

FIG. 1

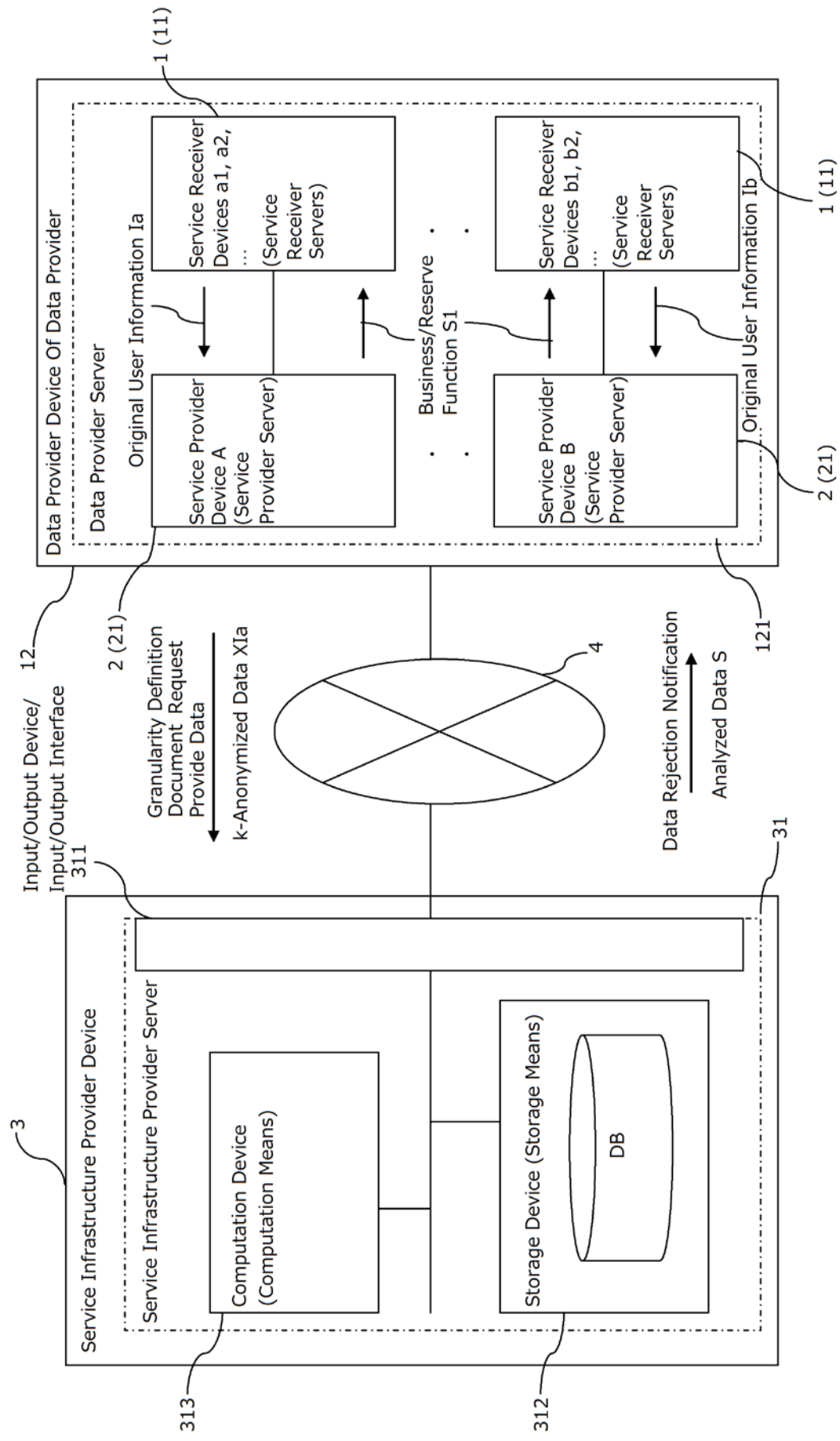


FIG. 2

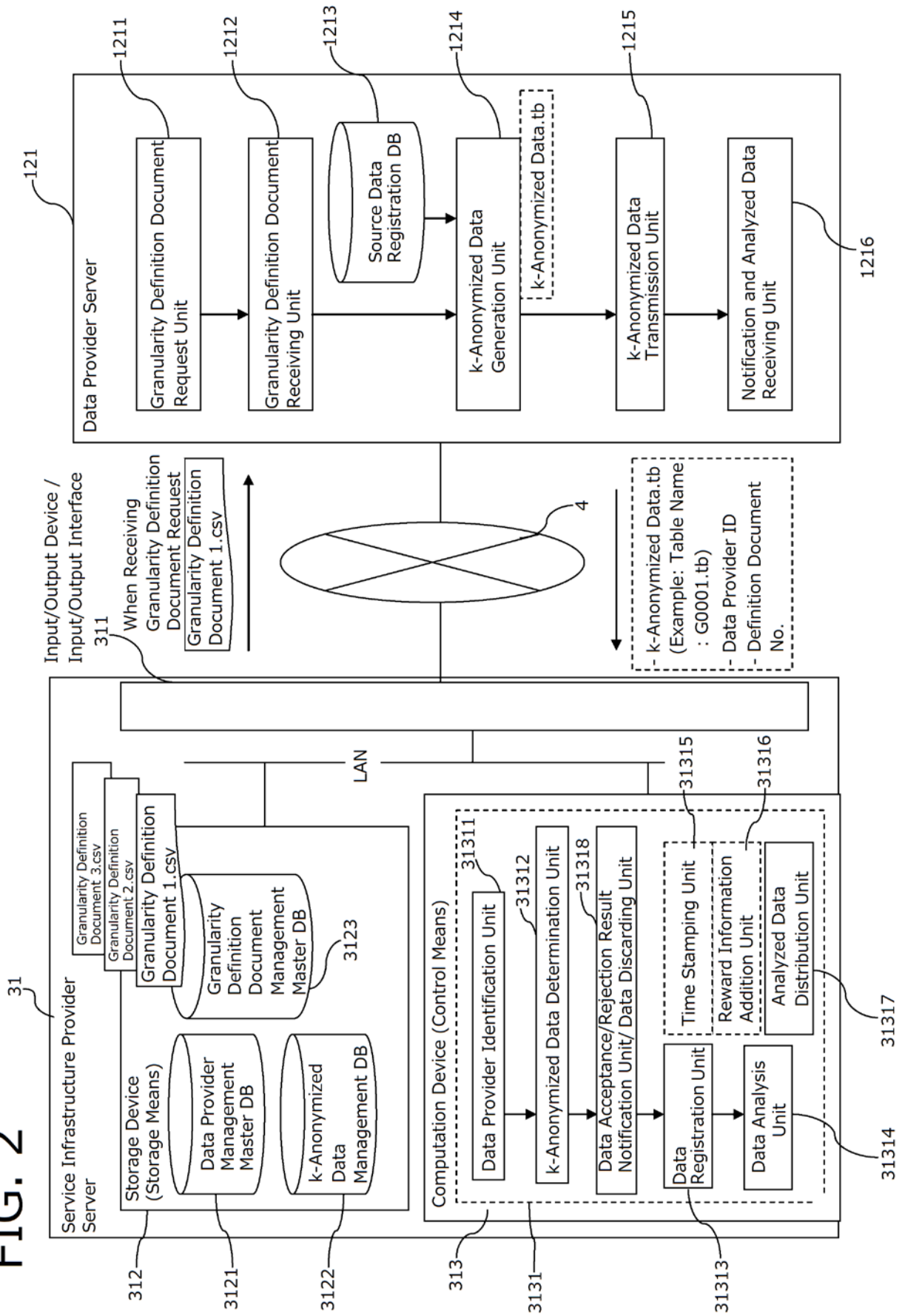


FIG. 3

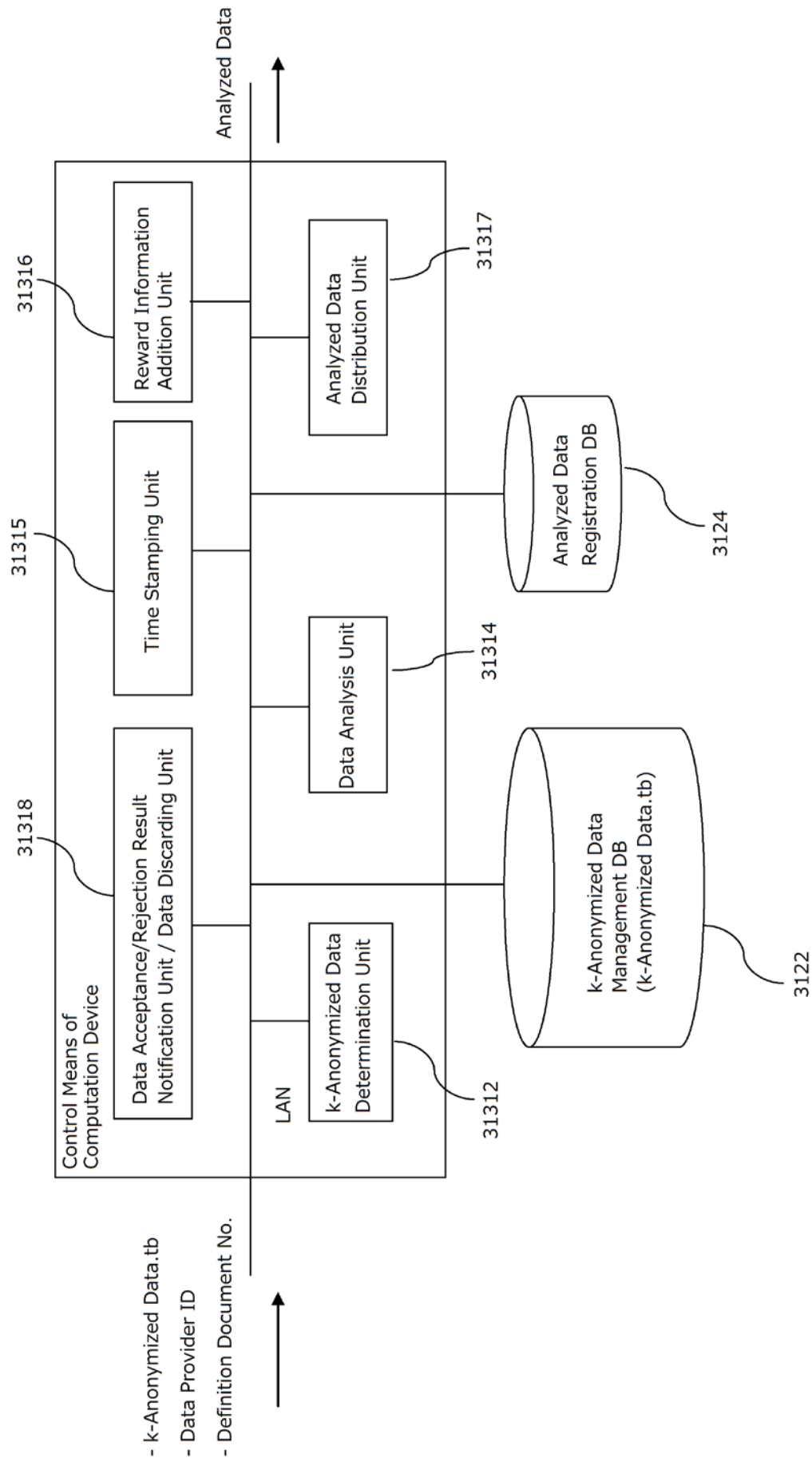


FIG. 4

Granularity Definition Management Master DB 3123

Granularity Definition Document No.	Granularity Definition Document Name (CSV File Format)
1	Granularity Definition Document 1.csv
2	Granularity Definition Document 2.csv
3	Granularity Definition Document 3.csv
n	Granularity Definition Document n.csv


