[0145] The location information message may further include waste type information indicating a garbage sorting type of a not yet discarded article carried by a consumer and/or waste amount information indicating an amount of not yet discarded article carried by a consumer (hereinafter, accordingly referred to as "waste-related information"). The waste-related information may be information generated by the controller 540 based on the information output by the operator 532. Specifically, the waste-related information may be information manually input by the consumer to the terminal apparatus 500. The terminal apparatus 500 may include a waste specifier 550 automatically generating the waste-related information. For example, the waste specifier 550 is configured in a manner same as and/or similar to the waste specifier 130 described above.

[0146] The location information message may further include destination information indicating a final destination of a consumer. The final destination is a destination other than the location of the resource recovery apparatus 100 and information indicating where the consumer ultimately wants to go. For example, an event venue, a home of the consumer, or the like corresponds to the final destination. The destination information may be information generated by the controller 540 based on the information output by the operator 532. Specifically, the destination information may be information manually input by the consumer to the terminal apparatus 500.

[0147] Secondly, once the communicator 510 receives the guide information message from the server apparatus 200, the controller 540 controls the user interface 530 such that the user interface 530 notifies the consumer of the information included in the guide information message. The guide information message includes information indicating the location of the recommended recovery apparatus. The guide information message may include also information other than the information indicating the location of the recommended recovery apparatus. FIG. 16 is a diagram illustrating a configuration example of the guide information message.

[0148] As illustrated in FIG. 16, the guide information message includes recommended recovery apparatus information including the location information of the recommended recovery apparatus. The location information is, for example, latitude/longitude information, and may include altitude information. The recommended recovery apparatus information may include, in addition to the location information of the recommended recovery apparatus, garbage sorting type information indicating a garbage sorting type configured for the recommended recovery apparatus and/or an apparatus identifier of the recommended recovery apparatus.

information. For example, the server apparatus 200, in a case of changing the location of the resource recovery apparatus 100 having been placed, may operate the resource recovery apparatus 100 by remote control to move the resource recovery apparatus 100 to the location indicated by the suggestion information.

[0218] In the variation of the second embodiment described above, the example is described in which the server apparatus 200 includes the incentive information manager 234a that determines the incentive given upon use of each resource recovery apparatus 100. The incentive information manager 234a may determine content of the incentive given to the consumer, based on shop information indicating a shop where the waste discarded by the consumer is sold. The incentive information manager 234a may determine to give a point associated with the shop where the waste discarded by the consumer is sold, for example, a point usable only in the group (chain shops, retailers, or the like) to which the shop belongs.

[0219] This can encourage the consumer to discard the waste in the resource recovery apparatus 100. From the viewpoint of the shop (company), a container packaging or the like of a product sold by the shop is not discarded on the streets, which improves a company's image (brand enhancement), and further increases an ability to attract customers owing to the points.

[0220] As an example of a method for specifying a shop selling a product, a tag writer may be provided to the shop to write sales shop information to the electronic tag 52 included in the product (article 50) from the tag writer. The resource recovery apparatus 100 reads the sell shop information from the electronic tag 52 and transmits the sales shop information to the server apparatus 200. This allows the server apparatus 200 to determine the shop where the waste discarded by the consumer is sold.

[0221] The server apparatus 200 may transmit the product identifier identifying the waste (article 50) discarded in the resource recovery apparatus 100 to an external apparatus via the network 10. The external apparatus is a communication apparatus belonging to a manufacturer or a retailer. This allows the manufacturer or the retailer to grasp what product is discarded in the resource recovery apparatus 100. A product difficult to discard in the resource recovery apparatus 100 can be also grasped, which can be leveraged for product development (container packaging) improvement or selling method improvement.

[0222] The product identifier transmitted from the server apparatus 200 to the external apparatus may be or may not be associated with the consumer identifier. The product identifier being not associated with the consumer identifier also leads to protection of individual information.

CLAIMS

1. A resource recovery system for recovering discarded articles to be recycled as resources, the resource recovery system comprising:

a plurality of resource recovery apparatuses, each of the plurality of resource recovery apparatuses configured to recover the discarded articles; and

a server apparatus configured to manage the plurality of resource recovery apparatuses, wherein

the server apparatus is further configured to generate suggestion information, based on both a utilization result of each of the plurality of resource recovery apparatuses and a location of each of the plurality of resource recovery apparatuses, the suggestion information including information indicating a suggestion for a location of one or more target resource recovery apparatus, and

each of the one or more target resource recovery apparatus is either a resource recovery apparatus to be newly placed or one of the plurality of resource recovery apparatuses of which location is to be changed.

2. The resource recovery system according to claim 1, wherein

each of the plurality of resource recovery apparatuses is further configured to transmit location information to the server apparatus, the location information indicating the location of the each of the plurality of resource recovery apparatuses.

3. The resource recovery system according to claim 1 or 2, wherein

each of the plurality of resource recovery apparatuses is further configured to transmit measurement information to the server apparatus, the measurement information that the server apparatus is to use to specify the utilization result of the each of the plurality of resource recovery apparatuses.

4. The resource recovery system according to claim 3, wherein

the measurement information is configured to include information indicating an amount of the discarded articles accumulated in the each of the plurality of resource recovery apparatuses or a remaining capacity of the each of the plurality of resource recovery apparatuses for the discarded articles.

