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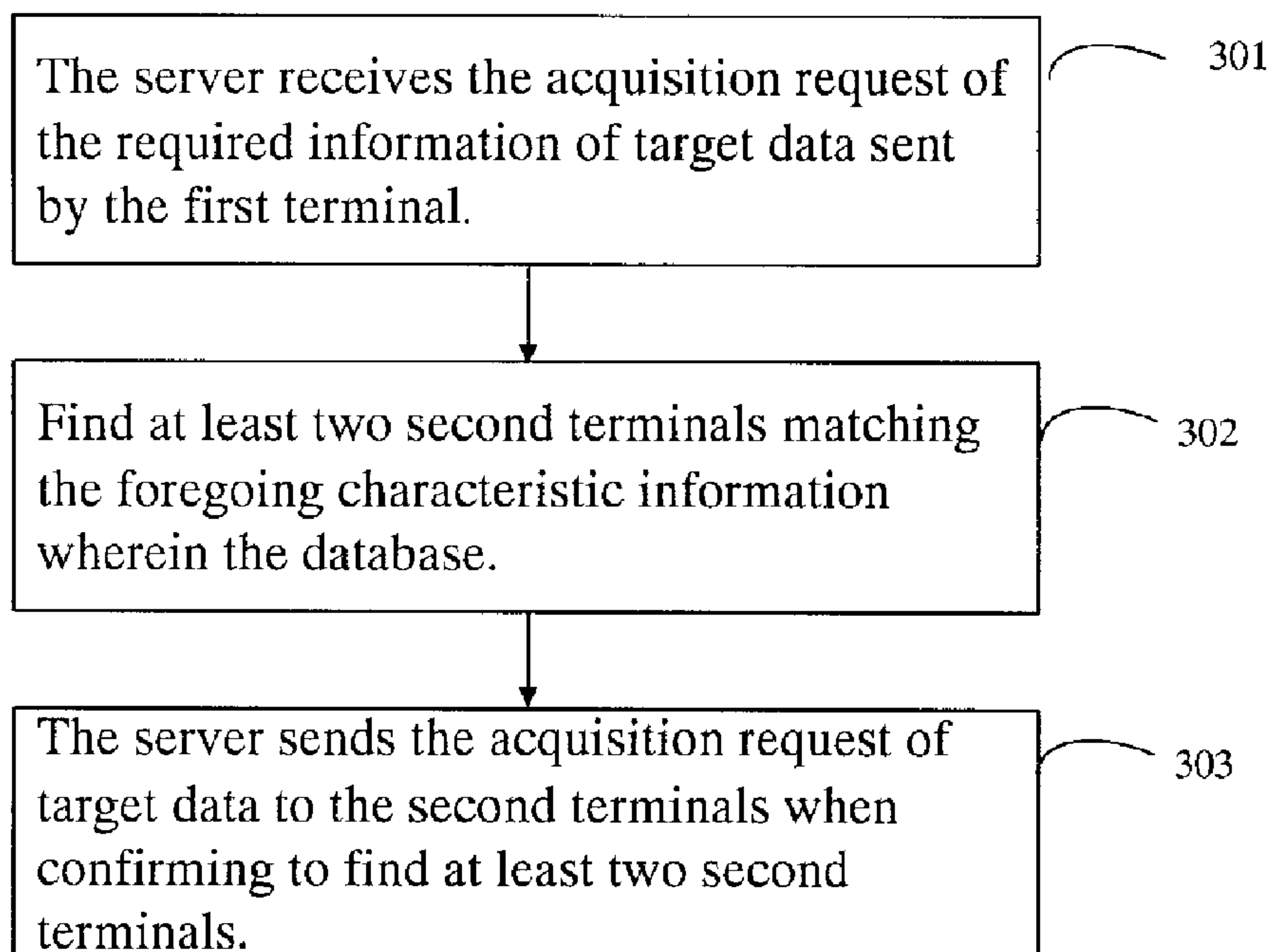


Figure 3

(57) **Abrégé/Abstract:**

A data exchange processing method and device. The data exchange processing method comprises: a server receives target data requirement information transmitted by a first terminal, the requirement information including characteristics information of the target data (301); searching in a database for at least two second terminals matching the characteristics information (302); after determining that a second terminal matching the characteristics information is found, transmitting to the second terminal an acquisition request for acquiring the target data (303). The present method effectively enhances the merchandise screening efficiency.

**Abstract**

A data exchange processing method and device. The data exchange processing method comprises: a server receives target data requirement information transmitted by a first terminal, the requirement information including characteristics information of the target data (301); searching in a database for at least two second terminals matching the characteristics information (302); after determining that a second terminal matching the characteristics information is found, transmitting to the second terminal an acquisition request for acquiring the target data (303). The present method effectively enhances the merchandise screening efficiency.

## Data Exchange Processing Method, Terminal, and System

### Technical Field

- [1] The present invention relates to the credit field, and in particular, to a method, terminal and system of data exchange processing.

### Background Technology

- [2] With the development of Internet technology, especially mobile Internet technology, users can access to the Internet through mobile devices using 2G,3G,4G or WIFI to conduct interaction and social activities. Users can conveniently and effectively perform online activities, this is an incomparable experience with offline. But there is no effective solution about using the Internet faster to find out users' required information yet.
- [3] As an example of a data exchange processing in user's living scene of the common day, when users purchase products online, they usually search the keywords on the platform provided by the Internet, and screen what they would like to purchase from a large amount of the search results. In this way, when the information obtained through the keyword matches the information actually required by the user is not high, the user cannot obtain the required information quickly and accurately, so that purchasing product is inefficient.

### Summary of the Invention

- [4] An object of the present invention is to provide a data interaction processing method, device and system, which can improve the efficiency of the data matching.
- [5] To solve the problem above, the first technical solution adopted by the present invention is to provide a data interaction process method, which includes:
- [6] The server receives the acquisition request of the required information of target data from the first terminal; thereinto, the required information comprises the characteristic information of target data;

and

- [7] Find at least two second terminals matching the characteristic information wherein the database;  
and
- [8] Send the acquisition request of target data to the matched second terminals when the second terminals matching with the characteristic information are found.
- [9] To solve the problem above, the second technical solution adopted by the present invention is to provide a data interaction process method, which includes:
- [10] The server receives the acquisition request of the required information of target data from the first terminal; thereinto, the required information comprises the characteristic information of target data;  
and
- [11] Receive the target data from the second terminals.
- [12] To solve the problem above, the third technical solution adopted by the present invention is to provide a data interaction process method, which includes:
- [13] The server receives the acquisition request of the required information of target data from the first terminal; thereinto, the required information comprises the characteristic information of target data;  
and
- [14] The server receives the required information, and finds at least two second terminals matching the foregoing characteristic information wherein the database; and the server sends the acquisition request of target data to the matched second terminals when the second terminals matching with the characteristic information are found; and
- [15] The second terminal receives the acquisition request, and sends foregoing target data to the first terminal; and
- [16] The first terminal receives the target data.
- [17] To solve the problem above, the fourth technical solution adopted by the present invention is to provide a data interaction process device, which includes a receiving module, a matching module and a sending module,
- [18] The receiving module is used to receive target data's required information from the first terminal; thereinto, the required information comprises the characteristic information of target data; and
- [19] The matching module is used to find at least two second terminals matching the foregoing characteristic information wherein the database; and
- [20] The sending module is used to send the acquisition request of target data to the foregoing second

terminals when the second terminals matching with the characteristic information are found.