T1

FIG. 5

File Example of Granularity Definition Document 1.csv

Anonymized Data					Non-Anonymized Data						
k,	Age (Range),	Age (Beginning),	Residential Area,	Working Area,	Day	,	Week (Beginning),	Year (Beginning)			
2,	3	,	0	,	Municipality	,	Prefecture	, 5 to 29 O'clock,	Monday	,	Jan. 1st

File Example of Granularity Definition Document 2.csv

k, Age (Range),	Age (Beginning),	Residential Area,	Working Area,	Day	, Week (Beginning),	Year (Beginning)
2, 5	, 0	, Municipality	, Prefecture	, 5 to 29 O'clock,	Monday	, Jan. 1st

File Example of Granularity Definition Document 3.csv

k, Age (Range),	Age (Beginning),	Residential Area,	Working Area,	Day	, Week (Beginning),	Year (Beginning)
5, 3	, 0	, Municipality	, Prefecture	, 5 to 29 O'clock,	Monday	, Jan. 1st

File Example of Granularity Definition Document n.csv

k,	Age (Range),	Age (Beginning),	Residential Area,	Working Area,	Day	,	Week (Beginning),	Year (Beginning)			
5,	10	,	0	,	Municipality	,	Prefecture	, 0 to 24 O'clock,	Sunday	,	Sunday of First Week

FIG. 6

Data Included in k-Anonymized Data.tb

Age Range	Residential Area	Others
30 - 34	Shinagawa-ku, Tokyo	

FIG. 7

Example of Table Name: G0001.tb, k=1 (Data is Unacceptable)

Quasi-Identifier		Others	
Age Range	Residential Area	Payment Method	Amount of Money
30-34	Shinagawa-ku, Tokyo	Credit Card	JPY 10,000
35-39	Minato-ku, Tokyo	Credit Card	JPY 3,000
20-24	Minato-ku, Tokyo	Cash on Delivery	JPY 5,000
25-29	Shinagawa-ku, Tokyo	Bank Transfer	JPY 5,000
30-34	Minato-ku, Tokyo	Cash on Delivery	JPY 15,000
60-64	Shinagawa-ku, Tokyo	Credit Card	JPY 3,500
30-34	Shinagawa-ku, Tokyo	Credit Card	JPY 12,000
20-24	Minato-ku, Tokyo	Credit Card	JPY 2,500
25-29	Shinagawa-ku, Tokyo	Bank Transfer	JPY 1,000
35-39	Minato-ku, Tokyo	Bank Transfer	JPY 1,500

FIG. 8

Example of Table Name: G0001.tb, k=2 (Data is acceptable)

T3



Quasi-Identifier		Others	
Age Range	Residential Area	Payment Method	Amount of Money
30-34	Shinagawa-ku, Tokyo	Credit Card	¥10,000
35-39	Minato-ku, Tokyo	Credit Card	¥3,000
20-24	Minato-ku, Tokyo	Cash on Delivery	¥5,000
25-29	Shinagawa-ku, Tokyo	Bank Transfer	¥5,000
30-34	Shinagawa-ku, Tokyo	Credit Card	¥12,000
20-24	Minato-ku, Tokyo	Credit Card	¥2,500
25-29	Shinagawa-ku, Tokyo	Bank Transfer	¥1,000
35-39	Minato-ku, Tokyo	Bank Transfer	¥1,500

FIG. 9

Example of Table of k-Anonymized Data Management DB 3122

T2

Table Name	Data Provider ID	Time (Time Stamp)	Go/No-Go Of Reward Payment	Number of Records	Number of Quasi-Identifiers	Granularity Definition Document No.
G0001.tb	G	2012.09.14.160:00	Go	10,000	2	1
G0002.tb	G					1
A0001.tb	A					2
G0003.tb	G					2
Y0001.tb	Y					3
G0004.tb	G					3

FIG. 10

