

[CLAIMS]

1. A remote control system comprising:

a controlled device that is remotely controlled; and

5 a mobile communication terminal that performs wireless communication with the controlled device, wherein

the controlled device transmits, when accepting remote control, first data to the communication terminal,

the communication terminal transmits second data

10 including a detail of remote control to the controlled device in response to the first data, and

the controlled device performs a process determined by the detail of remote control included in the second data when a time elapsed since the first data is transmitted until the second data is received is less than a threshold value.

further comprising:

a server connected to the communication terminal via a network, wherein

the communication terminal transfers the first data

20 received to the server,

the server transmits the second data to the

communication terminal in response to the first data, and

the communication terminal transfers the second data

received to the controlled device, wherein

25 a communication unit of the communication device

displays that communication is proceeding during

communication with the server or during communication with
the server and the controlled device.

2. The remote control system according to claim 1,

5 wherein

the first data includes a random number determined by
the controlled device,

the second data includes an authentication value
determined by the random number included in the first data,

10 and

the controlled device restricts execution of the
process determined by the detail of remote control included
in the second data in accordance with the authentication
value included in the second data.

15

~~3. The remote control system according to claim 1 or 2,
further comprising:~~

~~a server connected to the communication terminal via a
network, wherein~~

20 ~~the communication terminal transfers the first data
received to the server,~~

~~the server transmits the second data to the
communication terminal in response to the first data, and
the communication terminal transfers the second data~~

25 ~~received to the controlled device.~~

43. The remote control system according to claim 31 or 2, wherein

the first data includes a message authentication code,
and

5 the server restricts transmission of the second data in accordance with a result of message authentication using the message authentication code included in the first data.

54. The remote control system according to any one of
10 claims 31 or to 43, wherein

the second data includes a message authentication code,
and

the controlled device restricts execution of a process determined by the detail of remote control included in the
15 second data in accordance with a result of message authentication using the message authentication code included in the second data.

65. The remote control system according to any one of
20 claims 31 through to 54, wherein

the server performs client authentication of the communication terminal and restricts communication with the communication terminal in accordance with a result of the client authentication.

25

76. The remote control system according to any one of

claims ~~31~~ ~~through~~to 5, wherein

the server and the communication terminal perform mutual authentication such that the server performs client authentication of the communication terminal, and the communication terminal performs server authentication of the server, and

the server restricts communication with the communication terminal in accordance with a result of the mutual authentication.

10

~~87~~. The remote control system according to any one of claims 1 ~~through~~to ~~76~~, wherein

the communication terminal communicates an address of the communication terminal to the controlled device,

15 the first data includes data corresponding to the address of the communication terminal,

the second data includes the data included in the first data and corresponding to the address of the communication terminal, and

20 when the data included in the second data and corresponding to the address of the communication terminal does not match a destination address of the first data, the controlled device restricts execution of the process determined by the detail of remote control included in the second data.

25

~~98~~. The remote control system according to any one of claims 1 ~~through to 87~~, wherein

~~the controlled device includes a~~the communication unit ~~that of the controlled device~~ performs wireless communication with the communication terminal,

the communication unit is driven by a battery provided in the controlled device, and

when a predetermined user operation designating acceptance of remote control is input in the controlled device, the communication unit returns from a suspended state and performs wireless communication.

~~109~~. The remote control system according to any one of claims 1 ~~through to 87~~, wherein

~~the controlled device includes a~~the communication unit ~~that of the controlled device~~ performs wireless communication with the communication terminal, and

when a predetermined user operation designating acceptance of remote control is input in the controlled device, the communication unit performs wireless communication.

~~11. The remote control system according to any one of claims 3 through 7, wherein~~

~~the communication unit displays that communication is proceeding during communication with the server or during~~

~~communication with the server and the controlled device.~~

~~1210~~. The remote control system according to any one of claims 1 through ~~119~~, wherein

5 the controlled device includes an electric lock, and
 the second data includes, as the detail of remote control, data designating unlocking of the electric lock.

11. The remote control system according to any one of
10 claims 1 to 10, wherein the mobile communication terminal and
the controlled device are connected via a near-field
communication network.