Patent Claims

1. Method of transporting persons in a multi-storey building by means of a lift installation (10), which comprises at least one lift cage (11), wherein the lift cage (11) is entered by persons at at least one first access storey (S1, S2), characterised in that at least one destination storey (S3, S4, S5, S6, S7) is fixedly allocated to the access storey (S1, S2).

2. Method according to claim 1, characterised in that the travel destination or destinations is or are indicated in advance to the persons by means of an indicating device (14).

3. Method according to one of claims 1 and 2, characterised in that the allocation is variable.

4. Method according to any one of claims 1 to 3, characterised in that arriving persons are recognised by an access terminal (13).

5. Method according to claim 4, characterised in that the access terminal (13) comprises sensors (13a) such as, for example, radar sensors or video sensors.

6. Method according to claim 5, characterised in that features of the passengers, such as being accompanied by shopping trolleys or sports bags, are recognised by the sensor in order to be able to propose an appropriate destination storey.

7. Method according to any one of the preceding claims, characterised in that the lift installation indicates to arriving persons by display and/or acoustically one or more lifts for the pre-defined destination storey without the destination storey being actively input by the passenger.

8. Method according to any one of the preceding claims, characterised in that the next and optionally also the next-but-one travel destinations are optically and/or acoustically indicated within the cage.

9. Method according to any one of the preceding claims, characterised in that the lift

doors automatically close only after a fixed time period since entry of the first passenger has elapsed or if the cage is full.

10. Method according to any one of the preceding claims, characterised in that a lift cage in each instance serves only a small number of different travel destinations.

11. Method according to any one of the preceding claims, characterised in that specific destination storeys are allocated only at specific times.

12. Method according to any one of the preceding claims, characterised in that specific destination storeys are allocated only when the facilities located there, such as businesses, restaurants, leisure facilities, means-of-transport, etc., are opened or ready for operation.

13. Arrangement for transport persons in a building with a lift installation (10), which comprises at least one lift cage (11), wherein at least one access storey (S1, S2) is provided, characterised in that at least one destination storey (S3, S4, S5, S6, S7) is fixedly allocated to an access storey (S1, S2).

14. Arrangement according to claim 13, characterised by an indicating device (14) which is provided for indication of an allocation of the destination storeys (S3, S4, S5, S6, S7) to the access storeys (S1, S2).

The invention claimed is:

1. A method of transporting one or more persons in a multi-story building with an elevator installation, the elevator installation comprising an elevator cage, the method comprising:

detecting, based on energy reflected by bodies of the one or more persons, a movement of the one or more persons on an access story toward the elevator installation;

providing access to the elevator cage to the one or more persons at the access story, the elevator cage being configured to serve two or more destination stories in the building; and

transporting the elevator cage to a preset story of the destination stories without destination input from the one or more persons, the preset story being a default destination for travel from the access story.

2. The method according to claim 1, further comprising indicating the preset story in advance to the one or more persons by way of an indicating device.

3. The method according to claim 1, the detecting being performed using at least one sensor mounted on an access terminal.

4. The method according to claim 3, the at least one sensor comprising a radar sensor or a video sensor.

5. The method according to claim 1, the preset story being optically or acoustically indicated within the cage.

6. The method according to claim 1, further comprising closing doors of the elevator cage after a fixed time period from entry of the one or more persons into the cage or if the cage is full.

7. The method according to claim 1, the preset story being determined based in part on a time schedule.

8. An elevator installation, comprising:

at least one elevator cage that serves an access story and two destination stories in a building; and

at least one movement sensor on the access story, the elevator installation being configured to:

provide access to the at least one elevator cage to a passenger detected by the at least one movement sensor on the access story, the passenger detected based on energy reflected by a body of the passenger; and

transport the at least one elevator cage to a preset story of the destination stories without destination input from the passenger, the preset story being a default destination for travel from the access story.

9. The elevator installation according to claim 8, further comprising an indicating device for receiving an indication of a destination story from another passenger.

10. The method of claim 1, further comprising setting the preset story as the default destination for travel from the access story based on input destinations for a plurality of previous elevator passengers.