIDE
IMPORT
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fq OF COMPANY Q
ANALYSIS RESULT (DATA FORMAT OF COMPANY Q)
DATA RECEIVER (COMPANY R) SIDE
IMPORT
DATA FORMAT MASTER INFORMATION
DATA FORMAT INFORMATION Fr OF COMPANY R
ANALYSIS RESULT (DATA FORMAT OF COMPANY R)

FIG. 18

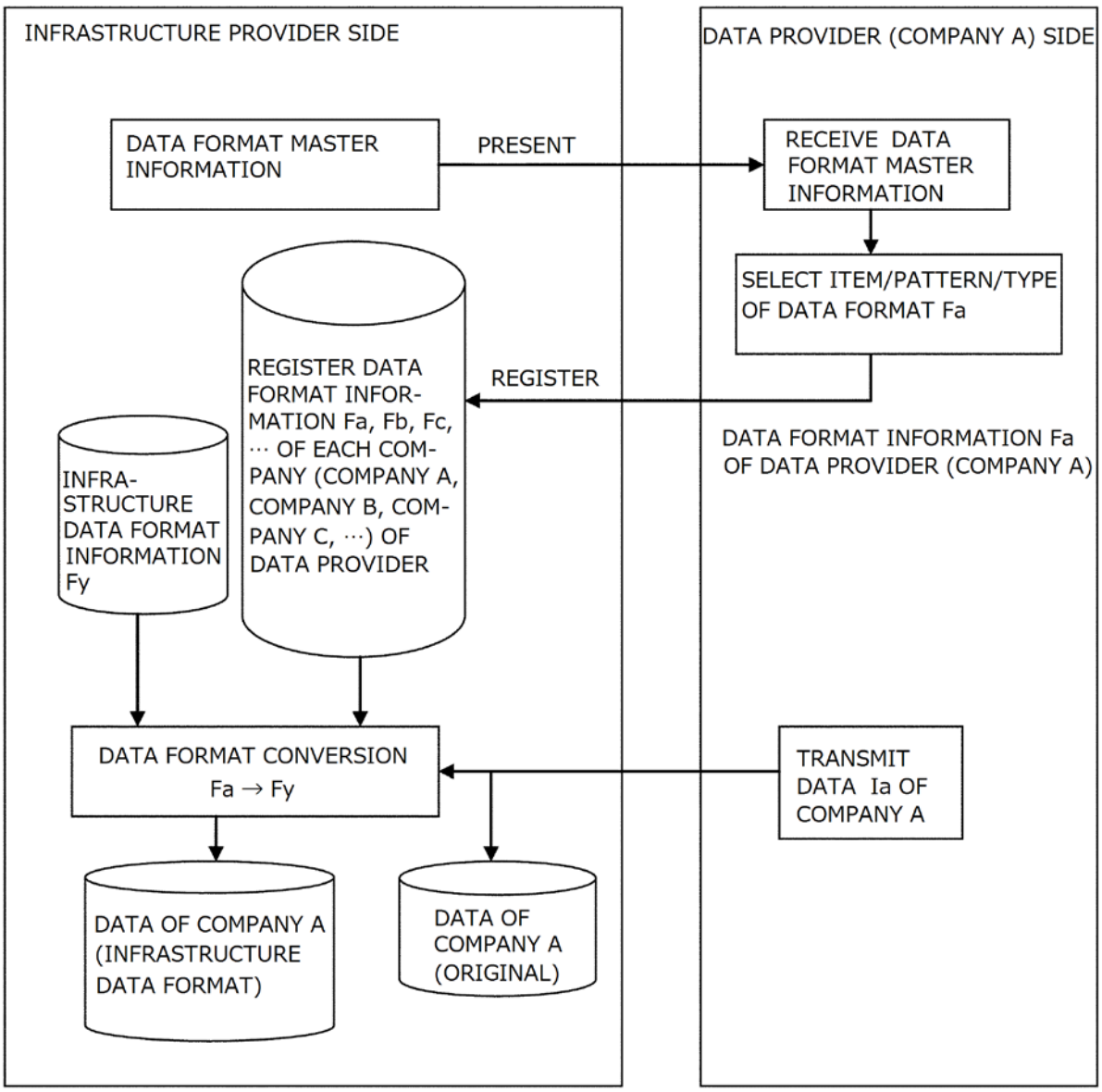
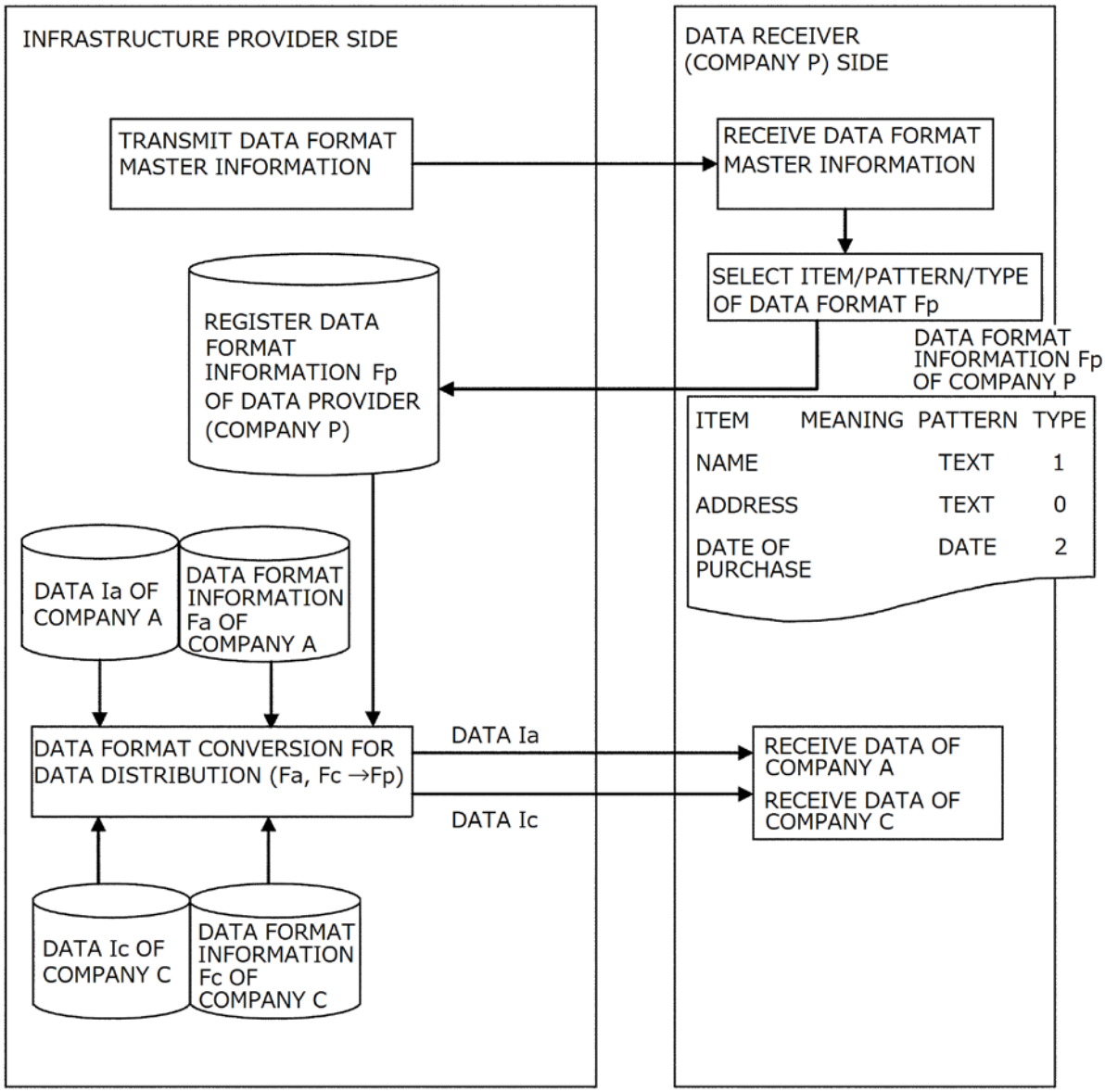