5. The resource recovery system according to claim 3 or 4, wherein

each of the of the plurality of resource recover apparatuses is further configured to provide an opening/closing, and

the measurement information is configured to include either information indicating the number of times the opening/closing is opened or information indicating a length of a period the opening/closing is open.

6. The resource recovery system according to claim 3 or 4, wherein

the server apparatus is further configured to

specify, a geographical region based on both the utilization result and the location, the geographical region where an amount of discarded articles per unit time exceeds a predetermined amount, and

generate the suggestion information including information suggesting a location in the geographical region as a location of the target resource recovery apparatus.

7. The resource recovery system according to claim 6, wherein

the server apparatus is further configured to generate the suggestion information including information suggesting changing, to a location inside the geographical region, a location of a resource recovery apparatus outside the geographical region.

8. The resource recovery system according to any one of claims 1 to 7, wherein

the server apparatus is further configured to generate the suggestion information further including information suggesting a storage capacity for storing the discarded articles in the target resource recovery apparatus.

9. The resource recovery system according to any one of claims 1 to 8, wherein

the server apparatus is further configured to generate the suggestion information based on a type of articles recovered by each of the plurality of resource recovery apparatuses, the suggestion information further including information suggesting a sorting type, the sorting type indicating a type of the discarded articles to be recovered by the target resource recovery apparatus.

10. The resource recovery system according to claim 9, wherein

each of the plurality of resource recovery apparatuses is configured to include articles specifier configured to specify the discarded articles, and

the server apparatus is configured to specify, based on a result of the specification by the articles specifier, the type of the discarded articles recovered by each of the plurality of resource recovery apparatuses.

11. The resource recovery system according to any one of claims 1 to 10, wherein

the server apparatus is configured to generate the suggestion information further based on event information related to an event to be held in future.

12. The resource recovery system according to claim 11, wherein

the server apparatus is configured to manage the utilization result in association with an event type,

the event information is configured to include event type information indicating the event type, and

the server apparatus is configured to generate the suggestion information, based on the utilization result corresponding to the event type indicated by the event type information.

13. The resource recovery system according to claim 11 or 12, wherein

the event information is configured to include event-holding area information indicating an event-holding area where the event is to be held, and

the server apparatus is configured to generate the suggestion information, based on the event-holding area information, the suggestion information including information indicating a suggestion for a location, inside the event-holding area,.

14. The resource recovery system according to any one of claims 11 to 13, wherein

the event information is configured to include event-holding period information indicating a future period during which the event is to be held, and

the server apparatus is configured to generate the suggestion information, based on the event-holding period information, the suggestion information including information indicating a suggestion for the location of the target resource recovery apparatus during the future period.

15. The resource recovery system according to claim 14, wherein

the server apparatus is configured to generate the suggestion information further based on weather information on predicted weather during the future period.

16. The resource recovery system according to claim 12 or any one of claims 13 to 15 citing claim 12, wherein

the event information is configured to include participant headcount information indicating the number of participants participating in the event, and

the server apparatus is configured to generate the suggestion information, based on the participant headcount information and/or the event type information, the suggestion information further comprising either placement count information suggesting the number of the target resource recovery apparatus or type information suggesting the type of discarded articles to be recovered by the target resource recovery apparatus.

17. The resource recovery system according to any one of claims 1 to 16, wherein

the server apparatus is further configured to transmit the suggestion information to a communication apparatus belonging to a predetermined business operator, and

the predetermined business operator is either a business operator who locates the target resource recovery apparatus or a business operator who changes the location of the target resource recovery apparatus.

18. A server apparatus used in a resource recovery system for recovering discarded articles to be recycled as resources, the server apparatus comprising:

a communicator configured to communicate with a plurality of resource recovery apparatuses configured to recover the discarded articles; and

a processing unit configured to generate suggestion information, based on both a utilization result of each of the plurality of resource recovery apparatuses and a location of each of the plurality of resource recovery apparatuses, the suggestion information including information indicating a suggestion for the location of one or more target resource recovery apparatus, wherein

each of the one or more target resource recovery apparatuses is either a resource recovery apparatus to be newly located or one of the plurality of resource recovery apparatuses of which location is to be changed.

19. A resource recovery apparatus, in a resource recovery system for recovering discarded articles to be recycled as resources, configured to recover the discarded articles, the resource recovery apparatus comprising:

a measurer configured to generate measurement information for a server apparatus to specify a utilization result of the resource recovery apparatus;

a positioner configured to generate location information indicating a location of the resource recovery apparatus; and

a communicator configured to transmit, to the server apparatus, the measurement information and the location information in association with each other resource recover apparatus.

20. A method performed by a resource recovery system for recovering discarded articles to be recycled as resources, the method comprising:

communicating with a plurality of resource recovery apparatuses configured to recover discarded articles;

generating suggestion information, based on both a utilization result of each of the plurality of resource recovery apparatuses and a location of each of the plurality of resource recovery apparatuses, the suggestion information including information indicating a suggestion for a location of one or more target resource recovery apparatus, wherein

each of the one or more target resource recovery apparatuses is either a resource recovery apparatus to be newly placed or one of the plurality of resource recovery apparatuses located and of which location is to be changed.