Claims

1. A building lift comprising:
   - ❖ a platform for carrying a person in a wheelchair;
   - ❖ a drive mechanism coupled to the platform for moving the platform;
   - ❖ an anchor further coupled to the drive mechanism for supporting the drive mechanism onto a building;
   - ❖ a detector for detecting obstruction to movement of the platform; and
   - ❖ an electronic identification for identifying the building lift automatically;

   wherein the drive mechanism comprises a rotator for moving the platform laterally, and an elevator for moving the platform vertically.

2. The building lift of claim 1, wherein
the drive mechanism comprises a folding mechanism for folding the platform onto the drive mechanism.

3. The building lift of claim 1 or 2, wherein
the drive mechanism comprises a control unit for operating the building lift.

4. The building lift of the any of the preceding claims, wherein
the drive mechanism further comprises a remote controller for operating the building lift at a distance.

5. The building lift of the any of the preceding claims further comprising
a safety bar that is foldable around a wheelchair on the platform.

6. The building lift of any of the preceding claims, wherein
the platform has a skirt near an edge of the platform for preventing a wheelchair on the platform from moving off.

7. The building lift of any of the preceding claims, wherein
the drive mechanism comprises a security lock for authorising operation of the building lift.

8. The building lift of any of the preceding claims, wherein
the anchor comprises a base mounting plate for securing the anchor to a floor of the building.

9. The building lift of any of the preceding claims, wherein
the platform comprises a non-slip surface for preventing freewheeling of the wheelchair on the platform.

10. The building lift of any of the preceding claims, wherein
the detector comprises a force sensor for halting movement of the building lift if detecting a resistance force larger than a predetermined threshold substantially.

11. The building lift of claim 10, wherein
the force sensor is configured to halt the movement of the building lift if detecting the resistance force larger than 7kG substantially.

12. The building lift of any of the preceding claims, wherein
the detector comprises at least one proximity sensor for operating the building lift according to field measurement or microcontroller programming.

13. The building lift of any of the preceding claims, wherein
the driver mechanism further comprises a rotary range stopper and a linear range stopper for adjusting mutually independent movement parameters of the platform in order to adapt to different users or building environments

14. A residential unit comprising:
the building lift of any of the preceding claims;
wherein the anchor is fixed near an entrance of the residential unit for fetching a wheelchair into the residential unit.

15. The residential unit of claim 14 further comprising
a communication device for communicating with the building lift automatically.

16. The residential unit of claim 14 or 15 further comprising
a domestic power supply that is connected to the building lift for powering the building lift by an electrical grid.

17. A building comprising:
the residential unit of any of the preceding claims 14 to 16; and
the building lift of any of the preceding claims 1 to 13.

18. The building of claim 17 further comprising
a corridor for installing the building lift of any of the preceding claims 1 to 13.

19. A method of installing a building lift, the method comprising
- providing a platform, a drive mechanism and an anchor of the building lift;
- securing the anchor to a building;
- mounting the drive mechanism onto the anchor;
- joining the platform onto the drive mechanism;
- installing a detector for detecting obstruction to movement of the platform; and
- giving an electronic identification to the building lift for identifying the building lift automatically;
- configuring a rotary range stopper and a linear range stopper of the drive mechanism in order to adjust mutually independent rotary and linear movement ranges of the platform in order to adapt to different users or building environments.

20. The method of claim 19 further comprising
levelling the platform of the building lift.

21. A method of maintaining a building lift, the method comprising

- examining a platform, a drive mechanism or an anchor of the building lift;
- measuring existing configuration of the platform;
- adjusting the platform according to predetermined configuration of the platform;
- defining mutually independent rotary and linear movement parameters of the platform in order to adapt to different users or building environments;
- configuring a detector of the building lift for detecting obstruction to movement of the platform; and
- giving an electronic identification to the building lift for identifying the building lift automatically.

22. The method of claim 21 further comprising
cleaning at least one component of the building lift.

23. The method of claim 21 or 22 further comprising
configuring the drive mechanism.

24. A method of recycling a building lift for a residential unit comprising:

- disconnecting a platform, a drive mechanism, and an anchor from a building;
- moving the platform, the drive mechanism, and the anchor to another building;
- securing the anchor to the other building;
- mounting the drive mechanism onto the anchor;
- joining the platform onto the drive mechanism;
- configuring mutually independent rotary and linear movement parameters of the platform in order to adapt to different users or building environments;
- configuring a detector of the building lift for detecting obstruction to movement of the platform; and
- giving an electronic identification to the building lift for identifying the building lift automatically.