- [21] To solve the problem above, the fifth technical solution adopted by the present invention is to provide a data interaction process device, which includes a sending module and an acquisition module,
- [22] The sending module is used to send the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data; and
- [23] The acquisition module is used to receive the foregoing target data from the second terminals.
- [24] To solve the problem above, the fifth technical solution adopted by the present invention is to provide a data interaction process system, which includes the first terminal, the server and the second terminals,
- [25] The first terminal is used to send the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data; and
- [26] The server is used to receive the required information and find at least two second terminals matching the foregoing characteristic information wherein the database; the server is also used to send the acquisition request of target data to the foregoing second terminals when the second terminals matching with the characteristic information are found; and
- [27] The second terminal is used to receive the acquisition request and send the target data to the first terminal; and
- [28] The first terminal is also used to receive target data.
- [29] Comparing with the current technology, the process of data interaction is that the first terminal selects the second terminal based on the characteristic information of target data, sends the acquisition request of the required information of target data to the second terminals, then the second terminals send the matched target data corresponding to the required information to the first terminal, which receives this target data. Therefore, the first terminal describes the characteristic information of target data, it enables the server to select and match the target data quickly and accurately, then the second terminal provides the required target data to the first terminal. In this way, the efficiency of target data acquisition should be improved.

### Brief Description of the Drawings

- [30] Figure 1 is a schematic flow chart of a data interaction processing method applied by the first example of the present invention;
- [31] Figure 2 is a schematic flow chart of a data interaction processing method applied by second example of the present invention;
- [32] Figure 3 is a schematic flow chart of a data interaction processing method applied by the third example of the present invention;
- [33] Figure 4 is a schematic structural diagram of a data interaction processing system applied by an example of the present invention;
- [34] Figure 5 is a schematic structural diagram of a data interaction processing device applied by the first example of the present invention;
- [35] Figure 6 is a schematic structural diagram of a data interaction processing device applied by the second example of the present invention;

#### Description of the Preferred Examples

- [36] Please refer to Figure 1, Figure 1 is a schematic flow chart of a data interaction processing method applied by the first example of the present invention; The data interaction processing method in this example includes the following steps:
- [37] Step 101: the first terminal sends the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data.
- [38] Specifically, the characteristic information of target data includes at least one of the keywords of target data, attribute, positive reviews' rate, number of hits, and the recommendation level etc. or multiple ones. This recommendation level means the number of recommendations.
- [39] Step 102: the server receives the required information and finds at least two second terminals matching the foregoing characteristic information wherein the database; and the server sends the acquisition request of target data to the matched second terminals when the second terminals matching with the characteristic information are found.
- [40] When the required information received, the server combines the required information and identifies whether the data of the combined required information matches the data wherein the database. When data wherein the database matching with the data of the combined required

information, the server responds the required information to the first terminal and finds the results wherein the database and screens the data at the highest match level matching with the required information and finds other second terminals including the same data according to the screened data at the highest match level. Thereinto, the database is configured by the server in advance.

- [41] When confirming to find out at least two second terminals, the server sends the acquisition request of target data to the matched second terminals.
- [42] Step 103: the second terminal receives the acquisition request and sends the target data to the first terminal.
- [43] Thereinto, the target data or its permissions or its ownership is sent from the first terminal when the second terminal has confirmed to respond the acquisition request.
- [44] Step 104: the first terminal receives the target data.
- [45] In the solution above, this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate. This Object Credit Certificate is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce.
- [46] Further, the acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce. For example, when the first terminal or the second terminal(or other interaction parties) has the Object Credit Certificate of commodity/service, the link address can be clicked or selected, the certificate is opened directly and showed in the webpage, the webpage is used to provide the target commodity/service information and the essential functions of electronic commerce, such as the introduction of target commodity/service, specifications, purchasing records, reviews and the jumpable order generation interface or the link button of payment interface etc. More preferably, all the functions of the required order generation are completed automatically when the link can be clicked. In this way, the order generation can be completed by one-click, even the order generation and payment can be completed by one-click.
- [47] In the Step 104, the first terminal receiving the target data includes the following steps:
- [48] Generate the transaction order according to the target data.
- [49] Give an example of data interaction method applied by the present invention. Thereinto, this first terminal is for the buyer, the second terminal is for the seller, the server is a platform operating

electronic commerce.

- [50] Specifically, buyer can send the required information of the target commodity/service to the server, thereinto, this required information comprises the characteristic information of target data; and specifically, the characteristic information of target data includes at least one of keywords of target data, attribute, positive reviews' rate, number of hits, and recommendation level etc. or multiple ones. It enables the server to find out at least two sellers who have the Object Credit Certificate according to the required information and send the required information to these sellers. When the seller receives the required information and confirms to respond, the Object Credit Certificate of commodity/service can be sent to the buyer. The buyer receives this Object Credit Certificate and completes the transaction.
- [51] As mentioned above, the Object Credit Certificate is provided by the commodity/service provider (such as manufacturer of commodity) in advance and every commodity/service has a corresponding Object Credit Certificate, which includes the information related to transaction information is from provider rather than the information of the second terminal. Therefore, when the first terminal receives this Object Credit Certificate, and the functions of electronic commerce are achieved, and the order is generated according to this Object Credit Certificate. The two parties of transaction are the first terminal and the commodity/service provider respectively. When the first terminal confirms to accept the Object Credit Certificate and generate the transaction order corresponding to the Object Credit Certificate, the payment of the commodity/service can be paid to commodity/service provider directly, the provider will make a delivery when the provider accepting this order according to the information of the first terminal. The second terminal is used to acquire the Object Credit Certificate of the commodity/service from the provider and send the Object Credit Certificate to the buyer.
- [52] Further, the target data may be the executive object configured the required functions by data provider or the read method of target data.
- [53] Give another example of data interaction method applied by the present invention. Thereinto, the first terminal is the client A, the second terminal is client B, the server is a kind of data management server. Thereinto, every client B has the stored passwords of one or multiple terminal devices. According to administrator's purview, the administrator accesses to the terminal devices using these passwords. The client A, the client B and terminal devices may be a personal computer, a tablet, a smartphone etc. which can access to the Internet and exchange data with the data management

server.

- [54] When the client A sends the required information of the target data to the data management server, this server responds and search the most matched data from the client B according to the characteristic information of target data wherein the required information. Thereinto, the server stored the information of the multiple clients B in advance. When the most matched client B found, the data management server sends the results of required information to the matched clients B, it enables the matched clients B to send the results of characteristic information to the client A, then the client A accepts the data in order to obtain the data's permission or data's ownership. Thereinto, for safety of the data information, the interactive data may be the data pack encrypted by administrators' passwords of terminal device C and the encryption keys for deciphering. When accepted by the client A, the data pack can be deciphered and unzipped using with the encryption keys and another encryption key encrypted by administrators' passwords of terminal device C, then the administrators' passwords of terminal device C can be obtained.
- [55] In the solution above, the first terminal selects the target second terminal according to the characteristic information of the target data and sends the required information of the target data to the target second terminal, it enables this target second terminal to send the matched data with the required information to the first terminal, or transfer data's permission or ownership to the first terminal. Finally, the first terminal obtains this target data. This is the processing of data interaction. Therefore, the first terminal describes the characteristic information of target data, it enables the server to select and match the target data quickly and accurately, the second terminal provides the required target data to the first terminal. In this way, on one hand, improve the efficiency of the first terminal, on the other hand, guarantee the transmission safety when the second terminal sending the target data.
- [56] Please refer to Figure 2, Figure 2 is a schematic flow chart of a data interaction processing method applied by second example of the present invention; The data interaction processing method in this example includes the following steps:
- [57] Step 201: the first terminal sends the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data.
- [58] Specifically, the characteristic information of target data includes at least one of keywords of target data, attribute, positive reviews' rate, number of hits, and recommendation level etc. or multiple

ones. This recommendation level means the number of recommendations.