INFRASTRUCTURE PROVIDER SIDE
DATA PROVIDER (COMPANY A) SIDE
DATA FORMAT MASTER INFORMATION
PRESENT
RECEIVE DATA FORMAT MASTER INFORMATION
SELECT ITEM/PATTERN/TYPE OF DATA FORMAT Fa
REGISTER
REGISTER DATA FORMAT INFOR-MATION Fa, Fb, Fc, ··· OF EACH COM-PANY (COMPANY A, COMPANY B, COM-PANY C, ···) OF DATA PROVIDER
DATA FORMAT INFORMATION Fa OF DATA PROVIDER (COMPANY A)
INFRA-STRUCTURE DATA FORMAT INFORMATION Fy
DATA FORMAT CONVERSION Fa → Fy
TRANSMIT DATA Ia OF COMPANY A
DATA OF COMPANY A (INFRASTRUCTURE DATA FORMAT)
DATA OF COMPANY A (ORIGINAL)

FIG. 19


INFRASTRUCTURE PROVIDER SIDE
DATA RECEIVER (COMPANY P) SIDE
TRANSMIT DATA FORMAT MASTER INFORMATION
RECEIVE DATA FORMAT MASTER INFORMATION
SELECT ITEM/PATTERN/TYPE OF DATA FORMAT Fp
REGISTER DATA FORMAT INFORMATION Fp OF DATA PROVIDER (COMPANY P)
DATA FORMAT INFORMATION Fp OF COMPANY P
ITEM MEANING PATTERN TYPE
NAME TEXT 1
ADDRESS TEXT 0
DATE OF PURCHASE DATE 2
DATA Ia OF COMPANY A
DATA FORMAT INFORMATION Fa OF COMPANY A
DATA FORMAT CONVERSION FOR DATA DISTRIBUTION (Fa, Fc →Fp)
DATA Ia
DATA Ic
RECEIVE DATA OF COMPANY A
RECEIVE DATA OF COMPANY C
DATA Ic OF COMPANY C
DATA FORMAT INFORMATION Fc OF COMPANY C