{CLAIMS}

{Claim 1}

An electric mobility vehicle comprising:

a mobility body; and

a sensor attached to the mobility body,

wherein the sensor has a detection range around a predetermined axis line which passes through the sensor and extends in a vehicle width direction, the detection range has a viewing angle in an elevation direction and/or a depression direction with regard to a surface perpendicular to the predetermined axis line, the detection range including a front side of the vehicle and a rear side of the vehicle, and the sensor is capable of detecting an obstacle at the front side of the vehicle and the rear side of the vehicle.

{Claim 2}

The electric mobility vehicle according to claim 1, wherein

the mobility body includes a seat unit on which a user sits,

the sensor is attached to an armrest of the seat unit, an arm to which the armrest is attached, a member below the armrest, a member below the arm, or a guard member, such that the sensor protrudes outward in the vehicle width direction, and

the guard member is a member provided on the seat unit to

reduce protrusion, in the vehicle width direction from the seat unit, of clothing of the user, a thigh of the user, or a knee of the user.

{Claim 3}

The electric mobility vehicle according to claim 1 or 2, further comprising a rear step sensor attached to the mobility body and configured to detect a step located behind the mobility body.

{Claim 4}

The electric mobility vehicle according to claim 1 further comprising

a control device configured to move the mobility body by autonomous driving,

wherein the control device is configured to change an orientation of the mobility body so that the rear side of the vehicle is positioned toward an elevator car before the mobility body enters the elevator car.

{Claim 5}

An electric mobility vehicle comprising:

a mobility body;

a sensor attached to the mobility body, the sensor having a detection range around a predetermined axis line which extends in a vehicle width direction, the detection range having a viewing angle in an elevation direction and/or a depression direction with regard to a surface perpendicular to

the predetermined axis line, and the sensor capable of detecting an obstacle;

a lower sensor provided on the mobility body and configured to detect the obstacle from at least one of an area between front wheels of the mobility body or an area between the front wheels and a rear wheel of the mobility body; and

a sensor moving mechanism configured to move the lower sensor between a sensing position at which the lower sensor is capable of detecting the obstacle and a retracted position located above the sensing position.

{Claim 6}

The electric mobility vehicle according to claim 5, wherein the mobility body includes a battery detachably mounted thereto, and wherein the sensor moving mechanism is configured to place the lower sensor at the sensing position when the battery is mounted to the mobility body and to place the lower sensor at the retracted position when the battery is removed from the mobility body.

{Claim 7}

An electric mobility vehicle comprising:

a mobility body;

a sensor attached to the mobility body, the sensor having a detection range around a predetermined axis line which extends in a vehicle width direction, the detection range having a viewing angle in an elevation direction and/or a

depression direction with regard to a surface perpendicular to the predetermined axis line, and the sensor capable of detecting an obstacle;

a lower sensor provided on the mobility body and capable of detecting the obstacle from at least one of an area between front wheels of the mobility body or an area between the front wheels and a rear wheel of the mobility body; and

a sensor protection member projecting downward from a lower surface of the mobility body,

wherein the sensor protection member is disposed in a horizontal area in which the front wheels or the rear wheel exists when seen from the lower sensor.

{Claim 8}

The electric mobility vehicle according to claim 1, wherein

the mobility body has a seat unit on which a user sits, and

a user distance sensor capable of detecting a front-rear distance between the seat unit and the user is attached to the mobility body.

{Claim 9}

An electric mobility vehicle comprising:

a mobility body;

a sensor attached to the mobility body, the sensor having a detection range around a predetermined axis line which

extends in a vehicle width direction, the detection range having a viewing angle in an elevation direction and/or a depression direction with regard to a surface perpendicular to the predetermined axis line, and the sensor capable of detecting an obstacle; wherein

the mobility body has a seat unit on which a user sits,

the seat unit includes a seat surface portion and a guard member that is disposed outward in the vehicle width direction relative to at least one of a thigh or a knee of the user seated on the seat unit, the guard member being configured to reduce protrusion of clothing of the user, a thigh of the user, or a knee of the user from the seat unit, and

a part of the guard member is positioned at a front side relative to a front end of the seat surface portion, and the guard member has an inclined portion that inclines inward in the vehicle width direction toward a lower side.

{Claim 10}

The electric mobility vehicle according to claim 1 or 2, further comprising a push handle attached to the mobility body so as to move in a swing manner,

wherein the push handle is movable to a first swing position in which a grip portion thereof is disposed at a height position for pushing the electric mobility vehicle, and is also movable to a second swing position that is a storage position and lower than the first swing position.

{Claim 11}

The electric mobility vehicle according to claim 1, wherein the mobility body has the seat unit on which a user sits,

wherein the electric mobility vehicle further comprises a luggage basket disposed behind the seat unit,

wherein the luggage basket is detachably attached to the mobility body so that the electric mobility vehicle can be placed on a cart having an allowable accommodation dimension of 110 cm or less in a first horizontal direction and 110 cm or less in a second horizontal direction orthogonal to the first horizontal direction.