CLAIMS

1. A charging system comprising:

an electric bus; and a charger,

wherein the electric bus includes:

a storage functional unit;

a drive unit configured to drive the electric bus using power discharged from the storage functional unit;

a charging unit configured to charge the storage functional unit using power supplied from the charger; and

a first communication unit configured to receive an identifier of the charger from the charger, and transmit a first command commanding a start of radio communication, to the charger identified by the received identifier,

wherein the charger includes:

a supply unit configured to supply power to the electric bus stopped at a preset position; and

a second communication unit configured, if power is being supplied to the electric bus by the supply unit, to transmit a first identifier of the charger, if power is not being supplied to the electric bus by the supply unit, to transmit a second identifier that is an identifier of the charger and different from the first identifier, and if the first command is received from the electric bus, to transmit and receive information related to charging of the storage functional unit, with the electric bus being a transmission source of the first command, using radio communication, and

wherein, if the second identifier is received, the first communication unit prohibits transmission of the first command.

2. The charging system according to claim 1,

wherein, if power cannot be supplied to the electric bus by the supply unit, the second communication unit transmits both of the first identifier and the second identifier, and

wherein, if both of the first identifier and the second identifier are received, the first communication unit determines that the charger is unusable.

3. The charging system according to claim 1, wherein the second communication unit transmits the first identifier and the second identifier that are different from identifiers of other charger having an at least partially-overlapping range in which communication can be performed using radio communication.

4. The charging system according to claim 1,

wherein the electric bus includes a storage configured to store a position at which the electric bus stops in a travel route of the electric bus, and first information related to the charger that charges the electric bus stopped at the position, in association with each other, and

wherein the first communication unit sets an identifier of the charger that performs radio communication, based on the first information stored in the storage in association with a position at which the electric bus stops next, and transmits the first command to the charger identified by the set identifier.

5. The charging system according to claim 1,

wherein, if the second identifier is received, and a second command commanding charging of the electric bus is input, the first communication unit transmits, to the

charger, second information commanding reservation of charging of the storage functional unit, and

wherein the second communication unit includes a storage configured to store the second information received from the electric bus.

6. The charging system according to claim 1,

wherein the electric bus includes:

an imaging unit configured to image a periphery of the charger, and

an acquisition unit configured to acquire an identifier of the charger from an image obtained by imaging of the imaging unit, and

wherein, if an identifier acquired by the acquisition unit, and a received identifier match, the first communication unit transmits the first command to the charger.

7. The charging system according to claim 6,

wherein the electric bus includes

a notification unit configured to notify a driver of the electric bus that a stop position of the electric bus is wrong, if an identifier acquired by the acquisition unit, and a received identifier do not match.

8. A charger comprising:

a supply unit configured to supply power to an electric bus stopped at a preset position; and

a second communication unit configured, if power is being supplied to the electric bus by the supply unit, to transmit a first identifier of the charger, if power is not being supplied to the electric bus by the supply unit, to transmit a second identifier that is an identifier of the

charger and different from the first identifier, and if a first command commanding a start of radio communication is received from the electric bus, to transmit and receive information related to charging of a storage functional unit included in the electric bus, with the electric bus being a transmission source of the first command, using radio communication.