[CLAIMS]

[Claim 1]

A violator identification device in a facility that is provided with a toll collection system collecting a toll for a service in which a vehicle is used, the violator identification device configured to identify a violator associated with travel of the vehicle and configured to provide information of the violator to a regulation organization carrying out a hearing, examination, and a penalty to the violator, the violator identification device comprising:

a vehicle identification information acquiring unit configured to acquire vehicle identification information which is able to identify the vehicle in which the violator rides from an image captured by a roadside camera that is provided in the toll collection system;

a violation detecting unit configured to detect violation of the vehicle when at least one measured values of speed, weight, height, and length of the vehicle measured by a sensor provided in the toll collection system is larger than a limit value;

a personal information acquiring unit configured to acquire personal information correlated with the vehicle identification information from a database which is provided in the toll collection system in which the personal information of a user of the service is registered; and

an output unit configured to output violation information to a terminal device which is provided in the regulation organization, the violation information in which the image, the personal information, and violation details including the measurement results in which the violation is detected are correlated.

[Claim 2]

The violator identification device according to claim 1, wherein the personal information acquiring unit is configured to request the database to provide the personal information correlated with the vehicle identification information.

[Claim 3]

The violator identification device according to claim 1 or 2, wherein the image includes a face image of the violator.

[Claim 4]

A violator identification system that includes a toll collection system collecting a toll for a service in which a vehicle is used and a violator identification device that is configured to identify a violator associated with travel of a vehicle in a facility that is provided with the toll collection system and configured to provide information of the violator to a regulation organization carrying out a hearing, examination, and a penalty to the violator, the violator identification system comprising:

a roadside camera configured to capture an image of the vehicle that arrives in the facility, and;

a database in which a personal information of a user of the facility is registered,

wherein the violator identification includes:

a vehicle identification information acquiring unit configured to acquire vehicle identification information which is able to identify the vehicle in which the violator rides from the image captured by the roadside camera;

a violation detecting unit configured to detect violation of the vehicle when at least one measured values of speed, weight, height, and length of the vehicle measured by a sensor provided in the toll collection system is larger than a limit value;

a personal information acquiring unit configured to acquire personal information correlated with the vehicle identification information from a database which is provided in a system that is configured to provide services for vehicles; and

an output unit configured to output violation information to a terminal device which is provided in the regulation organization, the violation information in which the image, the personal information, and violation details including the measurement results in which the violation is detected are correlated.

[Claim 5]

A violator identification method of identifying a violator associated with travel of a vehicle by means of a toll collection system collecting a toll for a service in which a vehicle is used and a violator identification device that is configured to identify a violator associated with travel of a vehicle in a facility that is provided with the toll collection system and configured to provide information of the violator to a regulation organization carrying out a hearing, examination, and a penalty to the violator, the violator identification method comprising:

a vehicle identification information acquiring step of acquiring vehicle identification information by the violator identification device, the vehicle identification information that is able to identify the vehicle in which the violator rides from an image captured by a roadside camera that is provided in the toll collecting system;

a violation detecting step of detecting violation of the vehicle when at least one measured values of speed, weight, height, and length of the vehicle measured by a sensor provided in the toll collection system is larger than a limit value;

a personal information acquiring step of acquiring personal information by the violator identification device, the personal information that is correlated with the vehicle identification information from a database which is provided in the toll collecting system, the database in which a personal information of a user of the facility is registered; and

an output step of outputting violation information to a terminal device which is provided in the regulation organization, the violation information in which the image, the personal information, and violation details including the measurement results in which the violation is detected are correlated.

[Claim 6]

A program causing a computer of a violator identification device that is configured to identify a violator associated with travel of a vehicle in a facility that is provided with a toll collection system collecting a toll for a service in which a vehicle is used and configured to provide information of the violator to a regulation organization carrying out a hearing, examination, and a penalty to the violator, the program is configured to perform:

a vehicle identification information acquiring step of acquiring vehicle identification information which is able to identify the vehicle in which the violator rides from an image captured by a roadside camera that is provided in the toll collecting system;

a violation detecting step of detecting violation of the vehicle when at least one measured values of speed, weight, height, and length of the vehicle measured by a sensor provided in the toll collection system is larger than a limit value;

a personal information acquiring step of acquiring personal information correlated with the vehicle identification information from a database which is provided in the toll collecting system, the database in which a personal information of a user of the facility is registered; and

an output step of outputting violation information to a terminal device which is provided in the regulation organization, the violation information in which the image, the personal information, and violation details including the measurement results in which the violation is detected are correlated.

[Claim 7]

The violator identification device according to any one of claims 1 to 3,

wherein the violation identification device detects a violation of the vehicle when the vehicle identification information acquiring unit acquires vehicle identification information of the vehicle and when a wireless communication between a roadside radio communication device provided in the toll collection system and a media installed on the vehicle is not established.