Claims

1. Method for giving a destination call to the control system of an elevator system, in which method

   - one or more departure floor-destination floor pairs (4,4') are presented on the touch-sensitive display (3) of a destination call-giving device (1) having a touch-sensitive display, in which each pair identifies for the user one predetermined departure floor and one predetermined destination floor,

   - the departure floor-destination floor pair (4,4') selected by the user is determined on the basis of a touch detected with the touch-sensitive display,

   - a destination call signal is sent to the control system (11) of the elevator system (10), which signal identifies the departure floor (4a,4a') and the destination floor (4b,4b') of the departure floor-destination floor pair (4,4') selected by the user.

2. Method according to any of the preceding claims, **characterized** in that the information about the aforementioned one or more departure floor-destination floor pairs (4,4') is recorded in the memory of a destination call-giving device (1), which memory is preferably long-lasting in such a way that the information in question does not disappear in connection with extinguishing the destination call-giving device (1).

3. Method according to any of the preceding claims, **characterized** in that a plurality of the aforementioned types of departure floor-destination floor pairs (4,4') are displayed, and the departure floor-destination floor pair (4,4') selected from the aforementioned plurality

by the user is determined on the basis of a touch detected with the touch-sensitive display (3).

4. Method according to any of the preceding claims, **characterized** in that a response signal to the destination call signal sent to it is received from the control system (11) of the elevator system (10), which response signal contains information identifying the elevator car (C), and the information identifying the elevator car (C) is presented to the user on the touch-sensitive display (3).

5. Method according to any of the preceding claims, **characterized** in that a departure floor (4a,4a) and a destination floor (4b,4b') are identified from the aforementioned one or more departure floor-destination floor pairs (4,4'), which floors correspond to the departure floor and the destination floor identified by a destination call signal sent earlier with the call-giving device (1) to the control system (11) of the elevator system (10).

6. Method according to any of the preceding claims, **characterized** in that a new departure floor-destination floor pair (4,4') is formed, in which case the departure floor (4a,4a') and the destination floor (4b,4b') that are identified by the departure floor-destination floor pair (4,4') to be formed are set to correspond to the departure floor and the destination floor identified by a destination call signal sent earlier with the call-giving device (1) to the control system (11) of the elevator system (10).

7. Method according to any of the preceding claims, **characterized** in that a departure floor input earlier by the user and a destination floor input earlier by the user are identified for the user from the

aforementioned one or more departure floor-destination floor pairs (4,4').

8. Method according to any of the preceding claims, **characterized** in that a new departure floor-destination floor pair (4,4') is formed, in which case the user inputs a departure floor and a destination floor for identifying the new departure floor-destination floor pair, and the new departure floor-destination floor pair (4,4') is recorded in the memory (M).

9. Method according to any of the preceding claims, **characterized** in that a touch-sensitive area, preferably a touch-sensitive pushbutton, on the touch-sensitive display is associated with each aforementioned departure floor-destination floor pair (4,4') to be presented on the touch-sensitive display, and the departure floor-destination floor pair (4,4') selected by the user is determined on the basis of the point of the touch of the user.

10. Computer program product, which comprises program commands, which bring a computer provided with a touch-sensitive display (3) and an output (O_1) to perform a method according to any preceding claim whatsoever, when the program commands are run in the aforementioned computer, which is arranged to communicate via the output (O_1) with the control system (11) of the elevator system (10).

11. Destination call-giving device (1) for giving destination calls in an elevator system (10), which destination call-giving device (1) comprises means (2,3) available to a user for selecting a departure floor and a destination floor, and an output (O_1) for communicating the selected departure floor and destination floor to the control

system (11) of the elevator system (10), which means (2,3) for selecting a departure floor comprise a touch-sensitive display (3) for presenting to the user information related to the selection of a departure floor and a destination floor and for receiving the input of the user, **characterized** in that the means (2,3) for selecting a departure floor and a destination floor are arranged to present one or more departure floor-destination floor pairs (4,4') on the touch-sensitive display (3), in which each pair (4,4') identifies for the user one predetermined departure floor (4a,4a') and one predetermined destination floor (4b,4b'), and to determine the departure floor-destination floor pair selected by the user on the basis of a touch detected with the touch-sensitive display (3), and to send a destination call signal to the control system (11) of the elevator system (10), which signal identifies the departure floor and the destination floor that are according to the selection of the user.

12. Destination call-giving device (1) according to any preceding claim, **characterized** in that it comprises a memory (M), in which the information of the aforementioned one or more departure floor-destination floor pairs (4,4') is recorded, which memory (M) is preferably long-lasting in such a way that the information in question does not disappear in connection with extinguishing the destination call-giving device (1).

13. Destination call-giving device (1) according to any preceding claim, **characterized** in that the means (2,3) for selecting a departure floor and a destination floor are arranged to send to the control system (11) of the elevator system (10) a destination call automatically after detecting a selection.

14. Elevator system (10), which comprises one or more elevator cars (C), and a control system (11), which is arranged to control the aforementioned one or more elevator cars (C) on the basis of the destination calls of a destination call-giving device (1) communicating with the aforementioned control system (11), which destination call-giving device (1) is according to one of the preceding claims.

15. Elevator system (10) according to any preceding claim, **characterized** in that the control system (11) is arranged to allocate an elevator car (C) in response to a destination call received from the aforementioned destination call-giving device (1), and to communicate to the destination call-giving device (1) the allocated elevator car, and the destination call-giving device (1) is arranged to identify for the user the allocated elevator car (C) with the touch-sensitive display.

