# CLAIMS

[Claim 1]

A mobile body passage management system for managing passage of a mobile body that moves autonomously, comprising:

a storage unit that associates marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and stores the marker positional information associated with the marker identification information;

a communication unit that communicates with the mobile body; and

a control unit that, when receiving the marker identification information from the mobile body, reads the marker positional information associated with the marker identification information from the storage unit and transmits the marker positional information to the mobile body,

wherein the control unit transmits a rule about passage in vicinity of a marker corresponding to the received marker identification information, together with the marker positional information, to the mobile body.

[Claim 2]

The mobile body passage management system according to claim 1,

wherein the storage unit stores a rule about passage in vicinity of a relevant marker by associating the rule with the marker identification information; and

wherein when the rule is associated with the marker identification information received from the mobile body, the control unit transmits the rule together with the marker positional information to the mobile body; and

wherein the rule includes either entry prohibition or a stop request.

[Claim 3]

The mobile body passage management system according to claim 1,

wherein the storage unit stores map data associated with the rule about the passage; and

wherein the control unit generates a rule to be reported to the mobile body based on the marker positional information and the map data and transmits the rule together with the marker positional information to the mobile body; and

wherein the rule includes either entry prohibition or a stop request.

[Claim 4]

The mobile body passage management system according to any one of claims 1, 2, and 3,
wherein the storage unit stores area information for defining a target area to which the rule should apply, by further associating the area information with the marker identification information.
[Claim 5]
A mobile body passage management system for managing passage of a mobile body that moves autonomously, comprising:
a storage unit that associates marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and stores the marker positional information associated with the marker identification information;
a communication unit that communicates with the mobile body; and
a control unit that, when receiving the marker identification information from the mobile body, reads the marker positional information associated with the marker identification information from the storage unit and transmits the marker positional information to the mobile body,
wherein the storage unit stores equipment usage information required when using equipment in the target facility, by associating the equipment usage information with the marker identification information; and
wherein when the equipment usage information is associated with the marker identification information received from the mobile body, the control unit transmits the equipment usage information together with the marker positional information to the mobile body.
[Claim 6]
A mobile body passage management system for managing passage of a mobile body that moves autonomously, comprising:
a storage unit that associates marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and stores the marker positional information associated with the marker identification information;
a communication unit that communicates with the mobile body; and
a control unit that, when receiving the marker identification information from the mobile body, reads the marker positional information associated with the marker identification

information from the storage unit and transmits the marker positional information to the mobile body,
wherein the storage unit stores map data associated with equipment usage information required when using equipment in the target facility; and
wherein the control unit generates equipment usage information to be reported to the mobile body based on the marker positional information and the map data and transmits the equipment usage information together with the marker positional information to the mobile body.
[Claim 7]
The mobile body passage management system according to claim 5 or 6,
wherein the equipment usage information includes an equipment type and a position and direction of the target facility with reference to the marker.
[Claim 8]
A mobile body passage management system for managing passage of a mobile body that moves autonomously, comprising:
a storage unit that associates marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and stores the marker positional information associated with the marker identification information;
a communication unit that communicates with the mobile body; and
a control unit that, when receiving the marker identification information from the mobile body, reads the marker positional information associated with the marker identification information from the storage unit and transmits the marker positional information to the mobile body,
wherein the marker positional information includes information for identifying the target facility, information for identifying a floor within the target facility, and a position and direction of the marker with reference to the target facility.
[Claim 9]
The mobile body passage management system according to any one of claims 1, 5, 6, and 8,
wherein the marker is an optically readable binary code and indicates the marker identification information.
[Claim 10]
The mobile body passage management system according to any one of claims 1, 5, 6,

and 8,
wherein the control unit accumulates a history regarding reception of the marker identification information from the mobile body.
[Claim 11]
A mobile body passage management method for managing passage of a mobile body that moves autonomously, comprising:
a step executed by a server associating marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility, and storing the marker positional information associated with the marker identification information in a storage unit;
a step executed by the server receiving the marker identification information from the mobile body; and
a step executed by the server reading the marker positional information associated with the marker identification information from the storage unit and transmitting the marker positional information to the mobile body,
wherein the server transmits a rule about passage in vicinity of a marker corresponding to the received marker identification information, together with the marker positional information, to the mobile body.
[Claim 12]
A mobile body passage management method for managing passage of a mobile body that moves autonomously, comprising:
a step executed by a server associating marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and storing the marker positional information associated with the marker identification information in a storage unit;
a step executed by the server receiving the marker identification information from the mobile body; and
a step executed by the server reading the marker positional information associated with the marker identification information from the storage unit and transmitting the marker positional information to the mobile body,
wherein the storage unit stores equipment usage information required when using equipment in the target facility, by associating the equipment usage information with the

marker identification information; and
wherein when the equipment usage information is associated with the marker identification information received from the mobile body, the server transmits the equipment usage information together with the marker positional information to the mobile body.
[Claim 13]
A mobile body passage management method for managing passage of a mobile body that moves autonomously, comprising:
a step executed by a server associating marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and storing the marker positional information associated with the marker identification information in a storage unit;
a step executed by the server receiving the marker identification information from the mobile body; and
a step executed by the server reading the marker positional information associated with the marker identification information from the storage unit and transmitting the marker positional information to the mobile body,
wherein the storage unit stores map data associated with equipment usage information required when using equipment in the target facility; and
wherein the server generates equipment usage information to be reported to the mobile body based on the marker positional information and the map data and transmits the equipment usage information together with the marker positional information to the mobile body.
[Claim 14]
A mobile body passage management method for managing passage of a mobile body that moves autonomously, comprising:
a step executed by a server associating marker identification information for identifying a marker installed in a target facility, where the mobile body passes, with marker positional information indicating a position of the marker in the target facility and storing the marker positional information associated with the marker identification information in a storage unit;
a step executed by the server receiving the marker identification information from the mobile body; and

a step executed by the server reading the marker positional information associated with the marker identification information from the storage unit and transmitting the marker positional information to the mobile body,

wherein the marker positional information includes information for identifying the target facility, information for identifying a floor within the target facility, and a position and direction of the marker with reference to the target facility.