**CLAIMS**

1. Method in the manufacture of an elevator, in which method the parts of ~~the~~ a platform (4), more particularly its support structure (18), are used for :

   forming ~~the~~ a structure (F,C,B,18) supporting ~~the~~ machinery (5) of ~~the~~ a final machine room (M2) of the elevator, which the platform (4) has earlier been in its position in a position (I) disposed lower in ~~the~~ an elevator hoistway (1), and which the platform (4) was used in the aforementioned lower disposed position (I) for supporting the machinery (5);

   resting the support structure (18) on and above a floor (F); and

   forming a casting platform by pouring casting material (C) onto a plate (P), the plate (P) being placed below a top surface of the floor (F), the casting platform having a top surface which is substantially level with the top surface of the floor (F).

2. Method according to the preceding claim, characterized in that in the method the machinery (5) for moving ~~the~~ an elevator car (2) is transferred into ~~the~~ a space (M) reserved for the final machine room from ~~the~~ a position (I) disposed lower in the elevator hoistway (1), while being supported by the platform (4) that supports the machinery (5), more particularly by the support structure (18) of said platform, and the parts of the platform (4), more particularly its support structure (18), that supports the machinery are used for forming the structure supporting the machinery (5) of the final machine room (M2) of the elevator.

3. Method according to any of claims 1-2 above, characterized in that the machinery (5) has been in its position in ~~a~~ the position (I) disposed lower in the elevator hoistway (1), supported by the platform (4), more particularly by its support structure (18), and preferably the machinery (5) has been used for moving the elevator car below it to serve passengers.

4. Method according to any of claims 1-3 above, characterized in that in the method the elevator is used for serving passengers before ~~the~~ a final lifting height of the elevator is reached, and in the method ~~a~~ the platform (4) that supports the machinery (5) of the elevator is moved with a plurality of jump-lifts in progressive steps upwards in the elevator hoistway (1), and when the platform (4) that supports the machinery (5) has been moved to the top part of the elevator hoistway (1) with the aforementioned plurality of jump-lifts, the machinery (5) of the elevator is transferred into the space (M) that is an extension of the elevator hoistway (1) and is reserved for the final machine room of the elevator by lifting the aforementioned platform (4) that supports the machinery (5), e.g. said platform as it is or partly disassembled.

5. Method according to any of claims 1-4 above, characterized in that when the machinery (5) has been transferred into the space (M) reserved for the final machine room, the platform (4) that supports the machinery (5) is supported in its position, and the structure that supports the machinery (5) of the final machine room (M2) of the elevator is formed at least partly from the support structure (18) of the platform (4).

6. Method according to any of claims 1-5 above, characterized in that the support structure (18) is lifted through from ~~the~~ an aperture (O) leading into the space (M) that is an extension of the elevator hoistway (1) and is reserved for the final machine room, after which the support structure (18) is lowered to rest on ~~the~~ a load-bearing structures of the building, preferably to rest on the top surfaces (B) comprised in the load-bearing structures.

7. Method according to any of claims 1-6 above, characterized in that the structure that supports the machinery of the final machine room (M2) of the elevator is formed at least partly from the support structure (18) of the aforementioned platform (4) that supports the machinery (5) such that the space above, and possibly also reaching to the sides of, the support structure (18) forms the space of the final machine room (M2), and the space below the support structure (18) forms the final elevator hoistway (1).

8. Method according to any of claims 1-7 above, characterized in that the platform (4) comprises ~~a~~the support structure (18), which can be transferred between a contracted and an extended position, and in that the machinery (5) is transferred while being supported by the platform (4) into the space (M) reserved for the final machine room by lifting the support structure (18) through from the aperture (O) leading into the space (M) that is an extension of the elevator hoistway (1) such that the support structure is in the contracted position, after which the support structure is transferred to the extended position, in which position the support structure (18) extends to over the load-bearing structures, and the support structure is lowered to rest on the aforementioned load-bearing structures.

9. Method according to any of claims 1-8 above, characterized in that in the extended position the support structure (18) extends to over ~~a~~the load-bearing structure on at least two opposite sides of the aperture (O).

10. Method according to any of claims 1-9 above, characterized in that after the support structure (18) has been lowered to rest on the aforementioned load-bearing structures, casting is performed, in which casting the aperture /apertures (O) between the elevator hoistway (1) and the space (M) are filled with casting material (C), such as with e.g. concrete-based casting material.

~~11. Method according to any of claims 1-10 above, characterized in that the casting is performed by casting the casting material (C) onto a plate (P) placed at the point of the aforementioned aperture/apertures (O), the top surface of which plate (P) is preferably below the top surface of the floor (F) of the space (M) reserved for the final machine room.~~

~~12.~~11. Method according to any of claims 1-~~11~~10 above, characterized in that the space (M) reserved for the final machine room comprises a floor (F), on which it is possible to walk, and which space (M) reserved for the machine room is preferably essentially wider than the elevator hoistway (1) in at least one lateral direction.

~~13.~~12. Method according to any of claims 1-~~12~~11 above, characterized in that the platform (4) is lifted with a hoisting device (21), which takes ~~the~~ a vertical support force needed for lifting from ~~a~~ the structure of the space (M) reserved for the machine room, preferably such that the support force is taken from higher than the level of the top surface of the floor of the space (M) reserved for the machine room, preferably from the roof and/or walls of the space (M) reserved for the machine room and/or from an additional support structure arranged in the space (M) reserved for the machine room, which additional support structure is preferably supported on the floor.

~~14. Method according to any of claims 1-13 above, characterized in that the casting (C) forms a platform, the top surface of which is on essentially the same level as the top surface of the floor (F) of the machine room.~~

~~15.~~13. Method according to any of claims 1-~~14~~-12 above, characterized in that the aforementioned load-bearing structure is a part of the floor (F) of the space (M) reserved for the final machine room or a support structure supported on the floor or a wall structure of the top part of the elevator hoistway (1).

~~16.~~14. Method according to any of claims 1-~~15~~-13 above, characterized in that the casting (C) forms at least partially the roof structure of the final elevator hoistway.

~~17.~~15. Method according to any of claims 1-~~16~~-14 above, characterized in that before the lifting of the platform (4), some parts are removed from being in connection with it, preferably at least one or more of the following:

- at least a part, preferably all, of ~~the~~ hoisting means (9,10), which are arranged to lift the platform (4) while it is being supported by ~~the~~ a support structure (6) upwards in the elevator hoistway (1) in connection with jump-lifts, preferably at least the hoisting device (9);~~,~~
- a part (16,17,19,52-54) of the frame of the platform (4) that supports the machinery (5), preferably at least those parts of the frame of the platform that supports the machinery (5) that are above the machinery (5),

preferably such that the total height of the platform that supports the machinery essentially decreases;~~,~~

- ~~the~~ working platform (52) above the machinery;~~,~~
- ~~the~~ buffers (16); and~~,~~
- the support structure (6), supported on which the platform that supports the machinery is moved upwards in the elevator hoistway in connection with jump-lifts~~,~~.

~~18.~~16. Method according to any of claims 1-~~17~~15 above, characterized in that after each aforementioned jump-lift the platform (4) supporting the machinery (5) is supported in its position in the elevator hoistway (1) supported by the support structure (18) of the platform (4) that supports the machinery (5), which support structure (18) extends to rest on the top surface of a load-bearing structure of the building on at least two opposite sides of the elevator hoistway (1).

~~19.~~17. Method according to any of claims 1-~~18~~16 above, characterized in that in the method the machinery (5) that has been in use between jump-lifts is used as the final machinery of the elevator for moving the elevator car of the final elevator.