CLAIMS

1. A charging system (1) comprising:

an add-on unit (10) configured to connect a plurality of charging connectors (5) to one charging cable (120) of a charging station (100) that charges a vehicle; wherein

the add-on unit (10) includes:

the plurality of charging connectors (5);

a switching unit (10) disposed between the charging cable (120) of the charging station (100) and the plurality of charging connectors (5)

a creation unit (310) configured to create a charging schedule for the charging cable (120) based on a charging request from a user via wireless communication; and

a control unit (20) configured to, based on the created charging schedule, control the switching unit (10) and connect the charging cable (120) to one of the charging connectors (5) connected to a vehicle to be charged.

2. The charging system (1) according to claim 1, wherein

each of the plurality of charging connectors (5) is provided with a two-dimensional code (50) used to identify the charging connector (5),

the charging request includes information regarding the two-dimensional code (50) read by a user operation and information regarding a desired charging duration, and

the creation unit (310) performs assignment of the charging duration to each of the charging connectors (5) in the charging schedule.

3. The charging system (1) according to claim 1, wherein

the switching unit (10) includes an input unit (3) connected to the charging cable (120), a plurality of output units (CN) to which each of the charging connectors (5) is attachably and detachably connected, and a plurality

of relays (4) configured to connect the input unit (3) to each of the output units (CN) or disconnect the input unit (3) from each of the output units (CN).

4. The charging system (1) according to claim 3, wherein the input unit (3) is an inlet connected to a connector (130) for charging included in the charging station (100).

5. The charging system (1) according to claim 1, further comprising:

a detection unit configured to detect a battery voltage of a vehicle connected to the charging connector (5),

wherein the control unit (20) is configured to check, based on the battery voltage, removal of the charging connector (5) from the vehicle.

6. The charging system (1) according to claim 1, further comprising:

a payment agency unit (320) configured to perform payment processing of a charging fee to the charging station (100) and to perform collection of the charging fee via communication with a mobile terminal (200) of the user.