- [59] When the required information received, the server combines the required information and identifies whether the data of the combined required information matches the data wherein the database. When data wherein the database matching with the data of the combined required information, the server responds the required information to the first terminal and finds the results wherein the database and screens the data at the highest match level matching with the required information and finds other second terminals including the same data according to the screened data at the highest match level.
- [60] When the server confirming to find at least two second terminals, the server sends the acquisition request of target data to the matched second terminals.
- [61] Step 202: receive the target data sent by the second terminal.
- [62] In the solution above, this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate. This Object Credit Certificate is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce.
- [63] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce. For example, when the first terminal or the second terminal(or other interaction parties) has the Object Credit Certificate of commodity/service, the link address can be clicked or selected, the certificate is opened directly and showed in the webpage, the webpage is used to provide the target commodity/service information and the essential functions of electronic commerce, such as the introduction of target commodity/service, specifications, purchasing records, reviews and the jumpable order generation interface or the link button of payment interface etc. More preferably, all the functions of the required order generation are completed automatically when the link can be clicked. In this way, the order generation can be completed by one-click, even the order generation and payment can be completed by one-click.
- [64] In the step 202, receiving the foregoing target data sent by the second terminal includes the following steps:
- [65] Generate the order according to the target data.
- [66] As mentioned above, the Object Credit Certificate is provided by the commodity/service

provider (such as manufacturer of commodity) in advance and every commodity/service has a corresponding Object Credit Certificate, which includes the information related to transaction information is from provider rather than the information of the second terminal. Therefore, when the first terminal receives this Object Credit Certificate, and the functions of electronic commerce are achieved, and the order is generated according to this Object Credit Certificate. The two parties of transaction are the first terminal and the commodity/service provider respectively. When the first terminal confirms to accept the Object Credit Certificate and generate the transaction order corresponding to the Object Credit Certificate, the payment of the commodity/service can be paid to commodity/service provider directly, the provider will make a delivery when the provider accepting this order according to the information of the first terminal. The second terminal is used to acquire the Object Credit Certificate of the commodity/service from the provider and send the Object Credit Certificate to the buyer.

[67] Further, the target data may be the executive object configured the required functions by data provider or the read method of target data.

[68] In the solution above, the first terminal selects the target second terminal according to the characteristic information of the target data and sends the required information of the target data to the target second terminal, it enables this target second terminal to send the matched data with the required information to the first terminal, or transfer data's permission or ownership to the first terminal. Finally, the first terminal obtains this target data. This is the processing of data interaction. Therefore, the first terminal describes the characteristic information of target data, it enables the server to select and match the target data quickly and accurately, the second terminal provides the required target data to the first terminal. In this way, on one hand, improve the efficiency of the first terminal, on the other hand, guarantee the transmission safety when the second terminal sending the target data.

[69] Please refer to Figure 3, Figure 3 is a schematic flow chart of a data interaction processing method applied by the third example of the present invention; The data interaction processing method in this example includes the following steps:

[70] Step 301: the server receives the acquisition request of the required information of target data sent by the first terminal; thereinto, the required information comprises the characteristic information of target data.

[71] When the first terminal required the target data, the characteristic information of target data should

be included, for example, at least one of keywords of target data, attribute, positive reviews' rate, number of hits, and recommendation level etc. or multiple ones. This recommendation level means the number of recommendations. And the acquisition request of the required information of target data is sent to the server.

[72] The server receives the required information.

[73] Step 302: find at least two second terminals matching the foregoing characteristic information wherein the database.

[74] Thereinto, the database is configured by the server in advance. When the required information received, the server combines the required information and identifies whether the data of the combined required information matches the data wherein the database. When data wherein the database matching with the data of the combined required information, the server responds the required information to the first terminal and finds the results wherein the database and screens the data at the highest match level matching with the required information and finds other second terminals including the same data according to the screened data at the highest match level.

[75] Step 303: when confirming to find at least two second terminals, the server sends the acquisition request of target data to the second terminals.

[76] The server confirms to find at least two second terminals and sends the acquisition request of target data to the second terminals.

[77] When confirming to respond the acquisition request sent by the server, the second terminal sends the matched data with the required information to the first terminal, or transfers data's permission or ownership to the first terminal.

[78] Correspondingly, the first terminal acquires the target data and generates the transaction order according to target data.

[79] In the solution above, this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate. This Object Credit Certificate is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce.

[80] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce. For example, when the first terminal or the second terminal(or other interaction parties) has the Object Credit

Certificate of commodity/service, the link address can be clicked or selected, the certificate is opened directly and showed in the webpage, the webpage is used to provide the target commodity/service information and the essential functions of electronic commerce, such as the introduction of target commodity/service, specifications, purchasing records, reviews and the jumpable order generation interface or the link button of payment interface etc. More preferably, all the functions of the required order generation are completed automatically when the link can be clicked. In this way, the order generation can be completed by one-click, even the order generation and payment can be completed by one-click.

- [81] Further, the second terminal sends the Object Credit Certificate including the identification information of this second terminal to the first terminal. When the first terminal acquires this Object Credit Certificate's ownership, the identification of the second terminal can be replaced to that of the first terminal.
- [82] As mentioned above, the Object Credit Certificate is provided by the commodity/service provider (such as manufacturer of commodity) in advance and every commodity/service has a corresponding Object Credit Certificate, which includes the information related to transaction information is from provider rather than the information of the second terminal. Therefore, when the first terminal receives this Object Credit Certificate, and the functions of electronic commerce are achieved, and the order is generated according to this Object Credit Certificate. The two parties of transaction are the first terminal and the commodity/service provider respectively. When the first terminal confirms to accept the Object Credit Certificate and generate the transaction order corresponding to the Object Credit Certificate, the payment of the commodity/service can be paid to commodity/service provider directly, the provider will make a delivery when the provider accepting this order according to the information of the first terminal. The second terminal is used to acquire the Object Credit Certificate of the commodity/service from the provider and send the Object Credit Certificate to the buyer.
- [83] Further, the target data may be the executive object configured the required functions by data provider or the read method of target data.
- [84] Comparing with the current technology, in the solution above, the first terminal selects the target second terminal according to the characteristic information of the target data and sends the required information of the target data to the target second terminal, it enables this target second terminal to send the matched data with the required information to the first terminal, or transfer data's

permission or ownership to the first terminal. Finally, the first terminal obtains this target data. This is the processing of data interaction. Therefore, the first terminal describes the characteristic information of target data, it enables the server to select and match the target data quickly and accurately, the second terminal provides the required target data to the first terminal. In this way, on one hand, improve the efficiency of the first terminal, on the other hand, guarantee the transmission safety when the second terminal sending the target data.

- [85] Please refer to Figure 4, Figure 4 is a schematic structural diagram of a data interaction processing system applied by an example of the present invention;
- [86] The data interaction processing system in this example includes the first terminal 401, the server 402 and the second terminal 403.
- [87] The first terminal 401 is used to send the acquisition request of the required information of target data to the server 402, thereinto, the required information comprises the characteristic information of target data.
- [88] Specifically, the characteristic information of target data includes at least one of keywords of target data, attribute, positive reviews' rate, number of hits, and recommendation level etc. or multiple ones. This recommendation level means the number of recommendations.
- [89] The server 402 is used to receive the required information and find at least two second terminals 403 matching the foregoing characteristic information wherein the database; the server 402 is also used to send the acquisition request of target data to the foregoing second terminals 403 when the second terminals 403 matching with the characteristic information are found.
- [90] When the required information received, the server 402 combines the required information and identifies whether the data of the combined required information matches the data wherein the database. When data wherein the database matching with the data of the combined required information, the server 402 responds the required information to the first terminal 401 and finds the results wherein the database and screens the data at the highest match level matching with the required information and finds other second terminals 403 including the same data according to the screened data at the highest match level. Thereinto, the database is configured by the server 402 in advance.
- [91] When confirming to find at least two second terminals 403, the server 402 sends the acquisition request of target data to the second terminals 403.
- [92] The second terminal 403 is used to receive the acquisition request and send foregoing target data to

the first terminal 401.

