## CLAIMS

1. Method in the manufacture of an elevator, which elevator comprises during the manufacture

- an elevator hoistway,
- an elevator car,
- a movable supporting platform for supporting the elevator car below it in the elevator hoistway;

in which method the movable supporting platform is in its position in the elevator hoistway and the elevator car has been taken into use to move in the aforementioned elevator hoistway and to transport passengers and/or freight between floors, in which method the elevator car is removed from the aforementioned use;

after which a lifting phase is performed, in which the supporting platform above the elevator car is lifted higher up in the elevator hoistway, and thus the range of movement of the elevator car is changed to extend farther upwards than before in the elevator hoistway, after which the elevator car is again taken into use to move in the aforementioned elevator hoistway and to transport passengers and/or freight between floors; and

before the lift of the supporting platform, guide rails are installed to extend to above the supporting platform, and downward creep during the lifting phase of the supporting platform is prevented with one or more guide rail safety gears in connection with the supporting platform;

wherein each guide rail safety gear is arranged during the aforementioned lift

to allow movement of the supporting platform upwards and to grip the aforementioned guide rails as a consequence of downward movement of the supporting platform; and

wherein each guide rail safety gear comprises a spring keeping a wedge part in contact with the guide rail.

2. Method according to any of the claims, wherein the supporting platform comprises guide shoes resting on the aforementioned guide rails, by means of which guide shoes the supporting platform is guided during the lift.

3. Method according to any of the claims, wherein the aforementioned guide rails, which are installed above the supporting platform before the lift of the supporting platform, are installed on top of the lower guide rails, guided by which lower guide rails the elevator car is arranged to travel during the aforementioned use.

4. Method according to any of the claims, wherein after the lift of the supporting platform the elevator car is again taken into use to move in the aforementioned elevator hoistway and to transport passengers and/or freight between floors, during which use the elevator car reaches to travel, guided by the guide rails, which a guide rail safety gear was arranged to grip during the previous lift as a consequence of downward movement of the supporting platform.

5. Method according to any of the claims, wherein the guide rail safety gear is

arranged during the aforementioned lift to allow movement of the supporting platform upwards and to grip the aforementioned guide rails, by means of the wedge part wedging against the guide rail, as a consequence of downward movement of the supporting platform.

6. Method according to any of the claims, wherein the supporting platform is lifted higher up in the elevator hoistway with means for lifting the supporting platform, which means comprise a lifting device, which pulls the supporting platform upwards in the elevator hoistway while resting on a support structure separate to the supporting platform, which support structure is either supported in the elevator hoistway above the supporting platform at a distance from the supporting platform, or which is a worksite crane.

7. Elevator arrangement, which comprises

- an elevator hoistway,
- an elevator car,
- a movable supporting platform for supporting the elevator car below it in the elevator hoistway;

means for lifting the supporting platform higher up in the elevator hoistway;

wherein the arrangement comprises guide rails extending to above the supporting platform; and

in connection with the supporting platform are one or more guide rail safety gears, which are arranged to allow movement of the supporting platform upwards and to grip the guide rails as a consequence of downward movement of the

supporting platform;

wherein each guide rail safety gear comprises a spring for keeping a wedge part in contact with the guide rail.

8. Elevator arrangement according to any of the claims, wherein the supporting platform comprises guide shoes resting on the aforementioned guide rails, by means of which guide shoes the supporting platform is arranged to be guided during the lift of it.

9. Elevator arrangement according to any of the claims, wherein the aforementioned guide rails are on top of the guide rails, guided by which the elevator car is arranged to travel during the aforementioned use.

10. Elevator arrangement according to any of the claims, wherein the guide rail safety gear comprises the wedge part which is arranged to wedge between the wedge housing of the guide rail safety gear and the guide rail if the guide rail safety gear moves downwards in relation to the guide rail.

11. Elevator arrangement according to any of the claims, wherein the guide rail safety gear comprises the wedge part which is arranged during the lift to be in constant contact with the guide rail and to wedge between the wedge housing of the guide rail safety gear and the guide rail if the guide rail safety gear moves downwards in relation to the guide rail.

12. Elevator arrangement according to any of the claims, wherein the aforementioned wedge part is a roller that rotates against the guide rail during the lift, or a piece that slides against the guide rail during the lift.

13. Elevator arrangement according to any of the claims, wherein the means for lifting the supporting platform comprise a lifting device, which is arranged to pull the supporting platform upwards in the elevator hoistway while resting on a support structure separate to the supporting platform, which support structure is either supported in the elevator hoistway above the supporting platform at a distance from the supporting platform, or which is a worksite crane.

