DESCRIPTION

WASHING SYSTEM, WASHING MACHINE, AND PROGRAM

TECHNICAL FIELD

[0001]

The present disclosure relates to washing systems, washing machines, and programs.

BACKGROUND ART

[0002]

Conventionally, a washing system has been disclosed that is capable of setting, on a washing machine, a washing cycle selected on a terminal (for example, refer to Patent Literature (PTL) 1).

[0003]

The conventional washing system includes a washing machine and a terminal capable of communicating with the washing machine. The terminal displays, in a selectable format, a plurality of washing cycles stored in the washing machine in advance and transmits, to the washing machine, information about the washing cycle selected on the terminal. The washing machine sets the washing cycle on the basis of the received information and displays the set washing cycle.

Citation List

Patent Literature

[0004]

PTL 1: Unexamined Japanese Patent Publication No. 2014-033765

SUMMARY OF THE INVENTION

thereto the unit specific ID and the control information (Step U1). The control information includes information about the selected washing cycle. Server 30 requests washing machine 1 to perform washing machine control and causes washing machine 1 to start the washing operation (Step U2).

[0050]

When the washing operation is started (Step U3), washing machine control display unit 6 displays that the washing operation is to be started, and then the screen view transitions to washing machine operation display screen 201A displaying the current operation status. As illustrated in FIG. 11, washing machine operation display screen 201A displays cycle name display portion 7 displaying the cycle name of the washing cycle in operation and current step display portion 8 displaying the current operation status in the whole washing sequence.

[0051]

The cycle name display portion in the present exemplary embodiment shows "MY-FAMILY FAVORITE - QUIET -" as an example. The subordinate cycle is a washing sequence stored in washing machine 1 in advance at the time of manufacture, and therefore an image showing the name of the subordinate cycle is stored in washing machine storage unit 5 in advance. Therefore, washing machine control unit 3 reads out a screen related to the cycle name stored in washing machine storage unit 5 and displays the screen as the cycle name in cycle name display portion 7 (refer to FIG. 11).

[0052]

Washing machine 1 transmits the current control information to server 30 at intervals of predetermined time (Step

on the terminal of the washing system according to the first exemplary embodiment.

[0056]

When the customized cycle is selected on my-family favorite cycle selection screen 102 (refer to FIG. 6), the screen view transitions to operation start screen 104B illustrated in FIG. 14. Similar to operation start screen 104A, operation start screen 104B displays terminal cycle name display portion 43, terminal operation start portion 44, and setting information 43a including timer settings and the like. On operation start screen 104B, "MY-FAMILY FAVORITE - DAD ONLY -" is shown as one example of terminal cycle name display portion 43. When terminal operation start portion 44 is operated on operation start screen 104B, terminal 40 starts the processes related to the washing machine control.

[0057]

Terminal 40 requests server 30 to perform the washing machine control to start the washing operation and transmits thereto the unit specific ID and the control information (Step C1). The control information used when the customized cycle is selected includes setting information about the selection indicated by the cycle name or the like. On the basis of the received unit specific ID and the received control information, server 30 obtains the parameter settings stored in a washing machine setting content table (Step C2) and reflects the parameter settings in the control information (Step C3).

[0058]

Server 30 requests washing machine 1 to start the washing operation and transmits thereto the control information in which the settings have already been reflected (Step C4). On the basis of

unit specific ID, which is used to identify washing machine 1, or user ID, which is used to identify a user, and the setting information in association into setting information unit 35. Terminal 40 displays the cycle name of the customized cycle stored in setting information unit 35 before transmitting to washing machine 1 a washing operation instruction to perform the washing operation, and the screen on washing machine 1 that displays the operation status of the washing operation does not display the cycle name.

[0075]

The washing application according to the present exemplary embodiment is a program for a washing machine application installed on terminal 40. This program includes a display step for displaying, in a selectable format, an operation cycle including an operation cycle preinstalled on washing machine 1 and a customized cycle not installed on washing machine 1. Furthermore, this program causes terminal 40 to perform: a transmission step (Step U1, Step C1) for transmitting, to the washing machine 1, cycle selection information about the operation cycle selected; and a display step for receiving information about the status of execution of the operation cycle that is being executed by washing machine 1 (Step U5, Step C7), and displaying an indication that varies depending on whether washing machine 1 is executing the subordinate cycle or washing machine 1 is executing the customized cycle.

[0076]

SECOND EXEMPLARY EMBODIMENT

A washing system according to the second exemplary embodiment is different from the washing system according to the