[93] Thereinto, foregoing target data or its permissions or its ownership is sent from the first terminal 401 when the second terminal 403 has confirmed to respond the acquisition request.

[94] The first terminal 401 is used to receive foregoing target data.

[95] In the solution above, this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate. This Object Credit Certificate is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce.

[96] In the solution above, the first terminal selects the target second terminal according to the characteristic information of the target data and sends the required information of the target data to the target second terminal, it enables this target second terminal to send the matched data with the required information to the first terminal, or transfer data's permission or ownership to the first terminal. Finally, the first terminal obtains this target data. This is the processing of data interaction. Therefore, the first terminal describes the characteristic information of target data, it enables the server to select and match the target data quickly and accurately, the second terminal provides the required target data to the first terminal. In this way, on one hand, improve the efficiency of the first terminal, on the other hand, guarantee the transmission safety when the second terminal sending the target data.

[97] Please refer to Figure 5, Figure 5 is a schematic structural diagram of a data interaction processing device applied by the first example of the present invention.

[98] The data interaction processing device in this example includes the sending module 501 and acquisition module 502.

[99] The sending module 501 is used to send the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data.

[100] Thereinto, the characteristic information of target data includes at least one of keywords of target data, attribute, positive reviews' rate, number of hits, and recommendation level etc. or multiple ones. This recommendation level means the number of recommendations.

[101] When the sending module 501 received the required information, the server combines the required information and identifies whether the data of the combined required information matches with the data wherein the database. When data wherein the database matching with the data of the combined

required information, the server responds the required information to the first terminal and finds the results wherein the database and screens the data at the highest match level matching with the required information and finds other second terminals including the same data according to the screened data at the highest match level.

[102] In the solution above, the database is configured by the server in advance.

[103] When confirming to find at least two second terminals, the server sends the acquisition request of target data to the second terminals.

[104] The acquisition module 502 is used to receive the foregoing target data sent by the second terminal.

[105] Thereinto, foregoing target data or its permissions or its ownership is sent or transferred from the first terminal when the second terminal has confirmed to respond the acquisition request.

[106] In the solution above, this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate. This Object Credit Certificate is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce.

[107] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce. For example, when the first terminal or the second terminal(or other interaction parties) has the Object Credit Certificate of commodity/service, the link address can be clicked or selected, the certificate is opened directly and showed in the webpage, the webpage is used to provide the target commodity/service information and the essential functions of electronic commerce, such as the introduction of target commodity/service, specifications, purchasing records, reviews and the jumpable order generation interface or the link button of payment interface etc. More preferably, all the functions of the required order generation are completed automatically when the link can be clicked. In this way, the order generation can be completed by one-click, even the order generation and payment can be completed by one-click.

[108] In the solution above, the acquisition module 502 is used to generate the transaction order according to the target data.

[109] Further, the second terminal sends the Object Credit Certificate including the identification information of this second terminal to the first terminal. When the acquisition module 302 acquires this Object Credit Certificate's ownership, the identification of the second terminal can

be replaced to that of the first terminal.

[110] As mentioned above, the Object Credit Certificate is provided by the commodity/service provider (such as manufacturer of commodity) in advance and every commodity/service has a corresponding Object Credit Certificate, which includes the information related to transaction information is from provider rather than the information of the second terminal. Therefore, when the first terminal receives this Object Credit Certificate, and the functions of electronic commerce are achieved, and the order is generated according to this Object Credit Certificate. The two parties of transaction are the first terminal and the commodity/service provider respectively. When the acquisition module 302 confirms to accept the Object Credit Certificate and generate the transaction order corresponding to the Object Credit Certificate, the payment of the commodity/service can be paid to commodity/service provider directly, the provider will make a delivery when the provider accepting this order according to the information of the first terminal. The second terminal is used to acquire the Object Credit Certificate of the commodity/service from the provider and send the Object Credit Certificate to the buyer.

[111] Further, the target data may be the executive object configured the required functions by data provider or the read method of target data.

[112] In the solution above, the sending module selects the target second terminal according to the characteristic information of the target data, and sends the required information of the target data to the target second terminal, it enables this target second terminal to send the matched data with the required information to the first terminal, or transfers data's permission or ownership obtained by the acquisition module to the first terminal. This is the processing of data exchange. Therefore, the device of data exchange processing describes the characteristic information of target data which enables the server to select and match the target data quickly and accurately, the second terminal provides the required target data to the first terminal. In this way, on one hand, improve the efficiency of the first terminal, on the other hand, guarantee the transmission safety when the second terminal is sending the target data.

[113] Please refer to Figure 6, Figure 6 is a schematic structural diagram of a data interaction processing device applied by the second example of the present invention; The device of data exchange processing includes the receiving module 601, the matching module 602 and the sending module 603.

[114] The receiving module 601 is used to receive the acquisition request of the required information

of target data sent by the first terminal, thereinto, the required information comprises the characteristic information of target data.

[115] When the first terminal required the target data, the characteristic information of target data should be included, for example, at least one of keywords of target data, attribute, positive reviews' rate, number of hits, and recommendation level etc. or multiple ones. This recommendation level means the number of recommendations. Thereinto, the device of data exchange processing is the server.

[116] Correspondingly, the receiving module 601 is used to receive the required information.

[117] The matching module 602 is used to find at least two second terminals matching the foregoing characteristic information wherein the database; Thereinto, the database is configured by the server in advance.

[118] Thereinto, the database is set by the device of data exchange processing in advance. When the matching module 602 received the required information from the receiving module 601, the matching module 602 combines this required information, identifies whether the data of the combined required information matches the data wherein the database. When data wherein the database matching with the data of the combined required information, the server responds the required information to the first terminal and finds the results wherein the database and screens the data at the highest match level matching with the required information and finds other second terminals including the same data according to the screened data at the highest match level.

[119] The sending module 603 is used to send the acquisition request of target data sent by the second terminal when the matching module 602 confirming to find the second terminals with the matched characteristic information, in order to make the second terminals responds the acquisition request and sends the target data to the first terminal or transfers data's permission or ownership to the first terminal.

[120] The sending module 603 is used to send the acquisition request of the target data sent by the second terminal when confirming to find at least two second terminals wherein the matching module 602.

[121] After confirming to respond the acquisition request sent by the server, the second terminal sends target data or transfers data's permission or ownership to the first terminal.

[122] Correspondingly, foregoing target data or its permissions or its ownership is sent from the first terminal. Specifically, acquire the ownership of this Object Credit Certificate, or achieves the electronic commerce functions using with this Object Credit Certificate to obtain the commodity/service.