**CLAIMS**

1. Method in the manufacture of an elevator, which elevator comprises during the manufacture
   - an elevator hoistway (1),
   - an elevator car (2),
   - a movable supporting platform (3) for supporting the elevator car (2) below it in the elevator hoistway,

   in which method the movable supporting platform is in its position in the elevator hoistway (1) and the elevator car (2) has been taken into use to move in the aforementioned elevator hoistway (1) and to transport passengers and/or freight between floors, in which method the elevator car (2) is removed from the aforementioned use, after which a lifting phase is performed, in which the supporting platform (3) above the elevator car (2) is lifted higher up in the elevator hoistway (1), and thus the range of movement of the elevator car (2) is changed to extend farther upwards than before in the elevator hoistway (1), after which the elevator car (2) is again taken into use to move in the aforementioned elevator hoistway (1) and to transport passengers and/or freight between floors, **characterized** in that before the lift of the supporting platform (3), guide rails are installed to extend to above the supporting platform, and downward creep during the lifting phase of the supporting platform (3) is prevented with one or more guide rail safety gears (10, 20) in connection with the supporting platform (3), which guide rail safety gears are arranged during the aforementioned lift to allow movement of the supporting platform (3) upwards and to grip the aforementioned guide rails (G) as a consequence of downward movement of the supporting platform (3).

2. Method according to any of the claims, **characterized** in that the supporting platform (3) comprises guide shoes (4) resting on the aforementioned guide rails (G), by means of which guide shoes the supporting platform (3) is guided during the lift (L) of it.

3. Method according to any of the claims, **characterized** in that the aforementioned guide rails (G), which are installed above the supporting platform (3) before the lift of the supporting platform (3), are installed on top of the lower guide rails, guided by which lower guide rails the elevator car (2) is arranged to travel during the aforementioned use.

4. Method according to any of the claims, **characterized** in that after the lift (L) of the supporting platform the elevator car (2) is again taken into use to move in the aforementioned elevator hoistway (1) and to transport passengers and/or freight between floors, during which use the elevator car (2) reaches to travel, guided by the guide rails (G), which a guide rail safety gear (10, 20) was arranged to grip during the previous lift (L) as a consequence of downward movement of the supporting platform (3).

5. Method according to any of the claims, **characterized** in that the guide rail safety gear (10,20) is arranged during the aforementioned lift (L) to allow movement of the supporting platform (3) upwards and to grip the aforementioned guide rails (G), by means of the wedge part (11,21) wedging against the guide rail (G), as a consequence of downward movement of the supporting platform (3).

6. Method according to any of the claims, **characterized** in that the supporting platform (3) is lifted higher up in

the elevator hoistway with means (7,8) for lifting the supporting platform, which means comprise a lifting device (9), which pulls the supporting platform (3) upwards in the elevator hoistway (1) while resting on a support structure (8) separate to the supporting platform (3), which support structure is either supported in the elevator hoistway (1) above the supporting platform (3) at a distance from the supporting platform (3), or which is a worksite crane.

7. Elevator arrangement, which comprises
   - an elevator hoistway (1),
   - an elevator car (2),
   - a movable supporting platform (3) for supporting the elevator car (2) below it in the elevator hoistway (1),
   - means (7,8) for lifting the supporting platform higher up in the elevator hoistway (1),

   **characterized** in that the arrangement comprises guide rails (G) extending to above the supporting platform (3), and in that in connection with the supporting platform (3) are one or more guide rail safety gears (10,20), which are arranged to allow movement of the supporting platform (3) upwards and to grip the guide rails (G) as a consequence of downward movement of the supporting platform (3).

8. Elevator arrangement according to any of the claims, **characterized** in that the supporting platform (3) comprises guide shoes (4) resting on the aforementioned guide rails (G), by means of which guide shoes the supporting platform (3) is arranged to be guided during the lift (L) of it.

9. Elevator arrangement according to any of the claims, **characterized** in that the aforementioned guide rails

(G) are on top of the guide rails (G), guided by which the elevator car (2) is arranged to travel during the aforementioned use.

10. Elevator arrangement according to any of the claims, **characterized** in that the guide rail safety gear (10,20) comprises a wedge part (11,21), which is arranged to wedge between the wedge housing (12,22) of the guide rail safety gear (10,20) and the guide rail (G) if the guide rail safety gear (10,20) moves downwards in relation to the guide rail (G).

11. Elevator arrangement according to any of the claims, **characterized** in that the guide rail safety gear (10,20) comprises a wedge part (11,21), which is arranged during a lift to be in constant contact with the guide rail (G) and to wedge between the wedge housing (12,22) of the guide rail safety gear (2) and the guide rail (G) if the guide rail safety gear (10,20) moves downwards in relation to the guide rail (G).

12. Elevator arrangement according to any of the claims, **characterized** in that the aforementioned wedge part (11,21) is a roller (21) that rotates against the guide rail (G) during a lift (L), or a piece (11) that slides against the guide rail during a lift.

13. Elevator arrangement according to any of the claims, **characterized** in that the guide rail safety gear (10, 20) comprises gripping means (13, 23) for keeping the wedge part (11, 21) in contact with the guide rail (G) during a lift.

14. Elevator arrangement according to any of the claims, **characterized** in that the guide rail safety gear

(10,20) comprises a spring (13,23), with which the aforementioned wedge part (11,21) is arranged during a lift to be pressed into contact with the guide rail (G).

15. Elevator arrangement according to any of the claims, **characterized** in that the means (7,8) for lifting the supporting platform comprise a lifting device (9), which is arranged to pull the supporting platform (3) upwards in the elevator hoistway (1) while resting on a support structure (8) separate to the supporting platform (3), which support structure is either supported in the elevator hoistway (1) above the supporting platform (3) at a distance from the supporting platform (3), or which is a worksite crane.