CLAIMS

1. A contacting apparatus (200) for engaging a track conductor (370) of a track (31, 32, 33) in a track system (30) of a patient lift (100), the contacting apparatus (200) being adapted to be mounted to a hoist trolley (103) of the patient lift (100) movably connected to the track (31, 32 33), the contacting apparatus (200) comprising:

a mounting console (280) adapted to be mounted to the hoist trolley (101),

a contact carrier (240) arranged to be in conductive contact with the track conductor (370),

a lever arm (290) pivotally connected to the mounting console (280), and

a biasing arrangement (220) adapted to resiliently bias the contact carrier (240) against the track conductor (370) to accommodate conductive contact between the track conductor (370) and the contact carrier (240).

2. The contacting apparatus (200) according to claim 1, wherein the contact carrier (240) is mounted to a first portion (291) of the lever arm (290) and a second opposite portion (292) of the lever arm (290) is pivotally connected to the mounting console (280), the second portion (292) being further connected to the biasing arrangement (220) for urging the contact carrier (240) to come into conductive contact with the track conductor (370).

3. The contacting apparatus (200) according to claim 1 or 2, wherein the lever arm (290) is arranged to extend in a direction parallel to the track conductor (370) and pivotable about a pivot axis (P) extending orthogonally to the track conductor (370).

4. The contacting apparatus (200) according to any one of the preceding claims, wherein the lever arm (290) is pivotally mounted to the mounting console (280) by means of a pivot pin (272), and

wherein a first end of the pivot pin (272) is rotatably arranged in a bearing (274) of the mounting console (280) and a second end of the pivot pin (272) is arranged in a guiding slot (282) of the mounting console (280) arranged to allow tilting movement of the lever arm (290) relative the pivot axis (P), wherein the biasing arrangement (220) is arranged to

bias the lever arm (290) against said tilting movement.

5. The contacting apparatus (200) according to claim 4, wherein a spring (221) of the biasing arrangement (220) is arranged to at least partially extend in a direction parallel to the lever arm (290), the spring (221) connecting a mounting shoulder (273) of the lever arm (290) arranged at the first portion (291) of the lever arm (290) and a lip (261) of the mounting console (280), said spring (221) being arranged to bias the lever arm (290) against the tilting movement.

6. The contacting apparatus (200) according to claim 5, wherein the spring (221) is arranged proximal to the second portion (292) of the pivot pin (272).

7. The contacting apparatus (200) according to any one of the preceding claims, further comprising a guiding wheel (251) for engaging the track (31, 32, 33).

8. A patient lift (100) comprising:
a hoist (101) comprising an electrically-actuated lifting member (121) actuatable between a raised and lowered position,
a track system (30) comprising a first track portion (310) and a second track portion (320),
wherein said first track portion (310) comprises a track conductor (370), the track conductor (370) extending along said first track portion (310),
a hoist trolley (103) mounted to the hoist (101) and movably connected to the track system (30), the first track portion (310) and the second track portion (320) being alignable or aligned to accommodate passage of the hoist trolley (103) between said first and second track portion (310, 320),
a contacting apparatus (200) mounted to the hoist trolley (103), the contacting apparatus (200) comprising a contact carrier (240) arranged to be in conductive contact with the track conductor (370) of the first track portion (310) and a biasing arrangement (220), said biasing arrangement (220) being adapted to resiliently bias the contact carrier (240) against the track conductor (370) to accommodate conductive contact between said track conductor (270) and contact carrier (240),
a guiding arrangement (390) being arranged to engage the contact carrier (240) to move

said contact carrier (240) out of contact with the track conductor (370) of the first track portion (310) as the contact carrier (240) engages the guiding arrangement (390) upon movement of said hoist trolley (103) in a direction extending from the first track portion (310) to the second track portion (320).

9. The patient lift (100) according to claim 8, wherein the second track portion (320) comprises a track conductor (370) extending along said second track portion (320), the contact carrier (240) being arranged to be in conductive contact with said track conductor (370) and the biasing arrangement (220) being adapted to resiliently bias the contact carrier (240) against said track conductor (370) to accommodate conductive contact between said track conductor (270) and contact carrier (240).

10. The patient lift (100) according to claim 9, wherein the guiding arrangement (390) is arranged to guide the contact carrier (240) into contact with the track conductor (370) of the second track portion (320) after passage of the hoist trolley (103) to the second track portion (320) upon movement of the hoist trolley (103) along the second track portion (320) in the direction extending from the first track portion (310) to the second track portion (320).

11. The patient lift (100) according to any one of claim 8 to 10, wherein the guiding arrangement (390) comprises a guiding element (395) extending along the first and second track portion (310, 320), said guiding element (395) forming a first engaging portion (391) arranged to intersect the track conductor (370) of the first track portion (310) to provide a transition for the contact carrier (240) from the first track portion (310) to a main portion (392, 394) of the guiding element (395).

12. The patient lift (100) according to claim 11, the guiding element (395) forming a second engaging portion (393) arranged to intersect the track conductor (370) of the second track portion (320) to provide a transition for the contact carrier (240) from the second track portion (320) to the main portion (392, 394) of the guiding element (395).

13. The patient lift (100) according to any one of the claims 8 to 12, wherein the

contacting apparatus (200) comprising a mounting console (280) adapted to be mounted to the hoist trolley (101) and a lever arm (290) pivotally connected to the mounting console (280), the biasing arrangement (220) being adapted to resiliently bias the contact carrier (240) against the track conductor (370) to accommodate conductive contact between the track conductor (370) and the contact carrier (240), said biasing arrangement (220) resiliently connecting the lever arm (290) and the mounting console (280).

14. The patient lift (100) according to any one of the claims 8 to 13, comprising a first contacting apparatus (200) and a second contacting apparatus (200), whereby any one or each of the first track portion (310) and second track portion (320) is provided with a first and second track conductor (370), wherein the contact carrier (240) of the first contacting apparatus (200) is arranged to be in conductive contact with the first track conductor (370) and the contact carrier (240) of the second contacting apparatus (200) is arranged to be in conductive contact with the second track conductor (370).

15. The patient lift (100) according to any one of claim 8 to 14, wherein the first track portion (310) is formed by a first track (31) and the second track portion (320) is formed by a second track (32), the first track (31) and the second track (32) being alignable or aligned to form a junction accommodating passage of the hoist trolley (103) between said first and second track (31, 32), the guiding arrangement (390) being arranged to engage the contact carrier (240) to move said contact carrier (240) out of contact with the track conductor (370) of the first track (31) as the contact carrier (240) approaches the junction upon movement of said hoist trolley (103) in a direction extending from the first track (31) to the second track (32).

16. The patient lift (100) according to claim 15, wherein one of the first track (31) and the second track (32) is a stationary track and the other is a movable track.

17. The patient lift (100) according to claim 16, wherein the movable track is translationally movable and/or rotationally movable relative the stationary track.

18. The patient lift (100) according to any one of claim 8 to 17, wherein the first track

portion (310) and the second track portion (320) are formed as serially arranged sections of a single track.

19. The patient lift (100) according to any one of claim 8 to 18, further comprising a battery unit (92) electrically connected to the contacting apparatus (200) for power transfer between the battery unit (92) and the contacting apparatus (200).

20. The patient lift (100) according to any one of claim 8 to 19, further comprising a drive system (95) adapted to drive the hoist trolley (103) along the track system (30) and a control unit (90) operatively connected to said drive system (95) and configured to control said drive system (95).