CLAIMS

1. A gate apparatus comprising:

an acquisition unit that acquires biological information about an examination target user;

a matching request unit that requests a server apparatus that stores biological information about users and MRZ (Machine Readable Zone) information written in machine readable zones in passports issued to the users in association with each other to perform matching on the biological information about the examination target user; and

a control unit that controls a gate so that the examination target user can pass through the gate if information is successfully read out from an IC (Integrated Circuit) chip in a passport issued to the examination target user by using MRZ information determined by the matching.

2. The gate apparatus according to claim 1, wherein, if the matching between the biological information acquired from the examination target user and biological information read out from the IC chip succeeds, the control unit controls the gate so that the examination target user can pass through the gate.

3. The gate apparatus according to claim 1 or 2, comprising a reader that can read out information from a passport, wherein the reader reads out information from the IC chip.

4. The gate apparatus according to any one of claims 1 to 3, wherein the biological information is information about faces of people.

5. The gate apparatus according to claim 4, wherein the matching request unit transmits a feature vector generated from a face image of the examination target user to the server apparatus as the biological information about the examination target user.

6. The gate apparatus according to any one of claims 1 to 5, wherein if information cannot be read out from the IC chip in the passport by using the received MRZ information, the examination target user is requested to open and place his or her passport on the reader.

7. A server apparatus comprising:

a storage unit that stores, as gate user information, biological information about users and MRZ (Machine Readable Zone) information

written in machine readable zones in passports issued to the users in association with each other;

a matching unit that searches the gate user information by using biological information about an examination target user, the biological information having been received from a gate apparatus that controls a gate based on an emigration and immigration examination result of a user, and determines the MRZ information corresponding to the received biological information; and

a communication control unit that transmits the determined MRZ information to the gate apparatus.

8. The server apparatus according to claim 7,

wherein the storage unit stores the gate user information about a plurality of users, and

wherein the matching unit determines the MRZ information corresponding to the received biological information by performing 1-to-N matching (N is a positive integer) in which the biological information received from the gate apparatus is set as the matching target.

9. The server apparatus according to claim 7 or 8, wherein the biological information is information about faces of people.

10. The server apparatus according to claim 9, wherein the matching unit acquires a feature vector calculated from a face image from the gate apparatus, calculates a distance between a feature vector stored as an individual item of gate user information and the feature vector acquired from the gate apparatus, and determines the MRZ information corresponding to the received biological information based on the calculated distance.

11. An emigration and immigration examination system comprising:

a server apparatus that stores, as gate user information, biological information about users and MRZ (Machine Readable Zone) information written in machine readable zones in passports issued to the users in association with each other; and

a gate apparatus that controls a gate based on an emigration and

immigration examination result of a user,

wherein the gate apparatus acquires biological information about an examination target user and transmits the biological information about the examination target user to the server apparatus,

wherein the server apparatus searches the gate user information to determine the MRZ information corresponding to the received biological information and transmits the determined MRZ information to the gate apparatus, and

wherein, the gate apparatus controls the gate so that the examination target user can pass through the gate if information is successfully read out from an IC (Integrated Circuit) chip in a passport issued to the examination target user by using the received MRZ information.

12. A control method of a gate apparatus, comprising:

acquiring biological information about an examination target user;

requesting a server apparatus that stores biological information about users and MRZ (Machine Readable Zone) information written in machine readable zones in passports issued to the users in association with each other to perform matching on the biological information about the examination target user; and

controlling a gate so that the examination target user can pass through the gate if information is successfully read out from an IC (Integrated Circuit) chip in a passport issued to the examination target user by using MRZ information determined by the matching.

13. A control method of a server apparatus including a storage unit that stores, as gate user information, biological information about users and MRZ (Machine Readable Zone) information written in machine readable zones in passports issued to the users in association with each other, the control method of the server apparatus comprising:

searching the gate user information by using biological information about an examination target user, the biological information having been received from a gate apparatus that controls a gate based on an emigration and immigration examination result of a user, and to

determine the MRZ information corresponding to the received biological information; and

transmitting the determined MRZ information to the gate apparatus.

14. A program that causes a computer mounted on a gate apparatus to perform processing for:

acquiring biological information about an examination target user;

requesting a server apparatus that stores biological information about users and MRZ (Machine Readable Zone) information written in machine readable zones in passports issued to the users in association with each other to perform matching on the biological information about the examination target user; and

controlling a gate so that the examination target user can pass through the gate if information is successfully read out from an IC (Integrated Circuit) chip in a passport issued to the examination target user by using MRZ information determined by the matching.

15 A program that causes a computer mounted on a server apparatus including a storage unit that stores, as gate user information, biological information about users and MRZ (Machine Readable Zone) information written in machine readable zones in passports issued to the users in association with each other, to perform processing for:

searching the gate user information by using biological information about an examination target user, the biological information having been received from a gate apparatus that controls a gate based on an emigration and immigration examination result of a user, and to determine the MRZ information corresponding to the received biological information; and

transmitting the determined MRZ information to the gate apparatus.