- [123] In the solution above, this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate. This Object Credit Certificate is a kind of web-based electronic certificate integrated the target commodity/service information from the target commodity/service provider and the essential functions of electronic commerce.
- [124] Further, acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate, an Object Credit Certificate is used to provide the target commodity/service information and the essential functions of electronic commerce. For example, when the first terminal or the second terminal(or other interaction parties) has the Object Credit Certificate of commodity/service, the link address can be clicked or selected, the certificate is opened directly and showed in the webpage, the webpage is used to provide the target commodity/service information and the essential functions of electronic commerce, such as the introduction of target commodity/service, specifications, purchasing records, reviews and the jumpable order generation interface or the link button of payment interface etc. More preferably, all the functions of the required order generation are completed automatically when the link can be clicked. In this way, the order generation can be completed by one-click, even the order generation and payment can be completed by one-click.
- [125] Further, the second terminal sends the Object Credit Certificate including the identification information of this second terminal to the first terminal. When the first terminal acquires this Object Credit Certificate's ownership, the identification of the second terminal can be replaced to that of the first terminal.
- [126] As mentioned above, the Object Credit Certificate is provided by the commodity/service provider (such as manufacturer of commodity) in advance and every commodity/service has a corresponding Object Credit Certificate, which includes the information related to transaction information is from provider rather than the information of the second terminal. Therefore, when the first terminal receives this Object Credit Certificate, and the functions of electronic commerce are achieved, and the order is generated according to this Object Credit Certificate. The two parties of transaction are the first terminal and the commodity/service provider respectively. When the first terminal confirms to accept the Object Credit Certificate and generate the transaction order corresponding to the Object Credit Certificate, the payment of the commodity/service can be paid to commodity/service provider directly, the provider will make a delivery when the provider accepting this order according to the information of the first

terminal. The second terminal is used to acquire the Object Credit Certificate of the commodity/service from the provider and send the Object Credit Certificate to the buyer.

[127] Further, the target data may be the executive object configured the required functions by data provider or the read method of target data.

[128] Comparing with the current technology, in the solution above, the server selects the target second terminal according to the characteristic information of the target data provided by the first terminal and sends the required information of the target data acquired by the first terminal to the target second terminal. When this target second terminal sending the matched data with the required information to the first terminal or transferring data's permission or ownership to the first terminal, the first terminal obtains this target data. This is the processing of data exchange. Therefore, the first terminal describes the characteristic information of target data in order to make the server selects and matches the target data quickly and accurately, the second terminal provides the required target data to the first terminal. In this way, on one hand, improve the efficiency of the first terminal, on the other hand, guarantee the transmission safety when the second terminal is sending the target data.

[129] The foregoing descriptions are merely preferred examples of the present invention but not limited to the present invention. Any modification, equivalent replacement, and improvement made within the spirit and principle of the present invention shall be included in the protection of the present invention.

## The Claims

- [CLAIM 1] A method of data interaction processing, characterized in the method, comprises:  
the server receives the acquisition request of the required information of target data from the first terminal; thereinto, the required information comprises the characteristic information of target data; and  
find at least two second terminals matching the characteristic information wherein the database; and  
send the acquisition request of target data to the matched second terminals when the second terminals matching with the characteristic information are found.
- [CLAIM 2] The method according to claim 1, characterized in the method, wherein this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate.
- [CLAIM 3] The method according to claim 2, characterized in the method, wherein the characteristic information of target data includes at least one of the following information such as the field, the positive reviews' rate, the volume of the sales, and the recommendation level.
- [CLAIM 4] The method according to claim 2, characterized in the method, wherein the acquisition method information of an Object Credit Certificate is a link address of an Object Credit Certificate.
- [CLAIM 5] The method according to claim 1, characterized in the method, where after the step of receiving the target data sent by the second terminal, the step includes:  
generate the transaction order according to the target data.
- [CLAIM 6] A method of data interaction processing, characterized in the method, comprises:  
the first terminal sends the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data; and

receive the target data sent by the second terminal.

[CLAIM 7] The method according to claim 5, characterized in the method, wherein this target data is an Object Credit Certificate or an acquisition method information of an Object Credit Certificate.

[CLAIM 8] A method of data interaction processing, characterized in the method, comprises:  
the first terminal sends the acquisition request of the required information of target data;  
thereinto, the required information comprises the characteristic information of target data;  
and  
the server receives the required information and finds at least two second terminals matching the characteristic information wherein the database and sends the acquisition request of target data to the matched second terminals when the second terminals matching with the characteristic information are found; and  
the second terminal receives the acquisition request, and sends the target data to the first terminal; and  
the first terminal receives the target data.

[CLAIM 9] A device of data interaction processing, characterized in the device, comprises a receiving module, a matching module and a sending module:  
the receiving module is used to receive target data's required information from the first terminal; thereinto, the required information comprises the characteristic information of target data; and  
the matching module is used to find at least two second terminals matching the characteristic information wherein the database; and  
the sending module is used to send the acquisition request of target data to the second terminals when the second terminals matching with the characteristic information are found.

[CLAIM 10] A device of data interaction processing, characterized in the device, comprises a sending module and an acquisition module,

the sending module is used to send the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data; and  
the acquisition module is used to receive the foregoing target data from the second terminals.

[CLAIM 11] A system of data interaction processing, characterized in the system, comprises the first terminal, the server and the second terminal;  
the first terminal is used to send the acquisition request of the required information of target data to the server, thereinto, the required information comprises the characteristic information of target data; and  
the server is used to receive the required information and find at least two second terminals matching the foregoing characteristic information wherein the database; the server is also used to send the acquisition request of target data to the foregoing second terminals when the second terminals matching with the characteristic information are found; and  
the second terminal is used to receive the acquisition request and send the target data to the first terminal; and  
the first terminal is also used to receive target data.