Claims

1. Method for giving a destination call to a control system of an elevator system, in which method a destination call-giving device comprising means is operable by a user for selecting a departure floor and a destination floor to be outputted to the control system, characterized in that said means comprise a touch-sensitive display forming a user interface for presenting to the user information related to the selection of a departure floor and a destination floor and for receiving input of the user, in which method

- one or more departure floor-destination floor pairs (4,4') are presented on the touch-sensitive display (3) of the destination call-giving device (1) having the touch-sensitive display, in which each pair identifies for the user one predetermined departure floor and one predetermined destination floor,
- the departure floor-destination floor pair (4,4') selected by the user is determined on the basis of a touch detected with the touch-sensitive display (3),
- a destination call signal is sent to the control system (11) of the elevator system (10), which signal identifies the departure floor (4a,4a') and the destination floor (4b,4b') of the departure floor-destination floor pair (4,4') selected by the user.

2. Method according to any of the preceding claims, **characterized** in that the information about the aforementioned one or more departure floor-destination floor pairs (4,4') is recorded in the memory of a destination call-giving device (1), which memory is preferably long-lasting in such a way that

the information in question does not disappear in connection with extinguishing the destination call-giving device (1).

3. Method according to any of the preceding claims, **characterized** in that a plurality of the aforementioned types of departure floor-destination floor pairs (4,4') are displayed, and the departure floor-destination floor pair (4,4') selected from the aforementioned plurality by the user is determined on the basis of a touch detected with the touch-sensitive display (3).

4. Method according to any of the preceding claims, **characterized** in that a response signal to the destination call signal sent to it is received from the control system (11) of the elevator system (10), which response signal contains information identifying the elevator car (C), and the information identifying the elevator car (C) is presented to the user on the touch-sensitive display (3).

5. Method according to any of the preceding claims, **characterized** in that a departure floor (4a,4a) and a destination floor (4b,4b') are identified from the aforementioned one or more departure floor-destination floor pairs (4,4'), which floors correspond to the departure floor and the destination floor identified by a destination call signal sent earlier with the call-giving device (1) to the control system (11) of the elevator system (10).

6. Method according to any of the preceding claims, **characterized** in that a new departure floor-destination floor pair (4,4') is formed, in which case the departure floor (4a,4a') and the destination floor (4b,4b') that are identified by the departure floor-destination floor pair (4,4') to be formed are set to correspond to the departure floor and the destination floor identified by a destination call signal sent earlier with the call-giving device (1) to the control system (11) of the elevator system (10).

7. Method according to any of the preceding claims, **characterized** in that a departure floor input earlier by the user and a destination floor input earlier by the user are identified for the user from the aforementioned one or more departure floor-destination floor pairs (4,4').

8. Method according to any of the preceding claims, **characterized** in that a new departure floor-destination floor pair (4,4') is formed, in which case the user inputs a departure floor and a destination floor for identifying the new departure floor-destination floor pair, and the new departure floor-destination floor pair (4,4') is recorded in the memory (M).

9. Method according to any of the preceding claims, **characterized** in that a touch-sensitive area, preferably a touch-sensitive pushbutton, on the touch-sensitive display is associated with each aforementioned departure floor-destination floor pair (4,4') to be presented on the touch-sensitive display, and the departure floor-destination floor pair (4,4') selected by the user is determined on the basis of the point of the touch of the user.

10. Computer program product, which comprises program commands, which bring a computer provided with a touch-sensitive display (3) and an output (O_1) to perform a method according to any preceding claim whatsoever, when the program commands are run in the aforementioned computer, which is arranged to communicate via the output (O_1) with the control system (11) of the elevator system (10).

11. Destination call-giving device (1) for giving destination calls in an elevator system (10), which destination call-giving device (1) comprises means (2,3) operable by a user for selecting a departure floor and a destination floor, and an output (O_1) for communicating the selected

departure floor and destination floor to the control system (11) of the elevator system (10), characterized in that said means (2,3) for selecting a departure floor and destination floor comprise a touch-sensitive display (3) forming a user interface for presenting to the user information related to the selection of a departure floor and a destination floor and for receiving the input of the user, **characterized** in that the means (2,3) for selecting a departure floor and a destination floor are arranged to present one or more departure floor-destination floor pairs (4,4') on the touch-sensitive display (3), in which each pair (4,4') identifies for the user one predetermined departure floor (4a,4a') and one predetermined destination floor (4b,4b'), and to determine the departure floor-destination floor pair selected by the user on the basis of a touch detected with the touch-sensitive display (3), and to send a destination call signal to the control system (11) of the elevator system (10), which signal identifies the departure floor and the destination floor that are according to the selection of the user.

12. Destination call-giving device (1) according to any preceding claim, **characterized** in that it comprises a memory (M), in which the information of the aforementioned one or more departure floor-destination floor pairs (4,4') is recorded, which memory (M) is preferably long-lasting in such a way that the information in question does not disappear in connection with extinguishing the destination call-giving device (1).

13. Destination call-giving device (1) according to any preceding claim, **characterized** in that the means (2,3) for selecting a departure floor and a destination floor are arranged to send to the control system (11) of the elevator system (10) a destination call automatically after detecting a selection.

14. Elevator system (10), which comprises one or more elevator cars (C), and a control system (11), which is arranged to control the aforementioned one or more elevator cars (C) on the basis of the destination calls of a destination call-giving device (1) communicating with the aforementioned control system (11), which destination call-giving device (1) is according to one of the preceding claims.

15. Elevator system (10) according to any preceding claim, **characterized** in that the control system (11) is arranged to allocate an elevator car (C) in response to a destination call received from the aforementioned destination call-giving device (1), and to communicate to the destination call-giving device (1) the allocated elevator car, and the destination call-giving device (1) is arranged to identify for the user the allocated elevator car (C) with the touch-sensitive display.