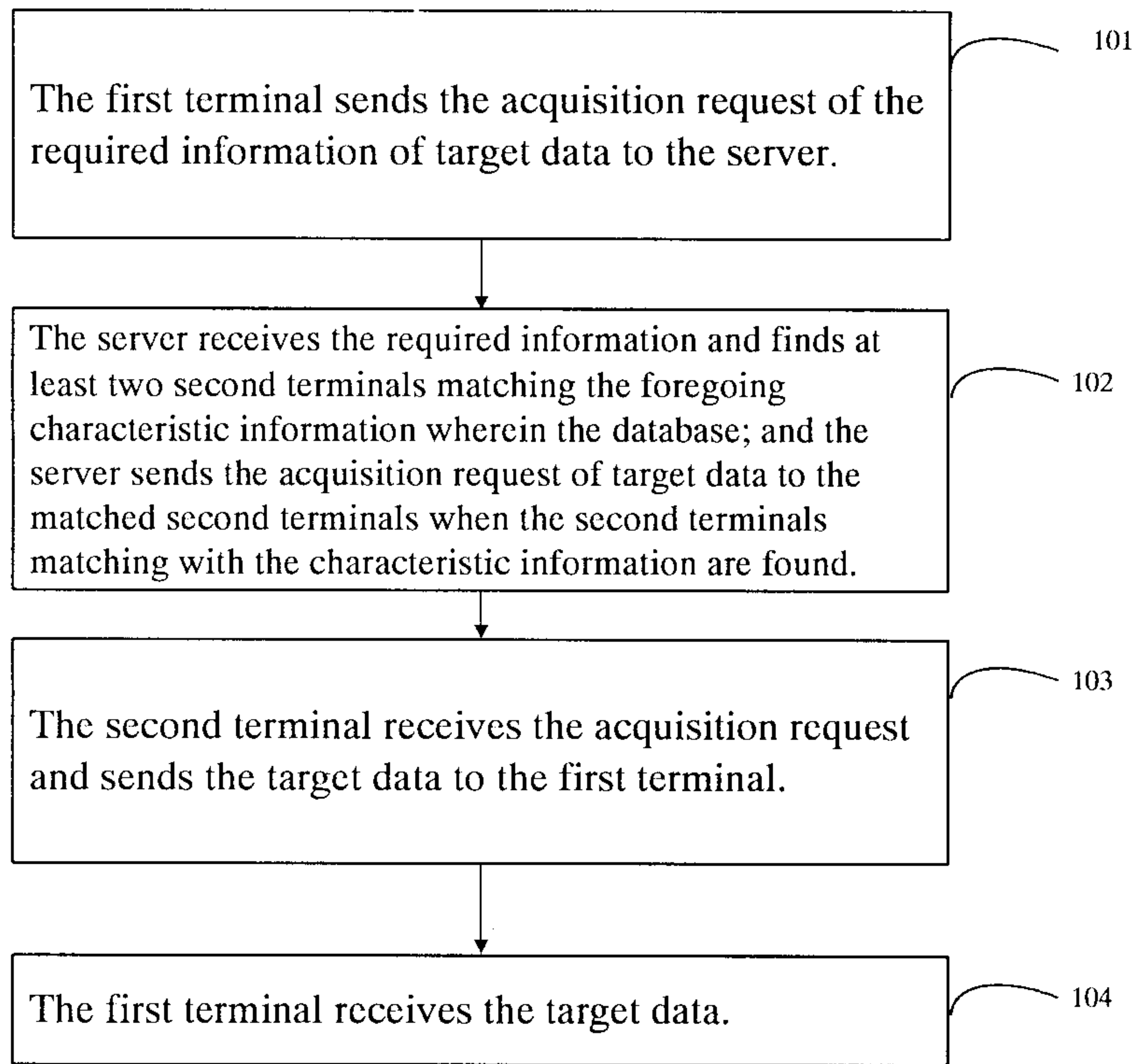


Figure 1

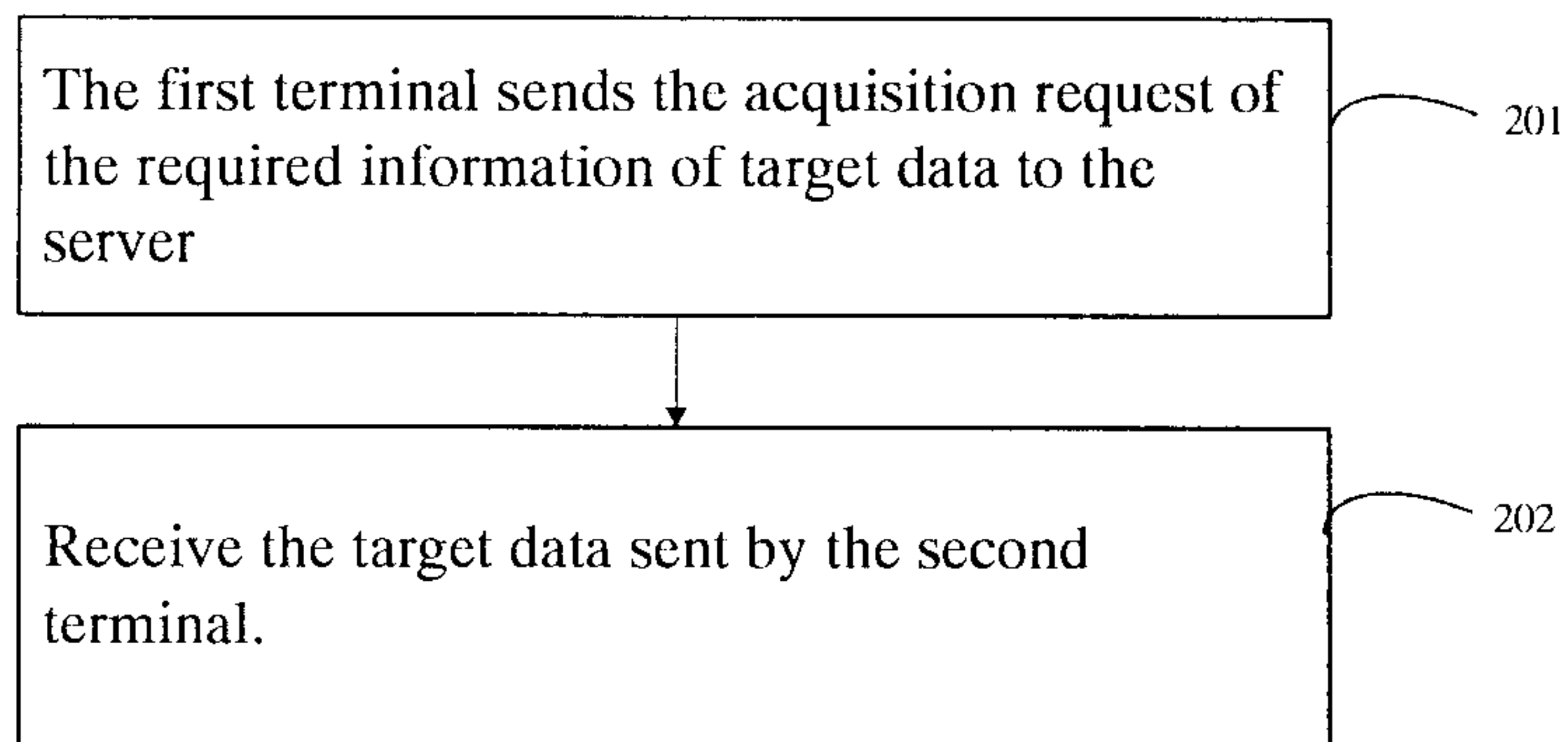


Figure 2

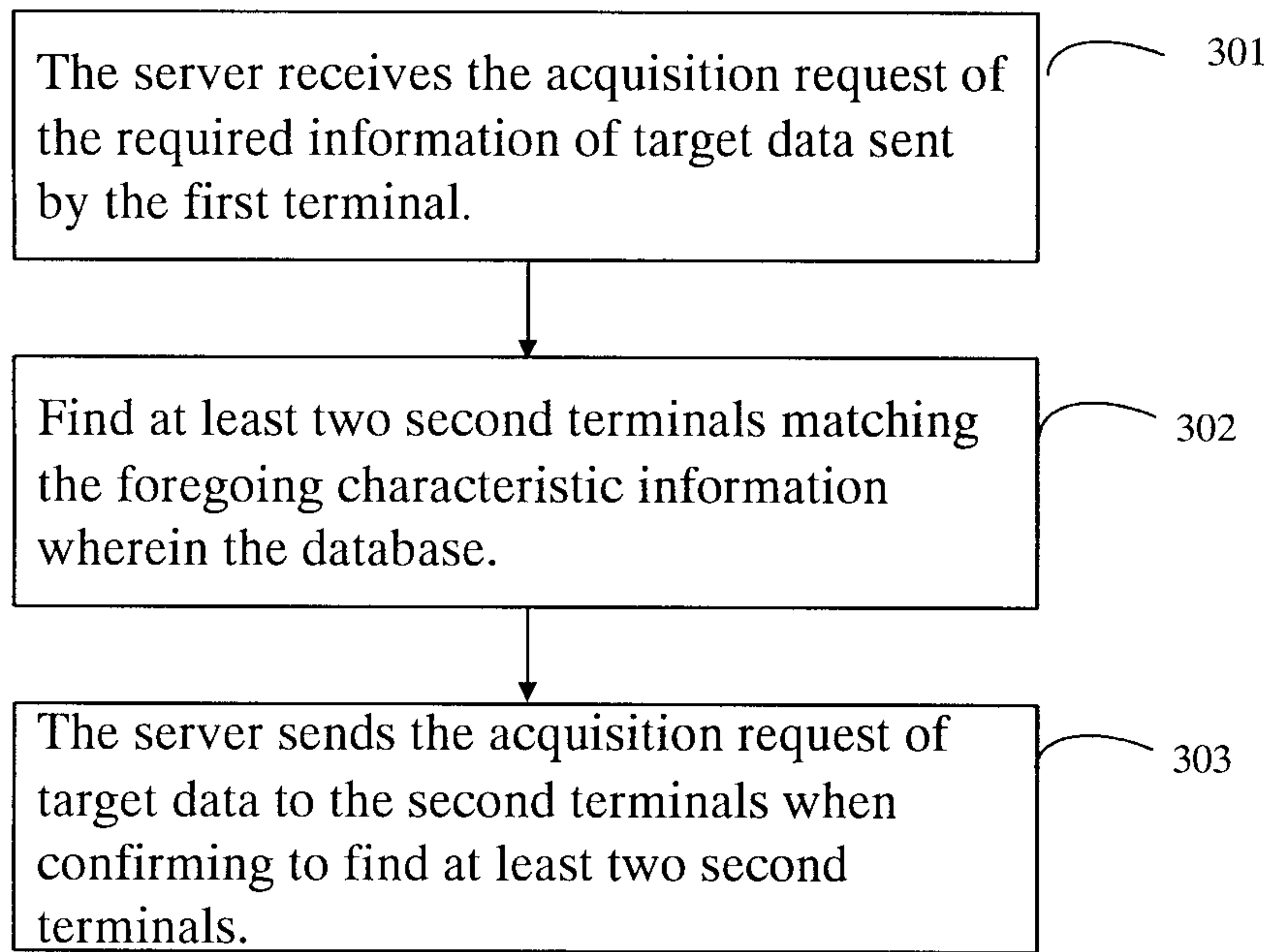


Figure 3

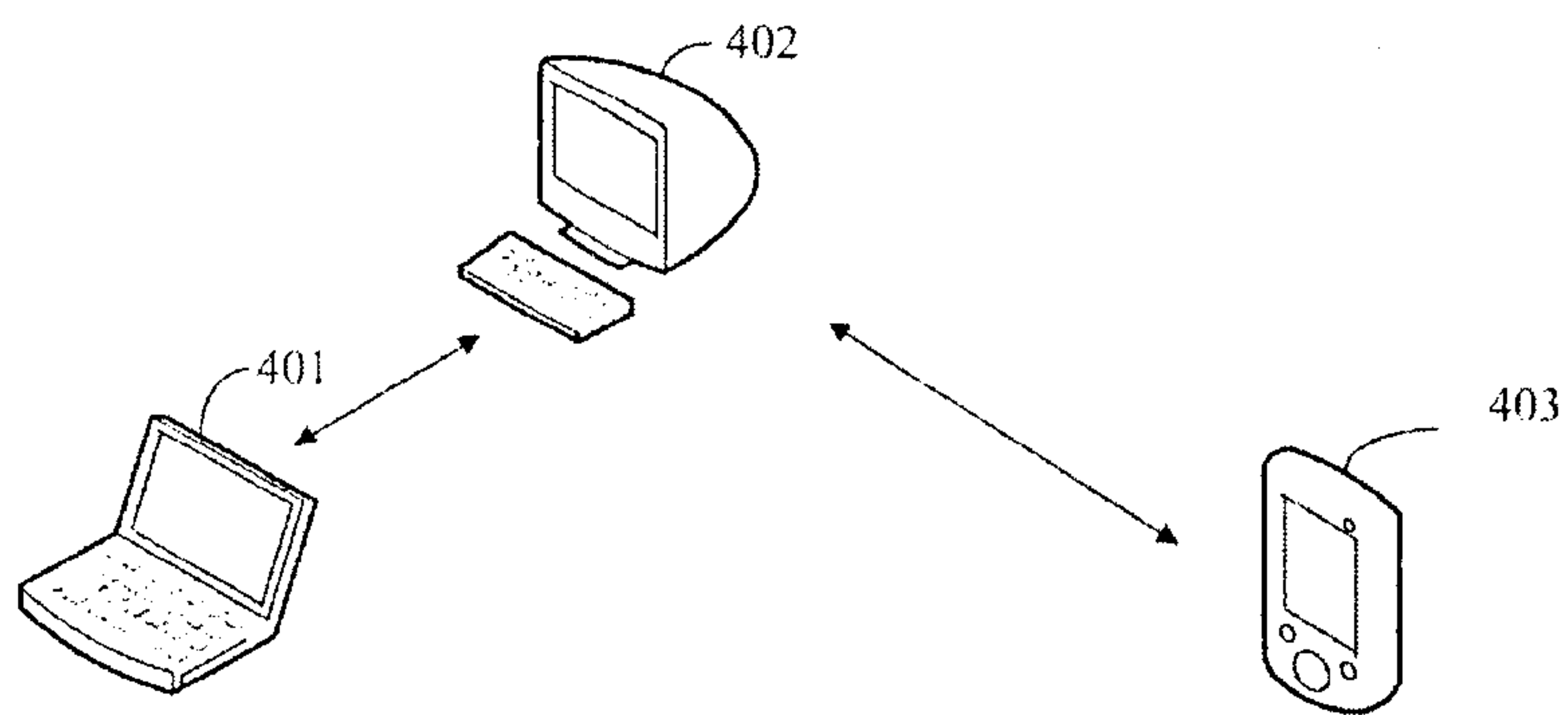


Figure 4

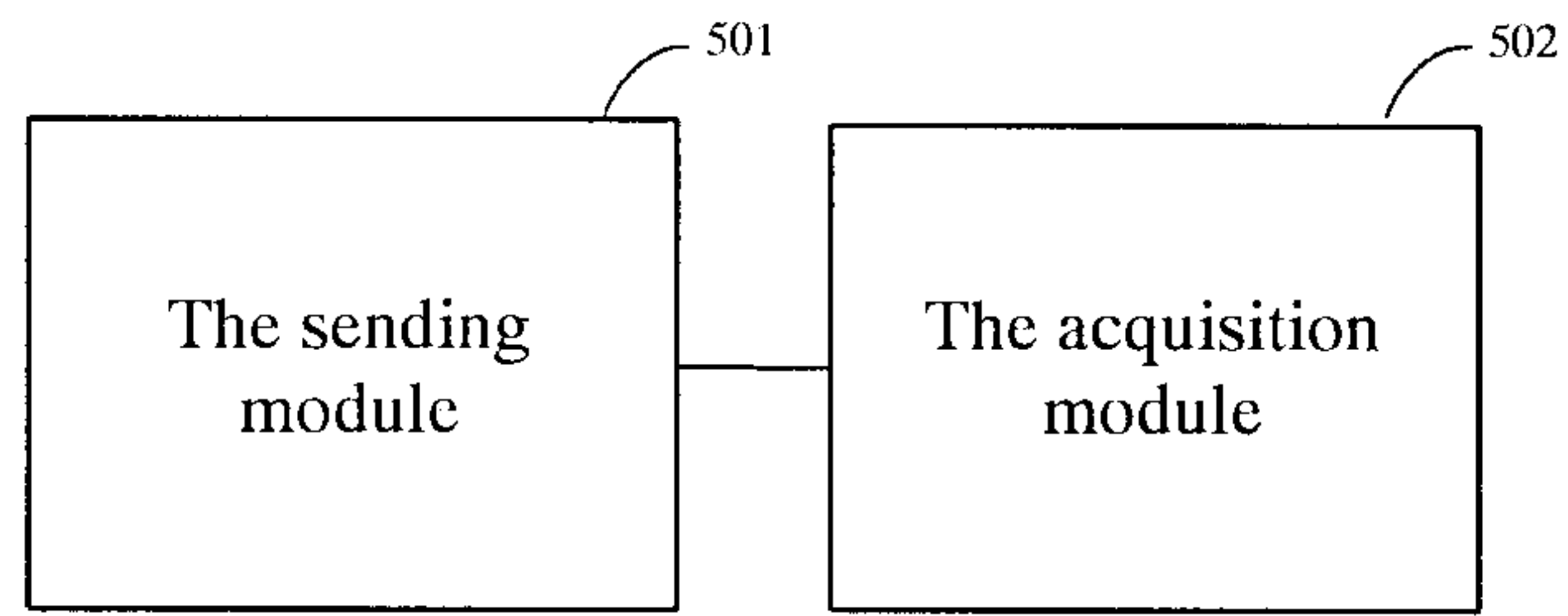


Figure 5

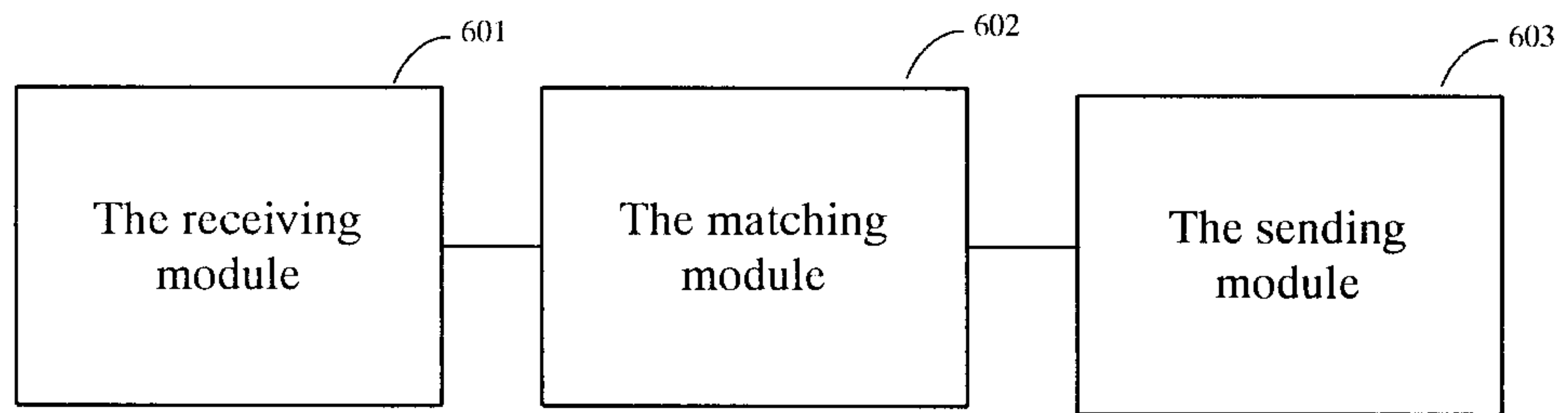


Figure 6

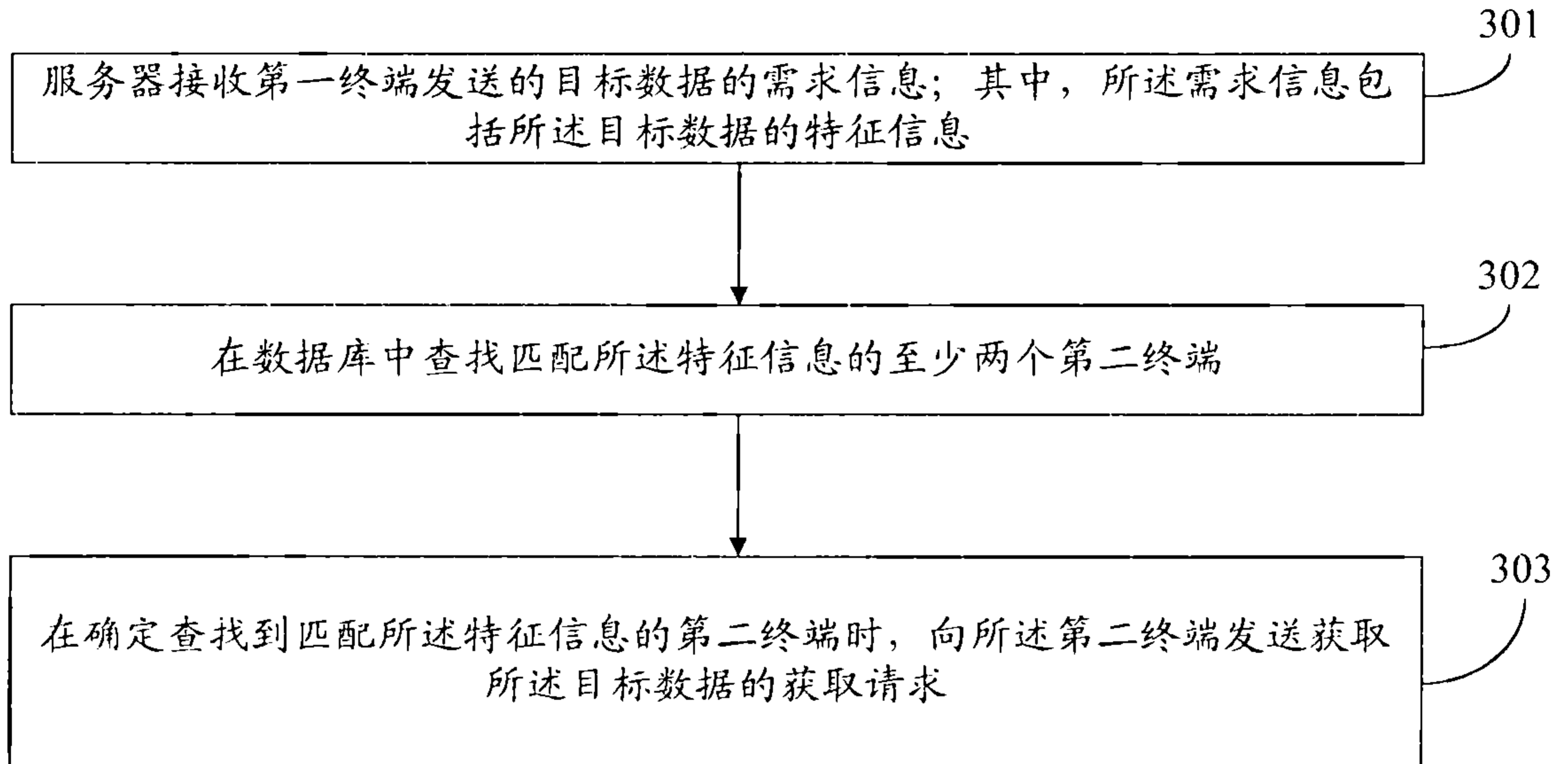


图 3

- 301 SERVER RECEIVES TARGET DATA REQUIREMENT INFORMATION TRANSMITTED BY FIRST TERMINAL, REQUIREMENT INFORMATION INCLUDING CHARACTERISTICS INFORMATION OF TARGET DATA
- 302 SEARCHING IN DATABASE FOR AT LEAST TWO SECOND TERMINALS MATCHING CHARACTERISTICS INFORMATION
- 303 AFTER DETERMINING THAT SECOND TERMINAL MATCHING CHARACTERISTICS INFORMATION IS FOUND, TRANSMITTING TO SECOND TERMINAL ACQUISITION REQUEST FOR ACQUIRING TARGET DATA